Northwest Oregon BLM
Siuslaw National Forest
Willamette National Forest

Picture by Alyssa Dawson, Hills Creek Reservoir from the Kitson fire in 2019

2020 Northwest Oregon BLM, Siuslaw NF, and Willamette NF

Mobilization Guide

EICC

Eugene Interagency Communication Center

Northwest Oregon Bureau of Land Management
Siuslaw National Forest
Willamette National Forest
Eugene Interagency Communication Center

MOBILIZATION PLAN - 2020

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PREFACE

EUGENE INTERAGENCY COMMUNICATIONS CENTER (EICC)

An interagency dispatch center serving the communication needs of all employees of the Northwest Oregon BLM, Siuslaw National Forest, Willamette National Forest, BLM and USFS. EICC provides all risk incident management communications and coordinates resource mobilization.

CHAPTER 10 - OBJECTIVES, POLICY, AND SCOPE OF OPERATION

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MISSION STATEMENT

With spirit we accept challenge. With integrity we commit to safety, people, resources and fun.

PRIORITIES

Willamette & Siuslaw NF's - When competition for resources between the local Ranger District occurs the Fire Staff in consultation with the District/ Zone Fire Management Officers/ Duty Officers and Forest Line Officers will establish priorities.

CODE OF CONDUCT FOR FIRE SUPPRESSION:

The following Code of Conduct for Fire Suppression is an integral part of our agency culture. Line Officers, Fire Program Managers, and firefighters at all organizational levels shall embrace these codes and be held accountable for compliance. The hallmarks for all Forest Service firefighters are Duty, Respect, and Integrity (see IRPG vii, viii, ix).

- Firefighter safety comes first on every fire, every time.
- Use the 10 Standard Firefighting Orders and 18 Watch-Out Situations when calculating the severity of risk versus the benefit of the engagement.
- Mitigate risk to the level acceptable to the Agency Administrator.
- Every firefighter has the right to know that his or her assignments are safe.
- Every fireline supervisor, every fire manager, and every administrator has the responsibility to confirm that safe practices are known and observed.
- All suppression actions will be planned and conducted with strict adherence to Agency Safety Codes.
- Knowledge of the Fire Orders, Common Denominators of Fire Behavior on Tragedy Fires, the 18 Watch-Out Situations, and LCES (Lookouts, Communications, Escape Routes and Safety Zones) are requirements for all personnel. Each employee will be familiar with safe practices.
- All personnel dispatched to fires who have fireline duties must have agency approved personal protective equipment. Refer to the current Interagency Standards for Fire and Fire Aviation Operations.
- All personnel should know and follow aviation safety regulations.

SCOPE OF OPERATION

GENERAL

The **EICC Mobilization Guide** is a supplement to the **Northwest Area Interagency Mobilization Guide** and **National Interagency Mobilization Guide.** These mobilization guides are an extension of agency manual and handbook systems, directives, and instruction memorandums relating to logistical support operations to provide dispatching policies, procedures, and organization. This guide contains a directory, and a catalog of personnel, equipment, supplies, and aircraft, that assist in obtaining timely and cost-effective incident support services and to ensure control of all fires within prescribed standards. This guide will be updated annually by June 15TH. Distribution to districts the week of Fire School and available electronically in pinyon.

Between the Northwest Oregon District BLM, US Fish and Wildlife Service, Siuslaw and Willamette NF's, the EICC Center Manager and Assistant Center Manager are delegated the authority by the participating agencies to mobilize aircraft, personnel, and equipment for incident emergencies and/or pre-suppression needs.

EICC - RESPONSIBILITIES

In the NWOIFM operating plan between Northwest Oregon District BLM, US Fish and Wildlife Service, Siuslaw and Willamette NF's defines the primary roles and responsibilities of the Center. In addition, expectations and responsibilities for Unit Dispatch Offices are found in the Interagency Standards for Fire and Fire Aviation Operations, Chapter 16.

PARTICIPATING UNIT - RESPONSIBILITIES

The primary roles and responsibilities of the Northwest Oregon District BLM, US Fish and Wildlife Service, Siuslaw and Willamette National Forests are found in the NWOIFM Operating Plan between Northwest Oregon District BLM, Siuslaw and Willamette National Forests.

PROJECT CHANNEL ASSIGNMENTS

In an effort to minimize over-lapping radio traffic on project channels the districts will be assigned the following channels:

(b)(7)(F)

AD HIRING AUTHORITY

The authority to hire Administratively Determined Casual employees (AD-Casual firefighters), as directed by the Agency Administrator is listed in the Delegation of AD Hiring Authority letter, Exhibit No. 3. Electronic location 5100 Fire management. The guidelines are addressed in the **NWCG standards for Interagency Incident Business Management Handbook, Chapter 10.** Updated hire information will be sent out to those who have delegated hiring authority, annually.

FSM 5134.1 - Emergency Firefighter Requirements :
"Persons employed under the Administratively Determined (AD) Pay Plan for Emergency Firefighters must meet agency standards; for training and physical fitness requirements)FSM 5126.03, 5126.1 and 5130; FSH 5109.17 and the Wildland and Prescribed Fire Qualification System Guide ,PMS 310-1 ,FSM 5108)."

STAFFING/HOURS

EICC – Staffing/Hours

CORE SEASON: Operating hours for EICC during the core season (approximately first week in July to mid October) will be from 0800 to 1830, seven days a week. The actual length of time during the core season is subject to change due to operational needs. EICC daily staffing and on-call dispatcher can be found on the EICC webpage.

OUTSIDE CORE SEASON: Outside of the core season, unless otherwise requested, EICC will maintain standard office hours (0800-1630) Monday through Friday.

Weekend or additional staffing outside the core season will be on an "as needed" basis. Ranger Districts and/or Resource Areas will request, in advance, EICC staffing outside of the core season (i.e. project work, prescribed burning, aviation activities, and other needs).

NWOIFM Suppression Resources – Staffing/Hours
Engine & Patrol Schedule:

RESOURCE	Sun	Mon	Tue	Wed	Thu	Fri	Sat
ENG 441 – SRZ	X	X	X	X	X	X	X
ENG 342 – SRZ	X	X	X	X	X	X	X
ENG 411 – MRRD	X	OFF	OFF	X	X	X	X
ENG 413 – MRRD	X	X	X	OFF	OFF	X	X
ENG 351 – MFRD	X	X	X	X	X	X	X
ENG 452 – MFRD	X	X	X	X	X	X	X
ENG 453 – MFRD	X	X	X	X	X	X	X
ENG 454 – MFRD	X	X	X	X	X	X	X
ENG 621— HEBO	X	X	X	X	X	X	X
ENG 623— REEDSPORT	X	X	X	X	X	X	X
PAT 21— WALDPORT	X	X	X	OFF	OFF	X	X
PAT 23— REEDSPORT	X	OFF	OFF	X	X	X	X
ENG 8481— BLM	*	*	*	*	*	*	*
ENG 8682— BLM	*	*	*	*	*	*	*
ENG 8683— BLM	*	*	*	*	*	*	*
ENG 9691—FWS	*	*	*	*	*	*	*
TOTAL	11	9	10	10	10	11	11

Crew Schedule:

RESOURCE	Sun	Mon	Tue	Wed	Thu	Fri	Sat
Crew 201—SUF	X	X	X	OFF	OFF	X	X
Crew 401 – SRZ	X	X	OFF	OFF	X	X	X
Crew 101 – MRRD	X	X	X	X	X	OFF	OFF
Crew 501 – MFRD	OFF	OFF	X	X	X	X	X
TOTAL (20 person crews)	3	3	3	2	3	3	3

HAZARDOUS MATERIALS

The dispatch procedures for hazardous materials on the Northwest Oregon District BLM, Siuslaw and Willamette NF's are found in Chapter 90 of this guide.

Aviation Transportation of Hazardous Materials: **The Interagency Aviation Transportation of Hazardous Materials Guide and US DOT Special Permit Authorization (expires 7/30/2022)** is available at the OAS website: https://www.doi.gov/aviation/library/guides

MOBILIZATION AND DEMOBILIZATION

EICC strives for cost-effective mobilization and demobilization of resources between the Northwest Oregon BLM District, Siuslaw NF, Willamette NF and the Northwest Interagency Coordination Center (NWCC), neighboring federal land management agencies and cooperators commensurate with agency organizational practices.

WORK/REST GUIDELINES, LENGTH OF ASSIGNMENT, REST AND RECUPERATION, AND DRIVING STANDARDS

In order to provide for safe, efficient, and effective support to incident operations, the following policy on work/rest, length of assignments, and incident driving operations is established. This policy applies to ALL firefighters, overhead, dispatchers, and support personnel.

See Exhibit 1 and Exhibit 2 at the end of this chapter. References from the Interagency Standards for Fire and Fire Aviation Operations, Chapter 7, Page 163 Red Book).

CREW AND ENGINE ROTATION

The crew and engine rotation for off-unit assignments is effective from the completion of guard school through September 30 each year. Dispatches during off season will be according to availability by the FMO's. These dispatches will not affect the sequence of the rotation list.

An off-unit assignment is defined as any mobilization by resource order outside of the dispatch area regardless of length of assignment or number of shifts on the line, provided the module has had the opportunity to check in with the incident. All on-unit assignments will not affect the rotation list with the exception of a IMT Type 1, 2, or 3 resource order.

Once a resource has returned from assignment, they will be put back in rotation on a first-come first-served basis regardless of previous rotation order. The exception to this is if two or more modules are demobed from a 14-day assignment on the same day, the rotation order reflects what was prior to dispatch.

The engine rotation will be a continuous rotation from year to year starting with the rotation according to where it was left off the previous year. The crew rotation will be fixed, shifting each crew up one position each year.

For example: **2019**— C-501, C201, C-GRT, C-101, C-401, **2020**—C-201, C-GRT, C-101, C-401, C-501, **2021**—C-GRT, C-101, C-401, C-501, C-201

The rotation list for crew and engine assignments is found at http://oreic.org/intelreport.shtml

For the 2020 season, the rotation lists is as follows:

Crew Rotation:	Engine Rotation:
1st Siuslaw	1st NW Oregon BLM
2nd Grand Ronde Tribe	2nd Siuslaw
3rd McKenzie River	3rd Grand Ronde
4th Santiam River	4th Santiam River
5th Middle Fork	5th McKenzie River
	6th Middle Fork
	7th Middle Fork

If an engine or crew is up for assignment and is unable to fill the order, they will drop to the bottom of the rotation. Each district/ zone needs to have a roster submitted to be available. It is the units responsibility to be aware of their location in the rotation and have a roster ready when EICC calls to check availability for an assignment. An exception will be made within the Engine rotation when EICC receives a request for a specific type of Engine (Type 3, 4 or 6). If a unit does not have the engine type specified in the request they will not lose their position within the rotation. For example the SUF Fire Zone only has Type 6 Engines and will not be moved to the bottom on the rotation if EICC receives a request for any other specific type.

RESOURCE MOBILIZATION

Local Unit Identifiers:

- OR - EIC: Eugene Interagency Communications Center
- OR - GRT: Confederated Tribes of Grand Ronde
- OR - NOD: Northwest Oregon District – BLM
- OR - OCR: Oregon Coastal Refuge
- OR - SUF: Siuslaw NF
- OR - WIF: Willamette NF
- OR - WVR: Willamette Valley National Wildlife Refuge Complex

NOTIFICATION OF COMMITMENT OF NATIONAL RESOURCES

When national resources or NW Area shared resources are assigned to incidents in the EICC Area, EICC will follow the notification procedures as outlined in the National and NW Mobilization Guides.

UNABLE TO FILL (UTF) PROCEDURES

Unable to Fill (UTF) Procedure - Reference the current **National Interagency Mobilization Guide, Chapter 10, Page 10.**

A 48 hour "Unable-To-Fill" (UTF) policy exists nationally. NICC will return request to the ordering GACC with a "UTF" no more than 48 hours after receipt, unless notified the order can be filled. NICC will not accept or process any request previously UTF'd unless a new request number is assigned.

EICC will notify NWCC and/or neighbors within 1 hour of an order being placed with EICC and confirm if the order can be filled.

STANDARD CUBES, WEIGHTS, AND GEAR POLICY

Reference current National Interagency Mobilization Guide, Chapter 10, Page 10.

Type 3 INCIDENT COMMANDER

Type 3 Incident Commanders (ICT3s) are qualified according to the 310-1. When ICT3s are required to manage an incident they must not have concurrent responsibilities that are not associated with the incident and they must not concurrently perform single resource boss duties. It is important to note that not all Type 3 complexity incidents require a full complement of individuals at the Command and General Staff positions. An ICT3 is expected to exercise their authority and establish the appropriate organizational structure for each incident as based on complexity and span of control. Refer to the current **Interagency Standards for Fire and Fire Aviation Operations (Red Book), Chapter 11, page 240-241. See 2020 Interagency Standards for Fire and Aviation Direction for new T3 quals pg 241.**

As an incident escalates, a continuing reassessment of the complexity level should be completed to validate the continued Type 3 effort or the need for a higher level of incident management". Refer to **Appendix E & F** in the current **Interagency Standards for Fire and Fire Aviation Operations (Red Book).**

INITIAL ATTACK/ EXTENDED ATTACK

INITIAL ATTACK DEFINITION

Initial Attack definition and specific procedures for designation – Reference: current National Interagency Mobilization Guide, Chapter 10, Page 7.

INITIAL ATTACK PROCEDURES

All fires occurring on the Northwest Oregon District BLM, Oregon Coast Refuge Complex, Siuslaw NF, or Willamette NF will be reported to EICC. EICC will report all fires occurring on the NWOR BLM district to the Oregon Department of Forestry.

All requests will be placed through EICC, with the exception of local cache items and district resources. If district crews and engines are committed, EICC will be notified.

All incidents will follow the NWCG Interagency Incident Business Management Handbook and PNWCG/Willamette NF Incident Business Management Guidelines.

Lightning events shall be reported to EICC or the EICC On-Call Dispatcher as soon as they occur. Information should include: location, travel directions, severity, number of known starts, and estimated amount of moisture.

A qualified fire investigator/LEO should be requested on fires of unknown and/or suspicious origin. If an ODF fire investigator is requested for a Forest Service fire, create a request in ROSS and place with ODF. For Northwest Oregon District BLM fires – ODF is responsible for assigning the fire investigator.

MORNING REPORT

Beginning on June 15 to October 15th, subject to change with duty officer discussion based on fire activity. Each unit will report their daily status to Eugene Dispatch on the online status page before 10AM. EICC will update nationally available resources in IROC.

INITIAL ATTACK PROCEDURES – WILDERNESS FIRES

- Human caused fires will be controlled and suppressed in an appropriate manner.

For lightning caused fires consider opportunities to manage the fire or portions of the fire for Wilderness objectives. Fires not suppressed during initial attack and/or managed for the long-term will have a risk analysis, course of action and decisions developed in the WFDSS program. Follow the guidelines established in the Forest Service 2016 Wildland Fire Risk Management Protocols.

LIGHTNING FIRE DISPATCH PROCEDURES

Prior to a lightning event

Zone or Ranger District Responsibilities

Check the status of available non-fire personnel to supplement existing initial attack resources. Patrols are usually sent out in pairs with the leader being ICT5 qualified.

Establish a district organization that consists of a duty officer (DO), a radio operator, and an individual to coordinate logistics with EICC.

EICC Responsibilities

Ensure adequate staffing.
Monitor lightning map and track incoming storms.

During the event

Zone or Ranger District Responsibilities

Relay any fire reports to EICC by radio/ phone.

Advise EICC of resource availability. Provide local equipment and supplies to incidents as needed.

Keep records and prepare reports. Record fire locations on a map.

Limit radio traffic to essential incident information. Radio traffic at the fire should occur over the Fire/Project Channel.

EICC Responsibilities

Receive and act upon fire reports in priority order. Dispatch the closest and most appropriate resources to the incident.

Relay incident dispatch information to appropriate staffs and DO's.

On complex incidents, coordinate actions with Zone or District DO. EICC will process all requests for Off Zone/District resources.

DISTRICT RADIO OPERATIONS

EICC is the only office called dispatch. Local district offices are prefaced by district or fire. For example:

McKenzie River Fire, Detroit Fire, Sweet Home Fire, Middle Fork Fire.

Field units contact local fire offices for needs that can be provided from that unit. All fire information and other needs go through EICC.

DESIGNATION OF INCIDENT COMMANDER (IC)

All employees are expected to promptly report wildfires to EICC. Employees who discover wildland fires are expected to take initial action consistent with their wildland fire qualifications. Employees without wildland fire qualifications are not expected to take initial action.

Upon arrival to the fire the IC will: contact EICC, identify themselves as the IC, and provide initial size-up information for the incident. The IC designation process (in the section below) will be utilized.

If there are any questions or confusion regarding the identity of the IC, EICC will contact the Zone or District DO to confirm the IC designation. The IC confirmation will be announced to the incident via the radio.

If the fire is beyond the qualification level of an IC, the IC shall request an appropriate level IC. When changing command between IC's use the process on the following section.

INCIDENT COMMANDER DESIGNATION PROCESS

EICC will broadcast over the radio to all resources on or enroute to the incident: "IC (NAME) has command." Generally this is the first-arriving IC, or EICC will request IC identification. EICC will document the name of the IC on the IC tab in WildCad.

From that point, refer to the IC as "IC-231" (231 being the fire incident number assigned by EICC) or "Rock Creek IC" (Rock Creek being the fire name).

Changing command: When the IC changes, state: "(NAME OF THE NEW IC) has command. The call sign will remain as "IC and the assigned incident number", (Example IC - 231). The IC taking command is responsible for informing EICC of the change in command. EICC will acknowledge and broadcast the change over the radio to resources on or en route to the incident. EICC will document the change on the IC tab in WildCAD.

Incident Commander Types 1, 2, and 3 will have no concurrent incident management positions as collateral duties. Unified Command, where appropriate, does not violate this requirement.

WILDERNESS FIRE SUPPRESSION

Wilderness Equipment Use Decision Matrix

Level of Approval Needed for each type of equipment	Fire Duty Officer	Agency Admin. With Wilderness Training	Regional Forester
Dozers			All Staffing Levels
Helicopters		All Staffing Levels *** See note 1 & 2**	
Pumps		All Staffing Levels ***See note 3**	
Power Saws		All Staffing Levels *** See note 4**	
Smoke Jumpers & Rappellers	All Staffing Levels *** See note 5**		
Retardant, Foam, & Gel		All Staffing Levels *** See note 6**	

1) If a fire has the potential to become large and costly to suppress, then the District Ranger may approve aerial resources.

2) Helicopters may be used to send/retrieve ground resources whenever there is an acute shortage of personnel for going fires, or if the use of primitive methods will result in an unacceptable impact to the wilderness. Helispots requiring no ground disturbance should be utilized first.

3) Power driven pumps should only be used for control or when hand mop up efforts will not meet suppression objectives or will degrade wilderness values.

4) Chainsaws may be used for control purposes when requested for and approved by authorized personnel. Felling of snags should be limited to the absolute minimum for containment and/or safety purposes.

The Zone or District DO will make recommendations to the District Ranger or his/her acting.

5) For individuals designated authority for intrusion approval, see letter in Chapter 90. **Rappellers: When requesting Rappellers, request approval to land in the Wilderness.**

6) The IC will order based needs, suitability, and retardant avoidance map for use of retardant and foam. Dispatch will verify IC is aware of retardant avoidance areas. Dispatch orders and concurrently seeks authorization from agency administrator with appropriate wilderness qualifications. This is commonly accomplished with communication through the FMO or District Ranger.

Follow "Leave No Trace Principles" – Remove all materials, trash, and equipment brought into the wilderness. Coordinate with resource advisors for location of campsites, helispots, staging areas, etc., and the proper procedure for handling human waste, washing water, food waste, etc.

H.J. ANDREWS EXPERIMENTAL FOREST

H.J. Andrews Experimental Forest is located on the McKenzie River District.

See HJ Andrews Experimental Forest Fire Plan, and Chapter 40 for contact numbers and additional information.

The initial goal of fire suppression is to suppress all fire starts. Should a fire escape initial attack, follow up action will depend upon whether or not the fire is in one of the monitored watersheds. The following guidelines apply:

Suppress all fire starts.

Protect structures and propane sources.

If a fire escapes initial attack, avoid retardant use.

> Within the monitored watersheds: - Do NOT use retardants. Take action to keep fires as small as possible. **Reason:** These watersheds have been established as long-term monitoring sites. Stream discharge, water chemistry, and sedimentation have been measured since the mid 1950's and have a very high scientific value. Because of the sensitivity of these areas, special measures are called for when fire suppression is necessary.
>
> Everywhere else: - It is not necessary to keep the fire small as possible, catch the fire at the next road or ridgeline. **Reason:** The greatest risk is that an existing study will be compromised by having a portion burn and a portion unburned, or that fire suppression actions negatively affect the study area. Also, small to moderate size fires may well be desirable as they would likely set up additional research opportunities. Roads or ridgelines provide a logical breakpoint.

Avoid the use of tractors and bulldozers. If it appears desirable to use ground-disturbing mechanized equipment, contact the HJA staff for prior approval on a case by case basis.

Other suppression activities may be acceptable after involvement of H.J. Andrews personnel in the development of the WFDSS (when needed).

LONG TERM ECOSYSTEM PRODUCTIVITY AREA (LTEP)

The LTEP area is located on the McKenzie River Ranger District and is accessed from Goodpasture Road. LTEP is on the Weyerhaeuser 8000 mainline road. There is a gate with four locks at the Deer Creek Bridge. There is also access from the Middle Fork Ranger District via road 1831-383. There is a gate on the road on Weyerhaeuser land in T. 17 S., R. 3 E., section 34. This only has a Weyerhaeuser lock on it.

See LTEP Fire Plan, Chapter 40.

Units are located in T. 17 S., R 3 E., sections 23, 26 and 35. General Latitude is 44° 3' 26.7". General Longitude is 122° 25' 31.7".

Suppression Guidelines

Initial Attack

Use only hand tools and water, put out small starts (less than 1/10 acre).

Depending on weather and fuel, larger fires should be stopped at unit boundaries. Otherwise suppress the fire using minimum impact techniques (hand tools and water).

Do not use retardant in units.

Do not use tractors or other heavy equipment in units.

Fire should be allowed to burn across paired units to provide similar effects within the pair.

Escape Fires – Extended Attack

Stop fire from entering private land.

Utilize the ridge road (585D5C) as fire line.

Utilize the trails to unit 5 and units 8/9 as fire lines.

Utilize creeks and established water sources.

Retardant is okay to use outside of LTEP units.

WILLAMETTE NF & MT. HOOD NF MOU WILDERNESS AREA MANAGEMENT

Please refer to the Memorandum of Understanding between the Mt. Hood NF and the Willamette NF regarding suppression responsibilities for the Bull of the Woods and Mt. Jefferson Wilderness Areas. This MOU is located at:

http://fsweb.f18.r6.fs.fed.us/eugene-interagency/documents/20120301-Final-MOU-MtHood-Willamette-joint-wilderness-lands.docx

BOUNDARY FIRES

Aviation

Boundary fires pose special risks for the aviation community. In some cases more than one aircraft is dispatched to single or multiple fires in the same geographical area by different dispatch centers. This causes a special risk for pilots and aircraft, which may not be aware of other aircraft being dispatched by another dispatch center.

Communications

The dispatch centers will communicate daily when there is a fire along the boundary. If ordering of aerial resources is being contemplated, it is imperative that both dispatch centers are immediately made aware of this intent.

Process:

The Floor Coordinator or Lead Dispatcher will coordinate communications with adjacent dispatch centers any time a fire or fires occur within a 5 mile corridor along an administrative boundary for which aerial resources are assigned or could potentially be assigned.

The following information will be communicated with the adjacent dispatch center and relayed to responding (or potentially responding) aircraft pilots:

- Location of the incident;
- Radio frequencies for adjacent dispatch center, Air to Air, and Air to Ground;
- Aircraft Type and Tail Number or Radio Call Sign
- Other known aircraft in the area or other aircraft responding to incident
- Mission (lead plane, air attack, helicopter with bucket, rappel helicopter etc.)
- Ground contacts on the incident

- Safety information pertinent to the mission.
- Ground contacts on the incident.

Incident Command Teams will promptly establish agreements to safely manage their incident when their fire(s) are located within the corridor boundaries of one or more units.

Fire Reports

The fire report information will be completed by the Forest assuming responsibility for initial attack. Fire report information will be forwarded to the dispatch center on whose lands the fire was on within required time frames.

STRUCTURAL AND VEHICLE FIRE SUPPRESSION

Structure: See Chapter 5, pages 128-129 of the 2020 Interagency Standards for Fire and Aviation Operations for sections: Structure Protection Definition, USFS Role, Local Government Role, Cost and Tactical Operating Principles.

Vehicle - See Exhibit 5.

INDUSTRIAL FIRE SUPPRESSION

Fires in timber sales or other industrial operation areas should be reported to the agency Timber Sale Administrator as soon as possible. Industrial fires on the Northwest Oregon District should be reported to the appropriate Oregon Department of Forestry District as well as the agency Timber Sale Administrator.

Purchaser shall, both independently and in cooperation with Forest Service, take all reasonable and practicable action to prevent and suppress fires resulting from Purchaser's Operations and to suppress any forest fire on Sale Area. Purchaser's independent initial fire suppression action on such fires shall be immediate and shall include the use of all necessary personnel and equipment at Purchaser's disposal on Sale Area or within the distance of Sale Area stated in AT10. (Per clause BT7.3 Fire Control in timber sale contract)

ODF – USFS FIRE SUPPRESSION

ODF & WIF/SUF National Forests Reciprocal Response (Mutual Aid)

The guiding document for fire operations occurring in designated reciprocal areas on ODF or USFS lands is the April 17, 2014 PNW Operating Plan and the corresponding Annual Operating Plan between Oregon Department of Forestry (North and South Cascades Districts), and the Umpqua and Willamette National Forests.

Fires occurring on state or private land will be promptly reported to the appropriate protection agency. The Fire Protection Services Operating Plan can be found on page 10-28 of this chapter.

ODF & Siuslaw NF Reimbursable Fire Suppression and Billing

The guiding document for fire operations and incident billing procedures between ODF and the USFS is the April 17, 2014 PNW Operating Plan and the corresponding Annual Operating Plan between Tillamook ODF, West Oregon ODF, Western lane ODF, Coos FPA, Oregon Coast Refuge Complex, and Siuslaw National Forest.

Supporting documentation for billing between Forest Service and ODF should be submitted promptly. All reimbursable resources need to be documented in ROSS and in some cases may require a Supplemental Agreement.

ORDERING CHANNELS/COST CODING

NEIGHBORING UNIT RESOURCES

Use of neighboring unit resources will be considered prior to ordering from the Northwest Coordination Center (NWC). EICC may place orders directly to neighboring units and agencies. The neighborhood policy for Extended Attack situations is suspended at Preparedness Level 3.
NW Area Mob. Guide Chapter 10, pages 6-9.

The following are neighboring units of EICC:

Central Oregon Dispatch (COC = DEF, OCF, PRD, 951S, 955S)
Columbia Cascades Dispatch (CCC = CGF, GPF, MHF, R1R, RFR)
Warm Springs, BIA Agency (WSC = WSA)
Roseburg Interagency Communication Center RIC (UPF,CBD, ROD)
Walker Range (99C)
Oregon Department of Forestry, Salem (ORC)
NW Oregon Area Dispatch Center (50C)
Tillamook District (510S)
North Cascades ODF District (580S)
Astoria District (520S)
West Oregon District (550S)
Forest Grove District (530S)
Southern Oregon Area Dispatch Center (70C)
South Cascade District (771S)
Western Lane District, ODF (781S)
Douglas District/DFPA (730S)
Coos FPA (721S)

INCIDENT ORDERING

Requests for resources as a result of an incident, preparedness, severity, wildland and prescribed fire will follow the established ordering channels as found in the National Mob. Guide Chapter 10 page 27.

NON-INCIDENT RELATED ORDERING

Resource acquisition not related to an incident, preparedness, severity, and wildland fire may also follow these ordering procedures. The use of appropriate cost coding procedures is required. Procedures for National Interagency Support Cache ordering are located within the National Mob. Guide - Chapter 40, page 56.

AVAILABILITY

Zones/Districts are responsible for identifying crews and engines that are available for off-unit assignments on the morning report. Overhead/Personnel are responsible for clearing their availability with their supervisor and should report their status to the local fire management staff and duty officer. Non-Fire Personnel are responsible for clearing their availability with their supervisors and should report their status to EICC. EICC will send resource orders to the corresponding duty officer or Fire office in addition to the receiving resource.

PREPAREDNESS PLAN

AREA PREPAREDNESS PLAN (Willamette and Siuslaw N.F's./Northwest Oregon District BLM)

Purpose
Identify the level of wildland fire activity, severity, and resource commitment within the protection boundaries of the EICC.

Identify actions to be taken by Unit Administrators, Agency Fire Staff Officers, Unit FMO's and the EICC Manager to assure an appropriate level of preparedness and readiness for the existing and potential situation.

Modify or curtail fire management activities and to assure adequate preparedness or response capabilities for situations within the protection boundaries of the EICC area.

Area Preparedness Levels
EICC preparedness levels are in accordance with agency direction and will consist of five preparedness levels. EICC will also be guided by the Pacific Northwest Geographic Coordination (NWC) Area and National Interagency Preparedness Plans.

Circumstances may arise that would entail an exception to management direction/considerations specified in the preparedness levels. When this situation develops, exceptions will be considered only if a written request is submitted to the appropriate administrator. (Unit or Agency, depending on the NW Area preparedness level)

Preparedness Plan
This plan has been reviewed for the 2020 fire season and will be reviewed annually.

Annual ERC 90th and 97th Percentile Values

Per the NW Oregon NFDRS Operations Plan - the 90th and 97th percentiles for the Energy Release Component (ERC) will be calculated each year for the Willamette N.F. and Siuslaw N.F. Weather Stations. The calculation will be based on fire season data (approximately June 15 through October 31) and will include the entire historical data set available for each weather station for the last 20 years (2000-2019). The weather station catalogs will be updated and the values will be published in the EICC mobilization guide. The 2020 values for fuel model G are shown below.

Willamette N.F.

RAWS	50%	75%	90%	97%
Fields	36	48	57	64

Siuslaw N.F.

RAWS	50%	75%	90%	97%
Cannibal	21	31	38	44
Goodwin	24	33	41	48

Note: Fields RAWS and Cannibal/Goodwin RAWS are the Key stations for Willamette NF and Siuslaw NF Pocket Cards.

Forest Preparedness Level Descriptions

Note: Committed = resources committed either On-Forest or Off Forest.

Factors	1	2	3	4	5
Fields ERC (percentile)	<50th	50 – 75th	75-90th	90 – 97th	> 97th
Fire Activity	Minimal IA	Misc. A&B IA 2 or more Zones	IA occurring on all Zones. Occasional C size incidents	Large fire Activity and IMT assigned	Large Fires with 2+ IMT assigned
Commitment of Resources	Planned Staffing	40% of IA resources committed 1 Crew 3 Engines	60% of IA resources committed 2 Crews 4 Engines	80% of IA resources committed 2 Crews 6 Engines	100% of IA resources committed 3 Crews 8 Engines
Commitment of Leadership	Planned Staffing	40% of Leadership committed 1 Fire Staff 1 FMO 2 AFMO's	60% of Leadership committed 2 Fire Staffs 2 FMO's 3 AFMO's	80% of Leadership committed 2 Fire Staffs 2 FMO's 5 AFMO's	100% of Leadership committed 3 Fire Staffs 3 FMO's 6 AFMO's

Preparedness Level Actions and Responsibility

PREPAREDNESS LEVEL I - ***Actions:***	RESPONSIBILITY
Normal Reporting Procedures	EICC
Normal Staffing	Unit FMO's
Normal Program Operations	All
PREPAREDNESS LEVEL II - *Actions:*	**RESPONSIBILITY**
Level I Actions carry through	
Increase Coordination on Rx Unit Activity	Unit FMO's
Additional Spot Wx for Rx Units in patrol/mop up status	
Consider additional/extended staffing all Units	EICC / FMO's / Fire Staff
Coordinate IFPL with cooperators	EICC / Fire Staff / Unit FMO's / ODF
Coordinate PSA w/ PAO	EICC / FMO's / Fire Staff / PAO
PREPAREDNESS LEVEL III - *Actions:*	**RESPONSIBILITY**
Level I - II Actions carry through	
No new Rx Unit ignitions in any Timber type	Unit FMO's
Weekly Briefing for Units @ 1030	EICC / Fire Staff
Additional/extended staffing all Units	EICC / FMO's/ Fire Staff
Increase in IFPL if warranted	EICC / Fire Staff / Unit FMO's / ODF
Consider PSA for Public Use Restrictions	EICC / FMO's / Fire Staff / PAO / Law Enforcement
PREPAREDNESS LEVEL IV - *Actions:*	**RESPONSIBILITY**
Level I - III Actions carry through	
100% mop up of remaining Rx Units	Unit FMO's
Daily Briefing for Units @ 1030	EICC / Fire Staff
Daily ID of available neighboring IA resources	EICC
Consider Preposition Contingency resources	EICC / FMO's / Fire Staff
Initiate PSA for Public Use Restrictions	EICC / FMO's / Fire Staff / PAO / Law Enforcement
Develop initial request for severity funds	EICC / FMO's / Fire Staff
PREPAREDNESS LEVEL V - *Actions:*	**RESPONSIBILITY**
Level I - IV Actions carry through	
Patrol and Monitor all current season RX Units	Unit FMO's
Preposition Contingency Resources	EICC / FMO's / Fire Staff
Request Severity dollars for Contingency Resources if warranted	EICC / FMO's / Fire Staff
Public Use Restrictions in affect w/ increase IFPL	EICC / FMO's / Fire Staffs / ODF / PAO / Law Enforcement

NWOIFM SUPPRESSION DRAW DOWN MATRIX

	Zone			Unit (NWOIFM)	
Staffing Level	**Patrol**	**Engine/IA Mod**	**Crew**	**Engine/IA Mod**	**Crew**
1	**1**	**0**	**0**	**1**	**0**
2	**2**	**0**	**0**	**3**	**0**
3	**1**	**1**	**0**	**4**	**1**
4	**0**	**2**	**0**	**8**	**2**
5	**0**	**2**	**1**	**8**	**4**

Definitions
Patrol- Minimum ICT5 + FFT2 and 50 gallons water with pump
IA Mod- Minimum of ICT5 plus 4 crewmembers
Engine- Minimum of Type 6
Crew- Minimum of 20 person Type 2

Definitions are based on what the minimum acceptable level of staffing are at t he zone level for each defined resource. The intent was to reflect what both the Willamette and Siuslaw staff with and build flexibility at the zone level.
It is understood that at many times at a SL 1 or 2 the WIF will have Type 3 or 4 engines staffed at the zones when the minimum could be a Type 6 or even a patrol. This builds the flexibility to have resources off forest or on days off on one zone, knowing that since other zones or showing more than the minimum we have the resources to deal with something on the unit that would exceed the capabilities of just one or two patrols.

At all staffing levels the NWOIFM will have one ad-hoc Type 3 Team available and each District/Zone will each have either a FMO or AFMO on District during fire season. Any deviations to this will be determined by discussions with fire management from district and the SO fire staff.

PRESCRIBED FIRE

SMOKE MANAGEMENT REPORTING

All Prescribed Fire information will be reported by each unit to the Oregon Department of Forestry in Salem via the FASTRAX computer system. Revenue numbers for Prescribed Fires associated with mechanical operations (timber sales, commercial thinning etc.) are assigned by ODF.
Number to call: 503-945-7401
Link: https://fastrax.ordvac.com/

PRESCRIBED FIRE REPORTING AND DOCUMENTATION

High Complexity Prescribed Burns

The Prescribed Fire Manager or Burn Boss will submit the entire burn plan to the Fire Staff well in advance of the planned burn date.
The Prescribed Fire Manager or Burn Boss will submit the Burn Plan, and maps to Eugene Dispatch **no later than 1600** the day before the planned burn.

Notify Eugene Dispatch with any updates of contingency resources the morning of the planned burn.

Moderate and Low Prescribed Fires

The Prescribed Fire Manager or Burn Boss will submit the Burn Plan, and maps to Eugene Dispatch **no later than 1600** the day before the planned burn.

Notify Eugene Dispatch with any updates of contingency resources the morning of the planned burn.

Pile Burning

Prescribed Fire Manager or Burn Boss will submit a spreadsheet or list of pile burns including: Unit Name and Number, Legal Location, and Number of Acres to Eugene Dispatch no later than the morning of the burn.

Notify Eugene Dispatch the morning of the planned ignitions.

All Prescribed Fires

Requests for off-unit prescribed fire resources and/or off-unit contingency resources will be ordered via established dispatch channels through ROSS.

Request Spot Weather Forecasts by 1200 the day before you plan to burn – the forecast office closes at 1500.

Report prescribed fire accomplishments to Eugene Dispatch at the end of each day.

FIRE ENTRAPMENT/FATALITY

ACCIDENTS/INJURY/ENTRAPMENT/FATALITY REPORTING

Accidents/Injuries/Burn Injuries

See Exhibit 4

https://safenet.nifc.gov/sindex.cfm

Wildland Fire Incident and Accident Types and Definitions

See Chapter 18 page 370 of the 2020 Interagency Standards for Fire and Fire Aviation Operations. (Redbook)

A Wildland Fire Entrapment/Fatality Initial Report should be completed and mailed to NWCC and NICC electronically or by fax machine within twenty-four (24) hours. Submit this report even if some data is missing.

The Wildland Fire Entrapment/Fatality Initial Report is found at:

http://www.nifc.gov/nicc/logistics/coord_forms/PMS405-1_Entrapment_201408.pdf

ORGANIZATIONAL CHARTS

See Appendix A

COOPERATION

The following agreements can be found on the Willamette Fire and Aviation Management Website located at:

http://fsweb.edc2.r6.fs.fed.us/eugene-interagency/mobilization-guide.shtml

PNW INTERAGENCY COOPERATIVE AGREEMENTS

2020 Fire Protection Services Operating Plan for: ODF, WIF, NOD, UPF

2020 Fire Protection Services Operating Plan for: ODF, SUF, Coos FPA, and Douglas FPA

Fire Protection Agreement Operating Plan

Master Cooperative Wildland Fire Management and Stafford Act

Response Agreement: BLM,NPS.USFWS,USFS,ODF,DNR,COOS Forest Protective Association, Douglas Forest Protective Association, Walker Range Protective Association

LOCAL INTERAGENCY AGREEMENTS

Willamette / Mt. Hood Joint Wilderness MOU

EICC—Interagency Agreement between NOD, SUF, & WIF

EICC—Operating Plan

H.J. Andrews Experimental Forest and Long Term Ecosystem Productivity Fire Plan

APPENDIX A

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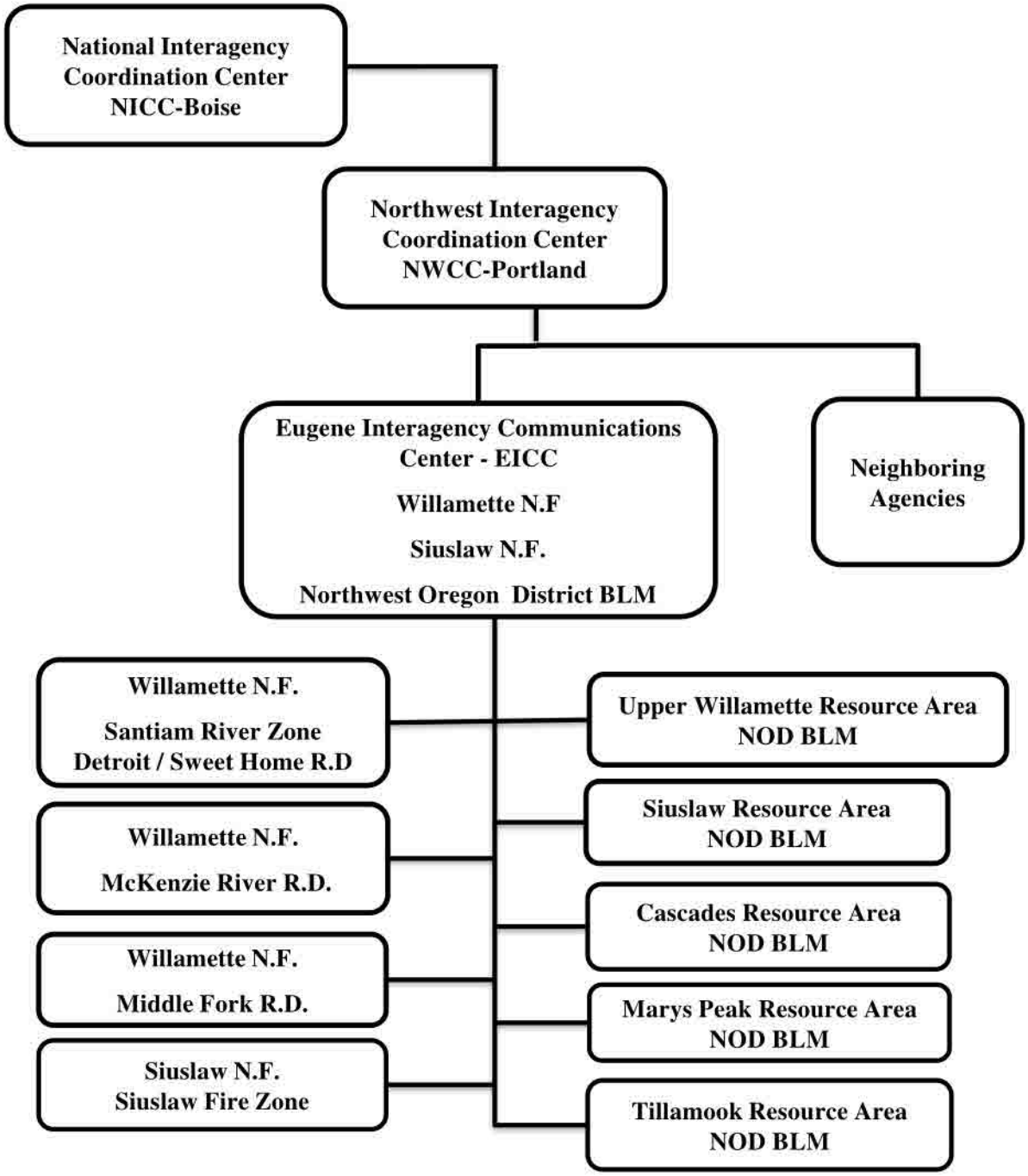
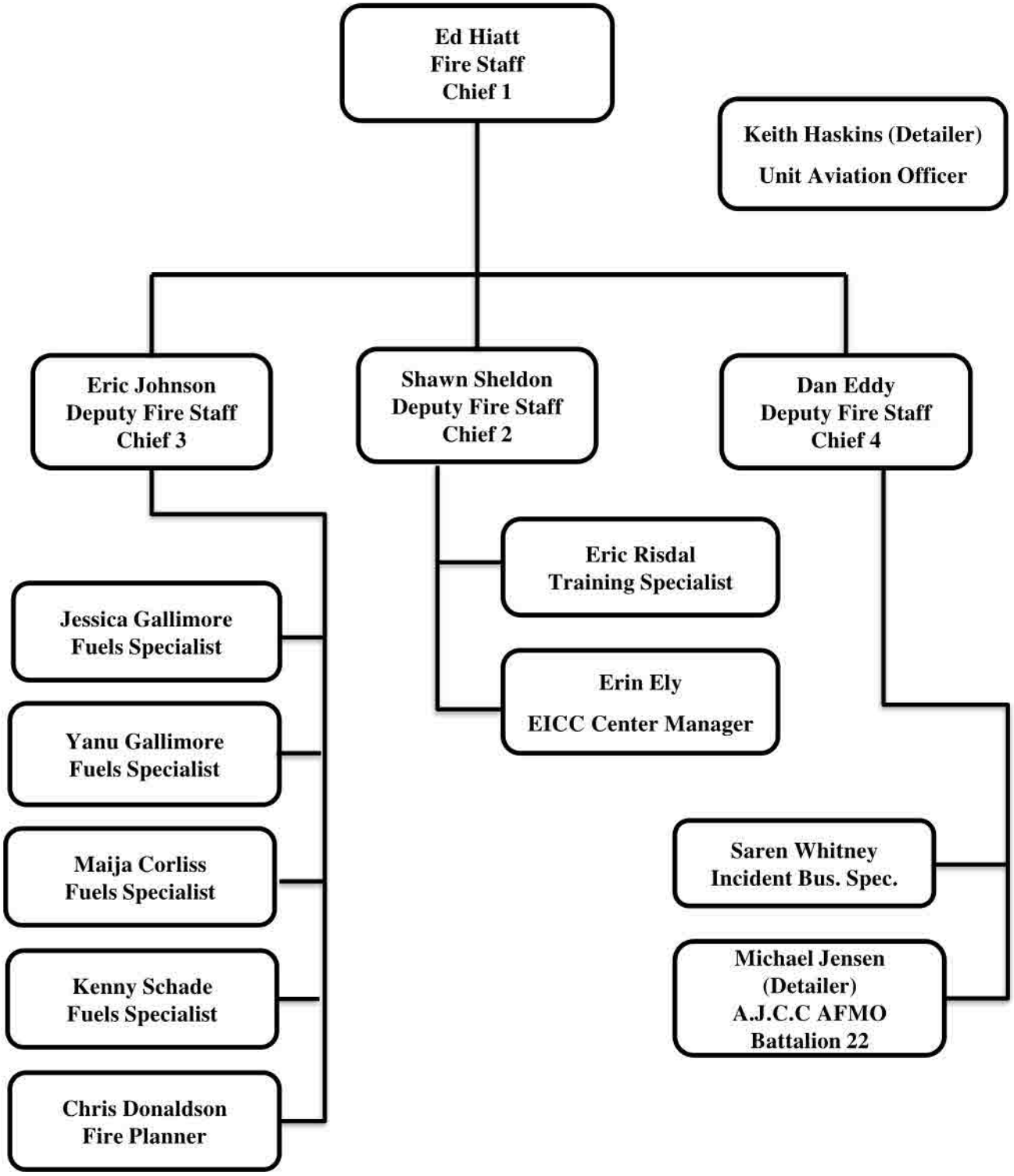
ORGANIZATIONAL CHARTS

NATIONAL ORGANIZATION

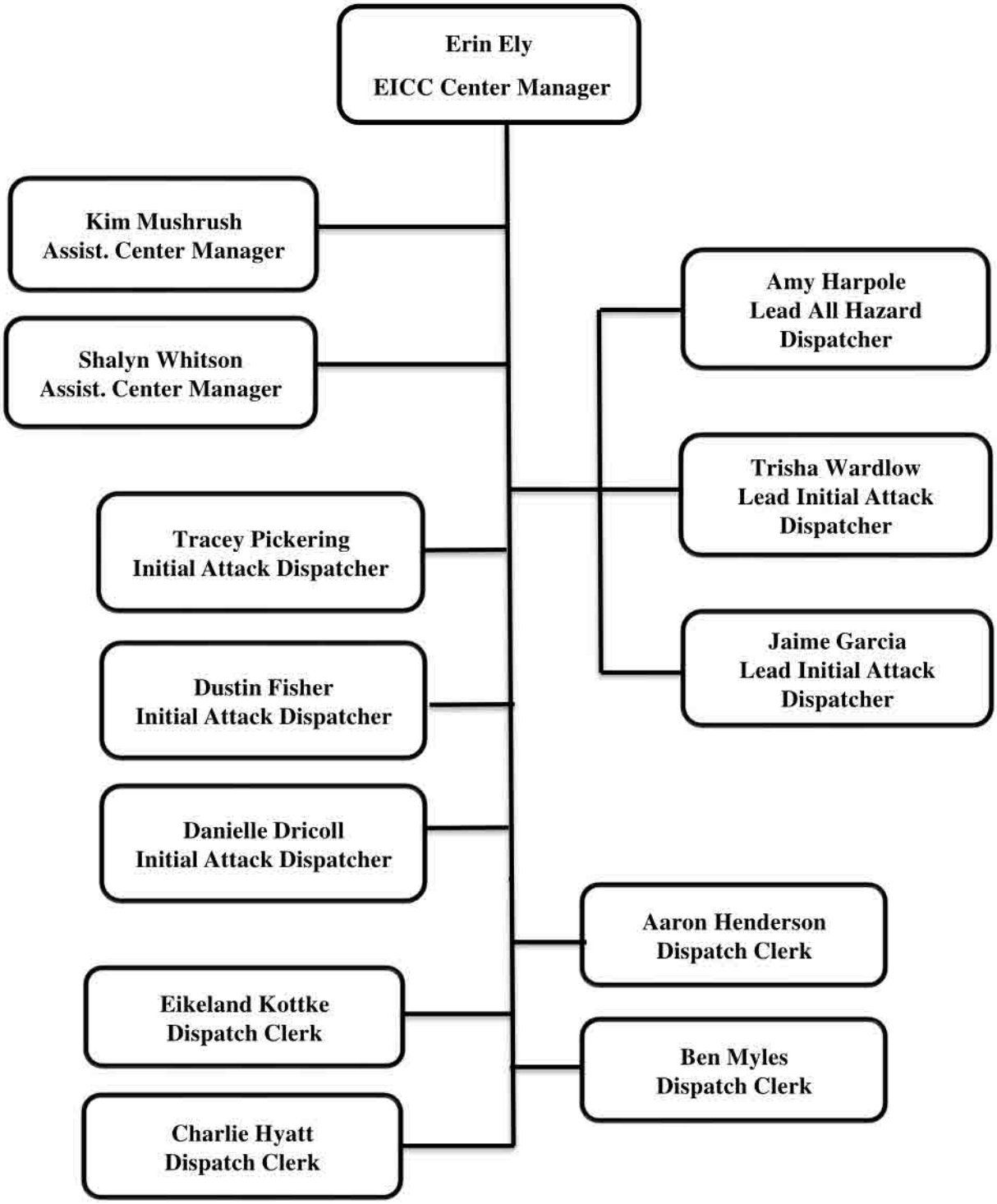
The Willamette National Forest and Eugene District BLM Interagency dispatch system is organized as shown in the following diagram:



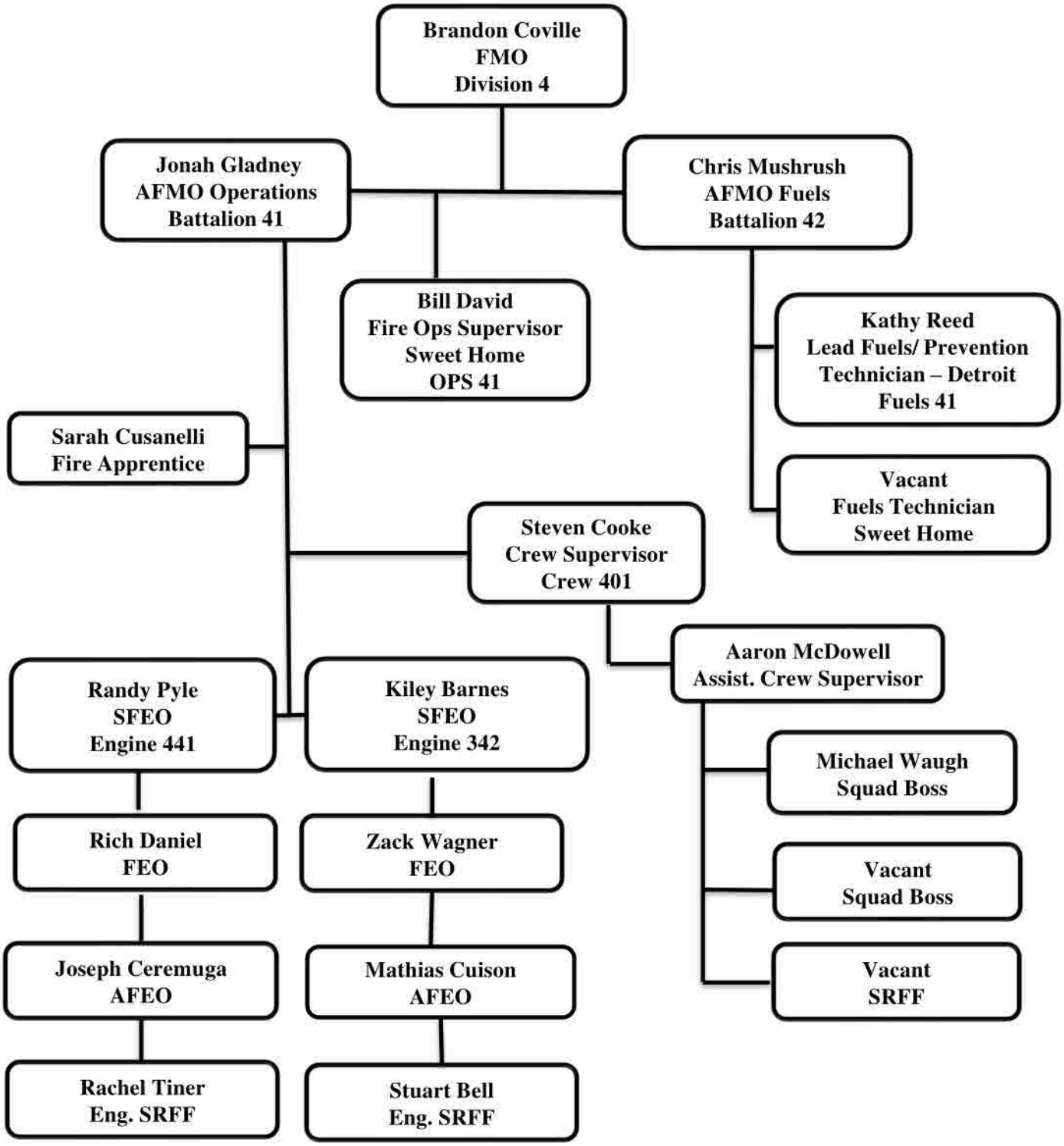
NORTHWEST FIRE MANAGEMENT



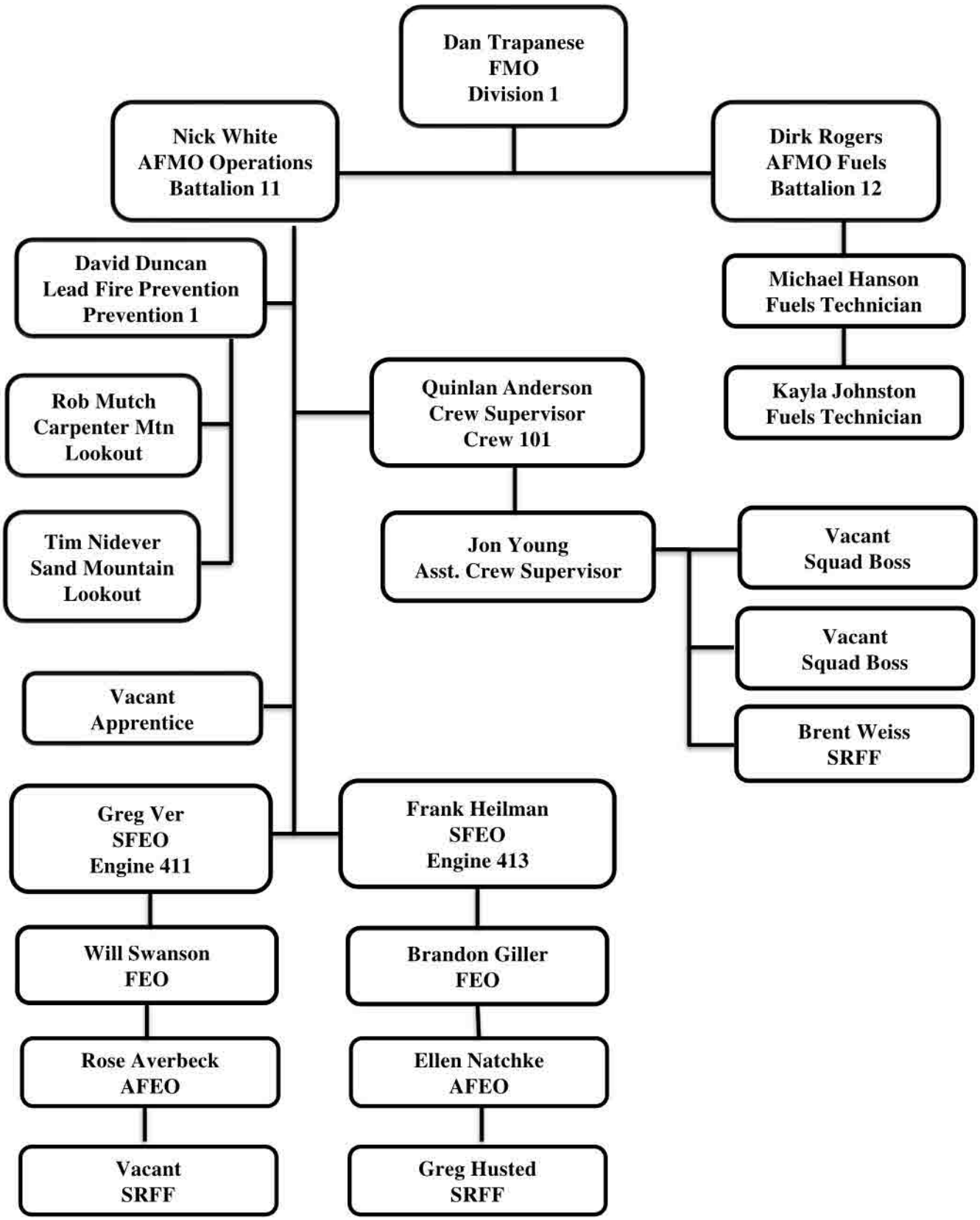
EICC ORGANIZATION



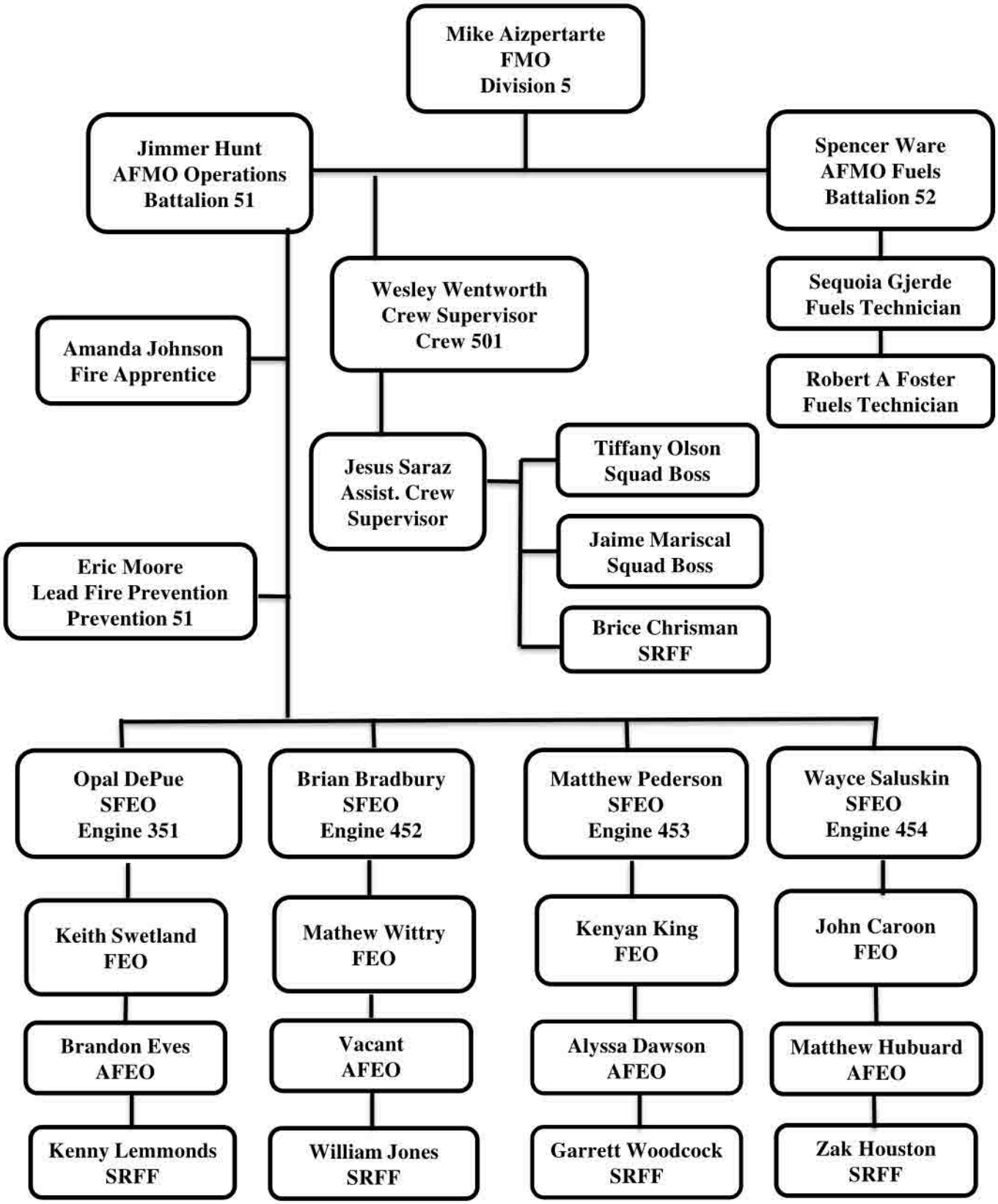
SANTIAM RIVER ZONE FIRE ORGANIZATION



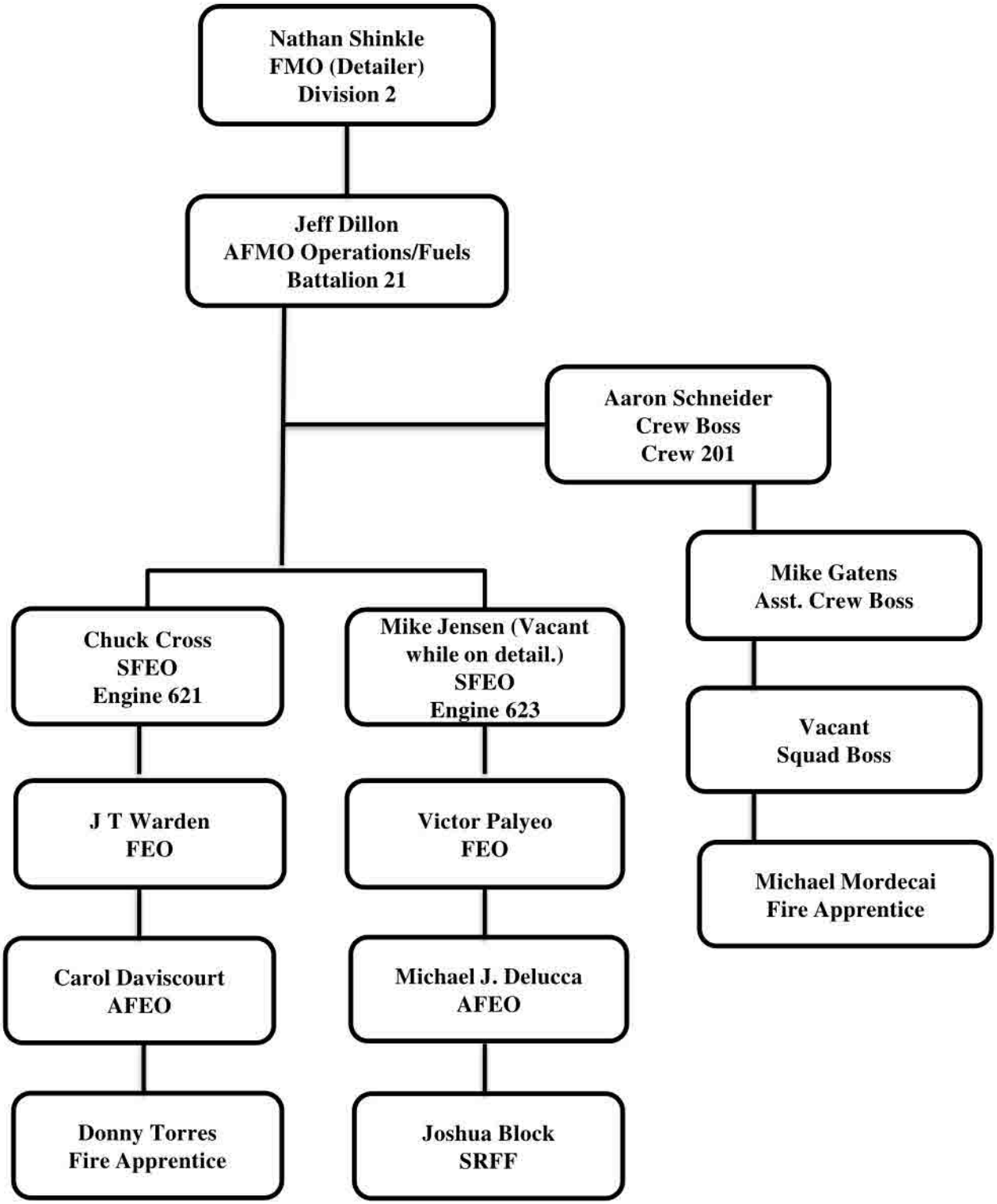
MCKENZIE RIVER FIRE ORGANIZATION



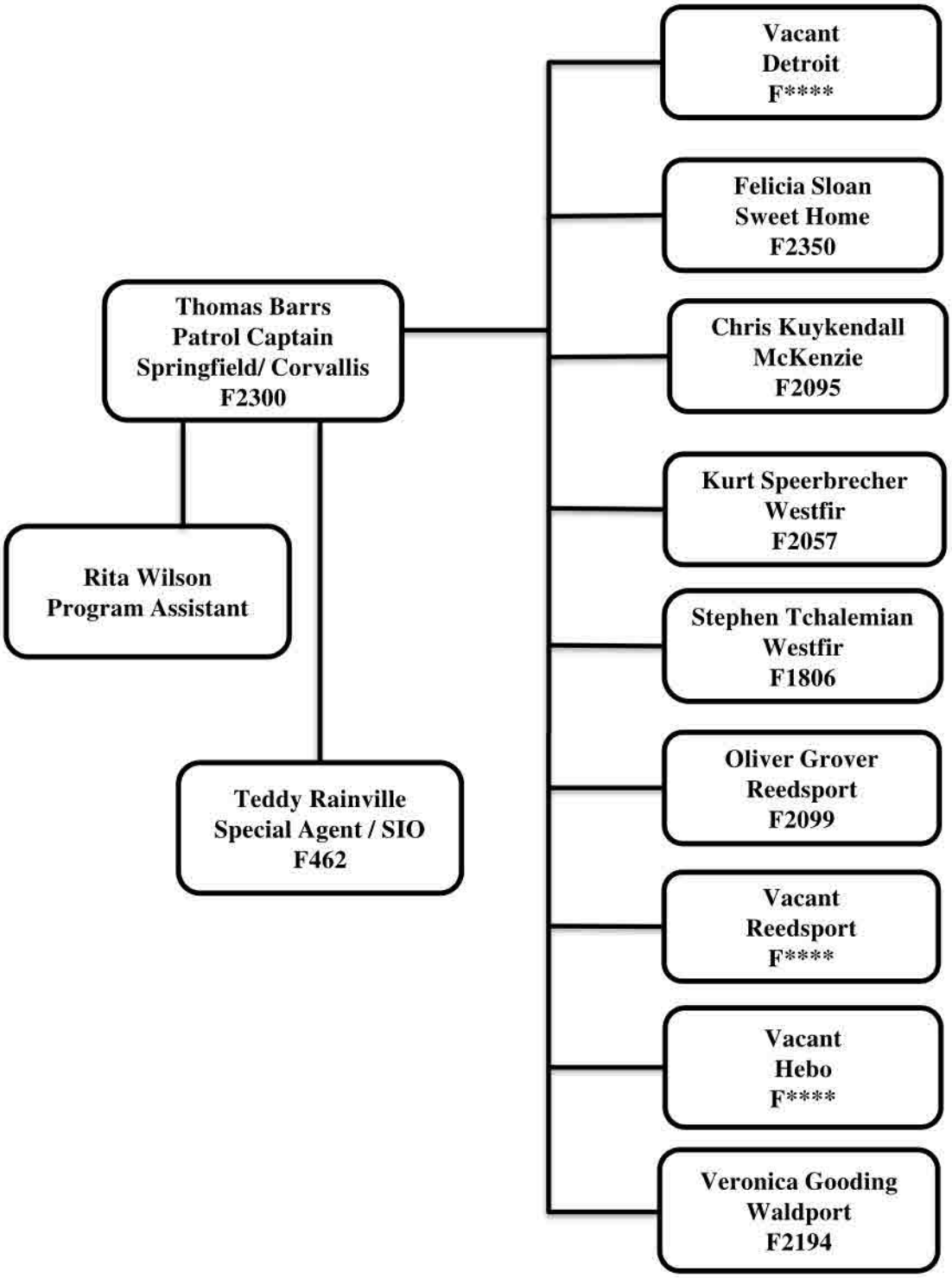
MIDDLE FORK FIRE ORGANIZATION



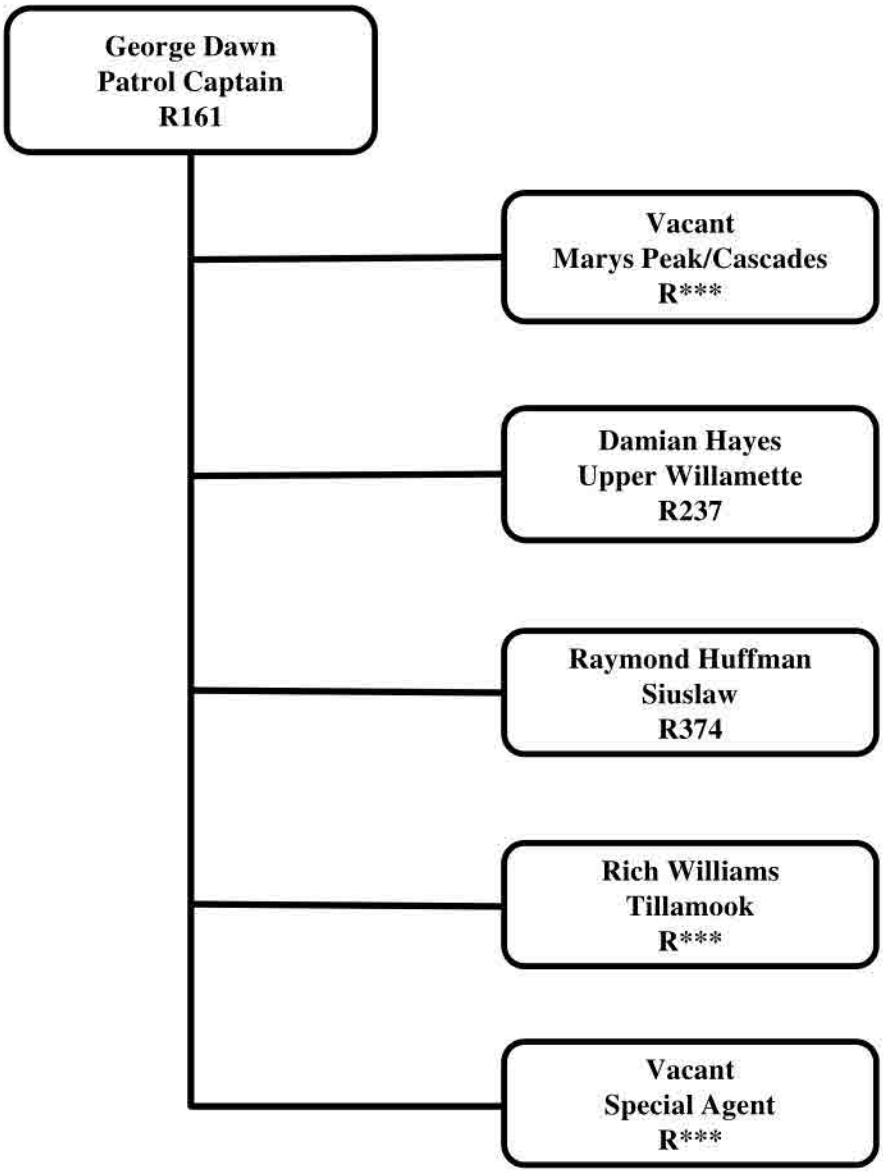
SIUSLAW FIRE ORGANIZATION



FS LEO ORGANIZATION



BLM RANGER ORGANIZATION



CHAPTER 20 - OVERHEAD AND TEAMS

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Exhibit No. 1 Non-Standard Helicopter and HELM/HMGB Manager Request

OVERHEAD

MOBILIZATION / DEMOBILIZATION

All off unit assignments will be distributed equitably between Confederated Tribes of Grand Ronde, Northwest Oregon BLM, Oregon Coast Refuge Complex, Siuslaw National Forest, Willamette National Forest and Willamette Valley National Wildlife Refuge Complex.

Night Mobilization for Extended Attack: In general, federal agencies in the Northwest Geographic Area will not mobilize resources between the hours of 2200 and 0500 unless an imminent threat to human life exists. NW Area Mob. Guide – Chapter 20 page 1.

Personnel must be requested by the description found in the Wildland Fire Incident Management Field Guide PMS 210, the National Interagency Incident Management System (NIIMS) Wildland Fire Qualifications System Guide, PMS 310-1, or other agency approved qualifications guides. Only fully qualified personnel or approved trainees will be assigned to incidents. National Mob Guide, Chapter 20 page 30.

All personnel, regardless of the method of transportation, are responsible for knowing the security and hazardous materials restrictions required on commercial airline flights. Information regarding these restrictions can be found at web site: http://www.tsa.gov.

Supplemental Fire Department Resources are overhead provided by a local fire department through agreements and are mobilized primarily for response to incidents/wildland fires outside of their district or mutual aid zone. They are not a permanent part of the local fire organization and are not required to attend scheduled training, meetings, etc. of the department staff. Follow established ordering procedures identified in Mob Guides. National Mob. Guide Chapter 20 page 30.

If a request requires individuals to be "self-sufficient" for the duration of the assignment, they must be able to procure their own food, lodging, and local transportation.

Name requests for suppression or all-hazard incidents should be rare and are appropriate only for highly specialized positions, or to meet specific agency objectives. Name requests for resources using budgeted/program dollars are acceptable. The ordering unit must confirm availability for the individual being requested prior to placing the request. All name requests must include the individuals current dispatch location. National Mob, Guide Chapter 20 page 30.

All overhead mobilized from the EICC area will have the following:

- Resource Order
- All personnel transported by non-commercial aircraft will be documented on the "Aircraft Flight Request/Schedule Form"

All overhead returning to the EICC area, consider the following:

- Form OF-288 "Emergency Firefighter Time Sheet" - completed and signed by incident, copies of justifications if needed
- Performance Evaluations completed at incident
- Notify your District IDO and/or EICC of pending return time and travel plans
- Notify EICC if return transportation is needed from airport to home unit

For overhead mobilized into the EICC area, consider the following:

- All incoming resources require an incident briefing
- Airport - transportation, ramp managers, portable toilets and shelters
- Transportation for assignment
- Food, showers, and lodging/camping facilities
- Check in, time keepers, staging areas or base camp managers
- Security personnel

For overhead released from the EICC area, consider the following:

- Form ICS-221 "Demobilization Checkout" for overhead
- Personnel should be able to reach home by 2200 hours or make arrangements to RON en route. Call EICC with location and contact info when RON is required.
- Demobilization Plan completed 24+ hours in advance, especially if air travel is needed
- Airport - transportation, ramp managers, portable toilets and shelters
- Mobilization Center or Staging Area with support personnel and supplies

2020 IQCS POSITION CODES

Incident Qualification and Certification System (IQCS) is an information management system that tracks training and certification for Wildland Firefighters. For a complete list of all 2020 IQCS recognized Position Codes: https://www.nwcg.gov/committees/position-naming-board

AERIAL DELIVERED FIREFIGHTERS

SMOKEJUMPERS

Specific guidelines for dispatching Smokejumpers are found in the NW Area Mob. Guide, Chapter 20 page 2. Requests for initial attack are placed using the "Tactical Aircraft Resource Order" (TARO), refer to NW Area Mob. Guide, Chapter 80 page 6. A IROC resource order will follow the TARO form.

In IROC, smokejumpers are ordered as Aircraft - Aircraft Groups – Load, Smokejumper, Initial Attack.

RAPPELLERS

Specific guidelines for dispatching Rappellers are found in the NW Area Mob. Guide – Chapter 20 page 2. Maximum effective distance for initial attack is 90 miles. Requests for initial attack are placed using the "Tactical Aircraft Resource Order" (TARO), refer to NW Area Mob. Guide, Chapter 80 page 6. A IROC resource order will follow the TARO form.

In IROC, Rappellers are ordered as Aircraft—Aircraft Groups – Load, Rappellers, Initial Attack. Identify special needs such as bucket support.

For Wilderness Fires, the Zone/District DO will contact the District Ranger or his/her representative for approval as identified in the "Wilderness Equipment Use Decision Matrix" found in Chapter 10, page 13-14 of this guide. All resources may be considered on incidents where cost effective, time critical, and necessary to meet established control objectives.

The release and return of all resources will be coordinated with EICC.

HELICOPTER MODULES

Specific guidelines for dispatching Helicopter Modules with CWN Helicopters are found in the National Mob. Guide, Chapter 20 page 33.

When requesting CWN helicopter modules use an Overhead (O) numbers for each position. Helicopter module requests should be coordinated with anticipated helicopter delivery time and location.

When requesting Exclusive Use Helicopter managers/modules use Aircraft subordinate (A) numbers for each position.

If CWN helicopter personnel/modules are required to arrive with special needed items (flight helmets, radios, etc.), or qualifications such as arduous fitness or ICT4, it must be specified at the time of request.

Minimum Helicopter module configuration is shown below.

TYPE HELICOPTER	FAA STANDARD / TRANSPORT CATEGORY	FAA Standard Category Temporarily Designated for Limited Use	FAA Standard Category Permanently Designated for Limited Use or FAA Restricted Category
1	Manager plus Four (4) Helicopter Crewmembers	Manager only	Manager only
2	Manager plus Three (3) Helicopter Crewmembers	Manager only	Manager only
3	Manager plus Two (2) Helicopter Crewmembers	Manager only	Manager only
CWN Helicopter and Module must meet up away from Incident(s) or Fire Operations. The minimum required staffing levels must be filled with fully qualified personnel. Trainees may be ordered in addition to the standard module configuration.			

Non-Standard Helicopter and HMGB Management Requests

Complete the form in Ch 20—Exhibit No. 1 when requesting approval to operate two restricted/ limited category helicopters with only one HMGB **-OR-** when requesting a standard category helicopter to be operated as a restricted/limited category helicopter. The form is completed with Unit Aviation Officer concurrence then forwarded to the Regional Aviation Officer for approval.

NON-STANDARD OVERHEAD GROUPS

LAW ENFORCEMENT

Siuslaw and Willamette Law Enforcement Officers (LEO's) can be reached by contacting North Marion County Communications (MetCom).

The BLM Law Enforcement Rangers from the Northwest Oregon District are dispatched by two different Law Enforcements centers based on their location, the Rangers based out of the Eugene office are dispatched by Lane County Sheriff (Station 1). The Rangers based out of the Salem office are dispatched by Oregon State Police.

Contact information for USFS LEO's, BLM Rangers and their dispatch centers can be found in Chapter 70 of this guide.

Forest Closures including Road Closures on the Siuslaw and Willamette National Forest are to be enforced by qualified Law Enforcement Officer's, SEC1's, SEC2's/Forest Protection Officers (FPO's). Contact the Patrol Captain if assistance is needed in filling these positions.

FALLER MODULES

Contract Faller dispatch procedures are specified in the contract or agreement that is in effect at the time of dispatch. Additional dispatch guidelines are found in the NW Area Mob. Guide Chapter 20 page 3.

Contract Fallers dispatched by EICC will be identified as follows:
MODULE – FALLER – ATHERLY CONTRACTING, LLC - MOD #XX
FALLER - SINGLE - BARRIER LOGGING, LLC - SINGLE - #XX

INTERAGENCY INCIDENT MANAGEMENT TEAMS

HOSTING/ ORDERING

EICC is the host dispatch for ORIMT Team 6, a Type 2 IMT. EICC maintains a current team roster and IMT dispatch procedures guide.

EICC dispatches members of several Type 1 and Type 2 IMT's regionally and nationally.

IMT's will be requested as either a short team or long team with an additional 6 trainee positions.

For a complete listing of all the positions that are included in a Type 1/ Type 2 long and short teams please refer to the National Mob Guide, Ch. 20 page 38.

Specific guidelines for dispatching various other teams including, Incident Medical Specialist Teams, Area Command Teams, Critical Incident Stress Debriefing Teams, Buying Teams, BAER Teams, Fire Prevention Teams, Fire and Aviation Safety Teams (FAST) are found in the National and NW Area Mob. Guides – Chapter 20.

2020 NATIONAL INCIDENT MANAGEMENT TEAM ROTATION

The National Incident Management Type I Team rotation is maintained by the NICC throughout the calendar year. The current rotation schedule and assignments are posted on the web at http://www.nifc.gov/nicc/logistics/teams/imt_rotate.pdf and also distributed electronically to the Geographic Area Coordination Centers. The NWCC will forward the schedule to all Northwest Area Dispatch Units.

Team 2	Robert Allen (WA-CWC)	Northwest Coordination Center
Team 3	Noel Livingston (OR-BMC)	Northwest Coordination Center

2019 NW INCIDENT MANAGEMENT TEAM ROTATION

For the current rotation of Northwest Incident Management Team's refer to the following web site: http://gacc.nifc.gov/nwcc/logistics/overhead.aspx

Team 6	Shawn Sheldon	OR-EIC
Team 7	Eric Knerr	OR-LFC
Team 8	Doug Johnson	OR-COC
Team 9	Brian Goff	OR-BMC
Team 10	Alan Lawson	WA-WAC
Team 12	Jeff Demke	WA-WAC
Team 13	Brian Gales	WA-WAC

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MINIMUM CREW STANDARDS FOR NATIONAL MOBILIZATION

For a complete breakdown of crew standards, please refer to the following web site:

https://www.nifc.gov/PUBLICATIONS/redbook/2020/RedBookAll.pdf
Chapter 13, pages 293-296

TYPE 1 INTERAGENCY HOTSHOT CREW

For a complete list of all Type 1 Interagency Hotshot Crews, refer to the following web site:
https://www.fs.usda.gov/science-technology/fire/people/ihc

TYPE 2 IA AND TYPE 2 CREWS

MOBILIZATION

All crews mobilized from the EICC area will have the following:

- Resource Order
- Crews T1, T2IA and T2 – "Passenger/Cargo Manifest Form"
- All personnel transported by non-commercial aircraft will be documented on the "Aircraft Flight Request/Schedule Form"
- Form OF-288 – "Fire Fighter Time Report"
- Lunch or double lunches as appropriate

All crews returning to the EICC area, consider the following:

- Form OF-288 "Emergency Firefighter Time Sheet" - completed and signed by incident, copies of justifications if needed
- Performance Evaluations completed at incident
- Completed Incident Replacement Form – if re-supply is needed at home unit.
- Notify your District DO and/or EICC of pending return time and travel plans
- Notify EICC if return transportation is needed from airport to home unit

For crews mobilized into the EICC area, consider the following:

- All incoming resources require an incident briefing
- Airport - transportation, ramp managers, portable toilets and shelters
- Transportation for assignment
- Food, showers, and lodging/camping facilities
- Check in, time keepers, staging areas or base camp managers
- Security personnel

For crews released from the EICC area, consider the following:

- Form ICS-221 "Demobilization Checkout" for overhead and crews
- Personnel should be able to reach home by 2200 hours or make arrangements to RON en route. Call EICC with location and contact info when RON is required.
- Demobilization Plan completed 24+ hours in advance, especially if air travel is needed
- Airport - transportation, ramp managers, portable toilets and shelters
- Mobilization Center or Staging Area with support personnel and supplies

Fire suppression crews are ordered by type. Nationally there are three types of suppression crews – Type 1, Type 2 Crew with IA capabilities, and Type 2 Crew standard.

Crew Air Travel

Do not travel with tools or chainsaws. All equipment will be inspected and weighed at time of mobilization to ensure adherence to safe transportation procedures. Ensure that all prohibited materials are removed from packs. Check current guidelines at https://www.tsa.gov/travel/security-screening.

A Passenger/Cargo Manifest will be prepared for each crew or group of employees traveling by aircraft. A Flight Manager will be designated for each group. The Flight Manager will assemble members of the group, supervise their loading, and inform EICC of the actual departure time and estimated time of arrival. The Flight Manager is responsible for the performance and conduct of the group while traveling to and from the incident. The Flight Manager works jointly with the pilot-in-command and aircrew members to ensure safe, efficient flight management on point-to-point flights. Some agencies previously referred to this position as "Chief of Party".

Crew Selection

Local agency crews are selected on a rotational basis. See Chapter 10 page 8 of this Mob. Guide.

Mobilization of Type 2 Crews on federal incidents will be mobilized in the following order:
1) Agency and Agency Cooperator Crews
2) National Contract Crews
3) Pacific Northwest Agreement Crews.

NW Area Mob. Guide Chapter 30 pages.

Contract Crew Mobilization

Contract crew dispatch procedures are specified in the contract or agreement that is in effect at the time of dispatch. Additional dispatch guidelines are found in the NW Area Mob. Guide – Chapter 30 pages 6-8.

National Crew Contract: http://fsweb.wo.fs.fed.us/aqm2/wo/contractpa/nifc/index.php

NW Crew Agreement: http://www.oregon.gov/ODF/Fire/Pages/Contract.aspx

A Incident Contract Project Inspector (ICPI) should be requested when utilizing NW contract crews.

AGENCY CREWS

Grand Ronde hosts a Type 2 IA crew:
Grand Ronde - Confederated Tribes of Grand Ronde

Siuslaw National Forest hosts 1 Type 2 /Type 2 IA crew:
Crew 201—Siuslaw Fire Zone

Willamette National Forest hosts 3 Type 2 IA crews:
Crew 101—McKenzie River
Crew 501—Middle Fork
Crew 401—Santiam River Zone

CONTRACT CREWS

EICC is the host for 2 National Contract Type 2 IA crews and several ODF contracted T2 crews.
Dispatch Priority for T2IA Crews, reference 2016—2020 National Type 2-IA Firefighting Crew Contract, Section C.12, on page 24. http://fsweb.wo.fs.fed.us/aqm3/static/pages/nifc/2016-2020%20Type%202-IA%20Crew%20Contract.pdf

1. Pacific Oasis Inc.—9A
2. Pacific Oasis Inc.—9B

CHAPTER 40—EQUIPMENT AND SUPPLIES

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MOBILIZATION / DEMOBILIZATION

Equipment

This request category includes National Contract Caterers, Showers, and rolling stock (engine, water tenders, dozers, etc.). This category may also include items acquired under Incident Blanket Purchase Agreements (IBPA's) and Incident Only Emergency Equipment Rental Agreements (EERA's).

Supply

This request category includes all cache items including Mobile Cache Support Van (NFES 2069), radio kits and consumable items procured by local purchase. Cache items are found in the NFES Catalog Items Excel Workbook, PMS 449-1, https://www.nwcg.gov/sites/default/files/publications/pms449-1-cache-items.xlsx

Generally, orders for cache items will be placed with EICC. A Type 1 or Type 2 IMT may place orders directly to the Regional cache (NWK) with concurrence from the EICC Center Manager. National cache (GBK) items and sensitive cache items such as Radio Kits and Incident Support Medical Kit will be ordered through EICC.

Non-incident requests for cache items available from the Regional Cache (NWK) are placed through EICC on a Resource Order Form. NFES publications may be purchased directly from the National Cache (GBK) in Boise.

Incident replacement guidelines can be found in the National Mob. Guide, Chapter 40, and the NWCG Standards for Interagency Incident Business Management, Chapter 30.

RADIOS/TELECOMMUNICATIONS

Telecommunications – Temporary incident or expanded dispatch telephone service is ordered through EICC and documented on the appropriate resource order form. Contact AQM for specific restrictions which apply to procuring telecommunications and computer equipment.

Descriptions of NIRSC radio systems and kits are found in the NFES Catalog and in the National Incident Radio Support Cache User's Guide. The Regional Cache (NWK) will preposition several Radio Starter Kits (NFES 4390).

Latitude and Longitude and a Communication Tech contact name are required when ordering radio kits.

Radio Kit dispatch guidelines can be found in the National Mob. Guide Chapter 40 pages 57-58.

MOBILE FOOD SERVICE AND SHOWER UNITS

Requests for Mobile Food or Shower Services are placed with EICC. A Food Service Request Form must be completed for Mobile Food requests. Mobile Shower requests must state the number of personnel to service and the estimated duration.

In most circumstances, the government is obligated to order from the National Mobile Food Service Contract and National Shower Contract. Dispatch procedures are specified in the contract or agreement that is in effect at the time of dispatch. The Logistics Section Chief will determine if a COTR is needed and will place an order through the normal ordering channels. Additional dispatch guidelines are found in the National Mob. Guide Chapter 40 pages 59-60.

National Mobile Food and Shower Contract: http://www.fs.fed.us/fire/contracting/

LOCAL STAGING AREAS

Organization Name	Contact	Day Phone	Night Phone
Lane Community College 4000 E 30th Ave Eugene, Oregon	Lisa Rupp	(541) 463-5856	(541) 463-5558 24 hour number
Capacity	50 People – 150 people if request made in advance		
Facilities	Showers and Rest rooms, cafeteria open		
Remarks	None		
Oregon National Guard Armory 3106 Pierce Parkway Springfield, OR 97477	James Ogan (Main building)	(541) 357-0091	(541) 357-0091
Capacity	100 people		
Facilities	Men's 10 Shower Heads & 2 Toilets and 4 Urinals Women's 3 Showers Heads & 5 Toilets		
Remarks	Kitchen facilities - Caterer needed, custodian available.		
Camp White Branch 61500 Old McKenzie Hwy McKenzie Bridge, OR whitebranchof-fice@gmail.com	Leonard Meyer Stacey Meyer	(541) 822-3511	(208) 724-2740 (208) 447-8479
Capacity	110		
Facilities	Showers, Toilets, Land		
Remarks	Cost $45 per person per day		
McKenzie School Blue River, Oregon	Chris Lester	(541) 822-3338	(541) 600-9645
Capacity	150 People		
Facilities	12 Showers, 8 Rest rooms, cafeteria		
Remarks	Cost $2.00 /day/ person. Need agency sleeping bags.		
Hoodoo Ski Area Santiam Pass Area	Jake Smith Matthew McFarland		1 (503) 706-9940 (541) 410-4972
Capacity	150 People - up to 500 or 1,000 if needed (has been used as ICP in the past)		
Facilities	Men's 2 Showers, 5 stalls Women's 2 Showers, 5 stalls Cafeteria (occasionally unavailable)		
Remarks	Cost $2.00 /day/ person. Minimum $200.00/ Day. Need agency sleeping bags. (may set up with a monthly contract for payment)		

Organization Name	Contact	Day Phone	Night Phone
Lowell High School Lowell, Oregon	Cindy Neet	(541) 937-2124	(541) 510-8857
Capacity	100 People		
Facilities	12 Showers, 5 Rest rooms, laundry,		
Remarks	$120.00/ Day. Need agency sleeping bags. http://www.lowell.k12.or.us/doc/facilities-use-and-guidelines-request-form/		
Oakridge High School Oakridge, Oregon	Lori McMahon Reta Doland Peggy Mahla	(541) 782-2813	(541) 228-4157 (541) 805-0628 (541) 954-9207
Capacity	400 People		
Facilities	5 showers and 5 stalls in each men and women's		
Remarks	$200.00 a day $3.00 a towel. Need agency sleeping bags		
Westfir Jr. High School **(Westridge Facility)** Westfir, Oregon	Lori McMahon Reta Doland Peggy Mahla	(541) 782-2813	(541) 228-4157 (541) 805-0628 (541) 954-9207
Capacity	200 People		
Facilities	6 Showers & 6 Rest rooms,		
Remarks	$350.00 per Day. Need agency sleeping bags.		

ENGINES AND WATER TENDERS

Engines and tenders are ordered by type. Engine and Water Tender typing standards are found in chapter 40 of the National Mob. Guide.

Agency engines are selected on a rotational basis.

Engines and Water Tenders on federal incidents will be mobilized using the same procedures as crew mobilization. NW Area Mob. Guide, Chapter 40.

AGENCY ENGINES

Northwest Oregon District BLM

	Eng Type	Capacity	License #	Cell #	Staffed
ENG 8481	Type 4X	800	I-428964		Staffed as needed
ENG 8682	Type 6X	300	I-1621498		Staffed as needed
ENG 8683	Type 6X	300	I-1621499		Staffed as needed

Siuslaw National Forest
Hebo

	Eng Type	Capacity	License #	Door #	Cell #	Staffed
ENG 621	Type 6X	300	A356942	8951	(b)(6)	3

Waldport

	Eng Type	Capacity	License #	Door #	Cell #	Staffed
ENG 623	Type 6X	300	A356941	8952	TBD	3
PT 21	Type 7	100	A374322	5216	TBD	As needed

Reedsport

	Eng Type	Capacity	License #	Door #	Cell #	Staffed
ENG 622	Type 6X	300	A356941	8952	TBD	3
PT 23	Type 7X	100	A374306	5220	TBD	3

Grande Ronde

	Eng Type	Capacity	License #	Door #	Cell #	Staffed
ENG 111	Type 6X	400	E256124			Staffed as needed
ENG 112	Type 6X	400	E251329			Staffed as needed
ENG 113	Type 6X	400	E251314			Staffed as needed
ENG 115	Type 6X	400	E268022			Staffed as needed
ENG 130	Type 3X/ Tactical Tender	2200	E271319			Staffed as needed

Willamette National Forest

Santiam River Zone

	Eng Type	Capacity	License #	Door #	Cell #	Staffed
PT 42	Type 6	80	A318547	1947		Staffed as needed
ENG 441	Type 4	800	A294224		(b)(6)	5
ENG 342	Type 3X	800	A290705			5
ENG 643	Type 6X	250	A337423	7975		Staffed as needed

McKenzie River

	Eng Type	Capacity	License #	Door #	Cell #	Staffed
PT 11	Type 7	50	A374332	5352		1
PT 12	Type 7	100	A372372	4929		1
ENG 411	Type 4	800	A383104	7559		4-7
ENG 312	Type 3	1000	A321825	7724		4-7
ENG 413	Type 4	800	A383103	7558		4-7

Middle Fork

Middle Fork	Eng Type	Capacity	License #	Door #	Cell #	Staffed
ENG 351	Type 3	600	A318574			6
ENG 452	Type 4	750	A380637			5
ENG 353	Type 3	1000	A383105			6
ENG 454	Type 4	860	A374314			5

CONTRACT ENGINES AND WATER TENDERS

EICC is the host dispatch for several contract engines and water tender vendors. VIPR and ROSS are interfaced and the DPL is automatically set in ROSS. Refer to the VIPR DPL at http://www.fs.fed.us/business/incident/dispatch.php

Contract Engine and Tender dispatch procedures are specified in the contract or agreement that is in effect at the time of dispatch. Additional dispatch guidelines are found in the NW Area Mob. Guide – Chapter 40 page 46.

NW Engine and Tender Agreement:

http://www.fs.usda.gov/detail/r6/workingtogether/contracting/?cid=fsbdev2_027111

An Incident Contract Project Inspector (ICPI) should be requested when utilizing NW agreement engines and tenders.

TRANSPORTATION

Transportation – Commercial bus service, large transport, moving vans, and other forms of transportation will be ordered through EICC. Pre-season Agreements are usually established for transportation services. Information about transportation agreements can be found on the Fire and Aviation Contracting Team (FACT) web site:

http://www.fs.usda.gov/detail/r6/workingtogether/contracting/?cid=fsbdev2_027111

Note: Use of rental cars while assigned to an incident must be authorized by the incident host agency and documented on the resource order. Use of POV's must be advantageous to the Government and approved in writing if POV mileage is to be paid. Reference the NWCG Standards for Interagency Incident Business Management, Chapter 10-81.

INCIDENT BLANKET PURCHASE AGREEMENTS/ INCIDENT ONLY EERA'S AND LOCAL PURCHASES

Incident Only (EERA's) and Local Purchases are items that may be obtained non-competitively from local or other commercial suppliers.

Specific restrictions apply to incident procurement. All requests for incident procurements will be placed with EICC and documented on the appropriate Resource Order Form (either Equipment or Supplies).

IBPA's are processed and awarded by the Fire and Aviation Contracting Team (FACT) - http://www.fs.usda.gov/detail/r6/workingtogether/contracting/?cid=fsbdev2_027111

Incident Only EERA's are processed and awarded by the local acquisitions staff or Buying Team.

Local purchases will be processed by the identified acquisition staff and/or micro-purchasers.

IRAWS – NFES 5869

IRAWS are cached at the Remote Sensing Fire Weather Support Unit for response to wildland fires and other projects requiring environmental monitoring. For specific use and description, refer to the NFES Catalog, Part 1.

Prior phone coordination with the National Interagency Fire Center Remote Weather/Fire Weather Support Unit (RSFWSU) at (208) 501-4261 is recommended. Upon release from the incident, the IRAWS will be returned to NIFC.

Reference National Mob Guide Chapter 40 page 58.

INFRARED SCANNING DEVICES

The following infrared scanning devices are available within EICC dispatch area:

Northwest Oregon District - 1 Bullard
Siuslaw NF, Waldport - 1 Palm IR
Santiam River Zone - 1 Argus 360 (4)
McKenzie River - 2 Palm IR, 1 Bullard
Middle Fork - 2 Palm IR

PORTABLE REPEATER

The Northwest Oregon District BLM has one portable repeater that can be deployed. Contact Sam Cuevas (see Chapter 70 for phone numbers).

The Siuslaw and Willamette National Forests have 3 portable repeaters that can be deployed. Contact Ken Jones (see Chapter 70 for phone numbers).

CHAPTER 50 - AIRCRAFT

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AIRCRAFT

MOBILIZATION

Aircraft request category includes all fixed wing and rotor-wing aircraft, temporary flight restrictions (TFR), infrared flights, temporary air traffic control towers and aviation radio frequencies.

Only aircraft approved by the OAS or Forest Service Aviation Management representative will be used. Before using, check to see that the aircraft and pilot have current approved "Agency Cards".

All requests for incident and non-incident aircraft for Northwest Oregon BLM, Siuslaw NF or Willamette NF will be placed with EICC.

Initial Attack Requests for Aircraft, Smokejumpers, and Rappellers

Initial Attack requests for aircraft, smokejumpers, and rappellers may be initiated by EICC with neighboring units by utilizing the "Tactical Aircraft Resource Order" (TARO). A ROSS resource order will follow the TARO form. Initial Attack aircraft ordered through NWC will be placed with ROSS and the TARO form concurrently. TARO's can be found in the NW Area Mob. Guide, Chapter 80, Page 6.

Non-Incident Use of Aircraft

All Forest Service aircraft missions (with the exception of end product contracts) must have an approved Project Aviation Safety Plan (PASP) completed by the project manager, reviewed by the Unit Aviation Officer, or Regional Aviation Officer and approved (signed) by the appropriate Line Officer.

All BLM aircraft missions must have an approved Project Aviation Safety Plan (PSAP) completed and signed by the Unit Aviation Officer and the District Manager.

DEMOBILIZATION

All aircraft release information will be coordinated with EICC and promptly documented in IROC. A flight plan and/or flight following will be provided for Government Owned and Exclusive Use Contract Aircraft. Demobilized CWN and ARA aircraft do not require a flight plan or flight following unless government personnel and/or cargo are on board.

AIRCRAFT RADIO FREQUENCIES

Assigned radio frequencies are found in the Pacific Northwest Aviation Frequency Guide. Eugene Dispatch, Roseburg Dispatch, Warm Springs Dispatch and Columbia Cascades Dispatch are in the same IA Frequency Zone (OR01) and utilize the same Air to Ground frequencies. Eugene dispatch will use A/G 09 as Primary and A/G 50 as secondary in order to reduce frequency conflicts. Eugene dispatch will utilize Air to Air OR01secondary as its primary Air to Air frequency. Coordination is required during aircraft operations.

Additional frequencies can be ordered, if needed, through EICC. The Regional Coordinator will authorize the additional frequencies.

FLIGHT MANAGEMENT / FLIGHT FOLLOWING

EICC will be responsible for ensuring appropriate flight following or resource tracking is provided for flights originating or passing through the EICC area. Flight plans are documented on a "Flight Request/Schedule" Form.
Generally, aviation resources dispatched or reassigned from EICC to a neighboring unit will flight follow by radio and/or AFF until a positive hand off with the receiving unit has been ac-

Normally, detection and tactical aircraft will flight follow with EICC via AFF (Automated Flight Following). Status checks will be documented every 15 minutes. District Repeater Frequencies will be utilized for radio contact.

AUTOMATED FLIGHT FOLLOWING (AFF)

OAS/FS approved aircraft are equipped with AFF - Automated Flight Following (AFF). AFF is a satellite/web-based system. AFF can view real time information regarding an aircraft's location, speed, heading, altitude, and flight history. More information on AFF can be found at: https://www.aff.gov/

Flight Management guidelines for Flight Plans and Flight Following are found in the both the National and NW Area Mob Guides Chapter 50.

NICC FLIGHT FOLLOWING

Aircraft pilots and service truck drivers dispatched to incidents across GACC boundaries are required to call NICC flight following at all stops en route.

NICC flight following: 1-800-994-6312

AVIATION SAFETY

Other then commercial and charter flights (FAA approved), no BLM or Forest Service Employee shall participate in aviation operations during work hours or work related activities without prior approval from the unit aviation officer, EICC or the project aviation manager.

AVIATION MISHAP RESPONSE GUIDE

Copies of the Northwest Oregon District BLM, Siuslaw NF, and Willamette NF Aviation Mishap Response Guide can be found in CH90 of this guide or available electronically in pinyon.

INFRARED FLIGHTS

The National Interagency Coordination Center (NICC) coordinates infrared mapping flights (IR flights). Requests for IR flights will be placed with EICC. Orders must be received at NICC by 1530 MST. Flights are conducted in evening to early morning hours – it is recommended that orders be placed as early as possible for same day flights.

Requests for infrared flights are processed through the National Infrared Operations (NIROPS) website: https://fsapps.nwcg.gov/nirops/users/login. A "user account" is needed to access the IR Flight request form. User accounts can be created on-line or by contacting NIROPS directly.

More options for IR flight are now available, if NIROPs operations are unavailable at the time of request please ask EICC / UAO for more details.

TACTICAL AND RECON AIRCRAFT

FIXED WING RECON AND DETECTION

Fixed Wing recon and detection aircraft will be furnished by the appropriately carded, closest and/or most cost efficient vendor. All fixed wing aircraft are to be ordered through EICC.

AIR TANKERS / LEAD PLANES / ASM / AIR ATTACK

Incident Commanders place air tanker requests with EICC. EICC will concurrently place a request for a Lead Plane or Aerial Supervision Module (ASM) with an air tanker order. Consider Air Attack if multiple aircraft are being requested for an incident. Air tanker orders are closed at the end of each day and a new request is submitted for the following day. Air tankers that load and return within the same day may stay on the same request number unless they are reassigned to another incident. EICC will be informed of each load and return and will be responsible for notifying the retardant base of any incoming air tankers. When an IMT is assigned to an incident, requests for air tankers or any other tactical aircraft will continue to be placed through EICC.

Tactical Aviation Resource Prioritization:

See NW Area Mob. Guide Chapter 50 page 58.

CWN FIXED WING AIRCRAFT

For specific information on costs of aircraft, fuel trucks, etc., please refer to the R6 CWN Light Fixed Wing Contract at

Contract Specifications:
https://drive.google.com/file/d/1OljDRlvJeTIN_aRrPDQJbvEVpGxyiz4R/view

Schedule/info:
https://drive.google.com/file/d/1exU32ExCR0EyapEz2pbBrAHoFypP39tr/view

Vendors dispatched by EICC:

Brown Western Aviation LLC 22785 Airport Rd, Box 127 Aurora, OR 97002 Location: 64 NW of Eugene USFS Contract #: (b)(4)	720-480-1204 Email: gdbrown@minetfiber.com
Statewide Contracting Service LLC P.O. Box 459 Lowell, OR 97452 Location: 22 miles SE of Eugene USFS Contract #: (b)(4)	541-953-8307 Primary 541-914-2146 Secondary Email: Ced@hfdg.com

HELICOPTERS

Type 1 and Type 2 Exclusive Use and CWN Helicopters are ordered through EICC and filled by NICC. Generally, Type 1 and Type 2 Helicopters cannot be reassigned without NICC approval; however, they may be used for local initial attack with adjacent units with prior approval.

CWN HELICOPTERS

CWN Type 3 Helicopters are ordered through EICC and may be filled locally. If unable to fill locally requests may be placed with neighboring host units or NWC.

CWN Helicopter Managers and/or Modules will meet with their assigned helicopter off-site from the incident prior to performing work. A specific meeting place (airport or other facility) will be identified on the Resource Order.

For specific information on costs of aircraft, fuel trucks, etc., please refer to the T3 CWN Light Helicopter Contract at

Contract Specifications:
https://drive.google.com/file/d/1nGeRdUZLtN399yELJv_xtrLwA6wBQfZ8/view

Schedule/info:
https://drive.google.com/file/d/1Oo8bcI5LJsXfBhSsXIGsC3cm5ihuPhef/view

Vendors Dispatched by EICC

Apexheli Oregon, Inc. 89060 Condon Creek Rd Florence, OR 97439 Location: 61 miles W of EUG USFS Contract #: (b)(4)	541-997-3270 Email: bdevries@apexheli.com
Henderson Aviation 29484 Meadowview Road Junction City, OR. 97448 Location: 2.5 miles NE of EUG USFS Contract #: (b)(4)	541-688-4777 Eugene Office and 24hr # 541-688-4926 Fax Email: info@hendersonaviationco.com

AIRSPACE COORDINATION

TEMPORARY FLIGHT RESTRICTIONS (TFR)

EICC will complete the TFR request form and fax to NWCC, along with a request placed in IROC. NWCC works with the FAA to complete the request. When GACC preparedness levels reach 4-5, NWCC may assign an Airspace Coordinator who will then be EICC's primary TFR contact. EICC is responsible for local TFR notifications. Notifications will be made to the Scheduling Office for any nearby or affected Military Training Routes (MTR's).

https://www.nwcg.gov/committees/interagency-airspace-subcommittee/resources#collapse1

MILITARY TRAINING ROUTES (MTR'S) AND AIR REFUEL (AR) ROUTES

IR Route 346 points A – H traverse the Siuslaw NF, Willamette NF and the NW Oregon BLM. Instrument Routes (IR) are mutually developed by DOD and the FAA to provide for military operational and training requirements that cannot be met under the terms of FAR 91.117. Military aircraft may fly below 10,000' and in excess of 250 knots. The AP/1B specifies the width of the MTR as well as the upper and lower altitudes for each point along the MTR.

Scheduling Office: Naval Air Station (NAS) Whidbey Island, Oak Harbor, WA.
(360) 257-2877 – Monday – Friday 0700 – 1600
(360) 257-2681 – After hours and week-ends

EICC will notify NAS Whidbey of significant activity occurring in or near IR-346.

AR 304AV and AR 305BV are military helicopter and tanker refueling routes. The northern entryway for access is south of the Aurora Airfield. The routes run North to South for 90 nautical miles. The AP/1B specifies the width of the AR's as well as the operating altitudes.

EICC will notify the Seattle ARCP of significant activity occurring near AR304AV/304BV.

BLASTING ACTIVITY

Notify EICC at least 24 hours in advance of blasting activity occurring on the NW Oregon District BLM, Siuslaw NF or Willamette NF. Some Electronic Blasting Caps (EBC) pose a risk of premature detonation that may affect low flying aircraft. EICC will contact NAS Whidbey to inform them of blasting activity that will affect MTR's.

MISCELLANEOUS AIRCRAFT PROCEDURES

See NW Area Mobilization Guide Chapter 50 for the following:

- Unmanned Aircraft Systems
- Airspace Boundary Management Plan
- Airspace Conflicts: Reporting and Follow Up
- News Media Aircraft
- Temporary Airport Control Tower Operations
- Flight and Duty Limitations
- Airport Closures
- Aviation Web Sites

AVIATION SERVICES

EUGENE AIRPORT (EUG)

Eugene Airport Administration
28855 Lockheed Drive
Eugene, OR. 97402
Office: (541) 682-5430
Fax: (541) 682-6838

	Office	Home	Cell
24 Hour Emergency	(541) 954-6584		
Tim Doll Airport Director	(541) 682-5430	(b)(6)	(b)(6)
Cathryn Stephens Asst. Airport Director	(541) 682-5430		

Eugene FBO:

Crew Mobilization and Demobilization - if more than 10 people

Lawrence Air Service, Inc
90295 Air Cargo Way
Eugene, OR. 97402
Office: (541) 689-3331
Fax: (541) 689-4003

	Office	Home	Cell
Owner - Shad Turner	(541) 689-3331	(b)(6)	(b)(6)
Mgr. - Thomas Losiuto	(541) 689-3331		

Note: Lawrence Air is now located at the south end of airport dark green building – Suite 4.

Overhead Mobilization and Demobilization - if less than 10 people

Atlantic Aviation
90454 Boeing Drive
Eugene, OR. 97402
7 Days a week 0400-2400
Office: (541) 688-9291
Fax: (541) 688-5749

	Office	Cell
John Bowden General Manager	(541) 688-9291	(b)(6)

Aviation Fuel
For after hours service there is a $135.00 call out fee for each fueler between 2400-0400 hrs.
Jet A and 100 low lead.

CORVALLIS MUNICIPAL AIRPORT (CVO)

5695 SW Airport Ave
Corvallis, OR 97333
Office: (541) 766-6916
Fax:

	Office
Lisa Scherf General Manager	(541) 754-1759

Corvallis FBO:

Corvallis Aero Service
5695 SW Airport Place
Corvallis, OR 97333
Office: 541-753-4466
Fax: 541-753-7110

Aviation Fuel
Jet A and 100 low lead.

LOCAL AIRPORT INFORMATION

The following list contains Airport names and identifiers within the EICC geographical area. Additional airport information can be found at www.airnav.com

Albany Municipal Airport– S12

Aurora State Airport– UAO

Cottage Grove—61S

Creswell– Hobby Field Airport—77S

Florence Municipal Airport—6S2

Gold Beach Municipal Airport—4S1

McKenzie Bridge– 00S

Oakridge State Airport—5S0

Salem—McNary Field Airport—SLE

Santiam Junction State Airport—8S3

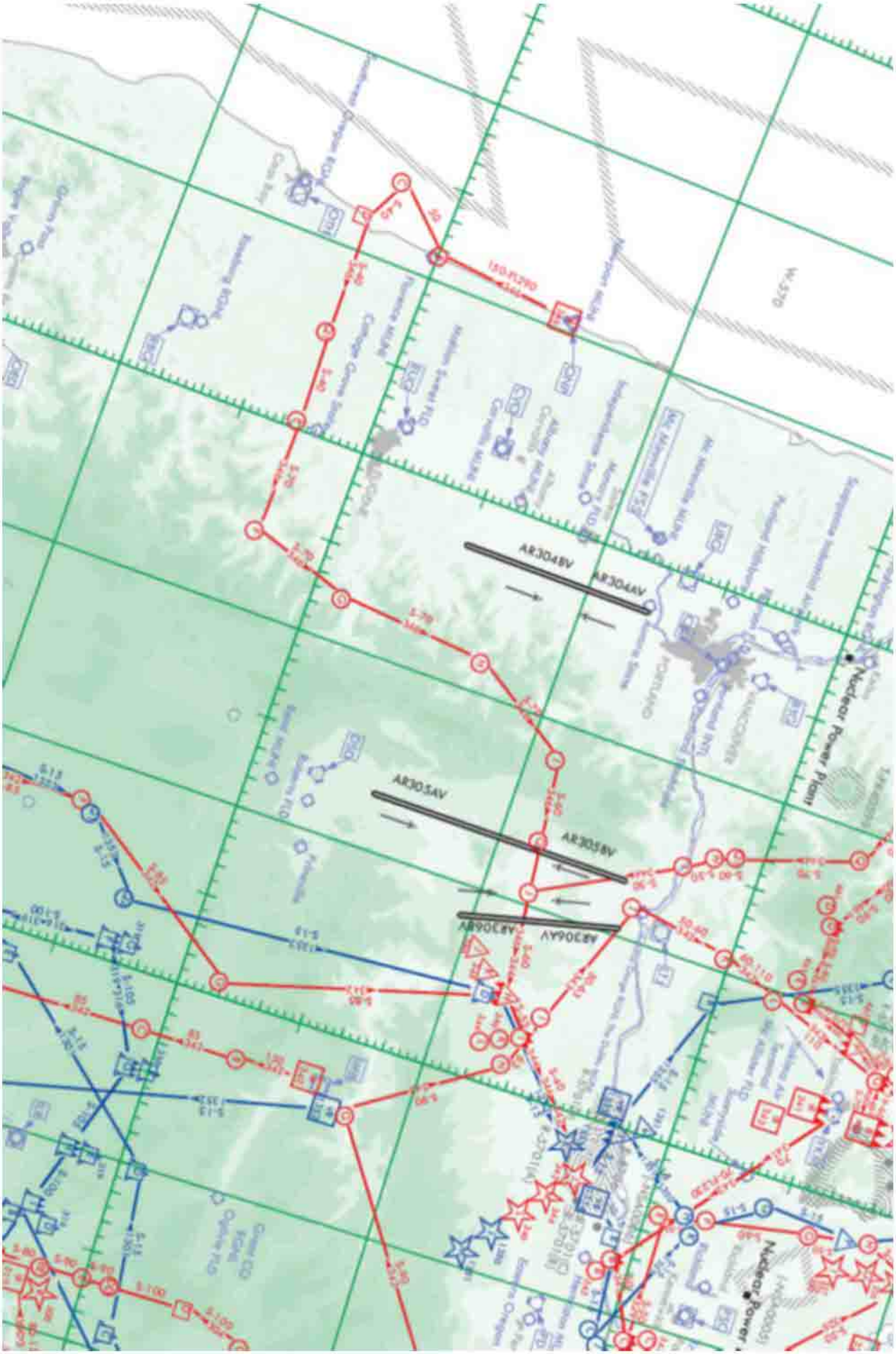
Tillamook Airport—TMK

Waldport– R33

COMMONLY USED COMMERCIAL AIRLINE IDENTIFIERS

IATA Airline Codes can be found at:
http://www.iata.org/publications/Pages/code-search.aspx

- AS – Alaska Airlines/Horizon Air
- HP – America West Airlines
- AA – American Airlines
- GQ – Big Sky Airlines
- CO – Continental Airlines
- DL – Delta/Delta Express
- F9 – Frontier Airlines
- QX – Horizon Airlines
- NW – Northwest Airlines
- OO – Sky west Airlines
- WN – Southwest Airlines
- UA – United Airlines/United Express
- US – US Airways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Nuclear Power Plant
Nuclear Power

CHAPTER 60 - PREDICTIVE SERVICES

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PRODUCTS

FIRE WEATHER FORECASTS

The Portland Fire Weather Office serves the EICC area. Fire Weather and Spot Forecasts are available via their web site:

http://www.wrh.noaa.gov/firewx/?wfo=pqr

Daily Fire Weather Briefings are conducted via conference call during the fire season, briefing can be found at:

https://global.gotomeeting.com/join/ (b)(6)

Phone 1-872-240-3212 passcode 8 (b)(6)

Spot Weather Forecasts should be requested for fires that:
A) Observed conditions do not match forecasted conditions.
B) Will exceed initial attack.
C) Have potential for extreme fire behavior.
D) Are located in areas where Red Flag Warnings or Fire Weather Watches have been issued.

DAILY FIRE WEATHER FORECASTS

EICC will read daily morning weather forecasts at 1100 starting May 1st and stop on October 31st. The afternoon forecast will be at 1600 and start on June 1st and also end on October 31st. Unless forecast is not generated by Portland fire weather.

FIRE POCKET CARD

Pocket Card Issuance
Every fire line supervisor will be issued a "pocket card" for the fuel types on their home unit. All fire line supervisors responding to wildland fires will be issued a pocket card before deployment on an assignment.

Pocket Card Website
Pocket Cards for the Willamette NF, and Siuslaw NF can be found at:
https://famit.nwcg.gov/applications/WIMS/PocketCards/PocketCards?field_gacc_value%5B%5D=Northwest&=Apply

Select View cards, Northwest in the GACC, then scroll down to the unit of choice.

INTELLIGENCE

INCIDENT STATUS REPORTS

Refer to Chapter 60, page 4, of the NW Area Mob. Guide. An ICS 209 will be completed for fires that exceed 100 acres in timber or 300 acres in grass, or any fire meeting the criteria in the NW Area Mob. Guide. Dispatch will coordinate with IC for ICS-209 submission.

SITUATION REPORTS

Refer to Chapter 60, page 5 of the NW Area Mob. Guide.

IRWIN AND FIRE REPORTING

Integrated Reporting of Wildland-Fire Information (IRWIN)

WildCAD interfaces with multiple programs using the IRWIN to facilitate data exchange between existing applications.

For general information on the IRWIN project:
https://www.forestsandrangelands.gov/WFIT/applications/IRWIN/index.shtml

Participating systems (used in the NW) currently include:
Read / Write: IROC, WildCAD, FireCode, ICS209, WFDSS
Read Only: IROC, e-Isuite, GeoMAC, EGP, RSAC

The following naming convention will be used:

Example:

2020	- ***OR-WIF*** -	***200001***
Year	Unit ID	Local Number

The local number is the incident number with an extra prefix zero.

Fire Reporting

EICC is responsible for end of year fire reconciling with InForm, IROC, WildCad, WFDSS, Firecode, ICS-209's, and Sit Reports.

Per Forest Service Manual 5147.1 – all wildfires which start in or burn into a fuel treatment that has been completed within the last 10 years must have a fuel treatment effectiveness assessment report completed. Complete the form at https://fireportal.usda.gov/ within 90 days of control of the fire.

All natural ignitions on Forest Service lands 10 acres or greater that moved towards or away from desired conditions will be mapped and acres will be reported in FACTS.

MORNING REPORT

Beginning on June 15 to October 15th, subject to change with duty officer discussion based on fire activity. Each unit will report their daily status to Eugene Dispatch on the online status page before 10AM. EICC will update nationally available resources in IROC.

CHAPTER 70 – FIRE ORGANIZATION DIRECTORY

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EUGENE INTERAGENCY COMMUNICATION CENTER

Eugene Dispatch 3106 Pierce Parkway, Suite D Springfield, OR 97477	541-225-6400 (Office and 24 Hour Answering Service) 541-225-6221 (Fax)		
Name/Title	**Office**	**Cell**	**Home**
On Call Dispatcher	***	(b)(6)	***
Erin Ely Center Manager	541-225-6404		(b)(6)
Kim Mushrush Asst. Center Manager	541-225-6400		
Shalyn Whitson Asst. Center Manager	541-225-6400		
Amy Harpole Lead Logistics Dispatcher	541-225-6400		***
Jaime Garcia Lead IA Dispatcher	541-225-6400		***
Trisha Wardlow Lead IA Dispatcher	541-225-6400	***	***
Tracey Pickering IA Dispatcher	541-225-6400	***	***
Dustin Fisher IA Dispatcher	541-225-6400	(b)(6)	***
Danielle Driscoll IA Dispatcher	541-225-6400	***	***
Floor Coordinator	541-225-6400	***	****
Aircraft Desk	541-225-6480	***	***

*Require dialing 1 from Eugene/Springfield

Fire Leadership Organization for NOIFM			
Name/Title	**Office Location**	**Office #**	**Cell / Home #**
NWIFM Duty Officer	***	***	(b)(6)
Ed Hiatt Fire Staff	Springfield	541-225-6402	
Eric Johnson Deputy Fire Staff	Springfield	541-683-6484	
Shawn Sheldon Deputy Fire Staff	Springfield	541-225-6411	
Dan Eddy Deputy Fire Staff	Corvallis	541-750-7026*	
Keith Haskins (Detailed) Unit Aviation Officer	Corvallis	541-750-7084*	
Chris Donaldson Fire Planner	Salem	503-375-5662*	
Saren Whitney Incident Business Specialist	Springfield	541-225-6345	
Eric Risdal Training Officer	Springfield	541-683-6124	

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NORTHWEST OREGON BUREAU OF LAND MANAGEMENT

Springfield Interagency Office 3106 Pierce Parkway Suite E Springfield, OR 97477	541-683-6600 (M-F 8:00-16:00) 541-683-6981 Fax 503-862-3147 Fire Duty Officer
Northwest Oregon BLM District Office 1717 Fabry Road, SE Salem, OR 97306	541-375-5646* 503-862-3147* Fire Duty Officer

Name/Title	Office Location	Office #	Cell / Home #
Jessica Gallimore Fuels Specialist	Springfield	541-683-6466	(b)(6)
Yanu Gallimore Fuels Specialist	Salem	503-315-5926*	
Maija Corliss Fuels Specialist	Springfield	541-683-6230	
Kenny Schade Fuels Specialist	Salem	503-315-5990*	
Jose Linares District Manager	Salem	503-375-5643*	
David Howell Associate District Mgr	Salem	503-375-5642*	
Leeanne Phillips Administrative Officer	Salem	503-375-5674*	
Randall Rishe District Safety Officer	Springfield	541-683-6379	
Joe Krish SAR Coordinator North	Springfield	541-683-6159	
Doug Fuller SAR Coordinator South	Springfield	541-683-6427	
Kirk Appleman Hazmat Coordinator	Salem	503-315-5906*	
Jennifer O'Leary Public Affairs Officer	Springfield	503-375-5657*	

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NOD FIELD OFFICES

Tillamook Field Office
4610 3rd Street
Tillamook, OR 97141

503-815-1100
503-815-1107 Fax

Name/Title	Office Location	Office #	Cell / Home #
Karen Schank Field Manager	Tillamook	503-815-1127*	(b)(6)
Janet Satter Assistant Field Mgr	Tillamook	503-815-1122*	
Brian Christensen Supervisory Forester	Tillamook	503-815-1119*	

Mary's Peak Field Office
1717 Fabry Road SE
Salem, OR 97306

503-375-5692
503-375-5622 Fax

Name/Title	Office Location	Office #	Cell / Home #
Paul Tigan Field Manager	Salem	503-315-5968*	(b)(6)
Scott Snedaker Assistant Field Mgr	Salem	503-315-5960*	***
Andy Frazier Assistant Field Mgr	Salem	503-315-5979*	(b)(6)

Cascades Field Office
1717 Fabry Road SE
Salem, OR 97306

503-375-5692
503-375-5622 Fax

Name/Title	Office Location	Office #	Cell / Home #
John Huston Field Manager	Salem	503-315-5969	(b)(6)
Chris Papen Assistant Field Mgr	Salem	503-375-5633	
Belle Smith Assistant Field Mgr	Salem	503-315-5984	
Mike Mathews Assistant Field Mgr	Salem	503-375-5711	

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NOD FIELD OFFICES

Siuslaw Field Office
3106 Pierce Parkway Suite E
Springfield, OR 97477

Name/Title	Office Location	Office #	Cell / Home #
Cheryl Adcock Field Manager	Springfield	541-683-6145	(b)(6)
Vacant Assistant Field Mgr	Springfield	541-683-6465	***
Chris Finn Assistant Field Mgr	Springfield	541-683-6421	(b)(6)

Upper Willamette Field Office
3106 Pierce Parkway Suite E
Springfield, OR 97477

Name/Title	Office Location	Office #	Cell / Home #
Rebecca Brooke (Becca) Field Manager	Springfield	541-683-6287	(b)(6)
Brian Bickford Assistant Field Mgr	Springfield	541-683-6164	
Todd Bush Assistant Field Mgr	Springfield	541-683-6443	
Sharmila Premdas Assistant Field Mgr	Springfield	541-683-6794	

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SIUSLAW NATIONAL FOREST ORGANIZATION

Siuslaw National Forest SO
3200 SW Jefferson Way
Corvallis, OR 97331

541-750-7000*
541-750-7027 Fax

Name/Title	Office Location	Office #	Cell / Home #
Robert Sanchez Forest Supervisor	Corvallis	541-750-7008*	(b)(6)
Vacant Administrative Officer	Corvallis	541-225-6417	
Don Andreasen Forest Safety Officer / Forest SAR Coord	Corvallis	541-563-8430*	
Steven Lopez Forest Hazmat Coordinator	Corvallis	541-563-8444*	
Craig Evens Back -up Forest Hazmat	Corvallis	541-750-7083*	
Lisa Ramono Forest PAO	Corvallis	541-750-7075*	

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SIUSLAW NATIONAL FOREST FIRE ZONE ORGANIZATION

Hebo Ranger District PO BOX 235 Hebo, OR 97122	503-392-5100* 503-392-5143* Fax
Central Coast Ranger District **Waldport Office** 1130 Forestry Lane Waldport, OR 97394	541-563-8400* 541-563-8449* Fax
Central Coast Ranger District **Oregon Dunes National Recreational Area** 855 Highway 101 Reedsport, OR 97467	541-271-6000* 541-271-6034* Fax

Name/Title	Office Location	Office #	Cell / Home #
SUF Fire Duty Officer	***	***	(b)(6)
Nathan Shinkle (Detailed) Zone Fire Management Officer	Reedsport	541-563-8440*	
Jeff Dillon Assistant Fire Management Officer	Waldport	541-563-8455*	
Chuck Cross Engine Captain E-621	Hebo	541-392-5142*	
Mike Jensen Engine Captain E-623	Reedsport	541-271-6018*	***
Aaron Schneider Crew Supervisor C-201	Waldport	541–563-8455*	(b)(6)
Brandon Hendrix (Detailed) District Ranger	Hebo	503-392-5117*	***
Adriene Holcomb District Ranger	Reedsport	541-563-8445*	(b)(6)
Garrit Craig Deputy District Ranger	Waldport	541-271-6001*	
Nathan Pearson Hazmat Coordinator	Hebo	503-392-5137*	
Steven Lopez SUF Hazmat Coordinator	Waldport	541-563-8444*	

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WILLAMETTE NATIONAL FOREST ORGANIZATION

Springfield Interagency Office 3106 Pierce Parkway Suite E Springfield, OR 97477	541-683-6600 (M-F 8:00-16:30) 541-683-6981 Fax 503-862-3147 Fire Duty Officer

Name/Title	Office Location	Office #	Cell / Home #
David Warnack Forest Supervisor	Springfield	541-225-6312	(b)(6)
Duane Bishop Deputy Forest Supervisor	Springfield	541-225-6311	
Kailee Nosler Acting Administrative Officer	Springfield	541-255-6471	
Daniel Preston Forest Safety Officer/ SAR Coordinator	Springfield	541-255-6340	
Tammy Robinson Forest PAO	Springfield	541-225-6305	
Fred Levitan Forest Hazmat Coordinator	Springfield	541-225-6366	***

*Require dialing 1 from Eugene/Springfield

SANTIAM RIVER ZONE ORGANIZATION

Detroit Ranger District HC 73 Box 320 Mill City, OR 97360	503-854-3366 503-854-4237 Fire Mgt 503-854-4239 Fax
Sweet Home Ranger District 4431 Highway 20 Sweet Home, OR 97386	541-367-5168 541-367-2367 Fax

Name/Title	Office Location	Office #	Cell / Home #
SRZ Fire Duty Officer	***	***	(b)(6)
Brandon Coville Fire Management Officer Detroit SAR Coordinator	Detroit	503-854-4201*	
Jonah Gladney Assist. Fire Management Officer	Detroit	503-854-4206*	
Chris Mushrush Assist. Fire Management Officer	Detroit Sweet Home	503-854-3220*	
Bill David (Detailed) Fire Operations Supervisor	Sweet Home	541-367-3247*	
Kyle Barnes Engine Supervisor E-342	Detroit	503-854-3225*	
Randy Pyle Engine Supervisor E-441	Detroit	503-854-3222*	
Stephen Cooke Crew Supervisor C-401	Detroit	503-854-3892*	
Nikki Swanson District Ranger	Sweet Home	541-367-3556*	
Vacant District Ranger	Detroit	503-854-4200*	***
Jared Richey Hazmat and acting SAR Coordinator	Sweet Home	541-367-3492*	(b)(6)

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MCKENZIE RIVER DISTRICT ORGANIZATION

McKenzie River Ranger District 57600 McKenzie Hwy McKenzie Bridge, OR 97413	541-822-3381 541-822-7240 Fire Mgt. 541-822-7253 Fax

Name/Title	Office Location	Office #	Cell / Home #
MR Fire Duty Officer	***	***	(b)(6)
Dan Trapanese Fire Management Officer	McKenzie Bridge	541-822-7241	
Nick White Asst. Fire Management Officer - OPS	McKenzie Bridge	541-822-7272	
Dirk Rogers Asst. Fire Management Officer-Fuels **(SAR Coord Primary)**	McKenzie Bridge	541-822-7247	
Michael Hanson Fuels Tech	McKenzie Bridge	541-822-7294	
David Duncan Prevention	McKenzie Bridge	541-822-7290	
Greg Ver Engine Supervisor E-411	McKenzie Bridge	541-822-7291	
Frank Heliman Engine Supervisor E-413	McKenzie Bridge	541-822-7273	
Quinlan Anderson Crew Supervisor C-101	McKenzie Bridge	541-822-7277	
Darren Cross District Ranger	McKenzie Bridge	541-822-7200	
Shane Kamrath Primary Hazmat Coordinator	McKenzie Bridge	541-822-7233	
Nick Grant Secondary Hazmat Coordinator	McKenzie Bridge	541-822-7205	
Sand Mt Lookout	McKenzie Bridge	***	***
Carpenter Mt Lookout	McKenzie Bridge	***	***
Logistics Desk	McKenzie Bridge	541-822-7240	***
Brenda Hamlow HJ Andrews Site manager	Blue River	541-822-6303	(b)(6)
Mark Schulze HJ Andrews Site Manager	Blue River	541-822-6336	

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MIDDLE FORK DISTRICT ORGANIZATION

Middle Fork Ranger District 46375 Highway 58 Westfir, OR 97492		541-782-2283 541-782-2125 Fire Mgmt. 541-782-5336 Fax	
Name/Title	**Office Location**	**Office #**	**Cell / Home #**
MF Fire Duty Officer	***	***	(b)(6)
Mike Aizpitarte Fire Management Officer	Middle Fork	541-782-5259	
Jimmer Hunt Asst. Fire Management Officer – Ops	Middle Fork	541-782-5221	
Spencer Ware Asst. Fire Management Officer – Fuels	Middle Fork	541-782-5244	
Sequoia Gjerde Fuels Tech – Lead	Middle Fork	541-782-5322	
Amanda Johnson Apprentice	Middle Fork	541-782-5317	***
Opal DePue Engine Supervisor E-351	Middle Fork	541-782-5250	(b)(6)
Matthew Pederson Engine Supervisor E-452	Middle Fork	541-782-5254	
Brain Bradberry Engine Supervisor E-453	Middle Fork	541-782-5254	
Wayce Saluskin Engine Supervisor E-454	Middle Fork	541-782-5218	
Wesley Wentworth Crew Supervisor C-501	Middle Fork	541-782-5352	
Eric Moore Prevention Technician	Middle Fork	541-782-5331	
Molly Juillerat District Ranger	Middle Fork	541-782-5350	
Rob Mickey Deputy District Ranger	Middle Fork	541-782-5344	
Kevin Rowell SAR Coordinator	Middle Fork	541-782-5305	
Greg Hotujec Hazmat Coordinator	Middle Fork	541-782-5219	

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FISH AND WILDLIFE

Willamette Valley National Wildlife Refuge Complex 26208 Finley Refuge Rd Corvallis, OR 97333-953		541-757-7236 541-757-4450 Fax	
Name/Title	**Office Location**	**Office #**	**Cell / Home #**
Jeremiah Maghan Fire Management Officer	Corvallis	541-757-7236* Ext: 206	(b)(6)
Silas Baffa Fire Technician	Corvallis	541-757-7236* Ext: 205	
Damien Miller Project Leader	Corvallis	541-757-7236*	
Vacant Deputy Project Leader	Corvallis	541-757-7236*	
Scott Neumann LEO	Corvallis	541-757-7236* Ext: 212	

Oregon Coast National Wildlife Refuge Complex			
Name/Title	**Office Location**	**Office #**	**Cell / Home #**
Dan Eddy Deputy Fire Staff NWOFM	Corvallis	541-750-7026*	(b)(6)
Kelly Moroney Project leader	Corvallis	541-757-7236* Ext: 206	
Rebecca Chuck Deputy Project Leader	Corvallis	541-757-7236* Ext: 205	

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CONFEDERATE TRIBES OF GRAND RONDE

Confederated Tribes of Grand Ronde
47010 SW Hebo Rd
Grand Ronde, OR 97347

Mailing:
9615 Grand Ronde Rd
Grand Ronde, OR 97347

Name/Title	Office Location	Office #	Cell / Home #
Darron Williams Bureau Of Indian Affairs Regional Fire Management Officer	Portland, OR	503-231-6759*	***
David Fullerton General Manager	Grand Ronde	503-879-2036*	(b)(6)
Mike Wilson Natural Resources Mgr	Grand Ronde	503-879-2380*	
Colby Drake **Fire Management Officer**	**Grand Ronde**	**503-879-2384***	
Jim Pinder **AFMO / Engine Captian**	**Grand Ronde**	**503-879-2332***	
Logan Kneeland Engine Captain/ Prevention	Grand Ronde	***	
Dan Schramn Engine Captain	Grand Ronde	***	
Jeramy Tammell Engine Captain	Grand Ronde	***	***
Jeff Classen ODF Protection Unit Forester/ West Oregon ODF (RX Patrolling)	Dallas, OR	503-623-8146*	(b)(6)
Steve Warden Emergency Operations Coord.	Grand Ronde	503-879-1827*	***

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ANGELL JOB CORPS

Angell Job Corps Center 335 NE Blodgett RD, Yachats, OR 97498-9388		541-547-3137 541-547-5690 Fax 1-800-828-2157 Toll Free	
Name/Title	**Office Location**	**Office #**	**Cell / Home #**
Vacant Asst. Fire Management Officer	Yachats	541-547-5637*	***
Rob McGregor Camp Crew Boss	Yachats	541-547-5641*	(b)(6)
Michael Faust (acting until 8/19/18) Acting Center Director	Yachats	541-547-5616*	
Suann Piontek Administrative Officer	Yachats	541-547-5614*	
Cindy Bruce Safety Officer	Yachats	541-547-5610*	***
Mikell Sumerau Center Standards Officer	Yachats	541-547-5676*	(b)(6)
Brandy Endicott Residential Living Manager	Yachats	541-547-5648*	

OREGON DEPARTMENT OF FORESTRY

Oregon Department of Forestry 2600 State Street Salem, OR 97310		503-945-7455 Fire Operations 503-945-7445 Fire Investigation 503-945-7430 Fax	
Name/Title	**Office Location**	**Office #**	**Cell / Home #**
Doug Grafe Fire Protection Chief	Salem	503-954-7204*	(b)(6)
Ron Graham Deputy Chief Protection Division	Salem	503-954-7271*	***
Blake Ellis Fire Ops. Manager	Salem	503-945-7437*	(b)(6)
Karen Swearingen Training Coordinator	Salem	503-945-7437*	
Dawn Sleight Dispatch Center Manager	Salem	503-945-7439*	
Duty Officer After Hours	***	503-945-7455*	***
Smoke Management Forecasting	***	503-945-7401*	***
Smoke Management Recording	***	503-945-7400*	***

Forest Grove	**Dispatch: 503-357-2191** **********@oregon.gov		**530S**
Forest Grove District 801 Gales Cr. Rd. Forest Grove, OR 97116	503-357-2191 503-357-4548 Fax Renae.Shippey@oregon.gov		531S
Name/Title	**Office Location**	**Office #**	**Cell / Home #**
Andy White Area Director	Forest Grove	503-359-7496*	(b)(6)
Mike Cafferata District Forester	Forest Grove	503-359-7430*	
Eric Perkins Protection Forester	Forest Grove	503-359-7450*	
Matt Mackey Wildland Fire Supervisor	Forest Grove	503-359-4447*	
Columbia Unit 405 E Street Columbia City, OR 97018	503-397-2636 503-397-6361 Fax		532S
Mike Cafferata District Forester	Forest Grove	503-359-7430*	(b)(6)
Malcolm Hiatt Protection Unit Forester	Columbia City	503-397-2636*	
Kelly Nilles Protection Supervisor	Columbia City	503-397-2636*	

Astoria	**Dispatch: 503-338-1394** astoria.dispatch@oregon.gov		**520S**
Astoria District 92219 OR-202 Astoria, OR 97103	503-325-5451 503-325-2756 Fax		
Name/Title	**Office Location**	**Office #**	**Cell / Home #**
Andy White Area Director	Forest Grove	503-359-7426*	(b)(6)
Dan Goody District Forester	Astoria	503-338-1399*	
Neal Bond Protection Forester	Astoria	503-338-1397*	
Dave Horning Wildland Fire Supervisor	Astoria	503-338-1396*	

Tillamook	**Dispatch:503-842-2545** Sydnee.d.donowho@oregon.gov		**510S**
Tillamook District 5005 E. 3rd Avenue Tillamook, OR 97141	503-842-2545 503-842-3143 Fax Kim.robison@oregon.gov		510S
Name/Title	**Office Location**	**Office #**	**Cell / Home #**
Kate Skinner District Forester	Tillamook	503-815-7001*	(b)(6)
Ed Wallmark Protection Unit Forester	Tillamook	503-815-7050*	
Kevin Hill Protection Supervisor	Tillamook	503-815-7051*	
South Fork Camp 48300 Wilson River Highway Tillamook, OR 97141	503-842-7213* 503-842-6572* Fax		
Dave Luttrell Camp Manager	Tillamook	503-842-7213* ex126	***
Aaron Auble Assistant Camp Manager	Tillamook	503-842-7213* ex123	***

North Cascade District	**Dispatch:503-829-2216 x229** **503-829-4051** mollala.dispatch@oregon.gov		**580S**
Santiam Unit 22965 North Fork Rd SE Lyons, OR 97358	503-859-2216* 503-859-2151* After Hours 503-859-2158 Fax		582S
Name/Title	**Office Location**	**Office #**	**Cell / Home #**
Steve Wilson District Forester	Lyons	503-859-4341*	(b)(6)
Vacant Asst. District Forester	Lyons	503-859-4325*	***
Blake Ellis Santiam Protection Sup.	Lyons	503-859-4331*	(b)(6)
Molalla Unit (Dispatch Lyons Area) 14995 S. Highway 211 Molalla, OR 97038	503-859-2216* 503-829-4051* After Hours 503-859-4736 Fax		581S
Steve Wilson District Forester	Lyons	503-859-4341*	(b)(6)
Scott West Unit Forester	Molalla	503-829-2216*	
Tracy Brostrom Molalla Protection Sup.	Molalla	503-829-2216*	

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West Oregon District	Dispatch: 541-929-9154 wodispatch@oregon.gov		550S
Philomath Unit 24533 Alsea Highway Philomath, OR 97370	541-929-3266 541-929-5549 Fax		551S
Name/Title	**Office Location**	**Office #**	**Cell / Home #**
Mike Totey District Forester	Philomath	541-929-9151	(b)(6)
Ted Erdmann Asst. District Forester	Philomath	541-929-9152*	
Rick Harris Protection Unit Forester	Philomath	541-974-3925*	
Dallas Unit 825 Oak Villa Rd Dallas, OR 97338	503-934-8146 503-623-9034 Fax		552S
Mike Totey District Forester	Philomath	541-929-9151	(b)(6)
Jeff Classen Protection Unit Forester	Dallas	503-302-7076*	
Jason Rayburn Protection Supervisor	Dallas	503-302-7169*	
Toledo Unit 763 NW Forestry Rd Toledo, OR 97391	541-336-2273* 541-336-5261* Fax		553S
Mike Totey District Forester	Philomath	541-929-9151	(b)(6)
Matt Thomas Unit Forester	Toledo	541-351-1609	
Charlie Redheffer Protection Supervisor	Toledo	541-351-1309	

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Western Lane District	**Dispatch: 541-935-2283** westernlanedispatch@oregon.gov		**781S**
Veneta Unit 87950 Territorial Rd. Veneta, OR 97487	541-935-2283 541-935-0731 Fax		781S
Name/Title	**Office Location**	**Office #**	**Cell / Home #**
Link Smith District Forester	Veneta	541-972-2328	(b)(6)
Chet Behling Protection Unit Forester	Veneta	541-972-0112	
John Deegan Protection Supervisor	Veneta	541-972-1061	
Tom Soward Protection Supervisor	Florence	541-972-2398	
Andrea Lively Office Manager	Veneta	541-972-2107	***
Florence Unit PO BOX 460 Florence, OR 97439	541-935-2283 541-997-3737 Fax		782S
Chet Behling Protection Unit Forester	Veneta	541-972-0112	(b)(6)
Tom Soward Protection Supervisor	Veneta	541-972-2398	
Coos Unit 63312 Fifth Road Coos Bay, OR 97420	541-267-4136 541-269-2027 Fax		
Ryan Greco Protection Unit Forester	Coos Bay	541-267-1401	***

South Cascade District **Eastern Lane** **Sweet Home**	**Dispatch: 541-726-3588 x223** Zachary.J.Secora@oregon.gov **Dispatch: 541-367-6108 x 0** Valerie.R.Oakleaf@oregon.gov	**770S**

Eastern Lane Unit 3150 Main Street Springfield, OR 97478	541-726-3588 541-341-9366 After Hours 541-726-2501 Fax	771S

Name/Title	Office Location	Office #	Cell / Home #
Chris Cline District Forester	Springfield	541-726-3588 x 225	(b)(6)
Michael Curran Unit Forester	Springfield	541-726-3588 x 226	
Brent Peterson Protection Supervisor	Springfield	541-726-3588 x 229	
John Flannigan Protection Supervisor	Springfield	541-726-3588 x 250	
Jerilee Johnson District Business Manager	Springfield	541-726-3588 x 228	

Sweet Home Unit 4690 Highway 20 Sweet Home, OR 97386	541-367-6108 541-367-5613 Fax	772S

Name/Title	Office Location	Office #	Cell / Home #
Chris Cline District Forester	Springfield	541-726-3588 x 225	(b)(6)
Craig Pettinger Unit Forester	Sweet Home	541-359-6108 x 223	
Neil Miller Protection Supervisor	Sweet Home	541-359-6108 x 226	
Chad Calderwood Protection Supervisor	Sweet Home	541-359-6108 x 227	
Nakia Stafford Administrative Specialist 1	Sweet Home	541-359-6108 x 221	***

*Require dialing 1 from Eugene/Springfield

Douglas Fire Protection Area	**Dispatch:541-672-0379 x121 or x138** **730S** **********@oregon.gov		
Douglas District 1758 NE Airport Rd Roseburg, OR 97470-1499	541-440-3412 541-672-6507 DFPA 541-440-3424 Fax		731S 732S 733S
Name/Title	**Office Location**	**Office #**	**Cell / Home #**
Dave Lorenz Area Director	Roseburg	***	(b)(6)
Shannon Vandeventer Acting District Forester	Roseburg	541-580-7478*	***
Kristian Sheppard Support Specialist	Roseburg	541-821-2023*	***

Coos Forest Protective Association	**Dispatch: 541-267-3161** Kimberly.robison@oregon.gov		**721S**
Coos Bay Unit 63612 Fifth Rd Coos Bay, OR 97420	541-267-3161 CFPA 541-266-8452 Fax		
Name/Title	**Office Location**	**Office #**	**Cell / Home #**
Mike Robison District Forester	Coos Bay	541-267-3161*	(b)(6)
Kyle Gibbons Coos Bay Unit Forester	Coos Bay	541-267-3161*	
Jeff Wilmarth Assistant Forester	Coos Bay	541-551-1643	***
Dominique Ray Business Manager	Coos Bay	541-267-3161*	(b)(6)
Kimberly Robison Dispatch Supervisor	Coos Bay	541-267-3161*	
Reedsport Sub-Unit 2925 Longwood Drive Reedsport, OR 97467	541-271-2224 541-271-9494 Fax		
Dave Brown Protection Supervisor	Reedsport	541-271-2224*	(b)(6)
Protection Supervisor	Reedsport	541-271-2224*	***
Bridge Unit: 98247 Bridge Lane Myrtle Point, OR 97458	541-572-2796 541-572-4316 (fax)		
Mike White Unity Forester	Myrtle Point	541-297-7468	***
Corey Bryant Assistant Unit Forester	Myrtle Point	541-252-0807	***
Gold Beach Unit 94276 Gauntlett Street Gold Beach OR 97444	541-247-6241 541-247-0222 (fax)		

Derwin Boggs Unit Forester	Gold Beach	541-297-7464	***
Brett Weidemiller Assistant Unit Forester	Gold Beach	541-698-7849	***
Fourmile Sub Unit 46946 Highway 101 Bandon, OR 97411	541-347-3400 458-202-4543 (fax)		
Robert Franson Assistant Unit Forester	Bandon	541-297-7470	***

OREGON NATIONAL GUARD READINESS CENTER SECURITY / FACILITIES

Oregon National Guard Readiness Center			
Name/Title	**Office Location**	**Office #**	**Cell #**
James Ogan Facilities	Springfield	***	(b)(6)

LAW ENFORCEMENT

Northwest Oregon BLM Law Enforcement				
Name/Title	**Office Location**	**Dispatch out of:**	**Office #**	**Cell / Home #**
George Dawn OSP-7214 R-161 District Chief Ranger	Salem	OSP	503-315-5901*	(b)(6)
Raymond Huffman R-374 Lane County Ranger	Springfield	Lane County	541-683-6121	
Vacant OSP-*** R-*** Cascades Ranger	Salem	OSP	503-315-5901*	
Richard Williams OPS - **** R-778 Tillamook Ranger	Salem	OSP	503-375-5607*	
Vacant Special Agent	Portland	***	541-683-0613	***

Siuslaw and Willamette NF Law Enforcement				
Name/Title	**Office Location**	**Dispatch out of:**	**Office #**	**Cell / Home #**
Thomas Barrs Patrol Captain	Willamette/Siuslaw	Metcom	541-225-6489	(b)(6)
Vacant	Detroit	Metcom	503-854-4207*	***
Felicia Sloan LEO F-2350	Detroit/ Sweet Home	Metcom	541-367-3811*	(b)(6)
Kurt Speerbrecher LEO F-2057	Middle Fork	Metcom	541-782-5212	
Stephen Tchalemian LEO F-1806	Middle Fork	Metcom	541-782-5231	
Chris Kuykendall LEO F-2095	McKenzie Bridge	Metcom	541-822-7270	
Oliver Grover LEO F-2099	Reedsport	Metcom	541-271-6090*	
Vacant	Hebo	Metcom	503-392-5129*	***
Veronica Gooding	Waldport	Metcom	541-563-8413*	(b)(6)
Teddy Rainville Special Agent F-462	Willamette SIO	Metcom	541-225-6490	
Rita Wilson	Willamette SIO	***	541-225-6372	

CITY, COUNTY, STATE LAW ENFORCEMENT AGENCIES

State Police		
Oregon State Police	Eugene/Springfield Dispatch Salem Dispatch Non-Emergency – Springfield	541-726-2525 503-375-3555 541-726-2536
City Police		
Albany Police	Non-Emergency	541-917-7680*
Corvallis Police	Non-emergency	541-766-6924*
Eugene Police	Non-Emergency	541-682-5111
Florence Police	Non-emergency	541-997-3515*
Grand Ronde Tribal Police	Non-emergency	503-879-2123*
Oakridge Police	Non-Emergency	541-782-2258
Reedsport Police	Non-emergency	541-271-2100*
Salem Police	Non-emergency	503-588-6123*
Springfield Police	Non-emergency	541-726-3714

Sweet Home Police	Non-emergency	541-367-5181*
Tillamook Police	Non-emergency	503-815-1900*
County Sheriff		
Benton County Sheriff	Dispatch	541-766-6911*
Clackamas County Sheriff	Emergency/ Non-Emergency Dispatch Office	503-655-8911* 503-655-8211*
Clatsop County Sheriff	Emergency/Non-Emergency	503-325-2061*
Columbia County Sheriff	Non-emergency Dispatch	503-366-4611* 503-397-1521*
Coos County Sheriff	Emergency/Non-Emergency	541-396-2106*
Deschutes County Sheriff	Emergency/ Non-Emergency	541-693-6911*
Douglas County Sheriff	Emergency/ Non-Emergency	541-440-4471*
Jefferson County Sheriff	Dispatch Administration	541-475-2201* 541-475-6520*
Lane County Sheriff **Station 1 - BLM LEO's**	Non-Emergency Fire Non-Emergency	541-682-4141 541-682-5111
Lincoln County Sheriff	Non-Emergency	541-265-4231*
Linn County Sheriff	Emergency/ Non-Emergency Fire	541-967-3911/3912/3913* 541-967-4333*
Marion County Sheriff	Non-Emergency	503-588-5032*
MetCom **FS LEO's/EICC After Hours**	Emergency/ Non-Emergency	503-982-7219*
Multnomah County Sheriff	Non-emergency	503-823-3333*
Polk County Sheriff	Non-Emergency	503-623-9251*
Tillamook County Sheriff	Non-Emergency	503-815-1911*
Washington County Sheriff	Non-Emergency	503-629-0111*
Yamhill County Sheriff	Non-Emergency	503-434-6500*

ANIMAL CONTROL

Benton County	541-753-0732	Douglas County	541-440-4328	Multnomah County	503-988-7387
Clackamas County	503-655-8628	Jefferson County	541-475-2201	Polk County	503-623-9251
Clatsop County	503-861-0737	Lane County	541-682-3645	Tillamook County	503-842-2522
Columbia County	503-397-1521	Lincoln County	541-265-0777	Washington County	503-846-7041
Coos County	541-751-2480	Linn County	541-967-3925	Yamhill County	503-434-7538
Deschutes County	541-693-6911	Marion County	503-588-5366		

*Require dialing 1 from Eugene/Springfield

EMERGENCY SERVICES

NORTHWEST OREGON 911 CENTERS

Center	Area	Office
Astoria 911	Clatsop County	503-352-4411*
Bend Fire and Emergency 911	Bend Area	541-693-6911*
Clackamas County Comm.	Clackamas County excluding Lake Oswego, West Linn & Milwaukie	503-655-8911*
Columbia 911	Columbia County	503-397-1521*
Coos Bay Police Department	Coos Bay	541-269-8911*
Corvallis Regional Comm. Center	Benton County	541-766-6911*
Deschutes County	Bend Area	541-693-7911*
Douglas County 911	Roseburg Area	541-440-4471*
Frontier Regional 911	Jefferson County	541-384-2080*
Lake Oswego Comm.	Only Lake Oswego, West Linn & Milwaukie	503-635-0238*
Central Lane County 911 (FireCom) Fire/EMS/Law Enforcement https://www.eugene-or.gov/579/Area-Served	Eugene/ Springfield Area All Lane County	24 hour # 541-344-2211 Fire Dispatch 541-687-5899 Call Takers 541-682-5345 Non-Emergency 541-682-5111 option 1
Eastern Lane County 911	Oakridge Area	541-683-6721
South Lane County 911	Cottage Grove Area	541-942-2464 / 24hr # 9145
Western Lane County 911	Florence Area	541-997-2623/ 24hr # 3515
Linn County 911	Sweet Home Area	541-928-6911*
MetCom WIF/ SUF LEO	Hillsboro Area & Marion Co.	503-982-7219*
Bureau of Emergency Comm.	Multnomah County	503-760-6911*
Santiam 911	Stayton Area	Call MetCom
Tillamook County 911	Tillamook Area	503-815-1911*
Washington Co. CC Agency	Beaverton Area	503-629-0111*
Lincoln City	Lincoln county	541-944-3636

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COUNTY SEARCH AND RESCUE

Name/ Radio Call #	Office Location	Office #	Cell #
Tom Bergin	Clatsop County	503-325-8635*	***
***	Columbia County	503-336-4611*	***
Sgt. Mark Herron	Multnomah County	503-823-3333*	(b)(6)
Pat Garrett	Washington County	503-846-2700*	***
Billy Cloud	Tillamook County	503-815-1911*	(b)(6)
Vacant	Yamhill County	503-434-7506*	***
***	Clackamas County	503-655-8911	***
Sgt Shane Burnham A45	Marion County	***	(b)(6)
Richard Bittick	Polk County	503-623-9254*	***
Adam Shanks	Lincoln County	541-265-0683*	***
Kevin Higgins	Benton County	541-766-6864*	***
Joe Larson	Linn County	541-967-3911*	(b)(6)
Tim Chase #126	Lane County	541-682-4369	
Jason Bowman Assistant	Lane County	541-682-8561	
***	Douglas County	541-440-4471*	***
Tony Watson	Coos County	541-396-7845*	***

AMBULANCES AND HOSPITALS

Air Ambulance		
Air Link	Bend Hospital Dispatch	541-706-6990* 1-800-621-5433
Life Flight	Dispatch	1-800-232-0911

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McKenzie Willamette Hospital			Heli-port
1460 G Street Springfield, OR 97477	Emergency Room Information	541-726-4580 541-726-4400	FAA – 41OR Frequency – 155.340 Lat/ Long 44º 03.22 N/ 123º 00.20W
Peace Health Medical Center at River Bend			**Heli-pad**
3333 Riverbend Springfield, OR 97477	Emergency Room Information	541-222-6931 541-222-7300	FAA – OG64 Frequency – 155.340 Lat/ Long 44º 04.87 N/ 123º 01.58W
Samaritan Albany General Hospital			**Heli-pad**
1046 West 6th Albany, OR 97321	Emergency Room Information	541-812-4194* 541-812-4000*	Frequency – 155.340 Lat/ Long 44º 37.91N/ 123º 06.9W
Samaritan Lebanon Community Hospital			**Heli-port**
525 N. Santiam Hwy Lebanon, OR 97355	Emergency Room Information	541-451-7115* 541-258-2101*	FAA – 8OR1 Frequency – 155.340 Lat/ Long 44º 33.09/ 122º 54.43
Emanuel Hospital			**Heli-port**
2801 N. Gantenbein Portland, OR 97227 Oregon Burn Center @ Emanuel 3001 N Gantenein Portland, OR 97227	Emergency Room Information Information	503-413-4121* 503-413-2200* 503-413-4232*	FAA – 7OR5 Frequency – 155.340 Lat/ Long 45º 32.58N/ 122º 40.23W
Salem Hospital			**Heli-pad**
890 Oak St SE Salem, OR 97301	Emergency Room Information	503-814-1572* 503-561-5200*	FAA – OG37 Lat/ Long 44º 55.95N/ 123º 02.03W
Saint Charles Medical Center			**Heli-pad**
2500 NE Neff Rd Bend, OR 97701	Information Will transfer you to ER	541-382-4321*	FAA – 54OR Lat/ Long 44º 04.02N/ 121 16.13W
Good Samaritan Regional Medical Center			**Heli-pad**
3600 NW Samaritan Dr. Corvallis, OR 97330	Emergency Room Information	541-768-5021* 541-768-5111*	NNE Side of Hospital Lat/ Long 44 36.26N/ 123 15.11W
Providence Seaside Hospital			
725 S Wahanna RD Seaside, OR, 97138	Emergency Room Information	503-717-7000* 503-717-7000*	
Tillamook Regional Medical Center			
1000 3rd ST, Tillamook,OR 97141	Information	503-842-4444*	
Peace Health Peace Harbor Medical Center			
400 9th St, Florence OR 97439	Information	541-997-8412	Possible Helipad in parking lot

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OTHER FEDERAL AGENCIES

ARMY CORPS OF ENGINEERS

Dam	District	Office
Lookout Point Dam	Middle Fork	541-937-3072
Cougar Dam	McKenzie River	
Detroit Dam	Detroit	
Foster Dam	Sweet Home	
Dorena Dam	EUD – Upper Willamette	
Fern Ridge Dam	EUD – Siuslaw	

FAA, AIRPORTS AND FLIGHT SERVICE STATIONS

Seattle - Air Route Traffic Control Center (ARTCC)	
Washington and Oregon Service Center	
Front Desk	253-351-3520*
TFR/ Wildfire Desk	253-351-3697* or 3698*
Military Desk	253-351-3523*

Eugene	
Airport Administration (Tim Doll)	541-682-5430
Air Traffic Control Tower – Control Room	541-607-4600
Airport Terminal Passenger Paging	541-954-8364

Salem	
McNary Field – Air Traffic Control Tower	503-581-3571 *Not for Public Use
Salem Airport Administrator – John Paskell	503-589-2057*
Airport Operations Manager – Joey Langenhorst	503-589-2058*
Oregon Department of Aviation	503-378-4880*

Oregon Flight Service Station	
McMinnville Flight Service Station (FSS)	*928-778-0314 24 hr
- Moved operations to Prescott, AZ	*928-772-4390* FAX

NATIONAL WEATHER SERVICE

NWS Portland
Portland Weather Forecast Office: 503-261-9246*
Fire weather briefing – call in #: 1-872-240-3212 Access Code: (b)(6)
https://global.gotomeeting.com/join/2(b)(6)

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NATURAL RESOURCE CONSERVATION SERVICE (SNOTEL SITES)

Salem Service Center (Marion Co.) 650 Hawthorne Ave SE, Suite 130 Salem, OR 979301	503-399-5741*
Tangent Service Center (Linn Co.) 31978 N. Lake Creek Dr Tangent, OR 97389	541-967-5925*
Eugene Service Center (Lane Co.) 780 Bailey Hill Rd, Suite 5 Eugene, OR 97402	541-465-6443
Roseburg Service Center (Douglas Co.) 2593 NW Kline St Roseburg, OR 97471	541-673-6071*

OTHER SPECIALISTS AND EMERGENCY CONTACTS

OREGON DEPARTMENT OF TRANSPORTATION

ODOT – State Highway Department
3620 Gateway Central Dispatch 503-362-0457 use for all of the region
Springfield, OR 97477

RED CROSS

Ross Cross Chapters		
Name/ Location	**Hours**	**Office #**
Lane County Chapter	24 Hour Number	541-344-5244

OREGON DEPARTMENT OF FISH AND WILDLIFE

Fish & Wildlife	
Name/ Location	**Office #**
Portland Oregon Fish and Wildlife Office	503-231-6173*
Newport Field Office	541-867-4558
Springfield Field Office	541-726-3515
Roseburg Field Office	541-957-3474*

*Require dialing 1 from Eugene/Springfield

PUBLIC POWER UTILITIES

Company	Coverage area office:	Phone
Lane County Public Works 3050 N. Delta Hwy Eugene, OR 97401	All	Administration Dispatch 541-682-6900 Emergency After Hours 541-682-4141
Eugene Water and Electric Board (EWEB)	NOD, MR	24 hr 1-844-484-2300 Down Line prompt Press 2
Lane Electric Coop	All	24 hr 541-484-1151
Blatchy Lane Electric Coop (new)	NOD:Siuslaw field office	541-688-8711 (Need to call for 24 hr #)
Consumers Power Inc.		24 hr 541-929-3124 Leave a message, call will be returned
Springfield Utility Board (SUB)	NOD,	541-746-8451, Water Emergency 541-726-2396, Electrical Outages 541-726-2395
Pacific Power and Light		24 hr 877-548-3768
Emerald Public Power Utility (EPUD)	NOD,	24 hr 541-746-1583
Douglas Electric Cooperative	MF	24 hr 541-673-6616*
Bonneville Power Administration System Control Center – Emergency Only	SRZ	Vancouver 24 hr 360-693-4703* Portland 24 hr 503-283-2501*
Note: BPA requests that we contact the above unlisted numbers only when a BPA facility on or adjacent to Forest Service or BLM land is involved in a fire zone. They will contact the appropriate BPA personnel.		

RAILROADS

Union Pacific		
Name/Title	**Office #**	**Cell / Home #**
Critical Call – Emergency 24 hour	888-887-7267	***
Jeff Dukes Hazardous Materials	503-249-3024	***
Rick E. Abbott Oakridge RR Local Contact	402-501-4480	(b)(6)
Coos Bay Rail Link	541-226-7245*	***

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RAPTOR CENTER

Name/Title	Office #
Cascades Raptor Center *aka* Eugene Raptor Center	541-485-1320
Note: * Put bird in a ventilated cardboard box with absorbent material (i.e. newspaper) * Do not offer food or water * Keep bird in warm, dark, quiet place	

AGENCY VEHICLE CONTACTS

Name	Office Location	Office #
Dan Christensen	NOD BLM / Office in Springfield	541-683-6107
Brenda Matlock	Fleet manager Siuslaw SO & Willamette SO / SIO	541-225-6208 541-852-6988
Caleb Gay	Assistant Fleet Manager / Corvallis	541-750-7030
Ann Rogers	Transportation Assistant / SIO	541-225-6442
Louie DeShazar	Transportation Assistant / SIO	541-224-4943
Bob Barrus	Pacific North West Lab / Corvallis	541-750-7254
Antonia Batha	Hebo	503-392-5115*
Marlene McCormick-lee	Central Coast /Waldport Office	541-563-8415*
Ashley Roseman	Central Coast / ODNRA	541-271-6060*
Jeff Lunsdford	Detroit	503-854-3366*
Louie DeShazar	Sweet Home	541-224-4943
Shannon Anderson	McKenzie River	541-822-3381 209-329-7632
Stacey Snyder	Middle Fork	541-782-5329

*Require dialing 1 from Eugene/Springfield

TOW TRUCKS FOR AGANCY

District	Company	Towing capabilities
NOD BLM Office in Springfield		
NOD BLM Office in Salem		
Siuslaw SO		
Hebo	South County Towing 503-392-3122	LD/ Med Duty
Central Coast/ Waldport Office	Waldport Tire & auto 541-563-3003 AA Rowley's towing 541-265-2322	- 8am- 5pm only light/ med duty - All levels
Central Coast/ ODNRA		
Willamette SO		
Detroit	Randy's Towing Santiam towing & recovery 503-859-5757	- Under 12000 Lb. paved roads and light gravel. No 4X4. Used for repairs/ breakdowns. No heavy recovery. - Towing, MD Wrecker.
Sweet Home	Pop's Towing 541-405-2251	LD/ Med recovery
McKenzie River/ Middle Fork	Alpha Towing 541-556-7525 Ray's Towing 541—342-3344 Puddle Jumper 541-746-5566 A Plus Towing 541-344-4718	- 4X4 recovery. MD towing recovery up to 26,000 GVW - 4X4 recovery. MD towing recovery up to 26,000 GVW - Environmental spill cleanup Heaviest wrecking service. - All Levels
Hebo	South County Towing 503-392-3122	LD / Med Duty
Deschutes NF		

*Require dialing 1 from Eugene/Springfield

TOW TRUCKS FOR NON - AGANCY

District	Auto Repair	Towing
NOD BLM Office in Springfield	Farmers Automotive 541-343-4225	Farmers Automotive 541-343-4225
Siuslaw SO	Trustys Auto	
Willamette SO	Action Automotive 541-686-0191	Dannevik's Towing 541-342-2386
Detroit	Power Auto Group 503-769-7691*	STR Santiam Towing & Recovery 503-854-5757*
Sweet Home	Allstar Auto Repair & Towing 541-367-3233*	Rice Towing 541-367-3727*
McKenzie River	Blue River Service Center 541-822-6024	Blue River Service Center 541-822-6024
Deshutes		Davis Towing 188 W.Sisters Park Dr. 541-549-6811

CHAPTER 80 - FORMS AND MAPS

CONTENTS

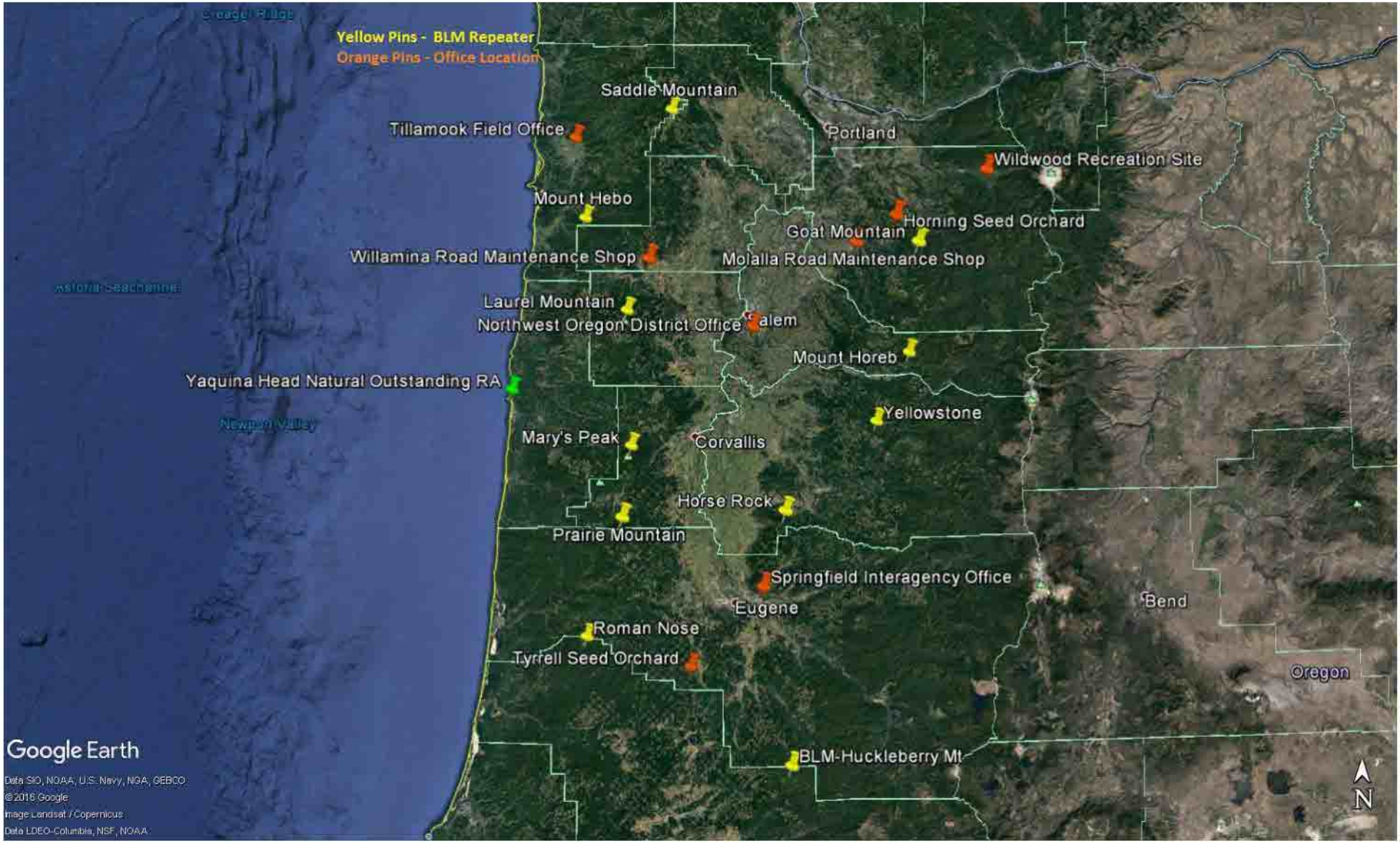
Northwest Oregon District Repeater and Office location map

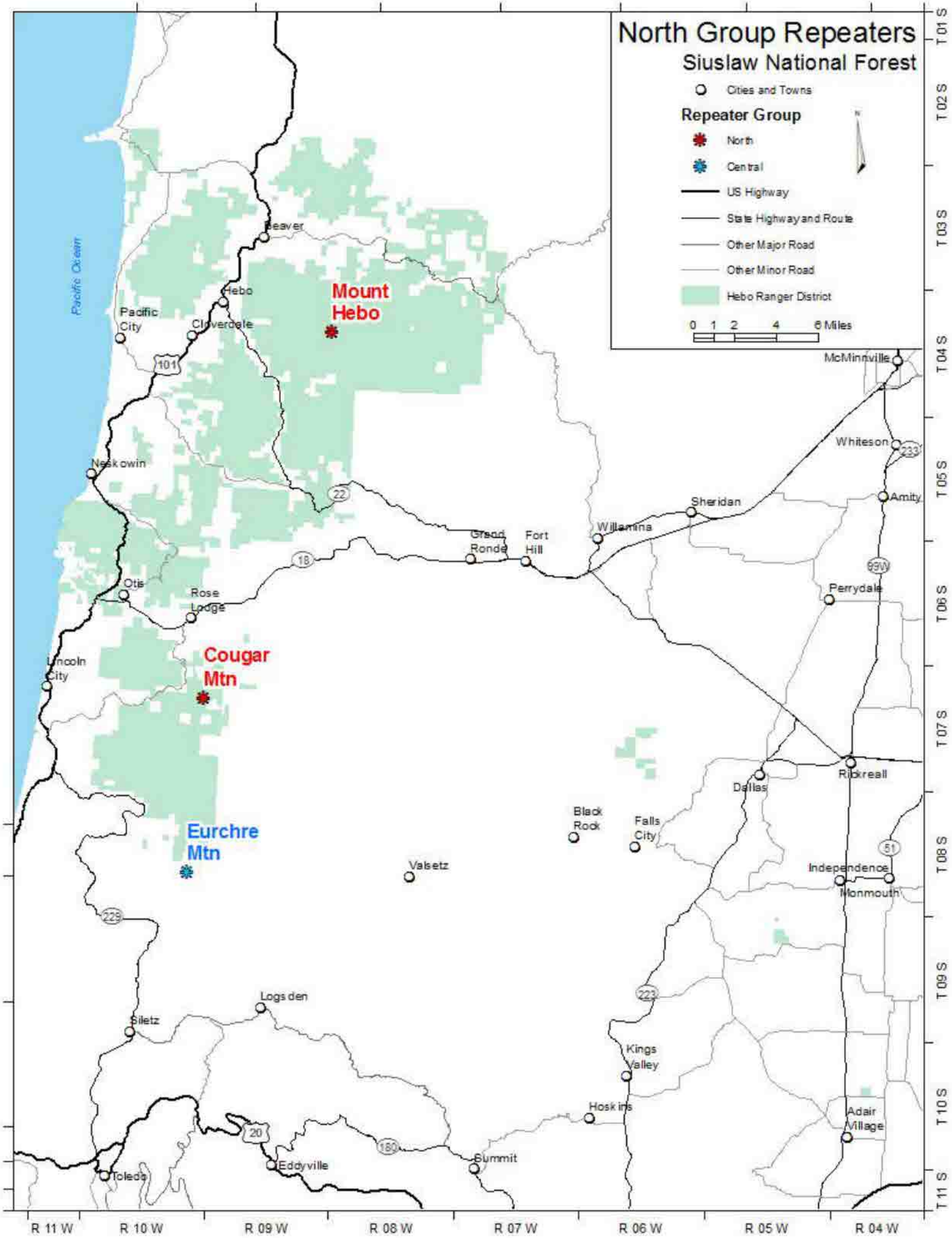
Siuslaw Repeater Map and descriptions

Willamette Repeater Maps

R.A.W.S map

Portland Spot Weather forecast request


Yellow Pins - BLM Repeater
Orange Pins - Office Location
Saddle Mountain
Tillamook Field Office
Portland
Wildwood Recreation Site
Mount Hebo
Horning Seed Orchard
Goat Mountain
Willamina Road Maintenance Shop
Molalla Road Maintenance Shop
Laurel Mountain
Northwest Oregon District Office
Salem
Mount Horeb
Yaquina Head Natural Outstanding RA
Yellowstone
Mary's Peak
Corvallis
Horse Rock
Prairie Mountain
Springfield Interagency Office
Eugene
Bend
Roman Nose
Tyrrell Seed Orchard
Oregon
BLM-Huckleberry Mt
N
Google Earth
Data SIO, NOAA, U.S. Navy, NGA, GEBCO
© 2016 Google
Image Landsat / Copernicus
Data LDEO-Columbia, NSF, NOAA


North Group Repeaters
Siuslaw National Forest
Cities and Towns
Repeater Group
North
Central
US Highway
State Highway and Route
Other Major Road
Other Minor Road
Hebo Ranger District
0 1 2 4 6 Miles
Pacific Ocean
Mount Hebo
Cougar Mtn
Eurchre Mtn
Beaver
Hebo
Pacific City
Cloverdale
Neskowin
Otis
Rose Lodge
Lincoln City
Grand Ronde
Fort Hill
Willamina
Sheridan
Whiteson
Amity
Perrydale
McMinnville
Rickreall
Dallas
Black Rock
Falls City
Valsetz
Independence
Monmouth
Logsden
Siletz
Kings Valley
Hoskins
Adair Village
Summit
Eddyville
Toledo
101
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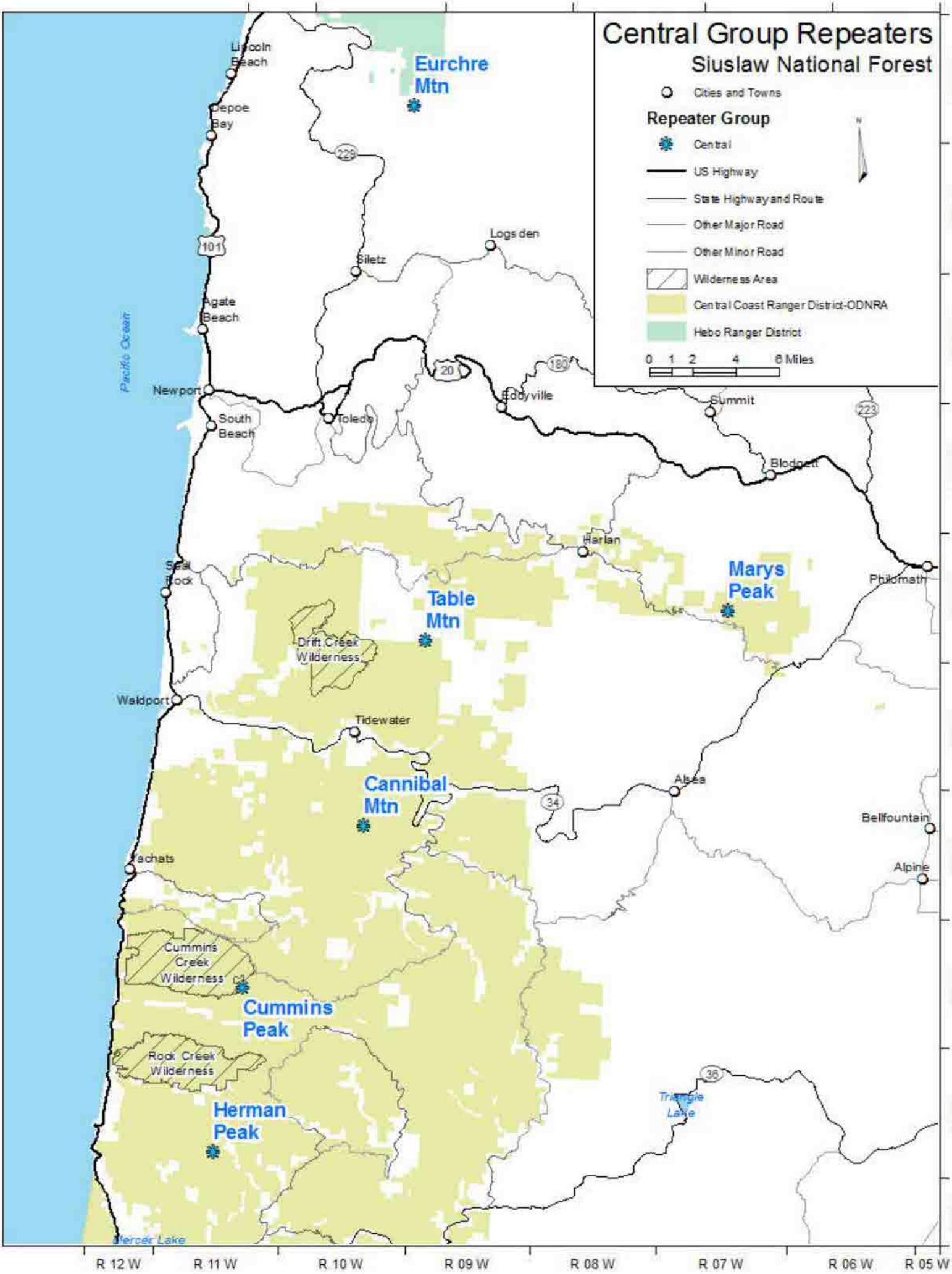
Central Group Repeaters
Siuslaw National Forest
Cities and Towns
Repeater Group
Central
US Highway
State Highway and Route
Other Major Road
Other Minor Road
Wilderness Area
Central Coast Ranger District-ODNRA
Hebo Ranger District
0 1 2 4 6 Miles
Eurchre Mtn
Table Mtn
Marys Peak
Cannibal Mtn
Cummins Peak
Herman Peak
Lincoln Beach
Depoe Bay
Agate Beach
Newport
South Beach
Toledo
Siletz
Logsden
Eddyville
Summit
Blodgett
Harlan
Philomath
Seal Rock
Waldport
Tidewater
Alsea
Bellfountain
Alpine
Yachats
Drift Creek Wilderness
Cummins Creek Wilderness
Rock Creek Wilderness
Pacific Ocean
Mercer Lake
Triangle Lake
101
229
20
180
223
34
36
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T 09 S
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T 11 S
T 12 S
T 13 S
T 14 S
T 15 S
T 16 S
T 17 S
R 12 W
R 11 W
R 10 W
R 09 W
R 08 W
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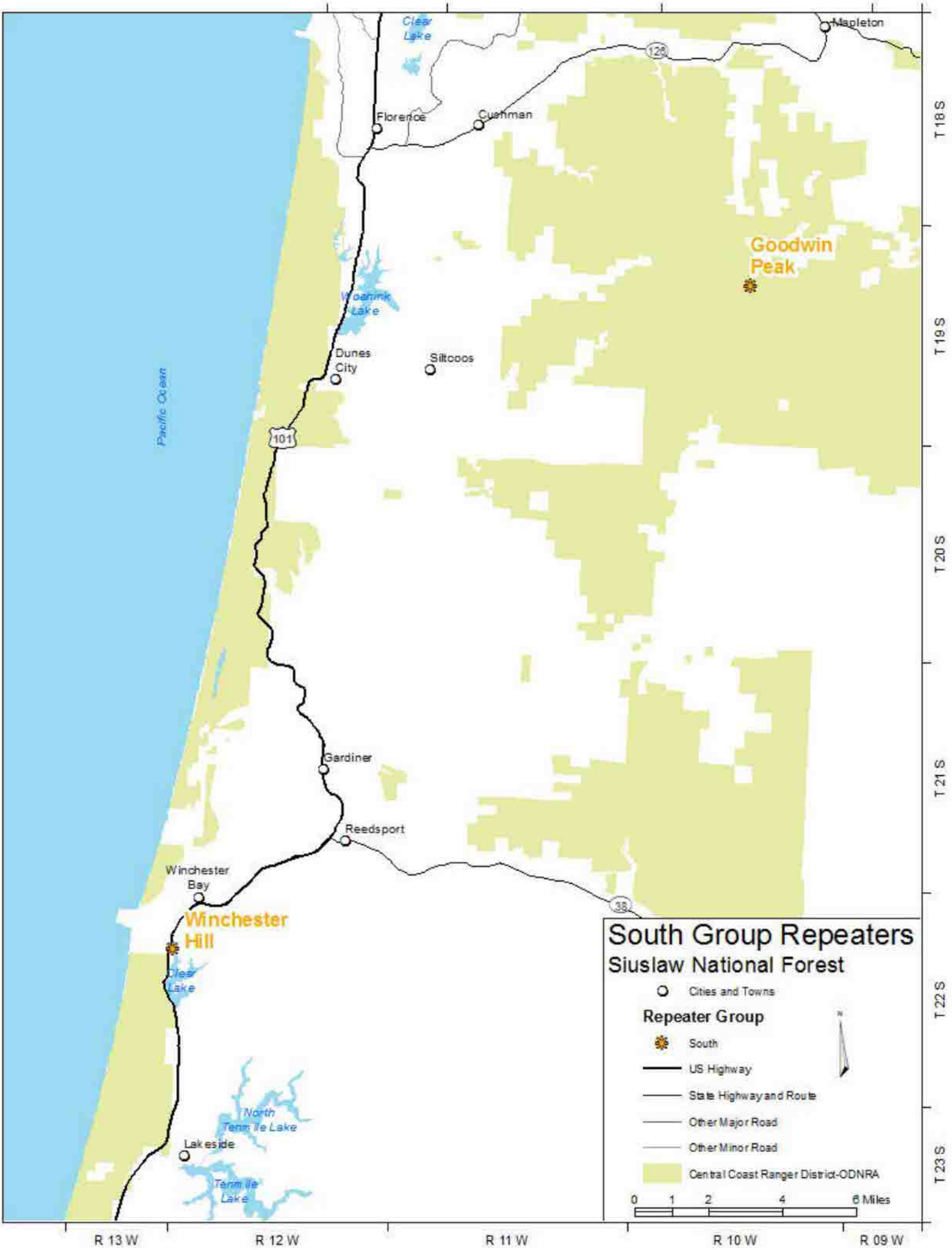
South Group Repeaters
Siuslaw National Forest
Cities and Towns
Repeater Group
South
US Highway
State Highway and Route
Other Major Road
Other Minor Road
Central Coast Ranger District-ODNRA
0 1 2 4 6 Miles
Goodwin Peak
Winchester Hill
Clear Lake
Mapleton
Florence
Cushman
Woahink Lake
Dunes City
Siltcoos
Pacific Ocean
Gardiner
Reedsport
Winchester Bay
North Tenmile Lake
Lakeside
Tenmile Lake
126
101
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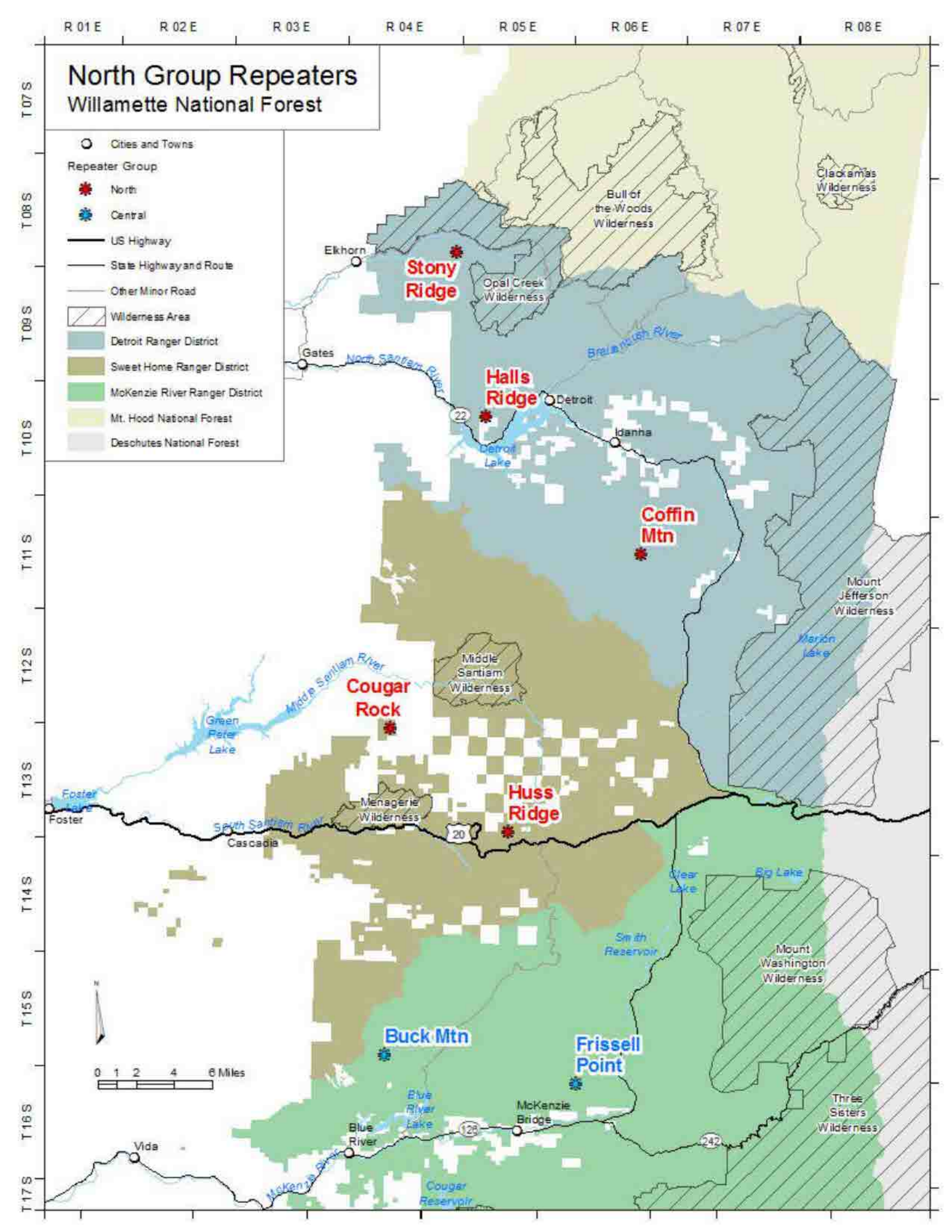
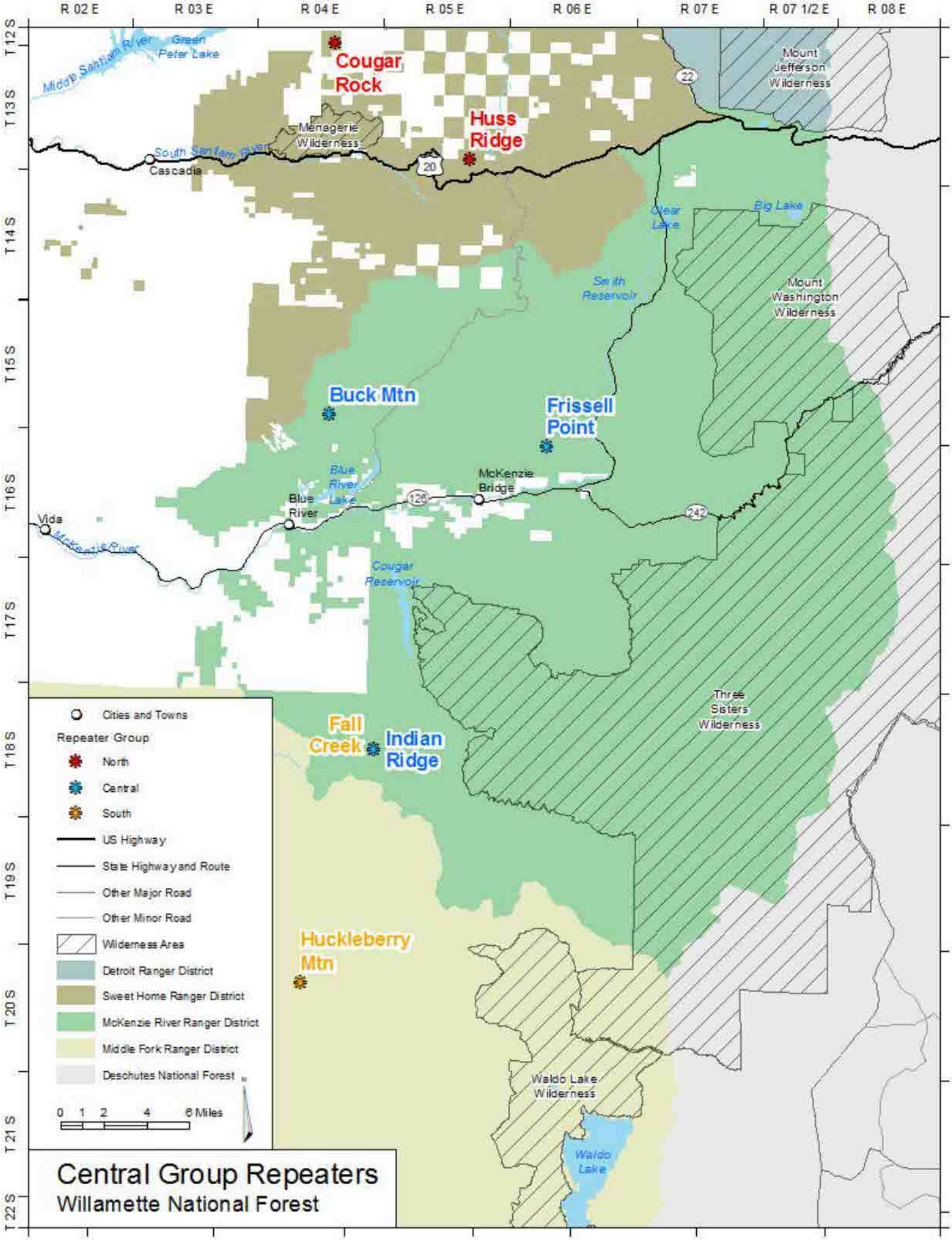

North Group Repeaters
Willamette National Forest
Cities and Towns
Repeater Group
North
Central
US Highway
State Highway and Route
Other Minor Road
Wilderness Area
Detroit Ranger District
Sweet Home Ranger District
McKenzie River Ranger District
Mt. Hood National Forest
Deschutes National Forest
R 01 E
R 02 E
R 03 E
R 04 E
R 05 E
R 06 E
R 07 E
R 08 E
T 07 S
T 08 S
T 09 S
T 10 S
T 11 S
T 12 S
T 13 S
T 14 S
T 15 S
T 16 S
T 17 S
Stony Ridge
Halls Ridge
Coffin Mtn
Cougar Rock
Huss Ridge
Buck Mtn
Frissell Point
Elkhorn
Gates
Detroit
Idanha
Foster
Cascadia
Vida
Blue River
McKenzie Bridge
Bull of the Woods Wilderness
Opal Creek Wilderness
Clackamas Wilderness
Mount Jefferson Wilderness
Middle Santiam Wilderness
Menagerie Wilderness
Mount Washington Wilderness
Three Sisters Wilderness
North Santiam River
Breitenbush River
Detroit Lake
Marion Lake
Middle Santiam River
Green Peter Lake
Foster Lake
South Santiam River
Clear Lake
Big Lake
Smith Reservoir
Blue River Lake
McKenzie River
Cougar Reservoir
22
20
126
242
0 1 2 4 6 Miles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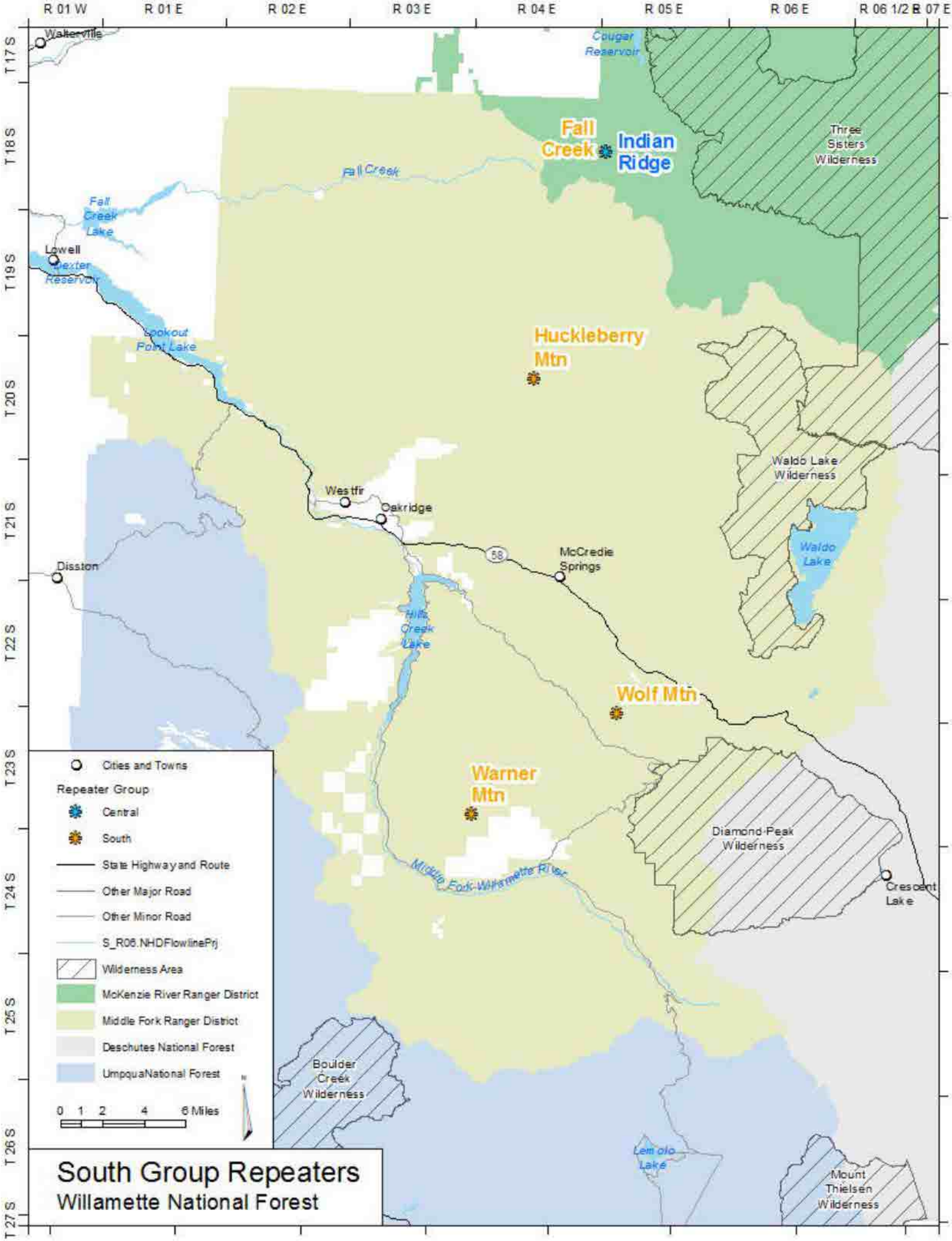
T 16 S
T 17 S
T 18 S
T 19 S
T 20 S
T 21 S
T 22 S
Cougar Rock
Huss Ridge
Buck Mtn
Frissell Point
Fall Creek
Indian Ridge
Huckleberry Mtn
Mount Jefferson Wilderness
Menagerie Wilderness
Mount Washington Wilderness
Three Sisters Wilderness
Waldo Lake Wilderness
Waldo Lake
Big Lake
Clear Lake
Smith Reservoir
Blue River Lake
Cougar Reservoir
Green Peter Lake
Middle Santiam River
South Santiam River
McKenzie River
Cascadia
Vida
Blue River
McKenzie Bridge
22
20
126
242
Cities and Towns
Repeater Group
North
Central
South
US Highway
State Highway and Route
Other Major Road
Other Minor Road
Wilderness Area
Detroit Ranger District
Sweet Home Ranger District
McKenzie River Ranger District
Middle Fork Ranger District
Deschutes National Forest
0 1 2 4 6 Miles
Central Group Repeaters
Willamette National Forest


R 01 W
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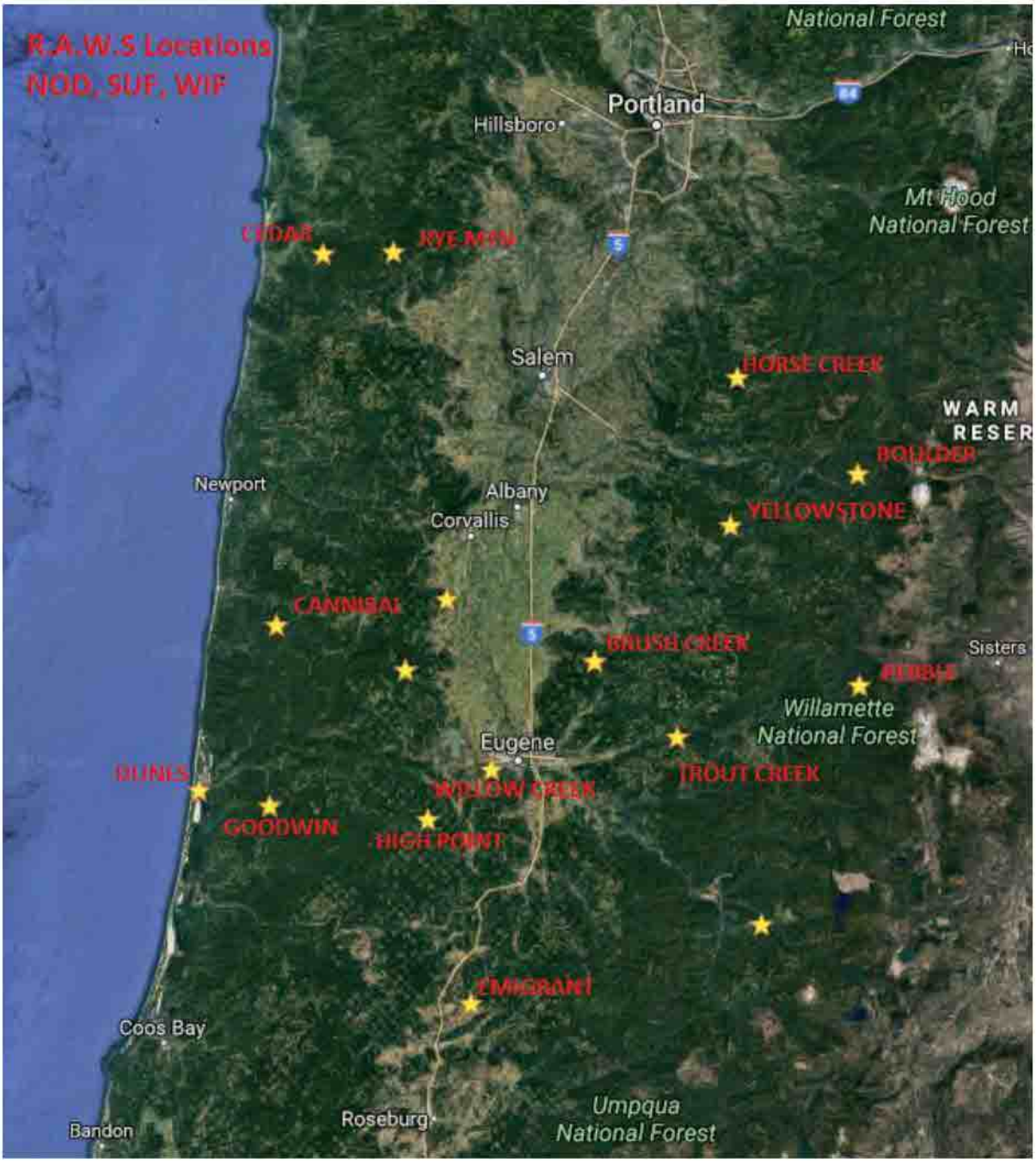
T 20 S
T 21 S
T 22 S
T 23 S
T 24 S
T 25 S
T 26 S
T 27 S
Waterville
Cougar Reservoir
Fall Creek
Indian Ridge
Three Sisters Wilderness
Fall Creek
Fall Creek Lake
Lowell
Dexter Reservoir
Lookout Point Lake
Huckleberry Mtn
Waldo Lake Wilderness
Westfir
Oakridge
58
McCredie Springs
Waldo Lake
Disston
Hills Creek Lake
Wolf Mtn
Warner Mtn
Diamond Peak Wilderness
Middle Fork Willamette River
Crescent Lake
Boulder Creek Wilderness
Lemolo Lake
Mount Thielsen Wilderness
Cities and Towns
Repeater Group
Central
South
State Highway and Route
Other Major Road
Other Minor Road
S_R06.NHDFlowlinePrj
Wilderness Area
McKenzie River Ranger District
Middle Fork Ranger District
Deschutes National Forest
UmpquaNational Forest
0 1 2 4 6 Miles
South Group Repeaters
Willamette National Forest


R.A.W.S Locations
NOD, SUF, WIF
National Forest
Portland
Hillsboro
Mt Hood
National Forest
CEDAR
RYE MTN
Salem
HORSE CREEK
WARM
RESER
BOULDER
Newport
Albany
Corvallis
YELLOWSTONE
CANNIBAL
BRUSH CREEK
Sisters
PEBBLE
Willamette
National Forest
Eugene
DUNES
WILLOW CREEK
TROUT CREEK
GOODWIN
HIGH POINT
EMIGRANT
Coos Bay
Bandon
Roseburg
Umpqua
National Forest

R.A.W.S. locations for NOD, SUF, WIF

RAWS Locations: Includes NOD, SUF, WIF, WVR stations

Station Name	Station ID	Latitude	Longitude
Boulder	351909	44 43 18.84	122 0 11.16
Brush Creek	352553	44 17 3.3	122 50 57.87
Cannibal	351604	44 20 56	123 53 7
Cedar	350215	45 12 42	123 46 19
Dunes	352559	43 57 28	124 7 11
Emigrant	352558	43 28 59.15	122 13 49.08
Fields	352557	43 40 49.90	122 18 7.3
Finley	351813	44 25 11	123 19 49
Goodwin	352545	43 55 41	123 53 25
High Point	352550	43 54 22.71	123 22 46.09
Horse Creek	350727	44 56 28	122 24 1
Pebble	352554	44 14 12.12	121 59 42
Rye Mountain	350505	45 13 0	123 32 0
Trout Creek	352552	44 6 40.10	122 34 38.56
Village Creek	352547	44 15 8.4	123 27 49.87
Willow Creek	352561	44 1 44	123 10 25
Yellowstone	352024	44 36 0	122 25 0

Spot Weather Forecast

Spot Request Contact Info

Project Name	
Requesting Agency	USFS
E-mail Address	eicc.or@gmail.com
Requesting Official	
Phone Number	

Location

Latitude	
Longitude	

Fire Weather Supplemental Information

Drainage	
Size (In Acres)	
Aspect	
Fuel Type	
Sheltering	Full __ Partial __ Unsheltered__

Weather Observations

* Indicates Required Field	WX OB 1	WX OB 2	WX OB 3	WX OB 4	WX OB 5
* Site					
* Date					
* Time					
* Elevation					
Wind Direction					
Wind Speed					
Temp					
Wet Bulb (WB)					
Relative Humidity (RH)					
Dew Point (Td)					
Sky					
Wx (Ex- Rain, Snow)					
Remarks					

Forecast Information

Deliver Forecast	
Date	
Time	

Forecast Starting	
Date	
Time	

Forecast For	
This Afternoon	
Tonight	
Tomorrow	
Tomorrow Night	
Day 2	

Forecast Indices Wanted	
Sky/Weather	
Temperature	
Humidity	
Chance of Wetting Rain	
Rain Fall Amount	
Lightning Activity Level	
Winds (20 Ft.)	
Ridge Top Winds	
Haines Index	
12 Hr. Chance of Precip.	
Haines Index (Mid-Level)	

CHAPTER 90 - OTHER INCIDENT PROCEDURES

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NON-FIRE EMERGENCY OPERATIONS 90-2

Search and Rescue Operations 90-2
Hazardous Materials Operations and Procedures 90-2
EICC On-Call Dispatcher Process 90-5
Incident Contact Listing 90-8

Exhibit 1 - 2018 NW Oregon BLM & Siuslaw, Willamette NF Search and Rescue Plan, Reviewed 2019

Exhibit 2 - 2018 Northwest Oregon Environmental Contingency Plan for Emergency Preparedness and Response to Oil and Hazardous Material Incidents Reviewed 2020

Exhibit 3 - 2016 Siuslaw NF, Hazardous Materials Spill control and Emergency Response Plan, Reviewed 2019

Exhibit 4 - 2018 Willamette Hazardous Materials Spill Control and Emergency Response Plan, Reviewed in 2019

Exhibit 5 - 2019 Siuslaw Employee Field Communication Safety Plan

Exhibit 6 - 2020 Northwest Oregon District Field Operations Guide

Exhibit 7 - 2020 Aviation Mishap Response Guide and Checklist

Exhibit 8 - 2020 Willamette All Risk Response Contacts

Exhibit 9 - EPA List of Lists: Consolidated List of Chemicals Subject to the Emergency Planning and Community Right- To-Know Act (EPCRA), Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) and Section 112(r) of the Clean Air Act

Exhibit 10 - 2019 Fish and Wildlife Refuge Plans

NON-FIRE EMERGENCY OPERATIONS

SEARCH AND RESCUE OPERATIONS

In each county on the Northwest BLM District, Siuslaw National Forest and Willamette National Forest, the Sheriff has the primary responsibility for search and rescue operations. The Forest Service and the BLM cooperate with and actively support the Sheriff's operations. Both agencies recognize an obligation to the public in cases where immediate action is necessary to provide aid to people who are lost, critically ill, or injured.

In those cases where immediate action is essential, the Forest Service and the BLM will initiate search and rescue operations pending Sheriff's Office involvement. Such operations are to be considered as interim support actions and should end as soon as the Sheriff assumes command.

In all instances an organization following ICS should be developed. The size of the organization will be determined by the Sheriff based on the complexity of the search and rescue operation and agency involvement.

For aviation related accidents, the Search and Rescue Coordinator and Eugene Dispatch will refer to the Exhibit 8 - Interagency Aviation Mishap Response Guide and Checklist.

For wildland Search and Rescue incidents the Search and Rescue Coordinator and Eugene Dispatch will refer to Exhibit 1 - Northwest Oregon BLM, Siuslaw and Willamette National Forest 2019 Search and Rescue Plan.

HAZARDOUS MATERIAL PROCEDURES

The purpose of established procedures for hazardous material incidents are to ensure employee, public safety and health; protection of natural resources; compliance with Federal and State laws and regulations; minimize future risk, costs, and liabilities; and to assist Federal Law Enforcement in prosecution of responsible parties.

Eugene Dispatch is responsible for communication between field personnel, office personnel, and other jurisdictions when a hazardous material incident is reported. The detailed listing of duties and the hazardous material incident procedures can be found in Exhibit 2– 2018 Willamette National Forest Hazardous Materials Spill Control and Emergency Response Plan, Exhibit 4 – 2018 Northwest Oregon Environmental Contingency Plan for Emergency Preparedness and Response to Oil and Hazardous Material Incidents and Exhibit 3– 2016 Siuslaw NF, Hazardous Materials Spill control and Emergency Response Plan.

Willamette NF Hazardous Material Contingency Dispatch Procedures

The purpose of established procedures for hazardous material incidents are to ensure employee, public safety and health; protection of natural resources; compliance with Federal and State laws and regulations; minimize future risk, costs, and liabilities; and to assist Forest Law Enforcement in prosecution of responsible parties.
Eugene Dispatch is not in a decision-making role. However, Eugene Dispatch will be the principle point-of-contact for notification both internally and externally. Depending on the extent of the incident, Eugene Dispatch will inform the appropriate County, State and Federal Agencies and Forest personnel.

Report all known or suspected hazardous material spills or discoveries, on public lands to the designated HAZMAT Spill Coordinator for the jurisdictional agency. See Appendices

1. Advise reporting party to remain at a safe distance and location, up-wind of the incident and request a call-back telephone number. Call 911 if the discovery is a possible bomb or explosive device. Contact Thomas Barrs, Law Enforcement Patrol Captain. For possible bomb or explosives discovery, public or employee contact should vacate the general area to a known safe location, and wait for law enforcement to arrive.
2. If the spill or discovery is not on the Willamette or Siuslaw National Forests contact the Agency or property owner who has jurisdiction for those lands. A follow-up phone call is needed to advise any Federal Agency when the spill is near or adjacent to public lands.
3. If the incident is on the Willamette National Forest, utilize information provided by the person reporting the incident to start an incident in Wildcad. Log all information and documentation.
4. Based on information provided, assess the imminent threat to communities, wildlife, highways, streams, or other items. If in doubt assume the worst.
5. Report the incident to Fred Levitan, Forest Hazmat/Spill Coordinator and the appropriate District Hazmat/ Spill Coordinator.
6. Document everything related to the incident and be prepared for additional instructions from the District Spill Coordinator (DSC).
7. If contact cannot be made with the above individuals, the dispatcher will advise the floor coordinator of the situation and receive instructions from him/her.
8. If the DSC indicates the nature of the spill is serious or needs immediate attention and cleanup, notify AQM Contracting Officer—Sheila Finney, immediately. Advise of need for possible contractual obligations for cleanup operations and to contact appropriate Regional Office personnel.
9. Request an investigator from Thomas Barrs, Law Enforcement Patrol Captain.
10. Report any major spill incident to the **Oregon Emergency Response System** (OERS): **1-800-452-0311: and to National Response Center 1-800-424-8802.**
11. The dispatch center needs to prepare for after hours communication if it appears the incident will run into the evening hours. Coordinate with Floor Coordinator.
12. Continue to monitor, provide communications support, and document information.

Northwest Oregon District Hazardous Material Contingency Dispatch Procedures

The purpose of established procedures for hazardous material incidents are to ensure employee, public safety and health; protection of natural resources; compliance with Federal and State laws and regulations; minimize future risk, costs, and liabilities; and to assist Law Enforcement in prosecution of responsible parties.

Eugene Dispatch will notify the District Hazardous Materials Coordinator or his/her acting for all known or suspected hazardous material spills or discoveries on public lands administered by the Northwest Oregon District.

PRIMARY CONTACT	OFFICE	CELLPHONE
Todd Bush	541-683-6443	(b)(6)
Randall Rishe	541-683-6379	

ALTERNATE CONTACTS

The Hazmat Coordinator or alternate will assume the role of Incident Commander.

The Hazmat Coordinator will make notifications required, which may include, but is not limited to the following:

- District Manger/Associate District Manager
- Law Enforcement
- Safety Officer
- ADM – Support Services
- Appropriate Field Office Manager
- Emergency Response Contractor
- Oregon State Office Hazmat Program Lead
- Oregon Emergency Response System/National Response Center

For hazardous material spills or discoveries reported to Eugene Dispatch by the public or agency employee:

1. Advise reporting party to remain at a safe location up-wind of the incident and request a call-back telephone number. Call 911 if the discovery is a possible bomb or explosive device. Inform the Hazmat Coordinator of actions taken and request if District Law Enforcement needs contacted. For possible bomb or explosives discovery, public or employee contact should vacate the general area to a known safe location, and wait for law enforcement to arrive.
2. If the spill or discovery is not on the Northwest Oregon District contact Hazmat Coordinator so a follow-up phone call can be made to advise if spill is near or adjacent to public lands.
3. If the incident is on the Northwest Oregon District utilize information provided by the person reporting the incident to complete a dispatcher incident action record with pertinent information regarding the incident.
4. Based on information provided assess the imminent threat to communities, wildlife, highways, streams, or other items. If in doubt assume the worst.
5. Document everything related to the incident and be prepared to respond to additional instructions from the Hazmat Coordinator.
6. If contact cannot be made with the Hazmat Coordinator or alternates, the dispatcher will advise the floor coordinator of the situation and receive instructions from the floor coordinator.

7. The dispatch center needs to prepare for after hours communication if it appears the incident will run into the evening hours. Coordinate with Floor Coordinator.
8. Continue to monitor, provide communications support, and document information.

EICC ON-CALL DISPATCHER PROCESS

After Hours Contact for All Risk Incidents - Northwest Oregon District, Siuslaw National Forest and Willamette National Forest.

Authority:

The Northwest Oregon Interagency Fire Management Fire Staff or his/her deputies is responsible for providing an after hours contact person also known as the On-Call Dispatcher (OCD) for all risk incidents occurring on or relating to the Northwest Oregon District, Siuslaw National Forest and Willamette National Forest.

The OCD will have the authority to make decisions within the framework outlined in the BLM and Forest Service manuals, guides, and handbooks including but not limited to:

The National, Northwest Area, and local (Eugene Interagency Communications Center) Mobilization Plans, Interagency Standards for Fire and Fire Aviation Operations, Willamette NF Search and Rescue Plan, Willamette NF Hazardous Spill Control and Emergency Response Plan, and the Northwest Oregon District Office Field Emergency Packet.

OCD Contact List and Scheduling:

- The Eugene Interagency Communications Center (EICC) Center Manager is responsible for coordinating OCD scheduling.
- The assigned OCD will be on call whenever EICC is not staffed.
- The OCD may be contacted via the after hours radio service, MetCom (Marion Area Multi-Agency Emergency Communication Center) either via radio or phone at 541-225-6400 or 541-623-0563.
- An OCD contact list will be maintained by the EICC staff. The contact list will include names, home phone numbers, and cell phone numbers. The OCD contact list will be provided to MetCom. In the event that the scheduled OCD cannot be contacted – the OCD contact list will be used to contact another OCD.
- OCDs will consist of the Eugene Interagency Communication Center staff: Erin Ely, Kim Mushrush, Shalyn Whitson, Jaime Garcia, Trisha Wardlow, Tracey Pickering, Dustin Fisher. OCDs may be added or removed as needed.
- The current OCD is responsible for arranging a replacement OCD for their scheduled period if they are unavailable due to personal or work related reasons. The Center Manager and/or Assistant Center Managers will be notified of changes and will update the OCD schedule.
- The current OCD is responsible for arranging intermittent replacements and reporting changes to MetCom.

Responsibilities:

- The OCD's primary responsibility is to inform the appropriate contact person of an event or incident at the local level so that action may be initiated.
- The OCD is also responsible for informing appropriate staff of incidents occurring within the area.
- The local level Duty Officer or Coordinator (SAR, Haz-Mat etc.) is responsible for informing the line officer and staff at the local unit.
- The EICC staff will provide the name of the current OCD to MetCom before going out of service and provide the information as an entry in both the Forest and BLM In/Out Board programs.
- The EICC lead dispatcher is responsible for briefing the OCD before going out of service. The current OCD is responsible for briefing the EICC lead dispatcher when EIC resumes service. Briefings should include the following:

  a. Operations and information needing follow-up at a later time.
  b. Incidents that occurred which are significant in nature.
  c. Significant mobilization of personnel, equipment, or aircraft, both within and outside the local area.
  d. Status of available personnel for out of area dispatch.
  e. Current district or zone Duty Officer contacts.
  f. Status of National and Area Incident Management Teams and buying teams.
  g. Aircraft activities other than normally scheduled flights.
  h. Significant weather issues that may impact fire activity or employee safety.

Incident Contact Listing

	Incident Type				
Contact	Wildland Fire On Forest	Wildland Fire Off Forest Mobilization of Resources to Off Forest Incidents	Search & Rescue Public / BLM/ FS Missing Employee	Death/ Serious Injury / BLM/FS Employee	Death or Serious Injury on Federal lands (Public)
Documented Process is Identified	Mob Guide & Standard Ops Guide	Mob Guide & Standard Ops Guide	Forest S&R Plan; NOD Emergency Plan; FS (Draft) Emergency Plan	NOD Emergency Plan; FS (Draft) Emergency Plan	Forest S&R Plan; NOD Emergency Plan; FS (Draft) Emergency Plan
WIF Forest Sup. DM or Acting or Other Staff Officer	*	*	* / X	C / X	C
NWOIFM Staff/ Deputy or UAO	C	C	C / X	X / X	C
WIF Rec. Staff	*	*	X	*	*
WIF-BLM LE	C	*	X	X	X
WIF-BLM & Unit Hazmat Coordinator	*	*	*	*	*
EIC Scheduled Dispatch Lead & CM or Acting	X	C	C / X	X / X	C
Appropriate 911 Center	*	*	*	C / X	C
County Sheriff	*	*	X	C	C
Unit S&R Coordinator	*	*	X / X	C / X	*
WIF PAO	C	*	X / X	X / X	X
Fire Duty Officer	X	X	X	X	X
Appropriate Agency Duty Officer	X	X	* / X	*	*
Employee Supervisor or Acting	*	*	* / X	X / X	*
Safety Officer	*	*	*	X	*

X = Indicates call Direct C = Indicates Call when needed
*** = Contact is made thru other Staff/Line Officer's if applicable**

Incident Contact Listing

	Incident Type				
Contact	**Hazmat** Private / BLM or FS	**Auto Accident on Public Roadway**	**Road Right Away Issue Public Safety**	**Recreational Issues/ Disruptive Behavior/ Vandalism**	**Over Due Employee within 10 minutes**
Documented Process is Identified	**WIF Hazmat Plan or NOD Emergency Plan**	Public / Employee			**NOD Emergency Plan & FS (Draft) Emergency Plan** **Check-In/Out Procedures**
WIF Forest Sup. DM or Acting or Other Staff Officer	*	*	*	*	*
NWOIFM Staff/ Deputy or UAO	C	*	*	*	*
WIF Rec. Staff	*	*	*	C	*
WIF-BLM LE	C / X	X	X	X	*
WIF/BLM & Unit Hazmat Coordinator	X	C	*	*	*
EIC Scheduled Dispatch Lead & CM or Acting	C	C	C	C	C
Appropriate 911 Center	*	X	*	*	*
County Sheriff	*	*	*	C	*
Unit S&R Coordinator	*	*	*	*	*
WIF PAO	*	C	*	*	*
Fire Duty Officer	C	C	X	X	*
Appropriate Agency Duty Officer	*	*	*	*	C
Employee Supervisor or Acting	*	*	*	*	X
Safety Officer	*	*	*	X	*

X = Indicates call Direct C = Indicates Call when needed
*** = Contact is made thru other Staff/Line Officer's if applicable**

Incident Contact Listing

	Incident Type				
Contact	Wildland Fire On Forest	Wildland Fire Off Forest Mobilization of Resources to Off Forest Incidents	Search & Rescue Public / BLM/ FS Missing Employee	Death/ Serious Injury / BLM/FS Employee	Death or Serious Injury on Federal lands (Public)
Documented Process is Identified	Mob Guide & Standard Ops Guide	Mob Guide & Standard Ops Guide	Forest S&R Plan; BLM Emergency Plan; FS (Draft) Emergency Plan	BLM Emergency Plan; FS (Draft) Emergency Plan	Forest S&R Plan; BLM Emergency Plan; FS (Draft) Emergency Plan
SUF Forest Sup. DM or Acting or Other Staff Officer	*	*	* / X	C / X	C
NWOIFM Staff/ Deputy or UAO	C	C	C / X	X / X	C
SUF Rec. Staff	*	*	X	*	*
SUF-BLM LE	C	*	X	X	X
SUF-BLM & Unit Hazmat Coordinator	*	*	*	*	*
EIC Scheduled Dispatch Lead & CM or Acting	X	C	C / X	X / X	C
Appropriate 911 Center	*	*	*	C / X	C
County Sheriff	*	*	X	C	C
Unit S&R Coordinator	*	*	X / X	C / X	*
SUF PAO	C	*	X / X	X / X	X
Fire Duty Officer	X	X	X	X	X
Appropriate Agency Duty Officer	X	X	* / X	*	*
Employee Supervisor or Acting	*	*	* / X	X / X	*
Safety Officer	*	*	*	X	*

X = Indicates call Direct C = Indicates Call when needed
*** = Contact is made thru other Staff/Line Officer's if applicable**

NORTHWEST OREGON BLM, & SIUSLAW,

WILLAMETTE NATIONAL FOREST

SEARCH AND RESCUE PLAN

2018

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AUTHORITY AND RESPONSIBILITY

The County Sheriff (CSO) is responsible for search and rescue (SAR) operations on Forest Service (FS) and Bureau of Land Management (BLM) administered lands. FS and BLM employees may provide assistance when requested by the Sheriff's SAR Team with approval of the District Ranger or Field Manager. FS and BLM are authorized to take the temporary lead in the initial stage of a SAR operation only in situations where personnel from the Sheriff's SAR team are not immediately available.

PLAN OF ACTION

The Agency employee or LEO receiving the first report of lost or injured persons will gather all pertinent information (**Appendix A**: **County Sheriff's Office Search and Rescue Questionnaire**). **Ask the reporting party and witnesses to remain until interviewed by the Sheriff or Deputy.**

1. The employee/LEO will contact Eugene Interagency Dispatch (EICC) and remain available until released. EICC will contact the District Search and Rescue (SAR) Coordinator and notify County Sheriff to pass on all available information. If the first contact is made by the Sheriff's Office to EICC, EICC will contact the appropriate District SAR Coordinator, or designee.

2. The District SAR Coordinator or designee will notify the District Ranger or Field Manager. If the SAR Coordinator cannot be reached, EICC will contact the District Ranger or Field Manager. EICC will notify Agency Law Enforcement.

3. The District SAR Coordinator will be responsible for District activities and remain available throughout the operation, or until an Incident Commander is identified by the District Ranger, Field Manager, or District Manager. In order to operate at maximum effectiveness, the number of people appointed as alternate SAR Coordinators will be kept to a minimum.

4. Initial search and rescue efforts, if requested by the Sheriff, will be planned and directed by the District SAR Coordinator. Initial search and rescue efforts may include mobilizing local search teams, issuing equipment, maps, instructions, first aid, etc.

5. At the Sheriff's request, and with the District Ranger, or Field Manager's approval, personnel will be dispatched as the situation dictates.

6. **(FS ONLY)** In case of aircraft accidents or operations, notify EICC, who will notify the Forest Aviation Officer. All Forest Service aviation coordination and communications will be through EICC.

7. EICC will maintain a log of all search and rescue related dispatches, communications, and actions. A record will be kept of the names of persons involved, including representatives of other agencies, all aircraft identification numbers and pilot's name.

8. When the Sheriff's office assumes responsibility, the District SAR Coordinator should provide a full update and identify all support needs. If the Sheriff requests assistance of the Forest Service or BLM, it will be done through the District SAR Coordinator. Requests for use of aircraft in the wilderness will be made through EICC.

9. If requested by the Forest Supervisor, the District SAR Coordinator will submit a report of the search and rescue operation. The Forest Supervisor may also request a Law Enforcement report from LE&I if available.

10. Public Release of Information. No personnel are authorized to provide any information pertaining to a search and/or rescue to the press, radio, TV, or next of kin. This is strictly the responsibility of the County Sheriff involved. The Sheriff may request Agency Public Affairs Officer to issue releases. Personnel involved in an operation should keep the District Ranger, Field Manager and the SAR Coordinator informed of progress and developments.

11. The County Sheriff will contact EICC when the operation is completed, or when activities are halted. Whenever possible, advance notice of motorized equipment use should be given when an activity is planned to resume at a later time or date.

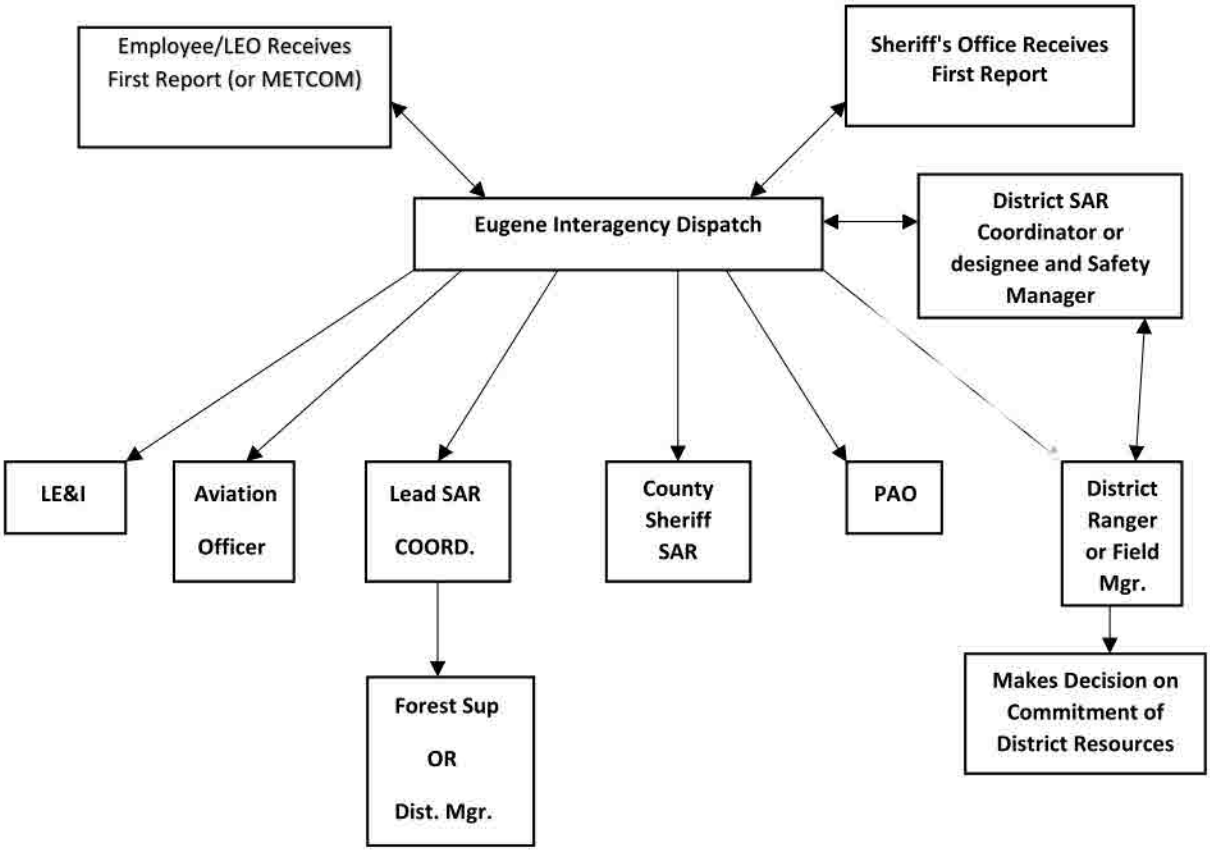
Notification and Communication **Exhibit 1**

This communication flowchart is applicable to all incidents, including search and rescue, and deceased subject location and recovery.

* Always contact Eugene Interagency Dispatch regardless of the time of day.

When Eugene Dispatch receives a SAR Notification:

- Find out who made the initial notification (name, position, how they were contacted & by whom – e.g. the reporting party).
- Contact County Sheriff's Search and Rescue and District Search and Rescue Coordinator or designee. Find out if County Sheriff has been contacted, and by whom.
- Ensure County Sheriff SAR Coordinator and reporting parties get connected.
- Contact neighboring interagency dispatch office if within 5 miles of the border.
- Eugene Dispatch will contact the District Ranger or Field Manager if they are unable to contact the District SAR Coordinator or designee.



SUPPORT OF COUNTY SHERIFF OPERATIONS

The Forest Service, or BLM may provide, through the District SAR coordinator or appointed liaison, when requested by the Sheriff:

1. A person to guide Sheriff's Office personnel to the scene of the emergency.

2. Drivers and vehicles for road searches or transportation of equipment.

3. Maps, aerial photos, and advice on travel routes and area conditions, particularly in wilderness settings.

4. Personnel with radios to assist in communications.

5. Aircraft, when available, for operations in and adjacent to the National Forest only when ground forces will not suffice and other aircraft are unavailable.

(FS ONLY) Any Forest Service aircraft dispatched will first be approved by the Forest Aviation Officer. In extremely urgent cases (life threatening), EICC is authorized to dispatch aircraft without previous clearance. The urgency of the need will be determined by the Sheriff. **Do not dispatch aircraft without Sheriff's request**.

AIRCRAFT AND OTHER MOTORIZED EQUIPMENT IN WILDERNESS AREAS

The policy for use of aircraft or other motorized equipment in wilderness is found in FSM 2326.11: "Approve the use of motorized equipment, aircraft, or mechanical transport by other government agencies in National Forest wilderness in the same manner and under the same conditions stipulated for Forest Service use (sec. 2326.1)." Section 2326.1 states in part, "Emergencies where the situation involves an inescapable urgency and temporary need for speed beyond that available by primitive means. Categories include fire suppression, health and safety, law enforcement involving serious crime or fugitive pursuit, removal of deceased persons, and aircraft investigations." The use of all motorized equipment, including aircraft, will be approved by a responsible official.

Protocol for use of mechanized and motorized equipment in wilderness normally requires prior approval. In emergency situations, the OSSA MOU (Appendix B) will be invoked to use mechanized and motorized use in wilderness but close coordination is required between County SAR Coordinators and USFS line officers. Each request is considered on a case-by-case basis. To approve use of motorized or mechanized use in wilderness, the following information is needed:

- Location of incident
- Condition of individual/party
- Nature of request and any information which aides in assessing urgency of situation

No Forest Service (contracted or Forest Service owned) helicopter use will occur without the prior approval of the Forest Aviation Officer through EICC. **Aircraft fly over will be kept to the absolute minimum necessary in the judgment of the Sheriff** (unless conditions warrant invoking the OSSA MOU).

CRITERIA FOR USE OF AIRCRAFT

1. Impending weather conditions are likely to significantly reduce the victim's chances of survival or jeopardize the safety of the rescue party, and aircraft use
2. Aircraft is absolutely necessary to accomplish the operation.
3. Flyovers to accomplish substantially more than ground search to assure the survival of the victim.
4. Available information about the victim and the conditions for ground rescue indicate that the victim's life is at stake or that substantial trauma is likely.

No aircraft landings will occur in the wilderness without the advance approval of the Forest Supervisor unless deemed necessary by the County Sheriff SAR Coordinator under the OSSA MOU. If the Forest Supervisor is unavailable, the following people (priority order) may make the approval: Deputy Forest Supervisor or District Ranger. This request will be made through EICC.

A representative of the Sheriff may be on board for search and rescue flights. Radio communication will be maintained between the Sheriff, EICC, and the aircraft on all search and rescue flights.
Coordinate with Sheriff's Office on preference of aircraft. Aircraft assets are available through the Oregon Office of Emergency Management (O.E.M.).

AIRCRAFT SEARCH AND RESCUE OPERATIONS IN THE WILDERNESS

Search and Rescue Coordinators and EICC should refer to Interagency Aviation Mishap response Guide and Checklist.

Fatalities

In all cases of fatal accidents, the County Medical Examiner or Deputy Medical Examiner must give permission to move the body. The Sheriff will usually act as the Medical Examiner's representative. Do not move a body without authorization, except when loss of the body is imminent; i.e. rising river waters, avalanche, etc.

Aircraft Mishaps

Notify EICC and the Forest Aviation Officer immediately in the event of an aircraft mishap. Action will be taken based on guidance set forth in FSM 5700 and the Interagency Aviation Mishap Response Guide and Checklist. Do not move any bodies or touch any part of the aircraft until cleared by the County Medical Examiner or the Deputy Medical Examiner, the State Aeronautics Board, the Federal Aviation Administration, or the military service involved.

PHONE CONTACT LIST

COUNTY SHERIFF SEARCH AND RESCUE CONTACTS

BENTON COUNTY

Non-Emergency-(24 hour)	541-766-6911
Emergency Program Manager– Kevin Higgins	541-766-6865

CLACKAMAS COUNTY

Emergency	(call 1st for SAR)	503-655-8211
SAR Coordinator -	Sgt. Sean Collinson	503-655-8218 (main switchboard)
		(b)(6) (cell)
		503-722-6778 (office)

CLATSOP COUNTY

Office	503-325-8635
	503-325-8675 (fax)

COOS COUNTY

Deputy Tony Watson	541-396-7845
	(b)(6) (cell)
	541-396-1025 (fax)

DESCHUTES COUNTY

Non-Emergency		541-693-6911
SAR Coordinator -	Sgt. Scott Shelton	541-388-6502 (office)
		(b)(6) (cell phone)
Operation Mgr. –	Dep. Rhett Hemphille	541-388-6501 (office)
		(b)(6) (cell phone)

DOUGLAS COUNTY

Emergency		541-440-4471 (Primary)
SAR Coordinator -	Wayne Stinson	541-440-4448 (office)

KLAMATH COUNTY

Emergency – (24 hour)		541-884-6849 EXT. 4
Klamath County Sheriff's Office		541-883-5130 (switchboard)
SAR Coordinator -	Officer Bryson	
		541-883-5130 (main switchboard)
SAR Coordination (Active Operations only)		541-883-5123
Volunteer and Search Briefings line		

LANE COUNTY

Emergency		541-682-4141 (direct to dispatch)
SAR Coordinator -	Tim Chase	541-682-8560 (desk phone)
		(b)(6) (cell phone)

LINCOLN COUNTY

Office	541-265-4277
	541-265-5045 (fax)
Sgt. Derek Etheridge	541-265-0686

LINN COUNTY

Emergency		541-967-4333
Non-Emergency (business)		541-967-3911
SAR Coordinator –	Joe Larsen	541-812-2272
		541-967-3911 (main-line)
		(b)(6) (cell phone)

MARION COUNTY

Emergency		503-585-8910
Non-Emergency		503-588-5032
SAR Coordinator –	Sgt. Shane Burnham	503-588-5094 (office)
	Primary contact	(b)(6) (cell)
	Dep. Dave Zahn	(work cell)
	Secondary contact	(personal cell)

MULTNOMAH COUNTY

Office	503-988-4300
	503-988-4316 (fax)
Sgt. Mark Herron	503-988-6788

POLK COUNTY

Office	503-623-9251
	503-623-2060 (fax)
Sgt. Richard Bittick	503-623-9254

TILLAMOOK COUNTY

Office	503-815-3330
	503-815-3399 (fax)
SAR Coordinator Bill Cloud	503-815-3352

WASHINGTON COUNTY

Office	503-846-2700
	503-846-2719 (fax)

YAMHILL COUNTY

Office	503-434-7506
	503-472-5330 (fax)

WILLAMETTE NATIONAL FOREST	OFFICE	RESIDENCE
Forest SAR Coordinator/Safety Manager Daniel Preston	541-225-6340	(b)(6) (b)(6)
Forest Supervisor Tracy Beck	541-225-6312	(b)(6)
Deputy Forest Supervisor Holly Jewkes	541-225-6311	
Forest Aviation Officer Justin Vernon	503-668-1758	
Eugene Dispatch Center Manager Sherry Kessel	541-225-6404 541-225-6400	
PATROL CAPTAIN Oliver Grover (Acting)	541-225-6489	(
LEO Dispatching (METCOM)	503-982-2340	Non-Emergency
Eugene Interagency Communications Center	541-225-6400	

RANGER DISTRICT SAR COORDINATORS	OFFICE	RESIDENCE
Detroit Ranger District	503-854-3366	
Brad Peterson	503-854-3894	(b)(6)
Regan Eivers – LEO	503-854-4360	(b)(6) (b)(6)
Sweet Home Ranger District	541-367-5168	
Jared Richey	541-367-3492	(b)(6)
Regan Eivers – LEO	541-367-3811	(b)(6) (b)(6)
McKenzie River Ranger District	541-822-3381	
Dirk Rogers –	541-822-7247	(b)(6) (b)(6)

Shane Kamrath—	541-822-7233 (b)(6)
	(b)(6)
Chris Kuykendall – LEO	541-822-7270 (b)(6)
Middle Fork Ranger District	541-782-2283
Greg Hotujec—	541-782-5219 (b)(6)
Kurt Speerbrecher – LEO	541-782-5212 (b)(6)
Steve Tchalemian—LEO	541-782-5231

SIUSLAW NATIONAL FOREST	OFFICE	RESIDENCE
Forest Supervisor Robert Sanchez	541-750-7008	(b)(6)
Forest SAR Coordinator/Forest Safety Manager Don Andreasen	541-563-8430	
	(b)(6)	
Forest Aviation Officer Justin Vernon	503-668-1758	(b)(6)
Eugene Dispatch Center Manager Sherry Kessel	541-225-6404 541-225-6400	(b)(6)
Patrol Captain Oliver Grover (Acting)	541-225-6489 (	
LEO Dispatching (METCOM)	503-982-2340 Non-Emergency	
Eugene Interagency Communications Center	541-225-6400	

Hebo Ranger District

District Ranger Debbie Wilkins	503-392-5117 (b)(6)
District SAR Coordinator Marc Ankenbauer	503-392-5118 (b)(6)
Alt. SAR Coordinator Travis Sisco	503-392-5116 (b)(6)
	(b)(6)
LEO Hebo RD Felicia Sloan	541-3937620

Central Coast RD – ODNRA (Waldport)	541-563-8400	
District Ranger Michele Jones	541-563-8445	(b)(6)
District SAR Coordinator (Waldport) Jeff Dillon	541-563-8408	
Alt. SAR Coordinator (Waldport) Howard Hoyt	541-563-8453	
LEO (Waldport) Vacant	541-563-8413 (C)	
Central Coast RD - ODNRA (Reedsport)	541-271-6000	
Deputy District Ranger (Reedsport) Garrit Craig	541-271-6001	(b)(6)
District SAR Coordinator (Reedsport) Shane Gill	541-271-6042	(b)(6)
Alt. SAR Coordinator (Reedsport) Samantha Solomon	541-271-6083	
LEO (Reedsport) Oliver Grover	541-271-6090	

OREGON STATE POLICE DISPATCH OFFICES	OFFICE
Central Dispatch in Salem	503-375-3555
Eugene, Blue River, Lowell, Cottage Grove	541-726-2525
Oakridge	541-782-3862

BLM Contacts

Position	Name	Phone Number
District Manager	Jose Linares	503-375-5643 (b)(6) cell
Associate District Manager	David Howell	503-375-5642 (b)(6) ell
Assistant DM - Operations	Evan Moffett	503-.315-5948 (b)(6) cell
Assistant DM - Resources	Sarah Bickford	541-683-6159 (b)(6) cell
Cascade Field Manager	John Huston	503-315-5969 (b)(6) cell
Mary's Peak Field Manager	Paul Tigan	503-315-5968 (b)(6) cell
Siuslaw Field Manager	Cheryl Adcock	541-683-6145 (b)(6) cell
Tillamook Field Manager	Karen Schank	503-815-1127 (b)(6) cell
Upper Willamette Field Manager	Becca Brooke	541-683-6287
Search and Rescue Coordinator	John Wardle Douglas Fuller	541-683-6969 (b)(6) ell 541-683-6427 (b)(6) cell

Law Enforcement Officers	BLM LEO (Salem) Robert Mitsuyashi BLM LEO (Salem) George Dawn BLM LEO (Tillamook) Rich Willams BLM LEO (Eugene) Damian Hayes BLM LEO (Eugene) Ramond Huffman Deputy Sheriff (Eugene) Marvin Combs Deputy Sheriff (Eugene) Brian DeVault	503-375-5624 (b)(6) cell 503-315-5901 (b)(6) cell 503-375-5607 (b)(6) cell 541-683-6113 office (b)(6) cell 541-683-6121 office (b)(6) cell cell cell
Safety Manager	Randall Rishe	541-683-6379 (b)(6) cell

APPENDIX A

County Sheriff's Office Search and Rescue Questionnaire

The Reporting Party (R/P) should remain with the person taking the initial report until they can be interviewed by a trained SAR resource. If for some reason the R/P cannot either stay on site or be re-contacted by phone or radio then the following questions should be asked and detailed answers documented by the interviewer. Focus on the questions which are most relevant and note the ones that you could not get answers for. Please put the date, time and interviewer's name on the document.

1. How many subjects are missing or overdue and when did this occur?

2. What is/are the Missing Person(s) (M/P) full name and contact information (address and phone number if known)?

3. What is the R/P's full name and contact information (address, phone number, vehicle license plate number if known)?

4. What is the date of birth, or age, or approximate age of each subject?

5. Is the M/P usually punctual and reliable as far as doing what they say they are going to do?

6. What is the experience of the M/P? This is a two part question. What is their familiarity with the area they went missing in and how experienced are they at the activity they were involved in when they went missing?

7. Is the M/P healthy and/or fit for the activity they were involved in when they went missing? Are they on any medications? Any known health conditions?

8. Is the M/P's clothing appropriate for the activity they were involved in when they went missing? Do you have a clothing description?

9. Is their equipment adequate for the activity and environment?

10. Are there potential hazards in the area they went missing in?

Appendix B

Northwest Oregon District (NWOD) Bureau of Land Management Environmental Contingency Plan

For

Emergency Preparedness & Response To Oil and Hazardous Materials Incidents

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Northwest Oregon District Oil or Hazardous Materials Field Incident Contingency Plan

Purpose and Scope

The purpose of this plan is to provide policy and direction to Northwest Oregon District employees in carrying out the preparedness, response, and recovery responsibilities during a small scale oil or hazardous materials incident on Northwest Oregon BLM lands. This plan has been written to comply with the template sent out to the Field Offices from BLM Headquarters under Instruction Memorandum 2009-213 dated September 24, 2009.

For an incident of national emergency or of the magnitude that would require a coordinated Federal response, the Department of Interior response would be organized by the Regional Environmental Officer (Office of Environmental Policy and Compliance), and follow the Northwest Area Contingency Plan at:

http://teamspace/or/sites/nw_or_district/_layouts/WordViewer.aspx?id=/or/sites/nw_or_district/Hazmat/Contingency%20Plan%20Northwest%20Oregon%20District%202019.docx&Source=http%3A%2F%2Fteamspace%2For%2Fsites%2Fnw_or_district%2FSitePages%2FHAZMAT%2Easpx&DefaultItemOpen=1

This plan does not address Spill Prevention, Control, and Countermeasure Plans (SPCC). Since the wildland fire program already has a coordination structure at the national and regional levels, (as part of the overall DOI emergency management program) this Plan will not involve that program.

This plan was developed to meet requirements found in the National Contingency Plan (NCP) (Title 40 Code of Federal Regulations §300) (40 CFR§300) for the National Response System (NRS), and in the Department of the Interior's (DOI) Departmental Manual (900 DM 5).

Current Revision Date

May 2019

Definitions

Hazardous substance: As defined in the Hazardous Waste Operations and Emergency Response regulations (29 CFR 1910.120), a hazardous substance is;

- Any substance defined under Section 101(14) of the Comprehensive Environmental Response Compensation and Liability Act (CERCLA);
- Any biologic agent and other disease causing agent which, after release in to the environment and upon exposure, ingestion, inhalation, or assimilation into any person, either directly from the environment or indirectly by ingestion through food chains, will or may reasonably be anticipated to cause death, disease, behavioral abnormalities, cancer, genetic mutation, physiological malfunctions or physical deformations in such persons or their offspring;
- Any substance listed by the U.S. Department of Transportation as hazardous materials under 49 CFR 172.101;
- Hazardous wastes as defined in Department of Transportation regulations at 49 CFR 171.8, and regulations implementing the Resource Conservation and Recovery Act (RCRA) at 40 CFR 261.3.

Hazardous substance release site:

- A site where conditions require either Level A, B, C, or D protection in accordance with the EPA standard levels of protection;
- A site which has not been reported, assessed or investigated, but where past or present land uses or conditions or apparent evidence indicate that a response is warranted under Sections 104 or 106 of CERCLA. When in doubt, assume the worst case until additional information becomes available;
- A location which has been reported to the appropriate authority (Coast Guard, EOA, or State agency with competent jurisdiction), or has been entered into the Comprehensive Response Compensation and Liability Information System (CERCLIS) or placed on the Federal Facilities Docket.

Release: Any spilling, leaking, pumping, pouring, emitting, emptying, discharging, injecting, escaping, leaching, dumping, or disposing into the environment – including the abandonment or discarding of barrels, containers and other closed receptacles containing any hazardous substance or contaminant. Any disposal of hazardous waste on the public lands becomes by definition a hazardous substance release.

First Responder: The first person to discover or take action on a potential site.

Emergency: A release or threat of release generally requiring initiation or a removal action within hours of the lead agency's determination that a removal action is appropriate. (BLM Manual 1703, Glossary, Page 1).

BLM Field Office Identification/Authority Information

1. Northwest Oregon District Office
   1717 Fabry Rd SE, Salem OR 97306; Phone: (503)375-5646
2. Springfield Interagency Office
   3106 Pierce Pkwy, Suite E, Springfield, OR 97477-7910; Phone: (541) 683-6600.
3. Tillamook Field Office
   4610 3rd St, Tillamook, OR 97141; Phone: (541)815-1100
4. Yaquina Head Outstanding Natural Area
   750 Lighthouse Dr, Newport, OR 97365; Phone: (541)574-3100.
5. The District has the responsibility for those emergencies that directly affect Northwest Oregon BLM District lands. This plan is consistent with the Field Incident Contingency Plan that is updated annually or as contact information changes.

Contacts

The Northwest Oregon District initial response contact can be reached 24 hours a day, 7 days a week to expeditiously transmit notification of oil discharges and hazardous substance releases.

The First Responder shall contact the Eugene Interagency Communication Center **(covering all of Northwest Oregon District)**:

1. Eugene Area Dispatch by radio or phone at (541) 225-6400. After hours, the contact is MetCom by radio or phone at (541) 225-6400.

2. **If there is imminent danger to public health or the environment, Dispatch will call 911, then contact the District Hazardous Materials Coordinator or Alternate Coordinator.**
3. If the incident is on BLM land and does not present imminent danger to public health or the environment, Dispatch will notify the Hazardous Materials Coordinator or Alternate by phone. If neither of those individuals can be reached, Dispatch will contact one of the following in this order: the District Law Enforcement Officer, ADM, Safety Manager, or Field Manager. If necessary, the ADM will contact another District to obtain the assistance of a Hazardous Materials Coordinator (See Appendix Two). If the incident is not located on BLM land, and does not present imminent danger to public health or the environment, Dispatch will notify the Oregon Emergency Response System at (800) 452-0311 and then the District Hazardous Materials Coordinator or Alternate Coordinator.
4. The Line Manager who can make the initial commitment of staff and resources for actions required is: the Northwest Oregon District Manager.
5. Key Contacts for plan implementation include Dispatch, the Hazardous Materials Coordinator or Alternate, District Law Enforcement Officer, ADM, and Safety Officer.
6. Designated appropriate contacts receiving notification of discharges and releases: If the release of hazardous substances constitutes a reportable quantity (40 CFR 302.4 Table 302.4), the Hazardous Materials Coordinator (or Responsible Individual) will notify the Oregon Emergency Response System at (800) 452-0311.

Planning

1. District staff have participated in area Response Teams in the past and have coordinated with the US Coast Guard and other agencies. District staff may be available to participate on regional teams, as needed.
2. Point of Contact for planning activities: Hazardous Materials Coordinator or Alternate.
3. Coordination with other offices for development of plans will be on an "as needed" basis. Preparedness, response and recovery activities are discussed under the Readiness section of this document.
4. Contingency plans are updated annually for District facilities.

Readiness

1. Trained and qualified personnel could be loaned to Response Teams for the purpose of planning and oversight. BLM personnel or equipment will not be committed to any hazardous materials spill or cleanup except in a support role, such as securing the area by blocking roads, providing guard duty to protect the site from a safe distance, acting as a guide to the site, or similar activities (BLM Manual Supplement Handbook H-1703-2, Eugene District Office, page I-2). The current Emergency Response Contractor will be utilized at sites where Level A, B, C, or D is required where there is a potential for exposure to known or potential releases of hazardous substances. Only a designated COR or Alternate COR can activate a response by the Emergency Response Contractor.
2. BLM employees may enter certain hazardous substance/waste release sites for certain purposes within the scope of their jobs. At this time, only the Hazardous Materials Coordinator/Alternate is authorized to enter such sites, provided they have maintained their annual HAZWOPER training. They are limited to Level D Level of Protection as described in the EPA Standards of Protection. Use of Personal Protective Equipment (PPE) by these individuals is generally limited to gloves, goggles, tyvek overalls, and similar items. The Hazardous Materials Coordinator/Alternate complete annual

medical surveillance. No employee on the NWOD District is authorized to enter a site where a higher Level of Protection (Level A, B, or C) is required.

3. All employees will be trained to the First Responder Awareness Level as required by 29 CFR 1910.120(q). Individuals designated as Contracting Officer Representatives on the Emergency Response Contract are the only employees who can order an emergency response from the Emergency Response Contractor (See Appendix Two). Minimum hazardous materials training for the Hazardous Materials Coordinator and Alternate is as follows: 40 hour HAZWOPER, 8 hour HAZWOPER refresher each year thereafter, Department of Transportation training, 40 hour COR training, . Training on the Incident Command System, NTC Course Hazardous Materials for District Coordinators, and the NTC Course Emergency Response: Removal Actions and Environmental Preparedness (or equivalent) for hazardous materials staff is desirable. Medical monitoring for hazardous materials staff has been (and continues to be) policy for OR/WA.
4. Drills for exercising the Field Incident Contingency Plan are not conducted.
5. The program for exercising facility response plans are addressed in those plans.

Funding

1. Funding for District Office preparedness is provided in the Annual Work Plan.
2. Emergency response for the Northwest Oregon District is funded through the State Office Emergency Response Contract.

Response and Recovery

Notification and Activation

1. Upon notification of an incident by Dispatch, employees, or private party, the Hazardous Materials Coordinator or Alternate inspects the site to determine if an emergency response action is warranted. If the incident is a release or threat of a release of hazardous materials (or unknown materials), the Emergency Response Contract will be activated. If there is an imminent threat to water quality, human life, or wildlife, the State Hazmat Program Lead and Associate District Manager are to be notified of the situation.
2. The Hazardous Materials Coordinator or Alternate makes a determination regarding land ownership. If the incident has occurred on private land, either the landowner (if known) or the OERS is to be notified. If the incident is on BLM land, the Emergency Response Contract is to be activated if there is a release or threat of a release of hazardous materials to the environment.
3. Emergency response contacts are activated when an incident has been identified and verified as either a release or threat of a release of hazardous materials to the environment. If a reportable quantity release is confirmed or suspected the Hazmat coordinator or alternate will notify EPA's National Response Center and the Oregon Emergency Response System (See Appendix One).
4. Contingency plans typically describe the process used to respond to a potential release of hazardous substances to the environment. Technical and scientific information pertaining to natural resource issues are typically dealt with on a case-by-case basis, rather than at the contingency planning level.

Briefings and Communication

1. To date, informal briefings have been conducted with District staff and the State Program Lead. Several historical responses (pre-2000) involving Law Enforcement (i.e. large drug labs) had formal briefing sessions with local Management, Safety, Hazmat and Law Enforcement staff after the response was completed.
2. There is no mandatory process established regarding when briefings are conducted for local small scale incidents. The Hazardous Materials Coordinator will communicate with Management about incidents and if more information is needed, then it can be presented. Typically, a document summarizing the case is prepared and sent via email to the Field Manager for their information. No briefings on NWOD BLM emergency responses have been conducted to date with Local Emergency Preparedness Committees.

Activation

Response Support

1. The emergency response contractor for Northwest Oregon District is The National contract with North Wind Construction Services, LLC (NORTHWIND) 1425 Higham St., Idaho Falls, ID 83402, Phone: 208-528-8718, Fax: 208-528-8714
   E-mail: contactus@northwindgrp.com

2. Staffing requests by the DOI Regional Environmental Officer (REO) would be made to the District Manager for approval.
3. District employees with experience in Incident Command, hazardous materials, law enforcement and safety could assist the Federal On-Scene Coordinator (FOSC) pending approval by the District Manager.
4. Response assistance by Northwest Oregon District employees could include the following: establish and maintain site control, providing first aid to injured victim, and other tasks within their job descriptions.

Response Funding

1. A project code will be established to track costs for a response involving the Regional Response Team. All Hazardous Materials personnel shall use the project code (BLER-BLM Emergency Response) to track costs associated with response activities for an oil or hazardous materials incident when another DOI agency is the responsible party.
2. Project code OPER will be used to track internal costs incurred by the BLM when its personnel are supporting a Federal On-Scene Coordinator for an oil discharge or CERCLA hazardous substance release.

Revisions and Updates

1. The District Office will conduct a coordination session with staff involved in the incident after the situation is resolved.
2. The District Office plan will be updated/reviewed annually to ensure contact information is kept current.
3. The Hazardous Materials Coordinator is responsible for completing District Office contingency plan revisions and updates.

4. The plan will be routed for review to Field Managers, Associate DM for Operations, Associate District Manager, District Manager, and the Safety Officer. Revisions based on this review will be made to the plan by the Hazardous Materials Coordinator. The final plan will be distributed to the managers listed above, the Safety Officer, and the BLM State Office Hazmat Program Lead.

Point of Contact for Regional Response Team and Joint Response Team

The State Office Hazmat Program Lead or OEPC Regional Environmental Officer should contact the Northwest Oregon District Manager regarding activities that may affect BLM lands and/or interests.

Natural Resource Damage Assessment and Restoration Contacts

The Natural Resource Damage Assessment and Restoration Contact within the Northwest Oregon District Office is the Hazardous Materials Coordinator.

Appendix One – Organizational Structure

Position	Name	Phone Number
District Manager	Jose Linares	503-375-5643 (b)(6) cell
Associate District Manager	David Howell	503-375-5642 (b)(6) cell
Assistant DM – Operations	Evan Moffett	503-315-5948 (b)(6) cell
Assistant DM – Resources	Sarah Bickford	541-683-6159 (b)(6) cell
Cascade Field Manager	John Huston	503-315-5969 (b)(6) cell
Mary's Peak Field Manager	Paul Tigan	503-315-5968 (b)(6) cell
Siuslaw Field Manager	Cheryl Adcock	541-683-6145 (b)(6) cell
Tillamook Field Manager	Karen Schank	503-815-1127 (b)(6) cell
Upper Willamette Field Manager	Becca Brooke	541-683-6287 (b)(6) cell
Hazardous Materials Coordinator	Kirk Appleman	503-315-5906 (b)(6) cell
Hazardous Materials Associate Coordinator	Randall Rishe	541-683-6379 (b)(6) cell
Hazardous Materials Coordinator – Alternate	Jeff Spring	541-683-6682 (b)(6) cell
Hazardous Materials Coordinator – Alternate	John Wardle	541-683-6969 (b)(6) cell
Law Enforcement Officers	BLM LEO (Salem) Robert Mitsuyashi BLM LEO (Salem) George Dawn BLM LEO (Tillamook) Rich Williams BLM LEO (Eugene) Damian Hayes BLM LEO (Eugene) Ramond Huffman Deputy Sheriff (Eugene) Marvin Combs Deputy Sheriff (Eugene) Brian DeVault	503-375-5624 (b)(6) cell 503-315-5901 (b)(6) cell 503-375-5607 (b)(6) cell 541-683-6113 office (b)(6) cell 541-683-6121 office (b)(6) cell (b)(6) cell cell
Safety Officers	(vacant)	
Associate Safety Officer	Randall Rishe	541-683-6379 (b)(6) cell
State Hazmat/AML Program Lead	John Barber	503-808-6538 (b)(6) cell
Eugene Interagency Communication Center	Staffed Hours MetCom After Hours	541-225-6400 541-265-4231
NORTHWIND		Phone: 208-528-8718, Fax: 208-528-8714 E-mail: contactus@northwindgrp.com
DOI Regional Environmental Officer	Allison O'Brien	503-326-2489 cell: (b)(6)
EPA National Response Center (NRC)		800-424-8802
Oregon Emergency Response System (OERS)		800-452-0311

Appendix Two – BLM OR/WA Hazmat Staff

BLM OR/WA HAZMAT COORDINATORS AND ALTERNATE COORDINATORS (March 11, 2019)

Name of HMC / HMA	Telephone #	Cell #
John Barber Program Lead	503-808-6538	(b)(6)
Marsha Reponen (HMC)	541-573-4417	(b)(6)
Vacant (HMC)		
Mark McDaniel (Acting HMC)	541-751- 4381	
Phil D'Amo (HMA)	541-947-6114	
Vacant (HMC)		
NW OR Kirk Appleman (HMC)	503-315-5906	(b)(6)
Jeff Spring (HMA)	541-683-6682	
John Wardle (HMA)	541-683-6969	
Randall Rishe		
Vacant (HMC)	541-416-6859	(b)(6)
Matthew Noble (HMA)	541-416-6750	(b)(6)
Vacant (HMC)	541-683-6443	(b)(6)
Krisann Kosel (HMA)	541-464-3332	
Spokane Elizabeth Earp (HMC)	509-536-1231	(b)(6)
Mike Stevenson (HMA)	208-769-5024	
Vale Jeff Wall (HMC)	541-473-6249	(b)(6)
OR030		

HMC = Hazardous Materials Coordinator; HMA = Alternate Hazardous Materials Coordinator

Hazmat Time Critical Response Contract: Northwind Environmental: (b)(6)

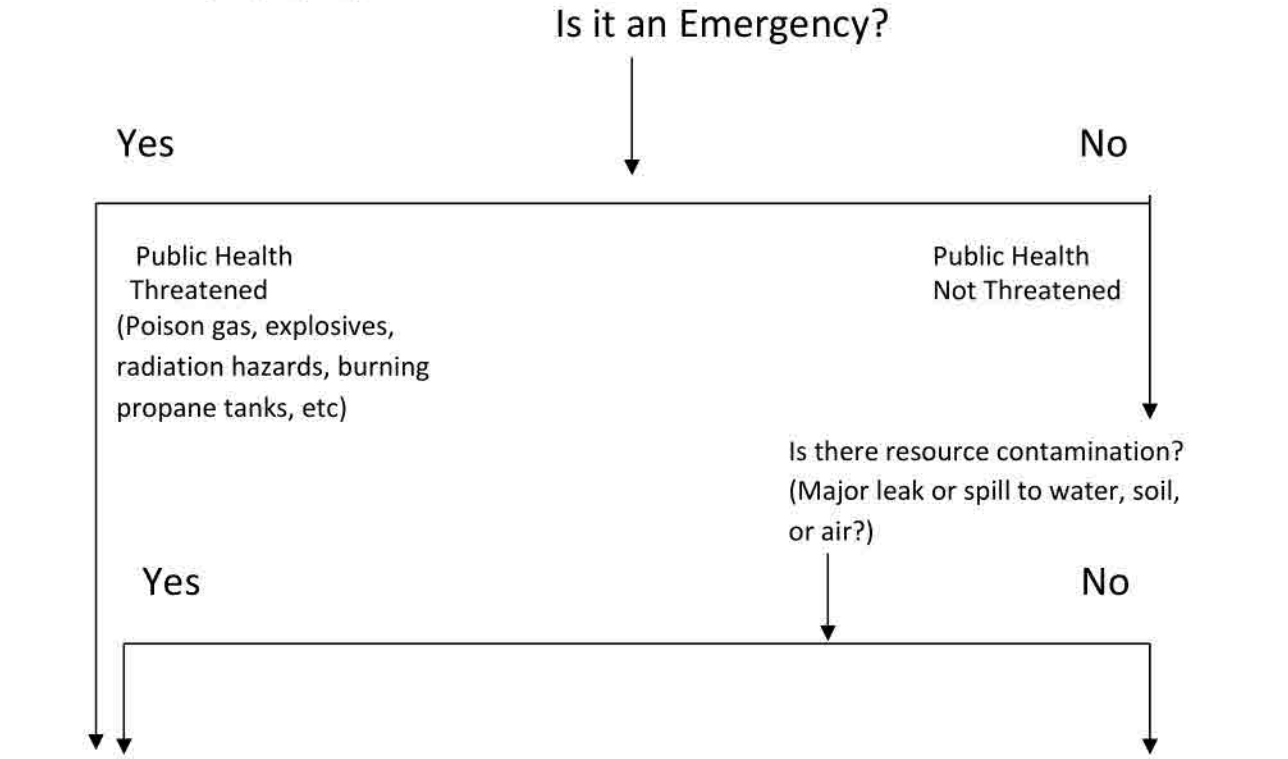
Oregon Emergency Response System 800-452-0311 or 503-378-6377

EPA National Response Center 800-424-8802

Appendix Three: Quick Response Guide for Hazmat First Responders

HAZARDOUS MATERIALS INCIDENT

(Remember: A hazardous material is any material which can, under certain conditions, create an unreasonable risk to health, safety or property.)



EMERGENCY OR RESOURCE CONTAMINATION	NON-EMERGENCY
1. Record pertinent information specified on the Hazardous Materials Incident Worksheet prior to calling the following: **2. Radio Dispatch or Call (541) 225- 6400 and describe incident. If Dispatch is unavailable, contact the Hazmat Coordinator or Alternate, If unavailable, then the Associate District Manager. Dispatch or the Hazmat Coordinator will make additional contacts.** **3. Keep yourself and the Public a safe distance from the site.** **4. If no one is available, contact the Oregon Emergency Response System at (800) 452-0311.**	1. Complete the Patrol Request Form (Appendix 4) 2. Contact Hazmat Coordinator Kirk Appleman – (503)315-5906 (b)(6) cell Alternates: Jeff Spring – (b)(6) (cell) (541) 683-6682 (office) John Wardle – (541)683-6969 (b)(6) cell

Appendix Four:

PATROL REQUEST HAZMAT TRASH DUMP

BUREAU OF LAND MANAGEMENT – NORTHWEST OREGON DISTRICT

EMPLOYEE INFORMATION			
Employee Name:			
Date:		Phone/ Extension:	

INQUIRY DETAILS	
Complete the form and turn in to Hazardous Materials Coordinator electronically through email or by placing it in the slot outside my cubicle. **REMEMBER THE 3 R'S OF HAZMAT (RECOGNIZE, RETREAT, AND REPORT)**. Do not disturb the site, you could be destroying evidence and/or putting yourself in danger.	
LEGAL (TRS):	Field Office/Area:
UTM:	
Road Number:	Area Common Name:
Distance from Intersection/Other location info (flagging etc.):	
Site Description (type and number of containers, bags of trash, visible substances, placards, labels):	
Amount (number of drums, roughly how many pickup truck loads of trash etc.):	
NOTE – Please attach any supporting documentation or pictures	

Siuslaw National Forest

HAZARDOUS MATERIALS SPILL CONTROL

and

EMERGENCY RESPONSE PLAN

2016

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EMERGENCY NOTIFICATION LIST

In the event of a hazardous materials incident or discovery such a chemical spill, first contact your District Emergency Response (Spill) Coordinator or his/her back-up. If the District Emergency Response Coordinator or back-up(s) are not available, contact Eugene Dispatch. They will be responsible for contacting an alternate District Emergency Response Coordinator or the Forest Emergency Response Coordinator, and the appropriate agencies listed below. No other phone calls are required by the reporting person.

Eugene Dispatch (24 hour number)	**541-225-6400**	

LEVELS OF RESPONSE AND REPORTING

Layer	Method	Trigger
Federal – EPA	National Response Center	Reportable Quantity or into water
State - DEQ	Oregon Emergency Response System	Reportable Quantity or into water
Local		
A. County	911 System	Public Danger
B. Forest	Eugene Dispatch	Possible/suspected Incident
C. Forest	Forest Hazmat Coordinator	All potential/suspected sites
D. District	District Hazmat Coordinator	All potential/suspected sites

HAZARDOUS MATERIAL EMERGENCY RESPONSE NOTIFICATION AND REFERENCE LIST

(Notification is normally through Siuslaw Dispatch)

1. Notify the County in which the spill has occurred…… 9-1-1
2. Oregon Emergency Response System (OERS)……1-800-452-0311
3. OR DEQ Emergency Management……1-503-378-6377
4. Department of Environmental Quality……..1-800-452-0311
5. National Response Center……1-800-424-8802
6. US Coast Guard Pacific Strike Team……..1-415-883-3311
7. EPA Region 10 Spill Response……1-206-553-1263
8. Chemtrec (Chemical Transportation Emergency Center)……1-800-424-9300
9. National Poison Control Center……1-800-222-1222

10. Forest Service Personnel:

ADMIN SITE	PERSON	PHONE: OFFICE	HOME
EMERGENCY RESPONSE COORDINATORS:			
SO CORVALLIS	STEVE LOPEZ	541-563-8444	(b)(6)
SO BACK-UP	CRAIG EVANS	541-750-7083	
HEBO	NATHAN PEARSON	503-392-5137 (CELL NO. (b)(6)	
WALDPORT	LARRY CHACON	541-563-8461 (CELL NO. (b)(6)	
OTHER CONTACTS THAT MAY ASSIST EMERGENCY RESPONSE COORDINATORS:			
HEBO	FELICIA SLOAN (LEO)	503-392-5129	
WALDPORT	BILL TURKALY	541-563-8427	(b)(6)
REEDSPORT	SHANE GILL	541-271-6042	

BLM OFFICES AND CONTACTS

SALEM	WALT SMITH	503-315-5918 (OFFICE),
EUGENE	DISPATCH	541-225-6400 (24 HR)

QUICK RESPONSE - CHECK LIST

ACTION 1: RECOGNITION

If you observe any of the following conditions, or anything else out of the ordinary, **DO NOT MOVE CLOSER TO THE INCIDENT SCENE! PROCEED TO ACTION 2.**

- Collapsed victims,
- People running from a hazardous area,
- Flames or smoke,
- Rising sound from a venting safety device,
- Hissing sound,
- Unusual smells,
- Dead animals (mammals, birds or insects).

ACTION 2: NOTIFICATION

- In the event of a hazardous materials incident such a chemical spill, first contact your **District or Unit Emergency Response Coordinator or his/her back-up(s).** If the District or Unit Emergency Response Coordinator or back-ups are not available, contact Eugene Dispatch at 541-225-6400. They will be responsible for contacting an alternate District/SO Emergency Response Coordinator and the appropriate agencies listed below. No other phone calls are required by the reporting person.
- Report the following items:

1.	Your name.
2.	Your telephone number.
3.	Type of incident and the materials involved.
4.	Location/time of incident.
5.	Background/how the incident occurred.
6.	On-scene contact(s) and how to reach them.
7.	Severity of incident - threat to people, property, or the environment.
8.	Actions taken - containment, evacuation.
9.	Responsible party and telephone number.
10.	Time Interval to Call Back. Failure to call back on time will automatically trigger a dispatch of help to your reported location.

If you are not trained in Hazardous Materials Awareness and Emergency Response procedures (First Responder at the Operational Level), DO NOT APPROACH the scene any farther.

- Where further action is required, Eugene Dispatch will inform the appropriate agencies and other Forest personnel.

ACTION 3: PROTECT YOURSELF FIRST

Remember: *If you approach an incident too closely for size-up, you may put yourself in danger and require additional personnel to rescue you.*

- Safety factor increases exponentially for every 100 feet away from the hazard.
- Position vehicles and equipment so they are headed away from the incident.
- Staging area rule of thumb is 2500 feet in early stages of an incident.
- **TREAT ALL CHEMICAL SPILLS WITH CAUTION.** You are not required, expected or authorized to do work if you are not trained to do.
- Stay a safe distance away, in an upslope and upwind position.

ACTION 4: SECURE THE SCENE

- Isolate the hazard area.
- Use warning tape to alert people.
- Deny entry to unauthorized people; use barricades if necessary.
- Reduce or restrict movement of contaminated accident victims or bystanders away from the incident.
- Remember: *you may have to forgo treatment of injured contaminated victims in order to protect yourself and stabilize the scene.*

ACTION 5: SIZE-UP AND IDENTIFY SOURCE

On-scene Incident Commander will complete **securing the area**, **size-up** the situation and **identify the source** if possible.

ACTION 6: EMERGENCY MEDICAL TREATMENT AND FIRST AID

In hazardous material-spill incidents, **it may be necessary to delay attending to the injured** in order to maximize safety of ALL persons.

Failure to adhere to these safety precautions may cause emergency responders to become victims themselves.

ACTION 7: EVACUATION ROUTES AND PROCEDURES

- Park in a location that allows for **open roadways for arrival** of additional emergency equipment or a **safe, rapid retreat** if conditions deteriorate.

An On-scene Incident Commander (OSIC) will coordinate the evacuation and determine the proper procedures, relocation needs, routes, and traffic control. **Note:** An On-Scene

Incident Commander must be certified and have specialized training in hazardous materials to serve in this role.

ACTION 8: DECONTAMINATION

Remember: The Forest Service role is one of incident management, **NOT** clean-up.

- Protect yourself and avoid getting contaminated, and spread any potential source of contamination. Let contractors and trained personal handle this duty.
- Remain in a safety zone; and if necessary, use adequate personal protective equipment (PPE) at the appropriate level.
- Change clothing, and wash any human body parts if any potential contamination has occurred. Report incidents and follow-up with medical surveillance.
- Dispose of any potentially contaminated equipment and clothing with care (disposal of contaminated materials according to Federal and State requirements).
- Clean-up should only be conducted by a qualified commercial vendor or specially designated agency personnel. Emergency Response Coordinators and Key District Personnel

Report all known or suspected hazardous material spills or discoveries on public lands administered by the Siuslaw National Forest to the Emergency Response (Spill) Coordinator for the Ranger District where the hazardous materials spill has occurred. The following tables include a list of specific Forest Supervisor's Office and Ranger District Contacts. Also included are local community and agency contacts in the even a suspected spill could migrate off-site.

Supervisor's Office

3200 SW Jefferson Way — Front Desk: (541) 750-7000
Corvallis, OR 97333 — Fax: (541) 750-7234 Mail Room
P. O. Box1148, Corvallis, OR 97339 — (541)750-7329 Front Desk

Name	Office Phone	Residence
Forest Supervisor – Robert Sanchez	(541) 750-7008	
Forest Hazmat Coordinator - Steve Lopez	(541) 563-8444	(b)(6)
(Back-up) Hazmat Coordinator – Craig Evans	(541) 750-7083	
Fire Dispatch – Eugene Dispatch	(541) 225-6400	(24 hour number)
Forest Fire Staff - Dan Eddy	(541) 750-7026	(b)(6)
Public Affairs Officer – Lisa Romano	(541) 750-7075	
Natural Resources Staff – Tere O'Rourke	(541) 750-7015	
Recreation Staff – Dani Pavoni	(541) 750-7046	
Michael Bilbrey - Administrative Officer	(541) 225-6471	©
Don Andreasen – Forest Safety Officer	(541) 563-8430	(b)(6)

Hebo Ranger District

Mailing Address	Physical Address		
P.O. Box 235	31525 Hwy.	Front Desk:	(503) 392-3161
			(503) 392-5100
Hebo, OR 97122	Hebo, OR 97122	Fax:	(503) 392-5143

Key Personnel Contacts	Office Phone #	Residence #
Debbie Wilkins – District Ranger	503-392-5117	(b)(6)
Marc Ankenbauer – Recreation Staff Officer	503 392-5118	
Nathan Pearson – District Hazmat Coordinator	503-392-5137	

Local Community & Agency Contacts	
City of Hebo	Emergency call **911**
ODOT State Highway Department	541-994-3980
ODOT 24-Hour Central Emergency Dispatch	503-378-2299
ODFW	503-842-2741
Oregon State Dept. of Forestry	
Tillamook ODF	503-842-2545
Toledo ODF	541-336-2273
Oregon State Police	800-452-7888
Tillamook County Sheriff	503-842-2561
Lincoln County Sheriff	541-265-4277
Nestecca Fire Department	503-392-3313
Lincoln City, City Hall	541-996-2151
North Lincoln Fire Department	541-994-3100
City Hall	
Nestucca School District, Administrative Office	503-392-4892
Lincoln County School District	541-765-2260

Central Coast Ranger District: **CCRD - Waldport** **P.O. Box 400** **Waldport, OR 97394** **Oregon Dunes National Recreation Area:** **ODNRA - Reedsport** **855 Hwy 101** **Reedsport, OR 97467**	**Front Desk:** **541-563-3211** **541-563-8400** **Fax:** **541-563-8449** **Front Desk:** **541-271-6000** **Fax:** **541-271-6034**	

Key Personnel Contacts	**Office Phone #**	**Residence #**
Michele Jones – District Ranger	541-563-8445	(b)(6)
Larry Chacon – District Hazmat Coordinator	541-563-8461 © 541-231-3630	
Bill Turkaly – ALT District Hazmat Coordinator	541-563-8427	
Garrit Craig – Deputy District Ranger	541-271-6001	
Chris Bogan - Operations Staff	541-563-8446	
Chris LaCosse – Recreation Staff	541-271-6071	
Don Andreasen – Forest Safety Officer	541-563-8430	

Local Community and other Agency contacts follow. The list is by community or city.

City of **Dunes City**	Emergency **Call 911**
City Hall	541-997-3338
Fire Department	541-997-3212
Police Department	541-997-8472
Waste Water Treatment Plant	541-997-3436
Public Works	541-997-2141
County Road Department Shop - Lane	541-997-2251

Community of **Alsea**	Emergency **Call 911**	
City Hall - NA		
Fire Department	541-487-8701	
Benton County Sheriff's Department / Office	541-766-6858	541-847-5100
Benton County Public Works Water Department	541-766-6821	
Public Works – Benton County	541-766-6916	
County Road Department Shop – Benton County	541-766-6821	
State Highway Department - Albany	541-947-2203	
ODOT 24-Hour Central Emergency Dispatch	503-378-2299	
ODFW –Alsea N. Fork Hatchery	541-487-7240	
Oregon State Forestry – Philomath	541-929-3266	
Oregon State Parks	800-551-6949	
U.S. Army Corps of Engineers – Emergency Management	503-808-4400	
Alsea Public School, District No. 7-J	541-487-4305	

City of **Florence**	Emergency **Call 911**
City Hall	541-997-3437
Fire Department	541-997-3212
Police Department	541-997-8472
Waste Water Treatment Plant	541-997-3436
Public Works	541-997-2141
County Road Department Shop - Lane	541-997-2251
State Highway Department	541-997-2142
ODOT 24-Hour Central Emergency Dispatch	503-378-2299
Lane County Sheriff Office ODFW – South Beach, Lincoln County	541-997-8472 541-867-4741
Oregon State Forestry – Florence	541-997-8713
Oregon State Police	541-997-2211, 800-452-7888
Oregon State Parks	Local: 541-336-2273, State: 800-551-6949
U.S. Army Corps of Engineers – Emergency Management	503-808-4400
Florence Public Schools – District Office	541-997-2651
Coast Guard – Siuslaw River Station	541-997-3631

Community of **Hauser** / **Lakeside**, Coos County	Emergency **Call 911**	
City Hall – North Bend	541-756-3161	
Fire Department - Hauser / Lakeside	541-756-7222	541-759-3931
Fire Department – North Bend	541-756-3135	
Police Department - Coos Bay Coos County Sheriff	541-269-8911 541-765-2020, Ext. 371	
County Road Department Shop – Coos County	541-756-2020, Ext. 366	
ODOT District Office - Coquille	541-396-3707	
ODOT 24-Hour Central Emergency Dispatch	503-378-2299	
Coos Bay BLM	541-756-0100	
Oregon State Forestry – Coos Bay	541-267-3161	
Oregon State Parks	800-551-6949	
U.S. Army Corps of Engineers – Emergency Management	503-808-4400	
North Bend School District 13	541-756-2521	
Oregon DEQ – Coos Bay	541-269-2721	
Coast Guard North Bend	541-756-4141	

Communities of **Mapleton, Swiss Home and Deadwood**	Emergency **Call 911**
City Hall	N A
Fire Department	541-268-4721
Police Department - Lane County Sherrif	541-997-8472
State Police	541-997-2211
State Police District Patrol	541-726-2525
Waste Water Treatment Plant	541-997-3436
Public Works	541-997-2141
County Road Department Shop	541-997-2251
State Highway Department	541-997-2142
ODOT 24-Hour Central Emergency Dispatch	503-378-2299

ODFW – South Beach, Lincoln County	541-867-4741
Oregon State Forestry – Florence	541-997-8713
Oregon State Parks	Local: 541-336-2273, State: 800-551-6949
U.S. Army Corps of Engineers – Emergency Management	503-808-4400
Mapleton School District Superintendent	541-268-4312
Coast Guard – Siuslaw River Station	541-997-3631
Central Oregon Pacific Railroad	541-268-1905

City of **Reedsport**	Emergency **Call 911**
City Hall	541-271-3603
Fire Department	541-271-2423
Police Department – City Douglas County Sheriff	541-271-2100 541-271-4802
Police Department - State	541-271-2263
Waste Water Treatment Plant	541- 271-4313
Public Works – Douglas County	541-271-3207
County Road Department Shop	541-271-3207
ODOT District Office	541-271-3828
ODOT 24-Hour Central Emergency Dispatch	503-378-2299
ODFW – Charleston	541-888-5515
Oregon State Parks: Local / State	541-336-2273 / 800-551-6949
U.S. Army Corps of Engineers – Emergency Management	503-808-4400
Reedsport Public Schools – District Office	541-271-3656
Coast Guard Marine Weather (Winchester Bay)	541-271-4244 / 541-271-2137
Parks and Rec – Umqua Lighthouse Workshop	541-271-4118

Community of **Waldport**	Emergency **Call 911**
City Hall	541-563-3561
Fire Department	541-563-3121
Police Department – Lincoln County Sheriff	541-265-4277
Police Department - State	800-452-7888
Waste Water Treatment Plant	541-563-2929
Public Works – Water Department	541-563-3561
ODOT Region 2	503-986-2600
ODOT 24-Hour Central Emergency Dispatch	503-378-2299
Oregon State Parks: State	800-551-6949
U.S. Army Corps of Engineers – Emergency Management	503-808-4400
Waldport Elementary	541-563-3237
Waldport Middle School	541-563-3235
Waldport High School	541-563-3243

Community of **Winchester Bay**	Emergency **Call 911**
City Hall	NA
Fire Department	541-271-3808
Police Department - City Douglas County Sheriff	541-271-4802 541-271-4802
Police Department - State	541-271-2263
Waste Water Treatment Plant	541- 271-4214
Public Works – Douglas County	541-271-3207
County Road Department Shop	541-271-3207
ODOT District Office	541-271-3828
ODOT 24-Hour Central Emergency Dispatch	503-378-2299
ODFW – Charleston	541-888-5515
Oregon State Parks: Local / State	541-336-2273 / 800-551-6949
U.S. Army Corps of Engineers – Emergency Management	503-808-4400
Reedsport Public Schools – District Office	541-271-3656
Coast Guard Marine Weather (Winchester Bay)	541-271-4244 / 541-271-2137
Parks and Rec – Umqua Lighthouse Workshop	541-271-4118

Community of **Yachats**	Emergency **Call 911**
City Hall	541-547-3565
Fire Department	541-547-3266
Police Department – Lincoln County Sheriff	541-265-4231
Police Department - State	541-271-2263
Waste Water Treatment Plant	541-547-3243
Yachats 24 hr Emergency	541-547-3565
ODOT 24-Hour Central Emergency Dispatch	503-378-2299

Federal Emergency Response – U.S. Coast Guard and EPA

Pursuant to the National Contingency Plan (NCP; 40 CRF Part 300), area committees have been established for each area of the United States that has been designated by the President. The area committees are comprised of personnel from federal and state agencies who coordinate response actions with tribal and local governments and with the private sector. The NCP also establishes the National Response Team (NRT) and 13 Regional Response Teams (RRTs) who are responsible for national and regional planning and preparedness activities before a response action and support the Federal On-Scene Coordinators and State On-Scene Coordinators (FOSC and SOSC, respectively) when activated during a response. RRT membership consists of designated representatives from key federal response and support agencies together with the affected states. (The US Forest Service has a member on the Northwest Regional Response Team. One of thirteen federal agencies represented.) In the Northwest Area, defined as the coastal and inland zones of Idaho, Oregon, and Washington, these two groups (NRT and NWRRT) have joined together to accomplish all planning and preparedness activities and jointly published the Northwest Area Contingency Plan (NWACP). This plan is intended for use as a guideline for response actions to spill incidents and to ensure consistency in response to spills.

The Northwest Area Contingency Plan states that spill incidents will be managed with an Incident Command System (ICS) and will use the National Interagency Incident Management System (NIIMS) model for incident command. In addition, when one or more agencies arrive on-scene to participate in managing a response action, the agencies will utilize a unified command structure to jointly manage the spill incident. In the unified incident command, decisions with regard to response will be made by consensus and documented through a single incident action plan. The unified command may incorporate additional tribal or local government on-scene coordinators in to the command structure as appropriate. Federal and state rules require that a responsible party, usually the spiller, must be able to manage a response action within this unified command structure.

The Co-Chairs for the Regional Response Team are the U.S. Coast Guard, District 13, and the U.S. Environmental Protection Agency, Region 10, and these agencies provide the respective Federal On-Scene Coordinators (FOSC). Designating areas, appointing area committee members, determining information to be include in, and review of area contingency plans, has been delegated by Executive Order 12777 of 22 October 1991, to the Commandant of the U.S. Coast Guard (USCG) for the coastal zone, and to the Administrator of the Environmental Protection Agency (EPA) for the inland zone. The coastal zone and inland zone are defined in the NCP (40CFR300.5), and the EPA has responsibility for response in all areas inland of the coastal zone. The Coast Guard has designated as Areas, those portions of the Captain of the Port (COPT) zones that are within the coastal zone and for which area committees will prepare area contingency plans. COPT zones are described in Coast Guard regulations (33 CFR Part 3). This is the Area Contingency Plan (ACP) for Coast Guard COTP Zones of Puget Sound and Portland, the States of Washington, Oregon, and Idaho, and the Environmental Protection Agency's Inland Region Ten, excluding Alaska.

Chemical spill incidents of a significant magnitude that could impact off-Forest or downstream users, whether they originate on USDA Forest Service System lands or not, become the responsibility of the U.S. Coast Guard or EPA On-Scene Coordinators. A key element of Federal Support to local responders during hazardous materials incidents is a response by U.S. Coast Guard or EPA On-Scene Coordinators (OSC). The OSC is the federal official pre-designated to coordinate and direct Federal responses and removals under the National Contingency Plan (NCP). Federal responses may be triggered by a report to the National Response Center (NRC), operated by the Coast Guard. Provisions of the federal Water Pollution Control Act, CERCLA, and various other federal laws require persons responsible for a discharge or release to notify the NRC immediately. The NRC duty officer promptly relays each report to the Coast Guard or EPA OSC, depending on the location of the incident. Based on this initial report and any other information that can be obtained, the OSC makes a preliminary assessment of the need for a federal response. The Coast Guard has OSCs at 48 locations and the EPA has OSCs in each of its 10 Regional field offices. The USDA Forest Service has not been delegated Emergency Response Authority, either by legislation or executive order.

State of Oregon

The Northwest Area Contingency Plan satisfies requirements set forth in Oregon Revised Statutes 468B.495-500 and 466.620 and replaces the Oil and Hazardous Materials Spill Contingency Plan, for the Oregon Coast, Columbian River and Willamette River to Willamette Falls (Volume II). This plan also satisfies ORS 401, 453.347, 466.620, and 469.611 and is part of the requirements of Title III Section 303 of the Superfund Amendments and Reauthorization Act of 1986. It also replaces the Oil and Hazardous Materials Emergency Response Plan for inland spills and non-coastal waters (formerly Annex O). It is intended to be consistent with all other existing plans. The Oregon State Department of Environmental Quality (DEQ) is the lead State agency on the Area Committee and provides the lead for oil and hazardous substance spill prevention efforts, contingency planning, and cleanup oversight for spills affecting state air, water, or land resources.

The NW Area Contingency Plan provides a description of Oregon's statewide oil and HAZMAT response system and outlines the responsibilities of all those who may be involved in an incident. It provides for a coordinated Oregon state agency response as well as detailed plans for how each of the counties and cities in the state will respond. The Oregon DEQ is the lead agency for oil or hazardous material spills. The Oregon Health Division is the lead state agency for all incidents involving hazards to human beings, communicable disease agents, or radiation emergencies other than transportation accidents. The Oregon Department of Energy is the lead state agency for radioactive materials transportation incidents. The lead state agency will provide a state on-scene coordinator (SOSC) to direct state response and assist the federal on-scene coordinator (FOSC).

Geographic Response Plans (published separately) are an integral part of the Northwest Area Contingency Plan (NWACP). Geographic Response Plans (GRPs) are intended to help first responders avoid the initial confusion that generally accompanies any spill. They prioritize resources to be protected and allow for immediate and proper action. The first goal of a GRP is to identify resources, physical features, hydrology, currents and tides, and winds and climate that may affect response strategies. Secondly, after compiling this information, sensitive resources are identified, and specific response strategies are developed that identify the amount and type of equipment necessary for implementation. The NW Geographic Response Plans are produced jointly by the Northwest Area Committee led by EPA Region 10, USCG Marine Safety Office Portland, USCG Marine Safety Office Puget Sound, Idaho Bureau of Hazardous Materials, Oregon Department of Environmental Quality, and the Washington Department of Ecology. Oregon DEQ maintains the master copy of the five Oregon Coastal GRPs - South Oregon Coast, Coos Bay, Yaquina Bay, Tillamook Bay, and North Oregon Coast. The North Oregon Coast includes the coastline from the Washington border south to Florence. The South Oregon Coast includes the coastline from the California border north to Florence.

Forest Service - Scope and Purpose

Hazardous Materials Management is discussed in Chapter 2160 of the Forest Service Manual. In 2160.1 - Authority, Item 2.d. "Requires establishment of State Emergency Response Commissions (SERC) and emergency planning Districts; development of local emergency response plans; notification of hazardous chemical releases; reporting of hazardous chemical inventories; and completion of toxic chemical release reports." This emergency spill response plan only addresses the first item in this extensive list from the manual. The Forest Service has been delegated discretionary authority and responsibility for the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) program and actions on National Forest System lands **(except for emergency response)** through Executive Order 12580 and 7 CFR 2.60(a)(40), and as recognized by the National Contingency Plan.

Item 2161 discusses Program Administration and 2161.03 - Policy, 1. states in part: "Recognize that the Forest Service role varies, depending on whether an activity involves only the Forest Service or some combination of Forest Service and outside parties." The Forest Service response to non-Forest Service activities on or affecting National Forest System Lands is stated in 2161.15 in three parts.

Item 1: Forest Service emergency response to spills of hazardous or unknown materials on or affecting National Forest System lands and lands leased by the Forest Service resulting from activities by third parties should be limited to notification of the appropriate emergency response authorities (FSM2165.14). Note that although the Forest Service was delegated authority to conduct time critical removal actions and non-time-critical removal actions (FSM 2164.05), the Forest Service was not delegated emergency response authority in Executive Order 12580 (FSM 2160.1). The Environmental Protection Agency and States have the authority and responsibility for emergency response.

Item 2: Forest Service response to non-Forest Service activities that impact the natural resources on National Forest System lands for which the Forest Service has trustee responsibility should include assessment of the injuries as described in FSM 2164.

Item 3: Forest Service response at uncontrolled hazardous materials sites (FSM 2160.5) on National Forest System lands can range from oversight if a viable response party has undertaken the cleanup action to actual "hands-on" cleanup if the Forest Service takes the lead (FSM 2164). The level of a Forest Service employee's involvement in the response shall not exceed the level of training that employee has completed. NOTE: Releases where the USDA Forest Service is the Potentially Responsible Party (PRP) need to be managed in a similar manner.

Siuslaw National Forest

This Hazardous Spill Control and Emergency Response Plan is designed to guide Siuslaw National Forest personnel in their response to hazardous substance releases or the discovery of discarded hazardous materials within the boundaries of the Siuslaw National Forest, thus meeting the intent of Items 1 and 3 of FSM 2161.15. Direction is taken from 29 CFR 1910.120, which addresses regulations to cover emergency operations in response to releases (or substantial threats of releases) of hazardous substances without regard to hazard location.

In this document, a ***hazardous substance*** is considered any substance that poses an unreasonable risk to life or health, the environment or property, when released from its container. ***Emergency Response,*** or responding to emergencies, means a response by employees from outside the immediate release area or by other designated responders (i.e., mutual-aid groups, local fire departments, sheriff's deputies, etc.) to an occurrence which results, or is likely to result in an uncontrolled release of hazardous substance. 29 CFR 1910.120 (q)(1) requires that an emergency response plan be developed and implemented to handle anticipated emergencies prior to commencement of emergency response operations. This plan shall be in writing and available for the inspection and copying by employees, their representatives and OSHA personnel.

An important point to remember: Responses to incidental releases of hazardous substances (where the substance can be absorbed, neutralized, or otherwise controlled at the time of release by employees in the immediate release area, or by maintenance personnel) are NOT considered to be emergency responses within the scope of this document. In a similar vein, response to releases of hazardous substances where there is NOT a potential safety or health hazard (i.e., fire, explosion, or chemical exposure) are NOT considered to be an emergency response (definitions from 29CFR1910.120(a)(3a)).

This response plan includes the discovery, identification, notification, evaluation, and initiation of immediate and appropriate on-scene action. The objectives of this document are to:

1. Minimize human and/or environmental health hazards posed by a hazardous material incident within the jurisdiction of the Siuslaw National Forest.

2. Establish lines of authority and coordination in hazardous material incidents.
3. Develop guidelines for training requirements ensuring that qualified personnel are available to implement incident management objectives.
4. Provide a process whereby all appropriate Local, State, and Federal agencies (as well as the news media and interested publics) are informed in a timely manner and, where necessary, establish a coordinated response.
5. Manage, where applicable, the containment and clean-up process in an efficient, safe and cost-effective manner.

Elements of the Emergency Response Plan

I. PRE-EMERGENCY PLANNING AND COORDINATION WITH OUTSIDE PARTIES

Depending on the origin, scope and extent of the hazardous materials spill incident, several governmental and/or private entities could have a significant role in incident management and cleanup on lands within the Siuslaw National Forest.

Tillamook County

The Emergency Management Department of Tillamook County oversees the management of hazardous materials emergencies for the county. They look to the local fire departments or the Sheriff's Office to provide initial response to reported incidents. If available, the head of the Emergency Management Department will also respond. On larger incidents, Tualatin Valley Fire and Rescue may be called upon to assist in incident management. In most cases, a unified command of the various affected agencies and landowners would be established or incident management could be transferred to Oregon Department of Environmental Quality or the EPA. For incidents involving coastal waters, they defer to the coastal spill response plans (Geographic Response Plan – GRP) and the Coast Guard. **In most instances, the Forest Service would have initial incident responsibility on National Forest System lands in Tillamook County**.

Lincoln County

The Office of Emergency Management for Lincoln County coordinates and facilitates emergency plans, preparedness, response and recovery within the County. For hazardous materials incidents, they notify the agency that has responsibility, such as the local fire or police department, or the landowner. On larger incidents, they would establish a unified command of the various affected agencies and landowners, or pass incident management totally to Oregon DEQ or the EPA. For incidents involving coastal waters, they defer to the coastal spill response plans (Geographic Response Plan – GRP) and the Coast Guard. **In most instances, the Forest Service would have initial incident responsibility on National Forest System lands in Lincoln County**.

Benton County

The Benton County Emergency Management Search & Rescue is administratively located within the Benton County Sheriff's Office. Their first point of contact on a reported incident (not along the coast) would be a Deputy, local Fire Service agency representative, or Law Enforcement Officers (LEOs) from the BLM or Forest Service on their respective lands. Since large areas of the County are not covered by local fire service departments, they look to the Regional Hazardous Materials Response Team for leadership. On larger incidents, they would establish a unified command of the various affected agencies and landowners, or pass incident management to totally to Oregon DEQ or the EPA. For incidents involving coastal waters, they defer to the coastal spill response plans (Geographic Response Plan – GRP) and the Coast Guard. **In most instances, the Forest Service would have initial incident responsibility on National Forest System lands in Benton County**.

Lane County

The accepted policy of Lane County is that command responsibility for any incident defaults to the Agency that has over 50% of the scope of responsibility for that incident (civil disturbance, structure fire, flooding, etc.) or the jurisdiction involved (federal, state, or county lands). **In most instances, the Forest Service would have initial incident responsibility on National Forest System lands in Lane County.** On larger incidents, they would establish a unified command of the various affected agencies and landowners, or pass incident management to totally to Oregon DEQ or the EPA. For incidents involving coastal waters, they defer to the coastal spill response plans (Geographic Response Plan) and the Coast Guard.

Douglas County

Douglas County Emergency Management is administratively located within the Douglas County Sheriff's Office. Their first point of contact on a reported incident (not along the coast) would be a Deputy, local Fire Service agency representative, or Law Enforcement Officers (LEOs) from the BLM or Forest Service. Since large areas of the County are not covered by local fire service departments, they look to the Regional Hazardous Materials Response Team for leadership. On larger incidents, they would establish a unified command of the various affected agencies and landowners, or pass incident management to totally to Oregon DEQ or the EPA. **In most instances, the Forest Service would have initial incident responsibility on National Forest System lands in Douglas County**. For incidents involving coastal waters, they defer to the coastal spill response plans (Geographic Response Plan – GRP) and the Coast Guard.

Coos County

Coos County Emergency Management is administratively located within the Coos County Sheriff's Office. Their emergency response plan is incident or circumstance driven, and the department with primary responsibility for the situation takes the lead role. For hazardous materials incidents, this is the Fire Service, Transportation or Law Enforcement groups. County Department Heads will coordinate their department's emergency response in a disaster situation with the Coos County Emergency Management Organization. On larger incidents, the first point of contact would be Siuslaw National Forest Dispatch informing Coos County Emergency Management of a probable incident. Since large areas of the County are unincorporated, they look to the Regional Hazardous Materials Response Team for leadership. On larger incidents, they would expect the lead or reporting agency to establish a unified command of the various appropriate agencies (local, county or state) and affected landowners. **In most instances, the Forest Service would have initial incident responsibility on National Forest System lands in Coos County**. For incidents involving coastal waters, they defer to the coastal spill response plans (Geographic Response Plan – GRP) and the Coast Guard.

Oregon Department of Transportation (ODOT)

By state and federal mandates, ODOT is responsible for the regulation of activities on state highways. **Incidents that are located on and remain within designated ODOT right-of-ways are ODOT responsibility.** Other incidents (those where the problem may migrate from the highway corridor to Forest Service land or vice versa) may evolve into a unified command with ODOT, the Forest Service, and the Oregon Department of Environmental Quality. For many incidents, ODOT's primary role will be either incident management and/or traffic control - to make the incident scene safer for emergency workers and to get the highway open again as soon as it is safe to do so. This applies to highway corridors 101, 22, 18, 20, 34, 36, 126, and 38.

Railroad Rights-of-Way

By state and federal mandates, railroads are responsible for the regulation of activities on the railroad corridor. **Incidents that are located on and remain within designated right-of-ways are the railroad's responsibility.** Other incidents (those where the problem may migrate from the highway corridor to Forest Service land or vice versa) may evolve into a unified command with the Railroad, the Forest Service, and the Oregon Department of Environmental Quality. For most incidents, since it is likely that the problem resulted from an event associated with the transportation of products by the railroad, their primary role will be incident management and cleanup.

Bureau of Land Management

By federal law, the BLM is responsible for the regulation of activities on lands they administer. **Incidents that are located on and remain within designated BLM lands or right-of-ways are the responsibility of the BLM.** Other incidents (those where the problem may migrate from the BLM to Forest Service land or vice versa) may evolve into a unified command or the one agency may assume a lead role,

depending on such factors as expertise available, point of origin, or specific cause such as an FS or BLM vehicle or project.

Oregon Parks and Recreation Department, Oregon Department of Forestry

The State of Oregon is responsible for the regulation of activities on lands they own or administer. **Incidents that are located on and remain within designated State lands, such as right-of-ways, state forests or parks, or private lands under jurisdiction of the Department of Forestry are the responsibility of the State of Oregon.** Other incidents (those where the problem may migrate from State to Forest Service land or vice versa) may evolve into a unified command, depending on such factors as expertise available, point of origin, or specific cause such as an Forest Service or State vehicle or project. In most instances, especially with larger incidents, Oregon DEQ would also be involved.

II. PERSONNEL ROLES, LINES OF AUTHORITY, COMMUNICATION AND TRAINING

Personnel Roles and Lines of Authority

1. **The Siuslaw National Forest shall initiate appropriate action and response to all hazardous substance releases and/or discoveries that occur on or threaten National Forest System land.**

   Appropriate action shall include: reporting of incidents, notification of affected forest users and cooperating agencies, and initiation of mitigating measures if possible. Each Ranger District is responsible for incident management on their respective District. The District Ranger will designate a qualified employee who will be the principal contact for all incidents. This individual, when provided with adequate training, will be responsible to investigate all reported incidents to determine the extent of response. Alternates are encouraged in order to provide for the continuous availability of personnel. This position is open to any interested individual and is not limited to a specific staff group or grade level.

2. **All incidents, whether big or small, will be managed with the Incident Command System.**

   The reporting employee, generally the first on scene, is considered in charge of the incident until relieved by a more senior official or the designated District Hazardous Material Spill Coordinator. At this initial stage, the principal task would be to report the incident, isolate the hazardous area, and to deny entry to the area by other individuals. On larger or more complex incidents, a certified On-Scene Incident Commander may assume the incident command role. The On-Scene Incident Commander assuming control of the incident scene beyond the first responder awareness level shall have the qualifications outlined later in this document and meet the competencies outlined in 29CFR1910.120 (q)(6)(v).

The On-Scene Incident Commander, or equally qualified individual, is responsible for the performance of the following tasks:

- Determine whether the significance of the spill/discovery is an emergency or non–emergency, and take the appropriate action.
- To the extent possible, identify all hazardous substances or conditions present, and determine who is responsible.
- Report the spill to the appropriate regulatory agencies. Inform the District Ranger and Forest Supervisor (or designates) of the situation and actions taken. Assure that Forest Service employees, the public as appropriate, and down-stream users (if applicable) are notified in a timely manner.
- Address the appropriate site analysis, use of engineering controls, maximum exposure limits, and hazardous substance handling procedures.
- Limit the number of emergency response personnel at the emergency site to those who are actively performing emergency operations.
- Designate a safety official (who is knowledgeable in the operations being implemented at the emergency response site) with specific responsibility to identify and evaluate hazards and to provide direction with respect to the safety of operations for the emergency at hand, and
- Implement appropriate decontamination procedures, if necessary.

On large incidents or those involving considerable multi-jurisdictional efforts, the Area Incident Management Team will be given the principal responsibility for over-all incident management. In this instance, the Operations Section Chief or a Division/Group Supervisor would be an individual with extensive hazardous materials incident training and experience, i.e., certified to be an On-Scene Incident Commander.

In most cases, **Forest Service Law Enforcement personnel will not be considered Incident Commanders** or involved in primary incident management (unless they have the specialized training to do so). In the initial stages their principal role will be scene security and public safety. As is appropriate, their duties would move towards investigation, preservation of evidence and the gathering of information.

3. The Forest Service role will primarily be one of incident management, not cleanup.

The Siuslaw National Forest does not intend to equip Forest Service personnel to contain or clean up unknown material. When a Forest Service employee discovers an unknown substance, regardless of location, that person will treat the substance as “hazardous” until it is identified by qualified personnel. Cleanup will be conducted only by a qualified commercial vendor or specially designated agency (local, state or federal) personnel.

The primary exception to this rule is with small spills of oil, gas, diesel, known hazardous materials with appropriate PPE, or non-hazardous substances (such as food stuffs), ***where we have the expertise (properly qualified and trained***

personnel) and equipment to handle the problem. Responses to incidents of this type are not considered an "emergency" as outlined in 29CFR120 (a). In general, all reasonable efforts will be made to take preventative and/or containment actions of spills or releases, to reduce the threat to the public and to minimize impact to the environment. *These efforts will be taken in such a manner that responding personnel will not be threatened or harmed*.

4. Reporting Procedures.

Within the Siuslaw National Forest Supervisor's Office, the Engineering section is designated as the principal staff group, which coordinates activities, provides and maintains training records, and manages overall Forest coordination. Designated individuals within the SO Engineering organization would be the principal (and generally only) person(s) to contact and initiate contractual obligations for cleanup operations with vendors. Contact with Agency or outside individuals or groups, i.e., appropriate Regional Office personnel or Oregon DEQ in the case of a major action, would generally go through Eugene Dispatch 541-225-6400 during the notification phase of the incident. Incidents reported initially to the various administrative units on the Forest – Hebo, Waldport, the Oregon Dunes National Recreation Area, or the Angell Job Corps Center – would be relayed to the Supervisor's Office.

Communications

Once an appropriately trained district or unit representative has determined that an incident has occurred of sufficient size to require additional support, Eugene Dispatch is notified. The Dispatch Center is not in a decision-making role. However, **Eugene Dispatch 541-225-6400 will be the principal contact point for notification both internally and externally.** Depending on the extent of the incident, the Dispatch Center will inform the appropriate County, State and Federal Agencies, Supervisor's Office personnel, Law Enforcement Groups, and the Hazardous Materials Incident Management Team members. Unless extenuating circumstances occur, Eugene Dispatch should be the only section placing calls to the various interested parties. Incident personnel are expected to keep Eugene Dispatch and the respective home unit fully apprised of the status of an active incident.

Eugene dispatch will coordinate response activities with the SO-Hazardous Materials Spill Coordinator.

Spill response guide sheets will be included in each vehicle as part of the standard package of information for accidents and maintenance. "Emergency Response Guidebooks" (DOT-5800-4) will be provided to First Responder - Operations Level trained employees for their vehicles.

Training and Re-certification

The Siuslaw National Forest will provide training to field going personnel (based on the duties and function to be performed by each responder) before they are permitted to take part in actual emergency operations on an incident. The following are the various levels of training and requirements for working with hazardous materials:

A. **First Responder – Awareness Level:** Most field personnel would be trained to the Awareness Level. 29 CFR 1910.120 (q)(6)(i) defines the First Responder Awareness Level as *"individuals who are likely to witness or discover a hazardous substance release and who have been trained to initiate an emergency response sequence by notifying the proper authorities of the release."* The State Fire Marshal has specifically designed the Hazardous Materials Awareness for First Responders class to address competencies required by the administrative rules of Oregon OSHA (ORA 437-02-11-(q)(6)(i). Training materials are available from most District Hazardous Materials Coordinators in the form of computer based on-line training.

   Most field going personnel on the Siuslaw National Forest will be trained to the Awareness Level. First responders at the awareness level shall have sufficient training or have sufficient experience to objectively demonstrate competency in the following areas:

   a) An understanding of what hazardous substances are, and the risks associated with them in an incident,
   b) An understanding of the potential outcomes associated with an emergency created when hazardous substances are present,
   c) The ability to recognize the presence of hazardous substances in an emergency,
   d) The ability to identify the hazardous substances, if possible,
   e) An understanding of the role of the first responder awareness individual in the employer's emergency response plan, and
   f) The ability to realize the need for additional resources, and to make appropriate notifications to the communications center.

B. **First Responder – Operations Level:** The Ranger District- Emergency Response (Spill) Coordinator would be required to have Hazardous Materials Awareness Level training, plus First Responded Operation Level certification or equivalent, plus Basic ICS-220. 29 CFR 1910.120 (q)(6)(ii) defines the First Responder Operations Level as *"individuals who respond to releases or potential releases of hazardous substances as part of the initial response to the site for the purpose of protecting nearby persons, property, or the environment from the effects of the release. They are trained to respond in a defensive fashion without actually trying to stop the release". Their function is to contain the release from a safe distance, keep it from spreading and prevent exposures.* The State Fire Marshal has specifically designed the Hazardous Materials Operations for First

Responders course to address all competencies required by the administrative rules of Oregon OSHA (ORA 437-02-11-(q)(6)(ii).

The Siuslaw National Forest will have individuals trained at the operations level on each major administrative unit (Hebo RD and Central Coast RD) and at the Supervisor's Office.

First Responders at the Operations Level shall have received at least eight hours of training or have sufficient experience to objectively demonstrate competency in the following areas in addition to those listed for the Awareness Level, and the employer shall so certify:

a) Knowledge of the basic hazard and risk assessment techniques,
b) Know how to select and use proper personal protective equipment provided to the first responder operational level (See Section XI),
c) An understanding of basic hazardous materials terms,
d) Know how to perform basic control, containment and/or confinement operations within the capabilities of the resources and personal protective equipment available with their unit,
e) Know how to implement basic decontamination procedures, and
f) Have an understanding of the relevant standard operating procedures and termination procedures.

C. Hazardous Waste Operations and Emergency Response (HazWoper):

On-Scene Incident Commanders or personnel operating in the Operations Section Chief or Division/Group Supervisor role on larger incidents are required to have Awareness and Operations certification plus the following: Hazardous Waste Operations and Emergency Response (HazWoper) and Hazardous Materials On Scene Incident Command. 29 CFR 1910.120 (q)(6)(v) requires that "incident commanders, who will assume control of the incident scene beyond the first responder awareness level, shall receive at least 24 hours of training equal to the first responder operations level and in addition have competency in the following areas and the employer shall so certify:" ICS system; Emergency Response plans at local, state, and federal level; hazards associated with personal protective clothing; and decontamination procedures.

D. Hazardous Materials Technician:

29 CFR 1910.120 (q)(6)(iii) defines the hazardous material technician as "individuals who respond to releases or potential releases for the purpose of stopping the release." The State Fire Marshal has specifically designed the Hazardous Materials Technical course to address all competencies required by the administrative rules of Oregon OSHA (ORA 437-02-11-(q)(6)(iii). Because of the required training and medical requirements of Technician Level personnel, the Siuslaw National Forest has elected not to train employees to this level. Clean-up of hazardous materials incidents will be conducted by state certified contractors.

E. On-Scene Incident Commander:

The On-Scene Incident Commander will assume control of the incident scene beyond the first responder awareness level. The On-Scene Incident Commander is required to have 24 hours of training equal to the first responder operations level and additionally to display the competencies outlined in 29CFR1910.120 (q)(6) (iii) and (v) respectively, and the employer shall so certify. This individual would provide technical support or command operations over the entire Forest.

This individual, from either the Districts or administrative units or Supervisor's Office, will be available for utilization by other Districts or Forests as situations arise. The Siuslaw National Forest will strive to maintain one individual at Hebo, two individuals at the South Zone, and one person at the Supervisor's Office, that is fully trained to handle Incident Command, Operations Section Chief, Division/Group Supervisor or other functions, such as contract inspection for hazardous waste clean up, on any incident. At a minimum, the Forest will have one to three individuals trained to the On-Scene Incident Commander level.

The Siuslaw National Forest policy is that all emergency response coordinator positions are open to any interested individual, regardless of grade or functional group.

F. Re-certification and Continuing Education Requirements: 29CFR1910.120 (q)(8)(i) states that employees "shall receive refresher training of sufficient content and duration to maintain their competencies or shall demonstrate competency in those areas at least yearly." Section (ii) states that the "employer shall keep a record of the methodology used to demonstrate competency." The Siuslaw National Forest requirements for re-certification are as follows:

- **Awareness Level Personnel**: Refresher or demonstrated competency annually.
- **Operations Level or District Incident Manager**: Eight hours appropriate training annually. Repeat the Operations course every third to fifth year or demonstrate competency.
- **On-Scene Incident Commander or Technician**: 24 hours of appropriate training annually or demonstrate competency.

III. EMERGENCY RECOGNITION AND PREVENTION

Action 1: First Operational Priority - Recognition.

Detecting the presence of a hazardous material spill incident is the first step in the response sequence to a successful outcome. Observing any of these outward warning signs should serve as an immediate **RED FLAG** to initial responders at an incident:

- Collapsed victims,
- People running from a hazardous area,
- Flames or smoke,

- Rising sound from a venting safety device,
- Hissing sound,
- Unusual smells,
- Dead mammals, birds and insects at the scene.

If you observe any of these conditions, or anything else out of the ordinary, **DO NOT MOVE CLOSER TO THE INCIDENT SCENE**. Proceed to **Action 2**.

Action 2: Second Operational Priority - Notification.

Once you have determined that you have a hazardous materials spill incident, first contact your Emergency Response (Spill) Coordinator (See Pages 5-10). If the District Emergency Response Coordinator is not available, contact Eugene Dispatch 541-225-6400. They will be responsible for contacting an adjacent District Emergency Response Coordinator and the appropriate agencies listed below. No other phone calls are required by the reporting person.

Radio or phone your location to your District, administrative unit and Eugene Dispatch, and indicate what you have observed. Set a time interval for call back. Failure to call back on time will automatically trigger a dispatch of help to your reported location. **If you are not trained to the Hazardous Materials Awareness Level and Emergency Response at Operational level, do not approach the scene any farther.** Eugene Dispatch or the appropriate District personnel, either by radio, phone or on-site inspection, will determine the scope and extent of hazard and necessary actions. Where further action is required, the District Emergency Response Coordinator will work together with Eugene Dispatch to inform the appropriate agencies and other Forest personnel. The reporting unit will assign an incident number (if appropriate), begin the Spill/Discovery Incident Report, and assist as requested.

IV. Safe Distances and Places of Refuge

Action 3: Third Operational Priority - Protect yourself first.

Responding personnel who approach too closely to an incident for size-up can increase the magnitude of the incident by requiring additional personnel to respond and remove them from the disaster they've created from an otherwise routine incident. For every 100 feet you move away from the hazard, the safety factor increases exponentially. Always position vehicles and apparatus so that they are headed away from the incident scene. A general staging area distance rule of thumb is 2,500 feet, to be used early in the incident while definitive information is not available.

Treat All Spills With CAUTION. You are not required, expected or authorized to do work you are not trained to do. Take all safety precautions necessary to protect

yourself and others. At a minimum, this includes keeping a safe distance away and positioning yourself in an upslope and upwind position.

V. SITE SECURITY AND CONTROL

Action 4: Fourth Operation Priority - Secure the scene.

At any Hazardous Materials Incident, the individuals or units first upon the scene should **ISOLATE** the Hazard Area and **DENY ENTRY**. This action allows incoming units to be staged in a safe location and simultaneously begins establishing a large outer perimeter to prevent convergence into the scene. "Convergence" is the movement of people toward or into an emergency area, usually to satisfy their curiosity. If possible and in a safe manner, try to reduce or restrict the movement of contaminated accident victims or bystanders away from the incident. They will require decontamination prior to any treatment. Remember, you may have to forgo treatment of injured contaminated victims, in order to protect yourself and stabilize the scene.

Action 5: Fifth Operational Priority - Size Up and Identify Source.

The On-Scene Incident Commander (having previously received the appropriate training and authorizations) will complete securing the area, size up the situation, and identify the source or generator if possible. Factors to consider include:

- Approach from the upwind direction and use binoculars.
- Avoid fumes, smoke, vapors and dust of materials.
- Note topography, weather, water sources, drainages, and access.
- Locate placards or shipping papers for identification.
- Estimate type and quantity of material.
- Do not smoke or use flares as warning devices. Keep sparks or open flames away.
- Set up perimeters quickly on arrival.
- Move uncontaminated people away from the incident area.
- Gain control of all access routes.
- Be prepared for shifts in wind direction.
- Preserve evidence and gather information.

VI. EVACUATION ROUTES AND PROCEDURES

Because evacuation can impact agencies within an area, and can cross-jurisdictional boundaries, evacuation planning must cooperatively involve as many agencies and jurisdictions as appropriate. There are several important considerations necessary in determining the need for an evacuation, planning for an evacuation, and executing the plan.

A. Emergency responders should park in a location that permits open roadways for arrival of additional emergency equipment, or a safe and rapid retreat if conditions deteriorate. General evacuation routes, both primary and secondary, should be determined in advance.

A. Decisions involving areas of evacuation responsibility should be made in advance and consider:

1) Who will specifically coordinate the activity,
2) Whether relocation centers are needed, and where will they be placed,
3) Who will coordinate traffic control,
4) The effectiveness of evacuation in limiting exposure as affected by the time required to evacuate,
5) What assistance can be provided by the media in making the announcement, and
6) Whether shelter-in-place is a viable option.

C. The North American Emergency Response Guidebook (D.O.T. guidebook) can provide some limited guidance on when evacuation is necessary and initial isolation and evacuation distances for specific materials.

VII. DECONTAMINATION

All workers at a hazardous materials incident are expected to understand and implement decontamination procedures. The goal of decontamination is to minimize the potential harm to people, the environment and property, from exposure to dangerous substances by eliminating or reducing the hazards of the chemical contamination. **Decontamination** is the process of removing contaminants that have accumulated on personnel and equipment by physical or chemical means.

The extent of decontamination depends on a number of factors. The most important is the type of contaminants and the level of contamination. By avoiding contamination through proper positioning of people, apparatus and equipment, you can eliminate the need to decontaminate. Decontamination plans should identify procedures for:

- Obtaining technical assistance on health and toxicity information,
- Obtaining disposal information for contaminated materials,
- Routine notification of health care facilities, and,
- Decontamination methods, equipment needs, stations, and personnel roles.

VIII. EMERGENCY MEDICAL TREATMENT AND FIRST AID

Emergency responders must realize that in many hazardous material incidents it is necessary to take other actions prior to rescue to maximize the life safety protection afforded to ALL persons. In a hazardous material incident, you may have to delay attending to the injured in order to save the lives of many others. Emergency responders ***must*** take the time to assess the incident and the level of personal protective clothing available before affecting a rescue. Failure to adhere to these safety principles may cause emergency responders to become victims themselves.

Dialing 911 can activate the Emergency Response System for the county in which the incident takes place.

IX. EMERGENCY ALERTING AND RESPONSE PROCEDURES

A host of Federal and State laws and regulations require reporting of hazardous materials spills to the appropriate agencies. This reporting is tiered in nature and not integrated. In other words, reporting to one level does not necessarily inform the next level above or below. Regulations require that ALL levels be informed if certain conditions or triggers are met. Eugene Dispatch 541-225-6400 will be the principal contact point for notification both internally and externally. Depending on the extent of the incident, Dispatch will inform the appropriate County, State and Federal Agencies, Supervisor's Office personnel, Law Enforcement Groups, and the Hazardous Materials Incident Management Cadre. Unless extenuating circumstances occur, Eugene Dispatch should be the only section placing calls to the various interested parties. Incident personnel are expected to keep Eugene Dispatch fully apprised of the status of an active incident. When appropriate, the phone call to the Oregon Emergency Response System (1-800-452-0311) will fulfill Title III, Section 304 "Emergency Notification" requirements. For levels of Response and Reporting, see page 1.

X. TERMINATION, CRITIQUE OF RESPONSE AND FOLLOW-UP

A. Termination

The Incident Commander is responsible for insuring that the proper termination of an incident occurs. Items to cover during the termination session include:

- Substance(s) involved and potential exposure concerns,
- Signs and symptoms of overexposure to those chemicals,
- Equipment out-of-service or requiring replacement,
- Protective clothing and/or equipment still requiring decontamination,
- Contact person who can answer questions about the response after the termination process has been completed, and
- Medical facility to report to if any signs or symptoms of overexposure develop.

B. Critique

Critique is essential to improve performance, but not to assign blame. The purpose of the critique is to:

- Determine if the Emergency Response Plan was followed,
- Discuss any procedures that require changing, updating, or deleting,
- Determine any equipment deficiencies,
- Identify any training deficiencies, and
- Implement procedures to prevent the incident from occurring again.

Ideally, the critique should occur within two weeks of the incident termination, and all individuals who responded to the incident would participate in the critique. On most serious incidents, critical incident stress debriefing should be considered as part of the termination process.

XI. PERSONAL PROTECTIVE AND EMERGENCY EQUIPMENT

Personal protective equipment (PPE) is divided into four categories based on the degree of protection afforded.

- **Level A** is selected when the greatest level of skin, eye and respiratory protection is required.
- **Level B** is used when the highest level of respiratory protection is necessary but a lesser level of skin protection is needed.
- **Level C** is required when the concentrations and types of airborne substances are known and the criteria for using air-purifying respirators are met.
- **Level D** should be used when the atmosphere contains no known hazard, and the work functions preclude splashes, immersion or contact with hazardous levels of any chemicals.

Unless extenuating circumstances are present, *Siuslaw National Forest personnel are permitted to utilize only Level D personal protective equipment (PPE).*

The Forest Service role will be one of incident management, not clean up. The Siuslaw National Forest does not intend to equip Forest Service personnel to contain or clean up unknown material. When a Forest Service employee discovers an unknown substance, regardless of location, that person will treat the substance as "hazardous" until it is identified by qualified personnel. Clean up will be conducted only by a qualified commercial vendor or specially designated agency (local, state or federal) personnel. The primary exception to this rule is with small spills of oil, gas, diesel, known hazardous materials with appropriate PPE, or non-hazardous substances (such as food stuffs), ***where we have the expertise and equipment to handle the problem***. In general, all reasonable efforts will be made to take preventative and/or containment actions of spills or releases, to reduce the threat to the public and to minimize impact to the environment. These efforts will be taken in such a manner that responding personnel will not be threatened or harmed.

The incident commander will manage the spill/discovery until the situation is resolved, cleaned up, or they are properly released. Records will be kept of all correspondence and costs during the evaluation, investigation and cleanup process. Cleanup is the responsibility of the agency, contractor or shipper that caused the spill, who is known as the "potentially responsible party." The Forest Service will initiate cost recovery actions for cleanup of hazardous materials. SO Engineering will be responsible for the actual contracting to perform work or the implementation of cost recovery procedures. In addition, at the completion of activities, a written report (Hazardous Materials Incident Report, should be sent to the State Emergency Response Commission within

the Emergency Management Division of the Department of Environmental Quality. Finally. A follow-up report should also be sent to the Oregon State Fire Marshall's Office within seven days on the form they provide for this type of documentation.

XII. COST RECOVERY

A. CERCLA Cost Documentation

The Forest Service is entitled by law to reimbursement of all costs incurred in conducting response actions under CERCLA, including salaries and travel expenses of each and every employee assisting in the assessment phase. This cost documentation guidance provides information and guidelines for use by Forest Service employees to document costs for activities related to cost recovery and natural resource damages. To collect from Responsible Parties it is essential that we maintain adequate supporting documentation for the activities and costs associated with the incident. Supporting documentation for each case must be sufficient to withstand judicial review because of the potential for litigation with Responsible Parties. Establish incident specific job codes to facilitate cost tracking. Use the Project Manager's Statement and monthly transaction registers to accumulate costs.

Resource documentation should itemize all expenditures, costs and activities for which we are seeking payment. This includes: expenditures by individual (giving name, title or position, activity performed, time on task, hourly rate, travel cost, per diem, out of pocket or extraordinary expenses), equipment purchased or rented with the daily or hourly rate, materials, and consulting fees. Preferably, daily logs should be completed on the date of activity. If this is not possible, daily logs should be completed as close to the time of activity as is reasonable. Original documentation is preferred. Indirect costs should be included. Use the unit rate developed in compliance with Forest Service guidelines. Ensure that proper supporting documentation for rate calculation is available should the rate be challenged.

To hold Responsible Parties liable for costs, documentation must be linked to the incident. Establish separate job codes to track costs; the documentation should match information on monthly transaction registers. Separate job codes must be established for cost recovery and natural resource damages for each incident. Documentation should include names, addresses, and phone numbers of key individuals involved in the incident who can and will attest to the accuracy of the information contained in the documentation. These individuals may be required to provide testimony related to response and natural resource damage activities and associated documentation.

B. Spill Categories

For the purposes of cost accounting and recovery, spills can be categorized as follows:

1. ***Spills resulting from Forest Service activities***. The resource function or project causing the spill will bear all costs related to the spill. Supplemental funds may be requested from the Regional Office.
2. ***Spills threatening National Forest lands or resources resulting from other than Forest Service activities, where the responsible party can be identified.*** The responsible party will bear all costs. Any cost the Forest Service incurs will be reimbursed by the responsible party.
3. ***Spills or discoveries where the responsible party cannot be identified.*** An incident investigator* will attempt to determine the identity of the responsible party. Cost incurred and actions taken by the Forest Service shall be well documented to support requests for reimbursement from:
    a. The U.S. Coast Guard Pollution Revolving Fund (oil fund), for reimbursement of cost incurred for spills of oil directly or potentially affecting navigable waters.
    b. The Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA/SUPERFUND), for reimbursement of cost associated with the removal of hazardous materials that may threaten the public. An inquiry as to the availability of Super Fund for control/clean-up of a spill or discovery must be made at the time of initial notification to the Environmental Protection Agency.
    c. The Super Fund and Reauthorization Act of 1986, (SARA).

* The Incident Investigator is anyone designated by the Line Officer to conduct the official investigation. The duties described in this document for Forest and District Hazardous Materials Incident Managers do not at this point include conducting a follow up investigation. Although they could overlap, a more appropriate investigation might be conducted by someone not directly involved in the initial incident management. Generally, at most significant incidents, law enforcement personnel should be called as soon as possible to investigate for potential civil/criminal prosecution and/or clean up cost recovery.

C. Record Keeping Items

1. Personnel involved. Include at least:
    a. Series, grade, hours and (clock) time worked; and
    b. Position, duties.
2. WCF equipment costs should be reflected for equipment used during the activity. Include:
    a. Description of item,
    b. Fixed Ownership Rate (F.O.R.) and a copy of rate schedule, and
    c. Charges such as hours, mileage or fuel fee, not included in F.O.R.

3. Incident-related purchases or equipment rental should be reflected on the documentation. Some examples of purchased items and services are: protective clothing, photo processing, photocopying, or other small purchases. Include as appropriate:
    a. Description of item,
    b. Copy of Purchase Order,
    c. Equipment Rental Agreements,
    d. Invoice,
    e. Receipts.
4. Travel and per diem documentation should be included.
    a. AD-616, Travel Vouchers,
    b. SF-1164, Claims for reimbursement for Expenditures on Official Business,
    c. AD-202, Travel Authorization.
5. Indicate whether contractors were authorized to perform services on the date reported in the daily log. Only list contractors who are contracted and paid through the Forest Service.
    a. Copy of contract,
    b. Daily logs,
    c. Contractor invoice,
    d. Miscellaneous pay documentation.
6. Indicate whether other Federal or government agencies performed services under agreements with the Forest Service.
    a. Name - Agency name and unit,
    b. Executed agreement,
    c. Bills with supporting documentation,
    d. Miscellaneous pay documentation.
7. A description of the work performed each day should be included with the daily log.

Hazardous Materials Spill Incident Report

Date		Time		Agency Incident Number	
District				Incident Commander	
Reported to:	District			S.O.	
Reported by:	Name			Organization	
LOCATION				County	
Road #		Name		Legal T	R S ¼
Miles		N S E W (circle one)	from Geographic Landmark (bridge, road junctions, landform)		
Stream Name		Land Status (Federal, private, etc.)			
OREGON Emergency Response System			Required:	Yes	No
Reported to OERS 1-800-452-0311		Date		Time	
Report received by					
Assigned Report Number					
NATIONAL RESPONSE CENTER			Required:	Yes	No
Reported to NRC 1-800-424-8802		Date		Time	
Report received by					
Assigned Report Number					
MATERIAL DISCHARGED	Identity or name (if known)				
Nature of Incident					
Quantity discharged					
Discharge occurred or first observed		Date		Time	
RESOURCES AFFECTED (or potentially affected)					
Public Health					
Environment	Air				
	Water				
	Soil				
Other resources involved					

Hazardous Materials Spill Incident Report (continued)

Number and type of injured or fatalities	
Have evacuations occurred?	
DISCHARGER	
Name of Discharger	
Telephone Number	
Address	
Other Identification	
Cause	
Intent and capability regarding containment and cleanup	
STATUS OF CONTAINMENT AND CLEANUP	
Responsible Agency	
On Scene Coordinator	
Resources (equipment, supplies, personnel) on scene	
Resources ordered	
Estimated dollar amount of property damage	
Type of assistance you require (air monitoring, emergency response, medical)	
Comments	
(please attach any additional comments)	

SIGNATURE	DATE	TITLE

CERCLA INCIDENT DAILY COSTS

Note: This is a guide for recording daily costs. Documentation of these costs should be attached. A description of the work performed each day should also be attached.

Unit		Date	
Incident Name		Management Code	
Name of Person Reporting			
Position			

PERSONNEL TOTAL for this date: $_____

Name	Title	Grade	Hours	Hourly Cost to Government	Amount

EQUIPMENT TOTAL for this date: $_____

Item Description	Unit Rate Basis	# Units	Rate/Unit	Amount

PURCHASES TOTAL for this date: $_____

Item Description	Requisition Number	Amount

TRAVEL TOTAL for this date: $_____

Name	AD-616 or SF-1164 submitted for payment? If yes, list amount of voucher

CONTRACTORS TOTAL for this date: $_____

Were contractor services authorized for this date? If yes, list contractors

Name	Address	Contract Number

OTHER AGENCY INVOLVEMENT TOTAL for this date: $_____

Were other agencies (Federal, State and/or County) working on the site this date?

Name		Agreement Number	

WILLAMETTE NATIONAL FOREST

EMERGENCY RESPONSE PLAN

(Oil and Hazardous Substance Pollution Contingency Plan)

May, 2019

Prepared By: Roger L. Bell, Facilities Manager

_____

Reviewed By: Fred Levitan, Forest Hazmat Coordinator

_____

Approved By: Tracy Beck, Forest Supervisor

_____

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Authority

Resource Conservation and Recovery Act (RCRA) - (Title 42, United States Code, section 6901 et seq.; 42 U.S.C. 6901 et seq).

Emergency Planning and Community Right-to-Know Act (EPCRA) - (42 United States Code section 11001 et seq.; 42 U.S.C. 11001 et seq).

Occupational Safety and Health Administration (OSHA) - (Title 29, United States Code, section 651 et seq.; 29 U.S.C. 651 et seq).

Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) of 1980 - (Title 42, United States Code, section 9601 et seq).

Federal Water Pollution Control Act, as amended by the Clean Water Act (CWA) of 1977 - (Title 33, United States Code, section 1251 et seq.; 33 U.S.C. 1251 et seq).

Oil Pollution Act (OPA) of 1990 – (Title 42, United States Code, section 13101 et seq.; 42 U.S.C. 13101 et seq).

Department Manual (DM) 5600-1 – Environmental Pollution Prevention, Control, and Abatement Manual

Forest Service Manual (FSM) 2160 – Hazardous Materials Management

Definitions

Hazardous Substances. RCRA hazardous wastes, as well as, substances designated as hazardous under Sections 307 and 311 of CWA, Section 102 of CERCLA, Section 112 of CAA, and Section 7 of TSCA. Excludes oil.

National Contingency Plan. The Environmental Protection Agency's plan to provide the organizational structure and procedures for preparing for and responding to discharges of oil and releases of hazardous substances (40 CFR 300.2).

National Response Team. A team chaired by the Environmental Protection Agency and the U.S. Coast Guard. The team is made up of representatives of several Federal agencies, including the Department of Agriculture. The team is responsible for national response and preparedness planning for releases of hazardous substances and discharges of oil (40 CFR 300.105).

Natural Resource Damage Assessment. Process used to quantify damamges to natural resources caused by the release of contaminants.

Natural Resource Damage Estimate. This estimate includes past costs and estimated future costs of natural damage preassessment screens and assessments; injury restoration; rehabilitation; acquisition of equivalent natural resources; and loss use values including salaries, per diem, travel, equipment purchased or rented, materials purchased, contractor services, consulting fees, interest, and indirect overhead costs.

Oil. Oil l of any kind or in any form, including petroleum, fuel oil, sludge, oil refuse, and oil mixed with
wastes other than dredged spoil, but does not include any substance which is specifically listed or designated as a hazardous substance under subparagraphs (A) through (F) of section 101(14) of the Comprehensive Environmental Response, Compensation, and Liability Act (42 U.S.C. 9601) and which is subject to the provisions of that Act.

Potentially Responsible Parties. The owner or operator of a facility or vessel where a hazardous substance has been deposited, stored, disposed of, or otherwise come to be located; any person who at the time of disposal of a hazardous substance owned or operated the facility; any person who arranged for the treatment, transportation, or disposal of a hazardous substance; or any person who accepts hazardous substances for transport to disposal or treatment facilities selected by such person (42 U.S.C. 9607 (a)).

Release. Any spilling, leaking, pumping, pouring, emitting, emptying, discharging, injecting, escaping, leaching, dumping, or disposing into the environment (including the abandonment or discarding of barrels, containers, and other closed receptacles containing any hazardous substance or pollutant or contaminant).

Reportable Quantity. Table 302.4 of 40 CFR 302 lists hazardous substances and associated quantities for each substance. In 40 CFR 302.5(b), additional hazardous substances are specified and associated quantities are provided.

Reportable Quantity Release. If, in a 24-hour period, a quantity equal to or greater than the quantity specified in table 302.4 or in section 302.5 is released, that release (FSM 2164.05) is a reportable quantity for the purposes of reporting to the National Response Center (1-800-424-8802).

Trustee. An official of a Federal or State natural resources management agency or Indian tribe who may pursue claims for damages under CERCLA (42 U.S.C. 9607(f)). Federal trustees are designated in Executive Order 12580. Federal, State and Indian tribal trustees are listed in the National Contingency Plan (40 CFR 300, Subpart G).

Acronyms

CWA	Clean Water Act
CAA	Clean Air Act
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act of 1980
RCRA	Resource Conservation and Recovery Act of 1976
FIFRA	Federal Insecticide, Fungicide and Rodenticide Act of 1972
TSCA	Toxic Substances Control Act
CFR	Code of Federal Regulations
DHS	Department of Health Services
OES	Office of Emergency Services
WRCB	Water Resource Control Board
RWQCB	Regional Water Quality Control Board
ODOT	Oregon Department of Transportation
NCP	National Contingency Plan (40 CFR PART 300)
NRC	National Response Center
RRT	Regional Response Team
OSC	On-Scene Coordinator
RQ	Reportable Quantities
SPCC	Spill Prevention Control and Countermeasures
TSD	Transportation, Storage and Disposal
UST	Underground Storage Tanks
FSM	Forest Service Manual
OSP	Oregon State Police

Introduction

Federal, State and local laws as well as Department and Agency directives and manuals require planning for reporting and responding to releases of oil and hazardous substances on National Forest System lands as well as facilities leased by the United States and managed by the Forest Service.

Oil and hazardous substances released on National Forest System lands in Region 6 range from releases from Forest Service facilities to third parties releases resulting from illegal abandoned dumps or transportation (vehicle and rail) related accidents. Incidental releases can be absorbed, neutralized or otherwise controlled at the time of release by Forest Service employees in the immediate area or by maintenance personnel. However, most of the releases are beyond the capability of employees or maintenance personnel and require regulatory (Federal and State) and environmental response contractor and assistance.

The Willamette National Forest (WNF) Oil and Hazardous Substance Pollution (HSP) Contingency Plan (hereafter referred to as "The Plan") establishes response procedures for oil and hazardous substances incidents occurring within the Willamette National Forest. The Plan identifies federal, state and local responsibilities designed to minimize exposure and damage to human health and the environment that may be caused by the release or threatened release of oil and hazardous substances on National Forest System lands and leased facilities managed by the National Forest.

The Plan directs Forest Service response to: (a) discharges resulting from Forest Service activities on National Forest lands or private lands and/or (b) discharges by third parties on National Forest lands. The Plan is consistent with the planning efforts of federal, state and local government and assists Forest Service employees in responding appropriately to oil and hazardous substances releases.

The Plan is established pursuant to FSM 7443 Supplement #17 (1986) and the National Oil and Hazardous Substance Pollution Contingency Plan and should be used for pre-incident planning, during an oil or hazardous substance release emergency and as a guideline to determine who has jurisdiction during emergency response activities.

Objectives

The objectives of this plan are to provide direction for:

- Protecting the health and safety of Forest users and employees;
- Timely response to accidental or unlawful discharge of oil or hazardous substances on or threatening National Forest Resources;
- Notifying Forest Service and other Federal, State or local agencies in case of an oil or hazardous Substance incident within the boundaries of the Willamette National Forest or leased Facilities managed by the Willamette National Forest;
- Clean-up, abatement, restoration and disposal of oil or hazardous substances spilled or Discharged on the National Forest;

Policy

Forest Service policy (manual direction) limits response activities (for releases that are not considered incidental) to collecting as much information as possible from a safe distance and immediately reporting that information to the appropriate emergency response authorities in accordance with the Forest's Oil and Hazardous Substance Pollution Contingency Plan. Forest Service policy does not allow Forest Service employees to perform containment and clean-up activities.

Emergency response contractors must be used to clean up large releases caused by Forest Service activities and/or releases where the responsible party is unknown or unwilling to perform clean-up activities. Cost recovery shall be pursued in cases where the responsible party is unwilling to perform clean up. All emergency response contractors must be licensed and/or certified to perform emergency response clean-up activities in the State of Oregon.

Release Response Basics for Employee Discovering Release

!! RELEASES ARE TO BE TAKEN SERIOUSLY AND REPORTED!!

1. STAY AWAY

If a release is discovered, move a safe distance away. Stay uphill, upwind or upstream. Every release is potentially dangerous and should be treated as such.

2. NOTIFY DISPATCH

Notify the Forest Dispatcher by radio or telephone (541-225-6400) and report the details of the release.
Without going back to investigate, you should report the conditions associated with the release. What conditions were present? Was the release in a confined space? Were sources of ignition present?
Was there an odor that could be easily identified? Is the released material a solid, liquid or gas? What hazard warning labels were present? Are you able to see who is responsible for the release? If a company name or logo on a vehicle is visible, take note or photos if possible. Include this information in your report to Dispatch. Get a good GPS location to report to dispatch if possible.

Request assistance from the Forest's Spill Coordinator.

Hazardous Material Emergency Notification and Reference List

1. Notify EICC (Dispatch) 24hrs 541-225-6400
2. EICC will contact WNF Hazmat Coordinator, Fred Levitan 541-225-6366
3. Notify Oregon Emergency Response System (OERS) 1-800-452-0311
4. Notify Oregon Department of Environmental Quality (ODEQ) 1-800-452-0311
5. Notify National Response Center (NRC) 1-800-424-8802
6. Chemtrec (Chemical Transportation Emergency Center) 1-800-424-9300
7. National Poison Control Center if poison chemicals involved 1-800-222-1222
8. State Water Resources Division, if applicable (541) 378-8455
9. WNF Offices:

Supervisor's Office	(541) 225-6300
Detroit	(503) 854-3366
McKenzie River	(541) 822-3381
Middle Fork	(541) 782-2283
Sweet Home	(541) 367-5168

Note* If incident involves drugs or criminal activity, stay out of the area, and contact the Law Enforcement Office at 541 225-6489

Environmentally Sensitive Areas

Indiscriminate illegal dumping and transportation related incidents occur on National Forest System Lands that are in close proximity to watersheds used for domestic water supplies and/or recreation as well as habitat for sensitive, threatened and endangered species.

In order to protect these critical resources, every effort should be made to contain and prevent oil or hazardous substances from reaching surface or subsurface waters and habitat for sensitive, threatened and endangered species.

Cleanup and rehabilitation of these resources could result in the expenditure of thousands, hundreds of thousands or millions of dollars. The pollution of a natural resources could result in the loss of a valuable resource for many years. The listing below identifies critical watersheds and habitat for sensitive, threatened and endangered species on the Willamette National Forest.

Timely and appropriate response to an incident involving these locations will assist in the protection of the natural resource.

In the event of an oil or hazardous substance release, coordinate response to the release with the Forest Service point of contact shown next to the resource.

Waterways-Contact ODFW, Forest Hydrologist, Fish biologist, and Coast Guard
Vegetation- Contact the Forest Botanist
Watersheds-Contact the local Watershed Council Manager

Probable Locations for Pollution Incidents

Although, oil and hazardous substances can be spilled or dumped most any place on the Forest, the locations shown below are potentially the most probable location for accidental pollution incidents.

District storage areas (yards, warehouses, lockers, shops)
Dispersed camping areas
Rail and highway corridors
Recreational sites (reservoirs, campgrounds, boat launches, OHV areas)
Fire incidents
Timber operations

Facilities storing large quantities of oil and/or hazardous substances and transportation routes have the potential to result in a high frequency of oil and/or hazardous substances releases. Large quantities of hazardous substances are stored at District Warehouses, Hazmat lockers, gas houses, auto/road maintenance shops, and storage facilities throughout the forest. Older facilities such as housing residences may contact lead based paint and asbestos.

Resources Needed for Spill Response

To aid in assessing the release, the items listed below are useful and should be used to aid the Forest Spill Coordinator in preventing entry to the release, completing the required notifications and documenting the release.

- Camera
- Cell Phone/USFS Radio
- Nitrile or Latex Gloves
- Emergency Response Guidebook (DOT), latest edition or App on Cell Phone
- Drug Enforcement Agency List of Hazardous Materials
- Covered Clipboard
- Forest Spill Report Forms
- Caution Tape
- Flashlight/headlamp
- Binoculars
- Paper
- Pencils
- WNF Map / District Map
- WNF Emergency Response Plan (Spill Plan) - Notification Procedures
- Tape Measure
- GPS
- Measuring wheel

Clean-up Resources

Forest Service Contractors

A Forest Service regional hazardous waste IDIQ contract is available, for use in responding to releases. Use of this contract is not mandatory, however, it is available to help facilitate and expedite the removal of oil or hazardous substance released as a result of accidental or illegal releases. (See Appendix G for a copy of the contract and discussion of the procedures to be followed in accessing and utilizing this contract).

Local Contractors

Various companies provide (at a cost) equipment and personnel to clean up and dispose of oil or hazardous substances. A listing of these resources is provided below.

First Strike Environmental Co.	1-800-447-3558
Northwest HazMat	1-800-597-1323
SMAF Environmental	1-800-875-7069
White Shield Inc.	1-800-899-4672

A hazardous waste manifest must accompany the shipment to the disposal facility. This form is required by federal EPA and Oregon Department of Health Services. (Instructions for completing this form are shown in Appendix B).

In the event that the spill is classified as incidental and Forest Service personnel are cleaning up the release, the Willamette National Forest has a limited supply of miscellaneous materials and equipment that may be used during the clean-up and removal operations. Hazmat equipment response trailers are located on each District. Each trailer contains absorbent pads, booms, containment drums, PPE, etc.

WNF Organizational Structure for Spill Response

The Forest Supervisor has been delegated authority and program responsibility at the Forest level and shall appoint a Hazardous Materials Program Coordinator.

The Hazardous Materials Program Coordinator is the overall coordinator for the safe management of hazardous substances and is responsible for management of oil or hazardous substances releases. The Hazardous Materials Program Coordinator will be responsible for: unit contingency planning (annual update of the spill response plan), coordinating emergency spill response, interagency coordination, interstaff coordination, arranging contract/purchasing for spill cleanup, identifying funding, familiarity with applicable regulations, ensuring notification requirements are carried out, training employees in spill response procedures, ensuring that the proper natural resource damage assessment is conducted and that a natural resource damage assessment report is prepared.

The Forest Spill Coordinator will assume coordination of activities for pollution discharge incidents on Willamette National Forest land until assumption by the predesignated On-Scene Coordinator (OSC), if applicable. The United States Coast Guard is the predesignated OSC for coastal areas while the United States EPA is the predesignated OSC for inland areas. In most cases, the predesignated OSC does not coordinate activities unless the spill is large or there is a substantial threat to life or property. If the United States EPA is not available to coordinate inland area spills, the Forest Spill Coordinator will work with the State of Oregon Department of Fish and Wildlife's Office of Spill Prevention and Response.

Generally, in place of the USCG and EPA, the Oregon State Department of Fish and Wildlife may direct the cleanup and containment of inland water-related discharges, and ODOT or the Oregon State Police direct containment and clean-up of road-related discharges. In the event of an accidental discharge which poses threat to human health and safety, or one that is over 10,000 gallons in quantity, the EPA may assume role as the OSC.

Therefore, it is necessary that the Forest Spill Coordinator contact the Regional Office Spill Program Manager (Julie Creed). This will allow the Spill Coordinator to safely initiate, direct and coordinate on-the-scene response operations and request assistance from Federal authorities and to relinquish, with direction from the Forest Supervisor or his/her representative, coordination of activities to the predesignated OSC.

FOREST AND LOCAL CONTACTS

ALWAYS CALL DISPATCH FIRST!

(541) 225-6400

Note: The detailed contact list provided in previous versions of the Spill Plan has been removed. Please contact Willamette National Forest Dispatch (541) 225-6400 to report all hazardous materials releases. This will ensure that all notifications occur in a proper and timely manner, and that important incident details are logged. You may also contact local line officers, emergency responders (Forest Service fire and/or law enforcement), and Forest and District HazMat spill) coordinators as needed, for clarification on response needs and responsibilities.

IF YOU SEE OR HEAR ABOUT A RELEASE ON THE FOREST, INCLUDING ON HIGHWAY AND RAIL CORRIDORS, ALERT DISPATCH! **The incident may not have been reported to the Forest yet. Monitor radio communications if possible to ascertain that the incident has been reported. Dispatch will contact emergency responders and spill coordinators as needed.**

Notification Procedure

Notification is the process that ensures that the appropriate entities are informed of the occurrence of and details related to a release or threatened release of a hazardous material. As a rule, notify the appropriate individuals and agencies, if one or more of the following conditions exist:

- Cleanup required to protect water quality and other resources;
- Downstream users must be notified to protect their health and safety;
- Discharge of a chemical exceeds reportable quantity;
- Discharge of pesticides has occurred;
- Discharge of oil has occurred that causes a sheen, film or discoloration of the surface of the water.
- Responsible party causing release is unable or unwilling to report release.

Federal employees may be found personally liable for criminal actions related to hazardous materials and may be subject to criminal sanctions including fines and imprisonment for **knowingly** failing to report a release.

Approved Disposal Sites

Disposal of cleanup materials must be made by placement in a landfill rated for the class of material requiring disposal. Class I and II sites are available in the Lane County area. These sites are listed below:

Goshen Landfill (Short Mountain) – Lane County Waste Management

In most cases, landfills will NOT accept unknown or unclassified spill materials. For this reason, we rely on certified HazMat cleanup contractors to deliver spilled waste to appropriate disposal facilities, and to provide the Forest Service with signed and certified disposal documents (load tickets). DO NOT take any spill materials to a disposal site without first getting approval from the spill coordinator. THIS IS IMPORTANT because if we dispose of the waste ourselves, we may be classified as a waste generator, which will invoke permitting and inspection requirements. When in doubt, call the spill coordinator!

Update of Emergency Response Plan (Spill Plan)

The WNF Emergency Response Plan (Oil and Hazardous Substance Pollution Contingency Plan) will be updated on an annual basis by the Hazardous Material Program Coordinator. The Spill Coordinator and the Safety coordinator will manage contact lists for external agencies and officials.

Natural Resource Damage Assessment and Rehabilitation

One of the most difficult tasks relating to a release involves an assessment of present and future damages and response actions which are required. The Forest Spill Coordinator should not hesitate to seek technical assistance from a variety of professional specialists. Slow acting materials may not readily alert an untrained eye to the appropriate response. Rehabilitation work will be complete and will put the land and water resources back to a pre-incident condition. In the event that damage assessments are prepared, the reports must document the danger, cause of the discharge, effectiveness of the cleanup measures and response actions. The report would also include suggestions for reducing the chances of such discharges occurring again and improving response action in the future.

A Preassessment Screen must be performed to determine if a discharge or release of a hazardous substance warrants a full-scale Natural Resource Damage Assessment. Instructions for conducting the assessment can be found in 43 CFR 11.23(b). A Preassessment screen must be performed for any spill that involves a Reportable Quantity.

Response Procedure in Event of a Release

FIRST RESPONDERS:

1. Secure the area. Protect yourself and others from the hazard.

2. Attempt to identify the material. Take photos if possible. Keep a safe distance away and stay upwind, uphill or upstream.

3. Notify the Forest Spill Coordinator through the Forest Dispatcher by radio or telephone (541-225-6400). Describe the nature of the event and give the location. GPS coordinates if possible.

4. Warn people downslope, downwind or downstream if substance is a health or safety hazard.

5. Remain at the site (at a safe distance!) and take no further action until the Forest Spill Coordinator or other emergency responders arrive.

6. If the spill is not on National Forest land, remain at the site until an OSP, ODOT or County Environmental Health official arrives.

FOREST DISPATCHER:

1. Contact the Forest Spill Coordinator if the spill is located on National Forest land or has the potential to affect National Forest land.

2. Contact the Forest Law Enforcement Officer (541-225-6489) if the spill is related to illegal drug activities (waste residuals from drug manufacturing activities that are left on Forest lands) or if the person responsible for the spill is known.

3. Contact the Office of Emergency Services, (800) 852-7500.

3. Contact the Oregon State Police (503-986-1122), for spills on all State Highways constructed as freeways, all state-owned vehicular crossings (toll-bridges) and on all highways within the unincorporated areas of the State.

4. Contact the Oregon Emergency Response System at 1-800-452-0311 or the National Response Center at 800 424-8802 if the amount spilled is a reportable quantity per Appendix A of this plan.

5. If the spill is located on railroad property, contact the Union Pacific Railroad at 541-782-3739.

6. If the spill is located near a stream or lake, contact the ODFW at 1-800-720-6339.

Response Procedure in Event of a Release (Con't)

FOREST SPILL COORDINATOR:

1. Arrange for safe collection of soil and or water sample.

2. After results of analysis have been received, contact the RO Spill Program Manager Julie Creed at 503-808-2526 or 503-347-4577.

3. Report the following information: material discharged, location of discharge, cause of discharge, Name of discharger, time and date of discharge, quantity of discharge. This can be accomplished By completing the Spill Response Form shown in Appendix F. Begin CERCLA Cost Recovery Documentation process using the procedures contained in Appendix H.

3. Make other notifications as appropriate. Use Appendix C as a guide for notification.

4. Arrange for funding of cleanup using procedures outlined in this plan.

5. Arrange for cleanup of hazardous material through a reputable HazMat Contractor.

6. If the spill is an incidental release, obtain approval from the RO to perform in house cleanup.

Post Incident Review and Evaluation

Within two weeks after any major incident (defined as an incident that is beyond the capabilities of the WNF Forest), the Forest Supervisor should call for a complete review by the Spill Coordinator and should request appropriate Regional Forester and other agency representation as necessary.

Funding

Environmental Compliance and Protection funds are not available for cleanup of releases. If a responsible party is identified, the Forest will require the responsible party to pay for the release clean up and all costs incurred by the Willamette National Forest. If there is no responsible party, Contact Julie Creed at 503-808-2526 or 503-347-4577 for funding assistance.

Training

Training shall be based on the instruction provided in Forest Service manual direction. The skill and knowledge levels required for all new responders shall be conveyed to them through training before they are permitted to take part in actual emergency operations on an incident. Employees who participate in emergency response shall be given training in accordance with the paragraphs that follow. (Note: It is against Forest Service policy to use Forest Service employees to clean up hazardous material spills. This information is provided to make the reader aware of the training and protective equipment required for responding at the first awareness level.)

Hazardous Materials Response at the Awareness Level is the only release response action authorized by Forest Service Manual 2160. First responders at the awareness level are individuals who are likely to witness or discover a hazardous substance release and who have been trained to initiate an emergency response sequence by notifying the proper authorities of the release. (**FSM 2160 states that all employees, including seasonal workers and volunteers who are likely to discover a hazardous material release, receive Emergency Response Awareness Level training)**. They would take no further action beyond notifying the authorities of the release. First responders at the awareness level shall have sufficient training or have had sufficient experience to objectively demonstrate competency in the following areas:

- An understanding of what hazardous materials are, and the risks associated with them in an incident.
- An understanding of the potential outcomes associated with an emergency created when hazardous materials are present.
- The ability to recognize the presence of hazardous materials in an emergency.
- The ability to identify the hazardous materials, if possible.
- An understanding of the role of the first responder in the employer's emergency response plan including site security and control and the U.S. Department of Transportation's Emergency Response Guidebook.
- The ability to realize the need for additional resources and to make appropriate notification to the communication center.

APPENDIX A – Reportable Quantities

For a list of Reportable Quantities use this website:

https://www.epa.gov/sites/production/files/2015-03/documents/list_of_lists.pdf

For petroleum products ONLY: Reportable quantities in Oregon are:

- For spills on land, with no connectivity to water bodies: one barrel – 46 gallons
- For spills in water or that may eneter water: Any amount (visible sheen)

APPENDIX B – Uniform Manifest

For access to the EPA Hazardous Waste Manifest System, use this website:

https://www.epa.gov/hwgenerators/hazardous-waste-manifest-system

APPENDIX C-Reportable Quantity Notification Checklist

Federal

National Response Center (EPA/Coast Guard)(800) 424-8802
U.S. Forest Service Regional Spill Program Manager (503) 808-2526

State

Oregon Emergency Response System (OERS)	(800) 452-0311
Oregon Department of Environmental Quality (ODEQ)	(800) 452-0311

Non-Reportable Quantity Notification Checklist

Federal

U.S. Forest Service Regional Spill Program Manager (503) 808-2526
(contact the District or Forest HazMat Emergency response Coordinator first)

APPENDIX D – Data to be Reported to Forest Dispatch

1. Location of spill (Forest or Non-Forest land)

2. Type and quantity of material spilled or deposited

3. Immediate threats to life, health or watersheds (See page for list)

4. Hazardous situations such as fire, contaminated persons, traffic, downwind and/or downstream effects

5. Possible contaminant response

6. Cause and name of person(s) causing the spill including the name, address and phone number of the parent organization.

7. Whether those causing the spill intend to take responsibility for lean up.

8. What other agencies have been notified?

9. Progress of clean up to date.

10. Name and telephone number of on-the-scene coordinator.

APPENDIX E – Spill Report (Blank Form)

REPORT OF RELEASE OF HAZARDOUS MATERIALS

NRC #_____

_____ National Forest State #_____

1. Date:	2. Initial:	3. Final:	4.FS Incident Number:
5. Report Preparer:			
6. Location of Spill:			
7. Incident Name:			
8. District Name:		9. County:	
10. Section:	11. Township:	12. Range:E	13. MDM:
14. Water Course Affected:			
15. Nature of Material Released:			
16. Product Name (If Known):			
17. Type of Material Released *(i.e.diesel fuel, ammonia, acid, etc.)*:			
18. Estimated Quantity of Material Released:			
19. Time and Date Released Occurred and/or First Observed:			
20. Direction and Time of Travel if in Stream:			
21. Additional Info Concerning Materials Released:			
22. Name of Responsible Party and Responsible Party's Intent and Capabilities with Regard to Cleaning Up and Abating the Discharge:			
23. Resources and Installation Which May be Affected and Potential Impact on Human Health:			

24. Organization Notified

	Date and Time		Date and Time
FS		District	
LEO		County	
Fish & Wildlife (State)		CHP	
OES (800-852-7550)		**RO (Julie Creed 503-808-2526 or** (b)(6)	
NRC(800-424-8802)		ODOT	
EPA		Water District	
Others			

25. Status of Containment and/or Cleanup:	
26. Estimated Cost of Cleanup	**27. Final Cost of Cleanup**
$	$

28. If the Source of Release is a Forest Service Activity, was (or is) a Project Contingency Plan Available and Implemented for This Release ?

29. Name and Phone Number of Individual Reporting the Incident:

30. Name and Phone Number of EPA On-Scene Coordinator and State Agency if Forest Service Does Not Have Responsibility for On-Scene Coordination:

31. Report Receipents	32. Date Sent
Forest Spill Coordinator –Report preparer	
District Spill Coordinator -	
RO Spill Coordinator (jcreed01@fs.fed.us)*	
Forest Supervisor	
EPA (By Request Only)	
Others	

33. Remarks, Photographs and Other Notes:

***Person highlighted in yellow must be notified and must receive a copy of the initial and final spill report.**

APPENDIX G – Procedures for Accessing Regional Contract

The Regional Hazmat IDIQ Contract is located at the USFS Contracting SharePoint Site: https://usdagcc.sharepoint.com/sites/fs-eu-progops/acqmgmt/contracts/Lists/National%20Contracts/DispForm.aspx?ID=29&e=Dd7H9n

*If this link doesn't work, contact Karen Bower for a new one: kmbower@fs.fed.us

Any Contracting Officer in Region 6 or Region 10 may issue a task order under this contract.

This Appendix includes:

1. A quick reference sheet, listing the Hazmat IDIQ Contractors, the areas they cover, and the Activities covered by the contract

2. An optional task order template (this template is provided for your use, but is not required)

3. The Hazmat IDIQ Text

If you have any questions or need assistance with this IDIQ, do not hesitate to contact:

Karen Bower, Assistant Regional Environmental Engineer – kmbower@fs.fed.us or 541-383-5796

Leslie Solberg, Contracting Officer – lsolberg@fs.fed.us or 503-668-1667

APPENDIX H - CERCLA Cost Recovery Process

The Forest Service collects appropriate facts and cost information to make a timely recovery of costs associated with releases caused by third parties. The authority for cost recovery for emergency responses to releases is OPA for oil and CERCLA for hazardous substances. Cost recovery for both emergency and non-emergency responses to discharges of non-hazardous substances is performed through the collection process. Follow the steps listed below for cost recovery related to releases of oil or hazardous substances.

1. After the release occurs, the Forest Spill Coordinator requests a U job code from the Assistant Regional Office Environmental Engineer (kbowers@fs.fed.us).
2. The Forest Spill Coordinator coordinates with their Forest Budget & Finance staff to ensure the job code is active. **The job code has no funding attached to it and is used to record and track all Forest Service costs for the release.** All costs associated with the release will be charged to the job code. The Forest Spill Coordinator is responsible for recording and tracking the costs of the incident. The job code shall be established as follows:

Position	Description
1	U - Emergency Response Projects
2	Unique Alpha Numeric Location Code Assigned By The Region, No Zero
3	Unique Alpha Numeric Location Code Assigned By The Region, No Zero
4	Unique Alpha Numeric Location Code Assigned By The Region, No Zero
5	Operable Unit Identifier, If No Operable Unit, Use Zero, Assigned by Region
6	3 – Implementation, Assigned by Region

3. The Forest Spill Coordinator works with their Forest Budget & Finance staff and the Albuquerque Service Center (ASC) to process the Forest's claim against the party responsible for the release.

Siuslaw National Forest

EMPLOYEE FIELD COMMUNICATION SAFETY PLAN

2016

EMPLOYEE FIELD COMMUNICATION SAFETY PLAN

I. PURPOSE

Ensuring the safety of all employees of the Siuslaw National Forest is of primary importance and essential in planning and implementing our activities. Safety must be integrated in all work planned and performed on the forest, whether it be in an office setting or forest environment. The Forest's Communication Safety Plan provides units with a standardized guide that provides employees with effective means of communication in emergencies and to ensure employee whereabouts are known during the workday. This plan defines responsibilities, establishes unit plan requirements and identifies procedures when an individual does not return at the designated time, after initial unit procedures have been executed. It is the intent that each unit will develop a communication safety plan that identifies specific procedures and include the policies established here by reference or as an attachment.

II. RESPONSIBILITIES

a. Unit Line Officers are responsible for:

1) Adequate funding and resources to maintain communication systems.

2) Approving and implementing the Unit Communication Safety Plan.

3) Ensuring effective communication procedures are developed through job hazard analysis.

4) Providing operational communication devices to employees on the district.

5) Identifying local procedures for notifying the appropriate authorities if an employee has not checked-in for the designated return time and contact cannot be made.

b. Program Managers and Supervisors are responsible for:

1) Conducting JHAs and ensuring that any unique communication requirements needed for the job are identified and included.

2) Ensuring communication devices are available and in good working order.

3) Providing employee training on the plan requirements, use of communication devices and check-in/check-out procedures.

   - Establish time frames for checking in, if it varies from established Unit procedures, and document in a Project Safety Plan through the Job Hazard Analysis process.
   - Ensure check-in/check-out procedures are communicated and followed.
   - Ensure procedures for check-in after normal work hours are in place and Understood.

4) Following established Unit procedures, if an employee is unaccounted.

5) Accounting for the whereabouts of each of their employees each day.

6) An alternate is designated in the event the supervisor is unavailable.

c. Employees are responsible for:

1) Timely reporting to their supervisor for communication equipment that is not functioning properly, and work with their supervisor to obtain functioning equipment or identify an alternate plan before going to the field.

2) Attending training session(s) and following procedures provided in training.

3) Following the procedures identified in this communication plan, the unit's communication plan, the project safety plan, and tailgate safety session.

II. Procedures for unaccounted Employee(s) when unit is unable to make contact:

The radio dispatch center on the Siuslaw National Forest is Eugene Interagency Communication Center EICC (Eugene Dispatch). After hours service is provided by METCOM Communications.

1) Notify the EICC (Eugene Dispatch) and request assistance in making radio contact with employee.
2) If contact cannot be made following unit procedures, unit will notify the unit line officer and dispatch resources (individuals familiar with the area) to last known location.
3) Assign communications (phone) contact at the home unit.
4) Keep EICC (Eugene Dispatch) as communications link as necessary.
5) If dispatched resources arrive at last known location and cannot locate employee(s) the unit line officer will notify the Forest Supervisor and FS Law Enforcement.
6) METCOM can be contacted after hours at 541-225-6400. They will contact the respective forest on-call duty officer.
7) In cooperation with Forest Service Law Enforcement and county Law Enforcement, initiate search and rescue procedures.

III. Unit Communications Safety Plan requirements:

a. Unit Communication Safety Plans will include the following components:

1) Check-in/check-out procedure for all employees including field and non-field going.
2) Information including destination, route and time of expected return left with supervisor or designated contact person.
3) Procedure to check the communication device.
4) Procedures when working in different weather conditions if additional procedures are needed.
5) Unit specific procedures to implement Forest guidelines when employee(s) have not returned or checked in on schedule.
6) Reference to the Forest radio communication guide. The Siuslaw guide is called Siuslaw NF Emergency/Safety Guide Radio Procedures/Repeaters. The Guide is available in print and on the Forest Safety Sharepoint Site.

b. Project Safety Plan developed from the Job Hazard Analysis:

1) The project communication plan, including Emergency Response procedures, is a component of the Project Safety Plan (JHA documentation)
2) The project safety plan may refer to the Unit and Forest Communication Plan.
3) The project safety plan will include additional procedures when specific needs associated with the project are identified, and not included in the Unit or Forest Communication Plan.

c. Procedures for working in known dead spots:

1) When conducting JHA, the project manager will determine a maximum time for working in dead spots, or the appropriateness of employees to work alone, based on the degree of hazards.
2) Each unit will display in a conspicuous location, a map of the unit with all known dead spots.
3) If employee finds new dead spots they should report them to the Dispatch office who will update the map at the home unit.
4) SPOT Emergency Satellite Devices may be used in these area's (See Appendix C for information on using these devices)

APPENDIX A

METCOM and EUGENE INTERAGENCY COMMUNICATION CENTER (EICC) DISPATCH PROTOCOLS

(Excluding Law Enforcement Officers)

Initial Notification of In-Service Status

Each employee will be in service through either:

1. IN/OUT Board (See Appendix B)
2. The District (See each district's communications policy)
3. EICC(Eugene Dispatch) (541-225-6400) (hours vary from winter to summer)
4. METCOM Dispatch (541-225-6400) (When EICC (Eugene Dispatch) is not in service)

For those employees using EICC (Eugene Dispatch) or METCOM, each employee's "In-Service" status will be called in to the on-duty dispatcher by:

- The employee, or
- By an employee's supervisor, or
- by the other dispatch center

Each employee will provide dispatch with their:

1) Name and if they are working as a Forest Protection Officer (FPO) during their shift
2) Passenger Name(s)
3) Work area
4) Vehicle number
5) Supervisor
6) Expected end-of-shift time

Forest Protection Officer (FPO) MONITORING

FPO Routine Hourly Status Check

When an FPO is being monitored, dispatch will conduct a status check on the FPO hourly, or no longer than an hour from the last documented communication with the employee. Document the FPO's location.

When an FPO fails to respond to a routine status check:

- Continue trying to contact the FPO for 15 minutes and try to contact another on-duty employee or law enforcement officer. Have the Forest Service Law Enforcement Officer (LEO) or other employee assist in a status check of the employee by going to the last known location of the FPO or provide you with alternative instructions;
- If contact is still not made with the FPO and dispatch has not been able to contact an on-duty LEO or other employee;
- Notify the Forest Duty Officer or a supervisor to receive further instructions. If contact is not made with the Duty Officer or a supervisor;

- Notify the appropriate County dispatch center of the situation and request they send a unit to the employee's location to do a welfare check. (County dispatch may contact other police agencies as appropriate.) If County is unable to respond in a timely manner, contact an off-duty LEO.

FPO out on a Violator Contact

When an FPO goes out on a violator contact, the FPO should state that they are out on a "Violator contact". The FPO should give you their location, vehicle description and license number if available, and any additional information they feel is necessary at the time.

Initial 5-minute status check:

- Conduct an initial status check 5-minutes from when the FPO went out on the violator contact.

Follow-up 15-minute status checks:

- Conduct status checks at least every 15 minutes thereafter, while the FPO is out on the violator contact (unless specifically told otherwise by an on-scene FPO/LEO).
- The FPO will notify you when he/she is clear from the violator contact and resuming normal patrol.

The FPO fails to respond to a status check while on a violator contact:

- If communication cannot be made with the FPO who is out on a violator contact, notify an on-duty LEO or FPO. In the event that you cannot reach an on-duty LEO or FPO,
- Notify the appropriate County dispatch center of the situation and request they send a unit to the employee's location to do a welfare check. (County dispatch may contact other police agencies as appropriate.) If County is unable to respond in a timely manner, contact an off-duty LEO. If a contact cannot be made with an off-duty LEO,
- Notify the supervisor or the Forest Duty Officer from the list provided.

FPO out on Numerous Contacts

When the FPO will be conducting numerous contacts in close proximity to each other, and the FPO has no intention of issuing citations or identifying violators, the FPO will advise dispatch of their location, that they will be making numerous contacts. Dispatch will continue with the standard status checks at that point.

Contacting the Forest Duty Officer or a Supervisor

- The Forest Duty Officer or a supervisor shall be called if an FPO is personally involved in an accident or a violent incident. The Forest Duty Officer or a supervisor should not be called if the FPO is only reporting the accident or incident of a citizen, and the FPO was not personally involved in the accident or incident.
- The Forest Duty Officer or a supervisor shall be called if the FPO specifically requests the telephone call be made.
- The Forest Duty Officer or a supervisor shall be called if the FPO has not been contacted by dispatch within 30 minutes after the end of their shift.

Routine Status Checks for NON-FPO's

When an employee has gone In-Service and is being monitored by a dispatch center, routine status checks will not be necessary unless the employee has requested that service. Unless otherwise notified, dispatchers will monitor IN/OUT Board and Radio for the Out-of-Service call from the employee at the end of the shift.

When a Non-FPO employee fails to respond to a requested status check:

- Continue trying to contact the employee for 30 minutes.
- If communication cannot be made with the employee after 30 minutes, contact another on-duty employee, supervisor, Forest Duty Officer, or law enforcement officer for assistance or further instructions.

Forest Duty Officer Contact Information

At the end of each shift, Dispatch will conduct a handoff with METCOM to advise them of who the Forest Duty Officer is for the evening or weekend. Dispatch will also advise METCOM of any employees still on duty and fax appropriate information to METCOM. Conversely, METCOM will exchange similar information when EICC (Eugene Dispatch) goes in service.

Any information regarding Fire Management (fires, resource orders, etc.) should be relayed directly to the on call Forest Duty Officer. If you are unable to contact him/ her, try the next employee on this list.

Hebo Ranger District After-Hour Duty Officer and Supervisor Contacts

1. **Forest Duty Officer**
   Dispatch will provide name of Duty Officer on shift at Close of Business each day.
2. **Any On-Duty LEO**
3. **Any ON-Duty Supervisor**
4. **Debi Hobbs, Recreation Staff Officer**
   a. Cell (b)(6) If you don't make contact with Debi, continue to "5."

5. **Debbie Wilkins, District Ranger**
   a. Home (b)(6)
   b. Personal cell phone (b)(6)

Central Coast - ODNRA After-Hour Duty Officer and Supervisor Contacts

1. **Forest Duty Officer**
   Dispatch will provide name of Duty Officer on shift at Close of Business each day.
2. **Any On-Duty LEO**
3. **Any ON-Duty Supervisor**
4. **Garrit Craig – Deputy CCRD/ODNRA Ranger**
   a. Home ()
   b. Cell (b)(6) If you don't make direct contact with Garrit, continue to "5."
5. **Michelle Jones – CCRD/ODNRA District Ranger**
   c. Home ()
   d. Cell (b)(6)

Forest Protection Officer (FPO) authority, responsibilities & limitations

Forest Protection Officers (FPOs) - FS employees with authority & responsibility to:

- Observe and report in a timely manner, violations of Federal laws and regulations to Special Agents or Law Enforcement Officers.
- Attempt to gain voluntary compliance by informing and educating persons who appear to be in violation of rules and regulations.
- Issue violation notices for any violation of Title 36, Code of Federal Regulations, Parts 242 and 261, subject to agency requirements and limitations.

Limitations on Forest Protection Officers

FPO authorities & responsibilities of are limited by the following:

- Issue violation notices only during daylight hours, unless there are two or more Forest Protection Officers, law enforcement personnel, or law enforcement personnel from another agency present at the time the notices are issued.
- Terminate contact with a violator when firearms or other lethal devices that were not observed during the initial contact are determined to be present.
- Take no direct enforcement action, but attempt to record vehicle license numbers, vehicle descriptions, and physical descriptions of individuals involved if they are able to do so safely, and request immediate assistance from law enforcement personnel in the following situations:
  - Crimes such as homicide, rape, robbery, assault, burglary, drug related offenses, domestic disputes, or other offenses that have a high probability for violence.
  - Violations involving the use or abuse of alcohol and/or drugs.
  - Suspicious individuals or individuals exhibiting strange behavior.
  - Violations involving large groups, street gangs, outlaw motorcycle groups, satanic cults, or extremist organizations.
  - Violations of 36 CFR 261.3 (interfering with a Forest officer, volunteer, or human resource program enrollee or giving false report to a Forest Officer) and 36 CFR 261.4 (disorderly conduct).
  - Violations involving verbally abusive or threatening subject(s).

APPENDIX B

IN/OUT Board Protocols

https:\\www.suwistatus.com

General Guidelines for use of In Outboard

- All employees of the Siuslaw National Forest will have a profile established on the In Outboard system.

- Use of In Outboard will be mandatory for all employees. In Outboard can also be a useful tool for internal communication with front liners and other workers when an employee is working in another status that takes them away from their home office such as attendance at meetings, classroom training, or other activities.

- The In Outboard is a tool that is intended to provide for employee safety and security. In Outboard shall not be used to monitor or track an employee's time and attendance or to run a History report.

The following Status Codes will be used in the In Outboard

system: Step 1 - Login to In Outboard and set your status:

IN: (Indicates that the employee is at their regular duty station. Employees need not check out for lunch or breaks, but must check in every morning when they report for work.) The In Outboard can be a useful tool for internal communication with front liners and other workers when an employee is working in the office.

Off Duty:

OUT Fire: (Indicates employee is out on fire assignment)

OUT Telecommuting: At work, but from an alternate location (usually home) in accordance with a Telecommuting agreement.

OUT- to- Field: (This indicator must be used when you are going to the field. It is mandatory that you use this status when you are heading out in the field to ensure a safe and effective process for tracking field-going employees. This is the safety net and the only status where employees will be tracked by Eugene Interagency Communication Center (EICC.)

OUT Travel: (Traveling on or off Forest on State or Federal highways.).

Always review the return times and hit the SAVE CHANGES button. If you make changes to any field on the home screen – you must review the return time and then save changes.

In Outboard status will be completed for <u>each individual</u> as follows when going to field:

- In Outboard status will be set to "Out-Field
- Return Time is entered as AM or PM. Currently not set up for military time.
- Return Date. Some may be out overnight.
- Comments – will include the following:
  - Vehicle Number
  - SEND "SPOT" DEVICE
  - Number Work Location
    - Legal – Township, Range and Section (Drop Down)
    - Road Number & Junction or
    - Permanent Recreation Site or Facility such as a Campground. (This goes into comment Box.)

Important! Do not use project names. Dispatch does not have access to project locations.

- **Radio Repeater Name** – Mary's Peak, Cummins, Hebo, Goodwin, Winchester, - etc. (Drop Down)
- **Supervisor or Alternate Supervisor** (Note: Supervisor must be available by work, cellular, or home phone – not out of town or on leave) (Drop Down)

Changing Locations and Return Time: Employees will contact Dispatch when changing locations that were not identified in In Outboard or to change their return time. Dispatch will document the time and requested changes in the employee's comments section of In Outboard.
Example: @1530 – Revised location to Sandlake

Step 2 – Going out of Service
Out-of-Service: Employees may go out-of-service by:

- Changing their status in In Outboard.
- Contacting their Supervisor who may change their status in In Outboard.

Contacting Dispatch and declaring they are "back at the office". Dispatch will document the time and message in the employee's comments section of In Outboard and change to off duty unless told otherwise.

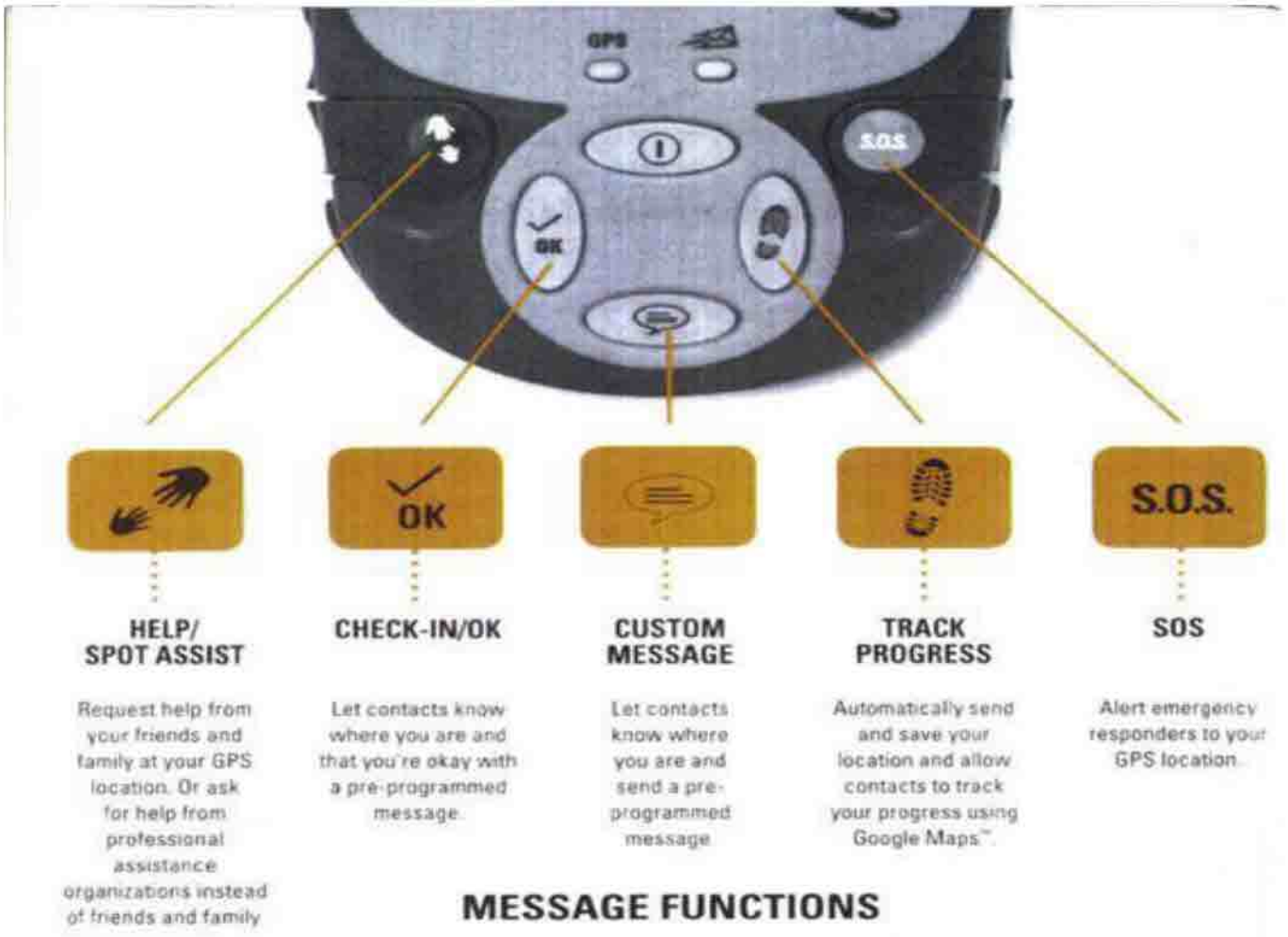
APPENDIX C

SEND "SPOT Devices

Spot devices are not a substitute for FS radios and should not to be used as a primary means of communication. WARNING: Depending on your location and forest canopy the device may not be able to acquire a satellite and send information. It is highly recommended that you use the track progress button so when a satellite is acquired it will update your position when working in remote areas. **Do Not Test the SOS Button it is for Life threatening incidents only.** For more information refer to the operations manual and take the training at the link below. For any question contact the Forest Safety Manager. https://ems-team.usda.gov/sites/fs-radio-send/SitePages/Training%20and%20How%20To's.aspx

Ensure you sign out the device you have in the change Status section of In/Out board.

- Check in: Sends text and E-mail to Supervisor saying "Leaving my vehicle".
- Custom Message: Sends text and E-mail to Supervisor saying "I have returned to my vehicle".
- Help Message: Sends text and E-mail to Supervisor and dispatch saying "Send help non-life threatening".
- SOS: For life threatening incidents only Do Not Test.



SPOT SATELLITE GPS MESSENGER
QUICK REFERENCE GUIDE

IMPORTANT NOTE. Make sure the SPOT logo faces the sky.

SOS - Press and hold the SOS button until the light blinks green . Sends a message every 5 minutes until cancelled . To cancel press and hold button until the light blinks red.

HELP/SPOT ASSIST - Press and hold the help button until the light blinks green. Sends a message every 5 minutes for 1 hour. To cancel press and hold button until the light blinks red.

CHECK IN/OK & CUSTOM MESSAGE - Press and hold the chosen button until the function light blinks green. To
ensure delivery, leave active for 20 minutes . To cancel unsent
messages,turn off SPOT.

TRACK PROGRESS - Press the track button until the light turns green. Saves your location every 10 minutes for 24 hours . To continue tracking, simply reactivate .To cancel unsent messages, turn off the messenger. Engaging Tracking deactivates Check-in/ OK and Custom Messages from being sent.

GPS LIGHT - The GPS light notifies you whether SPOT is able to see the GPS satellites and obtain your GPS location.

- Green - The GPS light blinks Green if S POT sees the GPS satellites and is looking for I has found your GPS location.

- Red - The GPS light blinks red if SPOT cannot see the GPS satellites and/or can't find your GPS location. If the GPS light blinks red, you should move to a location with a clearer view of the sky.

MESSAGE SENT LIGHT - The Message Sending Light notifies you whether or not your most recent message was transmitted.

- Green - It blinks green if S POT sent the most recent message .

- Red - It blinks red if S POT didn't send the most recent message.

The GPS Light and Message Sending Light blink in unison for 15 seconds to notify you when (or if) the message was sent, with (or without) your GPS location. Then the GPS light turns off and the Message Sending light continues to blink as appropriate for each function. In order to provide you with additional time to check the status of your most recent message, in all modes except SOS, the Message Sending light will continue to blink for one (1) hour after the end of message cycle and then turn off. In a hurry? You can dismiss the light by activating any other mode or turning SPOT off and on.

2020 Northwest Oregon District BLM

NATIONAL SYSTEM OF PUBLIC LANDS

U.S. DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Field Operations Guide

Safety, Emergency, and Radio Protocols

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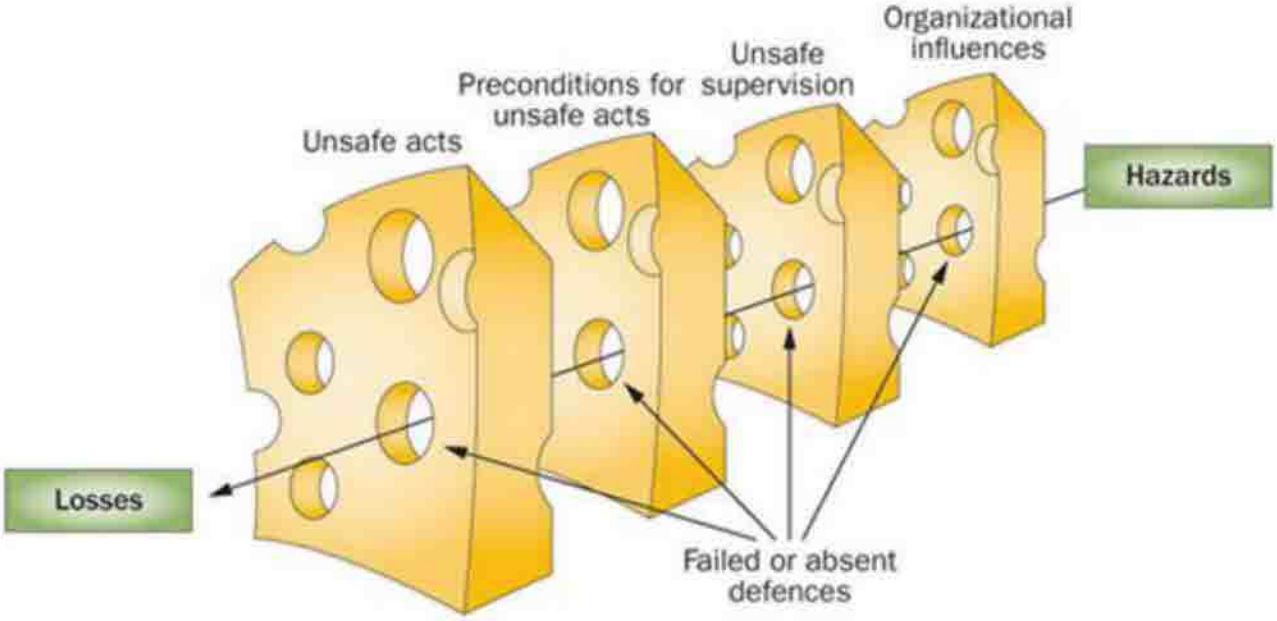
Notify Field Manager and District Manager in the Event of:

1. Employee fatality
2. Employee in-patient hospitalization or serious injury
3. Fatality or injury to private citizen directly related to an Agency Contractor, employee or on a developed Agency facility
4. Combined property damage estimated at or exceeding $10,000
5. Motor vehicle accident



Important Phone Numbers

Springfield Interagency Office	Salem District Office	Tillamook Field Office
3106 Pierce Parkway, Suite E Springfield, OR 97477 (541) 683-6600	1717 Fabry Road SE Salem, OR 97306 (503) 375-5646	4610 Third St. Tillamook, OR 97141 (503) 815-1100

Emergency and Law Enforcement Numbers

Emergency	911
Eugene Interagency Communication Center (EICC)*	(541) 225-6400
SDO Employee info line:	(503) 589-6846
SIO Employee info line:	(541) 683-0839
TFO Employee info line:	(503) 815-1475
1490 KBZY Radio Station info:	(503) 371-1490
Lane County Sheriff:	(541) 682-4150 option 1
Linn County Sheriff:	(503) 967-3950
Clackamas County Sheriff:	(503) 655-8211
Marion County Sheriff:	(503) 588-5094
Polk County Sheriff:	(503) 623-9251
Benton County Sheriff:	(541) 766-6858
Columbia County Sheriff:	(503) 366-4611
Washington County Sheriff:	(503) 846-2700
Yamhill County Sheriff:	(503) 434-7506
Tillamook County Sheriff:	(503) 842-2561
Oregon State Police (wildlife):	(800) 452-7888
Oregon State Police (EOD):	(503) 934-0243
Poison Control	(800) 222-1222
Oregon Department of Forestry (ODF):	(503) 945-7200

*Calls to EICC are forwarded to METCOM Dispatch outside of service hours
EICC service hours: Summer hours 0800-1800/Winter hours 0800-1730

NWO Area Hospitals

Samaritan Albany General (Albany)	(541) 812-4000
Good Samaritan Regional (Corvallis)	(541) 768-5111
West Valley Community (Dallas)	(503) 623-8301
Willamette Valley Medical Center (McMinnville)	(503) 472-6131
Salem General (Salem)	(503) 561-5200
Santiam Memorial Hospital (Stayton)	(503) 769-2175
Tillamook Regional Medical Center (Tillamook)	(503) 842-4444
McKenzie-Willamette Medical Center (Springfield)	(541) 726-4400
Peace Health Cottage Grove Community Medical Center (Cottage Grove)	(541) 767-5500
Peace Health Sacred Heart Medical Center at Riverbend (Springfield)	(541) 222-7300

Towing Services

Marys Peak Area	
Ok Motor Sales & Towing (Sheridan)	(503) 843-5115
Bob's Auto & Towing (Corvallis)	(541) 757-7042
T & M Towing (Eugene)	(541) 485-3106
Tillamook Area	
Astoria Towing (Astoria)	(503) 325-3782
Seaside Towing (Seaside)	(503) 440-3418
Scovel's Service Towing (Manzanita)	(503) 368-5335
Gales Creek Towing (Forest Grove)	(503) 867-0208
Burden's Towing (Tillamook)	(503) 842-6424
Upper Willamette/Siuslaw Area	
A+ Towing (N Eugene)	(541) 686-0044
Froggy's Towing (Springfield)	(541) 747-1335
Puddle Jumper Towing (S Eugene)	(541) 746-5566
Taylors Towing (Cottage Grove)	(541) 942-4522
Cascades Area	
All-Ways Towing (Sandy)	(503) 668-5024
Clackamas River Towing (Estacada)	(503) 630-6287
M & M Towing (Molalla)	(503) 266-8888
Potter's Auto Specialties (Silverton)	(503) 873-4998
Santiam Towing & Recovery (Lyons)	(503) 859-5757
All Star Towing (Sweet Home)	(541) 367-8002

Northwest Oregon District Commonly Used Numbers (September 2019)

Conference Room Numbers	
Salem	
Abiqua	503-375-7971
Abiqua (Polycom)	503-375-5659
Black Rock	503-375-5614
Cone of Silence	503-375-5695
Lobby Level	503-589-6820
Mount Angel	503-375-5688
Penthouse	503-375-7970
Sandy River (Polycom)	503-589-6810
Snow Peak	503-315-5938
Table Rock	503-589-6825
Valley of the Giants	503-375-5714
Tillamook	503-815-1140
Tillamook (Polycom)	503-815-1458
Springfield	
Executive	541-683-6269
Siuslaw Cedar	541-683-6980
Siuslaw Interview	541-683-6441
Upper Willamette Int.	541-683-6179
Video	541-683-6177

Fax Numbers	
Salem	
District Manager	503-375-5680
Fishermen's Bend	503-897-3098
Front Desk Public	503-375-5690
Horning	503-630-6888
Human Resources	503-589-6839
IRM	503-315-5970
Law Enforcement	503-589-6847
Main	503-375-5622
Sully, Adam	503-375-5715
Tillamook	503-815-1107
Warehouse	503-589-6812
Wildwood	503-622-5709
YHONA	541-574-3100
YHONA Old Analog Line	541-574-2687
Springfield	
Cadastral	541-683-6622
COOP	541-687-6635
Delta Rd. Maintenance	541-338-7156
Fire Management/IRM	541-683-6251
Fleet Manager	541-683-6107
Human Resources	541-683-2388
Law Enforcement	541-683-6975
Main	541-683-6981
Procurement	541-683-6118
Siuslaw Field Office	541-683-6767
Tyrrell	541-767-0465
Warehouse	541-683-6363
Wetlands Office	541-338-7062
Windom, Mike	541-687-6627
NEW SIO E-mail: sm.fs.siofrontdesk@usda.gov	

Other LEO Numbers	
Dawn, George (Sat. #)	8816-224-54272
Deputy Marvin Combs	541-954-9698
Deputy Brian Devault	541-912-8463

Miscellaneous Numbers	
BLM IT Help Desk	800-256-4357
Employee Assistance Pro.	800-869-0276
Interagency Dispatch	541-225-6400
Recreation Reservations	877-444-6777
Salem	
Adv. Weather/Salem	503-589-6846
Adv. Weather/Tillamook	503-815-1475
Fire Cache	503-589-6899
Front Desk Direct	503-375-5616
Mailroom	503-375-5636
Radio Shop	503-375-5717
Warehouse	503-375-5699
YHONA Entrance Stat.	541-574-3118
YHONA Interp. Center	541-574-3114
Springfield	
Adv. Weather/Springfield	541-683-0839
Army NG Facilities	541-375-0091
Fire Duty Officer	503-862-3147
Rec Mtnce Reporting	541-683-6866

OR/WA BLM Offices	
Burns	541-573-4400
Coos Bay	541-756-0100
Grants Pass Interagency	541-471-6500
Klamath Falls	541-883-6916
Lakeview	541-947-2177
Medford	541-618-2200
Prineville	541-416-6700
Roseburg	541-440-4930
Spokane	509-536-1200
Vale	541-473-3144
Vale-Baker City	541-523-1256
Wenatchee	509-665-2100

USFS Offices	
Detroit (WNF)	503-854-3366
Hebo (SNF)	503-392-5100
McKenzie River (WNF)	541-822-3381
Middle Fork	541782-2283
Siuslaw NF SO	541-750-7000
Willamette NF SO	541-225-6300

Offices/Shops
Delta Maintenance Shop 3040 Delta Hwy Eugene, OR 97408 **541-683-6419**
Fishermen's Bend 27300 N. santiam Hwy Mill City, OR 97360 **503-897-2406**
Horning Seed Orchard 27004 S. Sheckly Rd. Colton, OR 97017 **503-630-6080**
Molalla Maintenance Shop 32691 S. Mathias Rd Molalla, OR 97038 **503-829-2204**
Northwest Oregon District Office 1717 Fabry Rd SE Salem, OR 97306 **503-375-5646**
OR/WA State Office 1220 SW 3rd. Ave Portland, OR 97204 **503-808-6001**
Shotgun Creek Recreation Site 38455 Shotgun Creek Rd. Send Mail to Spr. Interagency Office Marcola, OR 97454 **541-933-2899**
Springfield Interagency Office 3106 Pierce Parkway, Suite E Springfield, OR 97477 **541-683-6600**
Tillamook Field Office 4610 Third St Tillamook, OR 97141 **503-815-1100**
Tyrrell Seed Orchard 26411 Siuslaw River Rd. Mail: PO Box 121 Lorane, OR 97451 **541-767-0442**
West Eugene Wetlands Project Office 751 South Danebo Eugene, OR 97402 **541-338-7027**
Willamina Maintenance Shop 520 NE Main St. Willamina , OR 97396 **503-876-3582**
Wildwood Recreation Site 65670 E Hwy 26 Welches, OR 97067 **503-622-3696**
Yaquina Head Outstanding Natural Area 750 Lighthouse Dr Newport, OR 97365 **541-574-3100**

Manager
Supervisor
Law Enforcement

Northwest Oregon District Phone List (September 2019)

NAME	DESK	CELL	E-MAIL	TITLE	OFFICE	SUPERVISOR
Adams, Richard	503-315-5942	(b)(6)	radams@blm.gov	Sup. Eng. Equipment Operator	SA - Road Maintenance	Casey Glade
Adcock, Cheryl	541-683-6145		cadcock@blm.gov	Field Manager	SIO - Siuslaw	Jose Linares
Adcock, Mike	541-683-6285		madcock@blm.gov	Forestry Technician	SIO - Upper Willamette	Sharmila Jepsen
Amato, Paul	503-375-5672			Wildlife Seasonal	SA - Cascades	Belle Verbics
Angstrom, Kathy	503-315-5910		kangstro@blm.gov	Management Analyst	SA - DM Staff	Jose Linares
Ankeny, Kasey	541-683-6960		kankeny@blm.gov	Eng. Equipment Operator	SIO - Road Maintenance	Casey Glade
Appleman, Kirk	503-315-5906		kappleman@blm.gov	Hydrology Technician	SA - DM Staff	David Howell
Arellano, Rodrigo	503-375-5632		rarellano@blm.gov	Public Information Assistant	SA - Administration	LeAnna Phillips
Argo, Timothy	541-683-6786		targo@blm.gov	Forester	SIO - Siuslaw	Chris Finn
Atterbery, Jacob	503-315-5954			Forestry Technician	SA - Cascades	Belle Verbics
Babe, Steve	503-815-1123		sbabe@blm.gov	Lead Wildlife Biologist	Tillamook	Brian Christensen
Baldwin, Steve	503-997-2406		sbaldwin@blm.gov	Park Manager (Fishermen's Bend)	SA - Recreation	Amanda Deeds
Barclay, Brian	503-315-5934		bbarclay@blm.gov	Lead Cruiser	SA - Marys Peak	Andy Frazier
Barney, Phyllis	503-375-5666		pbarney@blm.gov	Human Resources Specialist	SA - OSO	Lori Farber
Barr, Brian	541-683-6497		bbarr@blm.gov	Hydrological Technician	SIO - Upper Willamette	Todd Bush
Bartrom, Stacia	541-574-3121		sbartrom@blm.gov	Education Technician	YHONA	Jay Moeller
Beckman, Brent	503-315-5930		bbeckman@blm.gov	Forestry Technician (Silviculture)	SA - Cascades	Belle Verbics
Benedek, Kaitlyn	503-315-5955		kbenedek@blm.gov	Forestry Technician	SA - Marys Peak	Scott Snedaker
Bennett, Daniel	503-375-5604		dbennett@blm.gov	Heavy Equipment Mechanic	SA - Road Maintenance	Casey Glade
Bernards, Jason	503-375-5671		jbernard@blm.gov	Lead Road Engineer	SA - Cascades	Chris Papen
Betenson, Britt	503-315-5986		bbetenson@blm.gov	Archaeologist	SA - DM Staff	Sarah Bickford
Betenson, Matthew	541-574-3142		mbetenson@blm.gov	YHONA Head Site Manager	YHONA	Paul Tigan
Bettis, Austin	503-815-1142		abettis@blm.gov	Civil Engineering Tech	Tillamook	Brian Christensen
Beuttenmuller, Erin	541-683-6967		ebeuttenmuller@blm.gov	Wildlife Technician	SIO - Upper Willamette	Todd Bush
Beyer, Benjamin	503-829-2204		bbeyer@blm.gov	Eng. Equipment Operator	SA - Road Maintenance	Richard Adams
Bickford, Brian	541-683-6164		bbickford@blm.gov	Supervisory Forester	SIO - Upper Willamette	Becca Brooke
Bickford, Sarah	541-683-6159		sbickford@blm.gov	Assistant DM Resources	SIO - DM Staff	David Howell
Bliss, Daniel	541-683-6279		dbliss@blm.gov	Survey Technician	SIO - OSO	Richard Kaiser
Blow, Mike	541-683-6495		jblow@blm.gov	Wildlife Biologist	SIO - Upper Willamette	Todd Bush
Bolen, Darren	503-375-5617		dbolen@blm.gov	Wildlife Biologist	SA - Cascades	Belle Verbics
Bond, Lisa	503-630-8402		ebond@blm.gov	Biological Technician	Horning - OSO	Jeannette Griese
Bradley, Shannon	503-375-5685		sbradley@blm.gov	GIS Specialist	SA - Marys Peak	Scott Snedaker
Bradley, Tyler	503-315-5979		tbradley@blm.gov	Engineering Technician	SA - Marys Peak	Andy Frazier
Brooke, Becca St John	541-683-6287		rbrooke@blm.gov	Field Manager	SIO - Upper Willamette	Jose Linares
Brooks, Samuel	503-630-8406		sebrooks@blm.gov	Orchardist	Horning - OSO	Jeannette Griese
Brown, Charles	503-375-5605		cwbrown@blm.gov	Forester	SA - Cascades	Chris Papen
Bryant, Bill	503-815-1100		wbryant@blm.gov	Cruiser	Tillamook	Brian Christensen
Buckman, Allen (Gerald)	541-683-6268			Wildlife Technician	SIO - Upper Willamette	Todd Bush
Burns, Christian	541-574-3131		cburns@blm.gov	Education Technician	SA - Recreation	Jay Moeller
Bush, Todd	541-683-6443		tbush@blm.gov	Assistant Field Manager	SIO - Upper Willamette	Becca Brooke
Buss, Matthew	541-683-6453		mbuss@blm.gov	Forester	SIO - Upper Willamette	Brian Bickford
Butler, David	541-683-6417		dbutler@blm.gov	Resource Support Technician	SIO - Upper Willamette	Brian Bickford
Caliva, Maria	503-375-5629		mcaliva@blm.gov	Resource Support Technician	SA - MPVCAS	John Huston
Camahan, Joshua	541-683-6983		jcamahan@blm.gov	NEPA Planner	SIO - Siuslaw	Cheryl Adcock
Castelli, Pierino	541-683-6499		pcastelli@blm.gov	Forester	SIO - Siuslaw	Chris Finn
Cate, Christina	541-683-6161		ccate@blm.gov	Civil Engineering Technician	SA - Operations	Evan Moffett
Chapman, Luke	541-683-6168		lchapman@blm.gov	Survey Technician	SIO - OSO	Steve Kaiser
Chartier, Dennis	503-630-8401		dchartier@blm.gov	Maintenance	Horning - OSO	Jeannette Griese
Cheek, Donnell	503-375-5717		dcheek@blm.gov	Telecommunication Specialist	SA - OSO	Thuy Ta
Chrisekos, Alissa	541-683-6224		achrisekos@blm.gov	Wildlife Technician	SIO - Upper Willamette	Todd Bush
Christensen, Brian	503-815-1119		bchristensen@blm.gov	Assistant Field Manager	Tillamook	Karen Schank
Christensen, Daniel	541-683-6107		dchriste@blm.gov	Fleet Management Specialist	SIO - Administration	LeAnna Phillips
Christensen, Heidi	503-315-5920		hmchrist@blm.gov	Botanist	SA - Marys Peak	Scott Snedaker
Churchill, Joel	503-815-1465		jchurchi@blm.gov	Realty Specialist	Tillamook	John Nichols
Coble, Teresa	541-683-6257		tcoble@blm.gov	NRS Technician	SIO - Upper Willamette	John Nichols
Condit, James	541-683-6212		jcondit@blm.gov	Civil Engineer	SIO - Engineering	Evan Moffett
Conklin, Chad	541-683-6120		cconklin@blm.gov	Civil Engineering Technician	SIO - Upper Willamette	Brian Bickford
Corrales, Evan	541-683-6772		ecorrales@blm.gov	Silviculturist	SIO - Upper Willamette	Sharmila Jepsen
Cournas, (Carmen) Mikki	541-767-1520		ccournas@blm.gov	Biological Technician	Tyrell - OSO	Jeannette Griese
Cranmer, Kyle	541-683-6646		kcranmer@blm.gov	Forestry Technician (Cruiser)	SIO - Upper Willamette	Brian Bickford
Crawford, Mike	541-767-0460		mcrawfor@blm.gov	Seed Orchard Manager	Tyrell - OSO	Jeannette Griese
Cuevas, Sam	541-683-6488		scuevas@blm.gov	Telecommunication Specialist	SIO - OSO	Jeannette Griese
Danner, Bryce Edward	541-683-6150		bdanner@blm.gov	Archaeologist	SIO - DM Staff	Sarah Bickford
Davis, Daniel	503-315-5935		ddavis@blm.gov	Outdoor Recreation Planner	SA - Recreation	Amanda Deeds
Davis, Michelle	503-315-5977		mrdavis@blm.gov	GIS Specialist	SA - DM Staff	Sarah Bickford
Dawn, George	503-315-5901		gdawn@blm.gov	Law Enforcement Ranger (CAS)	SA - DM Staff	Robert Mitsuyasu
Dawn, Stephanie	503-375-5625 541-683-6966		sdawn@blm.gov	District Inventory Silviculturist	SIO - DM Staff	Sarah Bickford
Deane-McKenna Daniel Carson	503-815-1135		ddeanemckenna@blm.gov	Forester	Tillamook	Brian Christensen
Deeds, Amanda	503-375-5640		adeeds@blm.gov	Recreation Supervisor	SA - Recreation	Evan Moffett
DeLuca, John	541-683-6229		jdeluca@blm.gov	Wildlife Biologist	SIO - DM Staff	Sarah Bickford
Detlef, Joel	541-683-6264		jdetlef@blm.gov	Forester (Contract Admin)	SIO - Upper Willamette	Brian Bickford
Dhillon, Kan	541-683-6170		kdhillon@blm.gov	Biological Technician (Wildlife)	SIO - Upper Willamette	Todd Bush
Dotson, Bryan	541-683-6291		bdotson@blm.gov	Forestry Technician (Lead Cruiser)	SIO - Upper Willamette	Brian Bickford
Drake, Charles	541-683-6164		cdrake@blm.gov	Forestry Technician	SIO - Upper Willamette	Brian Bickford
Eastman, Jon	541-683-6232		jeastman@blm.gov	Civil Engineering Technician	SIO - Siuslaw	Chris Finn
Eddy, Daniel	503-375-5691		deddy@blm.gov	Interagency Fire Management Officer	SA - DM Staff	Jose Linares
Edington, Patrick	503-315-5916			Forestry Technician	SA - Cascades	Belle Verbics
Elvin, James	503-375-5609		jelvin@blm.gov	Senior Engineer	SA - Engineering	Evan Moffett
Erickson, Emily	541-683-6668			Forestry Technician	SIO - Upper Willamette	Sharmila Jepsen
Erskine, Sarah	541-338-7064			Botany Intern	SIO - Siuslaw	Jan Robbins
Erwin, Emily	541-683-6439		eerwin@blm.gov	District P&EC	SIO - DM Staff	Sarah Bickford
Esquibel, Mae	503-375-5670		mesquibel@blm.gov	Wildlife Technician	SA - Marys Peak	Scott Snedaker
Evans, Garrett	503-375-5626		gevans@blm.gov	Forest Technician	SA - Marys Peak	Scott Snedaker
Fawcett, Karen	541-683-6582		kfawcett@blm.gov	Biological Science Technician	SIO - Upper Willamette	Todd Bush
Feldmeier, Paula	503-315-5973		pfeldmeier@blm.gov	District P&EC	SA - DM Staff	Sarah Bickford
Fennell, Terry	503-375-5678		tfennell@blm.gov	Botanist	SA - Cascades	Belle Verbics
Fieber, Mike	541-683-6142		mfieber@blm.gov	Civil Engineering Technician	SIO - Siuslaw	Chris Finn
Finn, Chris	541-683-6421		cfinn@blm.gov	Assistant Field Manager	SIO - Siuslaw	Cheryl Adcock
Fitting, Douglass	503-315-5918		dfitting@blm.gov	Hydrologist	SA - Marys Peak	Scott Snedaker
Foster, Kevin	503-589-6850		kefoster@blm.gov	Forester (Lead Layout & SFP)	SA - Marys Peak	Andy Frazier
Frazier, Andy	503-315-5979		afrazier@blm.gov	Supervisory Forester	SA - Marys Peak	Paul Tigan
Fuller, Douglas	541-683-6427		dfuller@blm.gov	Forester	SIO - Upper Willamette	Brian Bickford
Fuller, Katherine	541-574-3143		kafuller@blm.gov	Education Spec /Vol&Fee Coord.	YHONA	Matt Betenson

NAME	DESK	CELL	E-MAIL	TITLE	OFFICE	SUPERVISOR
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NWO District Top 10 Safety Behaviors

1. I will use proper sign out and sign in procedures when I am out of the office.

2. If I am working in the field after office hours, I will update IN/OUT board or notify my supervisor and/or dispatch of my location and time of arrival.

3. When I use a vehicle, I will:

    - Do a pre-operation check.
    - Drive with lights on at all times.
    - Wear a seatbelt and ensure that all passengers do so as well.
    - Turn non mobile and CB radios.
    - Drive defensively.
    - Do NOW District Monthly Vehicle Safety Inspection Check List and submit to supervisor.

4. I will use the personal protective equipment that is appropriate for the task I am doing. For field jobs this includes at least a proper hardhat and 8 inch high boots with Vibram© soles. For many tasks, gloves, eye protection, and ear protection devices will also be used.

5. I will always try to work in pairs while in the field; I will carry a positive communication device (i.e. handheld radio), and all pertinent emergency and survival equipment.

6. I will operate equipment only if I have the proper training and/or required certification and will use all the safety procedures applicable to that equipment.

7. I will review the Job Hazard Analysis and Risk Management assessment with my supervisor before starting a project or develop one if the task is totally new.

8. I will follow proper procedures for maintaining security and minimizing the risk of work place violence.

9. I will take responsibility for timely reporting of any safety concerns to my supervisor first, then the district safety manager if I can't fix the problem myself.

10. I will care enough to help others remember to practice these safety behaviors.

Threat Response Protocol

- To provide management with a tool to facilitate a consistent approach to preparation, response, and recovery actions in the event the bureau anticipates or receives threats to its employees or facilities ***(Please see IM 2016-014).***

- The Protocol outlines the various actions to be taken at four response levels; specifically, *Level 1 –* ***Preparedness****, Level 2 –* ***Elevated Threat****, Level 3 –* ***Imminent Threat****, and Level 4 –* ***Recovery****.*

- The BLM office of Law Enforcement and Security (OLES), in conjunction with management at the state and national level, will monitor internal and external sources in an effort to identify potential threats to bureau employees and facilities. Depending upon the nature and scope of the threat, the bureau may declare different Response Levels at local, state, regional or national levels.

Response Procedures at Level 1 – *Preparedness:*
This should be part of routine business for all BLM entities. This includes (1) developing plans for what to do, where to go, or who to call for assistance before an incident occurs; and (2) implementing actions to improve the likelihood of successfully responding to an emergency. These preparedness actions serve as the foundation for any additional actions that may be needed to respond to an elevated threat.

In today's environment there is a persistent threat of disruption to our day-to-day business activities (e.g., vandalism, theft, civil disobedience, extremist violence) which warrants maintaining a routine security posture. As such, we should:

1) Assume business disruption is always possible;

2) Understand the best available information may not offer any advance warning of impending disruption;

3) Operate in a routine security posture; and

4) Expect frequent communication reminding employees to maintain situational awareness

Response procedures at Level 2 – *Elevated:*
Constitute an incremental increase in security actions taken in response to a heightened, albeit general, threat to BLM employees and/or facilities. The success of Elevated response level actions is directly to the effectiveness of the measures implemented at Response Level 1 – Preparedness.

In addition to the individual actions listed for an Elevated response, the following action items are provided to guide the State Director through implementation of these measures:

1) State Director notifies State Leadership Team via phone upon receipt of direction to implement Elevated response measures;

2) State Director notifies employees of current situation and steps being taken to increase security; and

3) Security reminders are provided weekly, or more frequently as warranted.

Response to procedures at Level 3 – *Imminent:*
Constitute an increase in security actions taken in response to a direct threat to BLM employees and/or facilities.

In addition to the individual actions listed for an imminent response, the following action items are provided to guide the State Director through the implementation of these measures:

1) State Director virtually convenes and briefs State Leadership Team;

2) Increased security steps and readiness of each office are addressed;

3) State Leadership Team members brief their organizations face-to-face;

4) State Director transmits all employees message apprising employees of current events and steps being taken;

5) State Leadership Team briefings and all employee communications are more frequent as warranted; and

6) WO is briefed regularly on the situation.

Response procedures at Level 4 – *Recovery:*
Allow the bureau, after an emergency and once the immediate danger is over, to transition back to Level 1 – Preparedness while maintaining safety and security of all facilities. During recovery, bureau leadership at all levels will consider steps to mitigate the effects of future emergencies.

Accidents in the Workplace

What is an Accident?

An accident is an unplanned event that interrupts the completion of an activity, and may (or may not) include an injury or property damage. Causes of accidents include:

- Unsafe acts or behavior (approximately 88% of the time). Examples: Not using proper Personal protective Equipment, or improper lifting.
- Unsafe conditions (approximately 10% of the time). Examples include: Poorly maintained equipment, or oil and grease on floors.
- Combination of unsafe acts and conditions.
- Acts of nature (approximately 2% of the time).

What is a Near Miss?

- A 'near miss" is an unplanned event that did not result in an injury, illness or damage; but had the potential to do so. Other familiar terms include "close call," "narrow escape," or in the case of moving objects, a "near collision."
- The same things that cause accidents cause near misses. According to the National Society Council, 75 percent of all accidents are preceded by one or more near misses.

Importance of Reporting Accidents and Near Misses

- Reporting an accident immediately allows for corrective action to be taken sooner and ensures the details are accurate as the event will still be fresh in a person's mind.
- If the accident results in an injury and lost time and you wish to claim compensation, proper documentation is required in order to receive approval of your claim.
- Reporting accidents and near misses allows for investigations to be conducted and to determine the root cause of the incident. This will allow for the determination of underlying problems and to implement actions to prevent the accident from happening again.
- Employees may not realize they are expected to report near misses. Supervisors have an important role to play in encouraging workers not to be afraid to report near misses.
- A non-injury accident or near miss provides a "free warning" or an indication that something is wrong.

Motor Vehicle Accident Reporting

Each vehicle, including off road and special use rigs, should carry a packet containing all accident reporting forms and other information needed in case of emergency.

Required Accident Kit Forms:

- **SF 91** – Operator Report of Motor Vehicle Accident. Sections I through IX to be completed by the vehicle operator. Operator's supervisor shall complete Section X. Sections XI thru XIII are filed out by an accident investigator.
- **SF 94** – Statement of Witness. To be completed at the scene of the accident and forwarded with the SF 91.
- **Safety Management Information System (SMIS) Report** – All property damage and Near Miss Incidents must be input into SMIS by the supervisor, not the employee. The SMIS report is based on the report of the employee involved and the results of the supervisor's investigation to determine the cause of injuries or property damage.
- All known visitor accidents on public lands must also be reported into SMIS.

Personal Injury Reporting:

- **CA-1**. Notice of Traumatic Injury and Claim for Compensation. Used for reporting injuries that occurred within a single day or work shift. Examples include cuts, broken bones, sprained ankles, muscle spasms or tendon strains. The form is filed electronically using SMIS.
- **CA-2**. Notice of Occupational Disease and Claim for Compensation. An occupational disease is an illness that develops over a period longer than one work day or shift and may result from things like a systematic infection, a repeated stress or strains, an exposure to toxins poisons or fumes, or other continuing conditions of the work environment. The form is filed electronically using SMIS.
- **CA-16**. Authorization for Examination and/or Treatment. Supervisor should promptly complete the front of the form within four hours of the request whenever possible. This form is to be filed out by the medical provider when the claimant receives medical care on the initial visit. The CA-16 is only used for a traumatic injury. Approval is required by OWCP before a CA-16 can be issued for an Occupational Disease.
- All personal injury accidents must be reported to a supervisor immediately and put into SMIS as soon as possible but no later than 30 days from the date of the accident.

- It is extremely important to report incidents right away no matter how minor they may appear to be. Minor injuries can worsen over time and become more of an issue.
- Most importantly, coordinate closely with your own OWCP coordinator, supervisor, and safety officer to make certain all forms and paperwork are submitted correctly and in a timely manner to ensure you receive the proper care.

Accident Reporting Reminders

1) Report all job related accidents or incidents to your supervisor immediately.
2) Encourage employees to treat close calls exactly the way they treat accidents by reporting them right away.
3) All reportable accidents (including near misses) must be input into SMIS.
4) Prompt and accurate reporting of all accidents as soon as they occur helps determine which health and safety procedures are working and which are not.
5) Chapter 26 of the BLM Manual Handbook (1112-2) provides a good reference for accident reporting and required forms.
6) Constant safety awareness on everyone's part is the most important factor in accident prevention.

Hazardous Materials

1) **In the event of a serious HAZMAT emergency call 911 immediately.** ***"If you can smell it, you are too close."***

2) **STOP!!! Recognize, Retreat and Report (RRR):**

Recognize:

- Abandoned leaking or open containers (buckets, barrels, boxes, bottles, tanks).
- Discolored or burned areas of soil. Oily sheen on water/ground surface.
- Dead animals or vegetation.
- Judging by color, packaging, labeling or other physical properties; what does the material appear to be? Refer to the **Emergency Response Guidebook** (2012 or newer).
- Note whether the material is producing smoke, visible vapor, noxious fumes or other indicators of reaction.
- Note any suspicious persons, vehicles or other causal indicators.
- Gather essential information from a safe distance.

Retreat

- Remove yourself from the immediate area of concern until HAZMAT or emergency personnel have cleared the area.
- Take appropriate measures to limit further dispersal of the material.
- Use verbal directions to prevent other personnel from coming in contact with the material.

Report

- Use "**Hazardous Materials Site Report**" on **page 19** to document and report hazardous materials discoveries and incidents.
- Notify to District HAZMAT Coordinator and/or Law Enforcement agents.
- Report pertinent information to the proper authority: HAZMAT Coordinator, law enforcement or emergency personnel. (Hazardous Materials Site Report)
- Location and state of the suspect material (contained, scattered, area affected).

3) **Exposure to hazardous material**

- Follow decontamination procedures as directed by HAZMAT specialist or emergency personnel.
- Take appropriate measures to limit further dispersal of the material.
- Use verbal directions to prevent other personnel from coming in contact with the material.

Hazardous Materials Site Report

SITE INVENTORY - to be completed by personnel making the discovery. (DO NOT TAKE SAMPLES OR HANDLE ANY CONTAINERS). Fill out all information to the extent possible and report incident to the Hazmat Coordinator or *designated contact person* immediately. (If necessary, use radio).

Report Completed by: _____
Title: _____ Date: _____
Legal Description: T. ___R.___Sec.___ ¼Sec.___
Lat. /Long. Or UTM: _____
Resource Area: _____
Ownership: _____

II. DESCRIPTION OF SITE: **(CAUTION: DO NOT CONTACT MATERIAL OR GET CLOSE ENOUGH TO INJURE OR EXPOSE YOURSELF. MAINTAIN A MINIMUM DISTANCE OF 1000 FEET; EVACUATE IF FIRE OR VAPORS ARE PRESENT. IF AN ODOR IS DETECTABLE, YOU ARE TOO CLOSE, AND MUST MOVE BACK A SUFFICIENT DISTANCE TO AVOID ANY CONTACT.**

1. NATURE / TYPE OF RELEASED MATERIAL: *e.g., solid, liquid, gas; color, odor, appearance, viscosity. If a dumpsite, describe contents.*

2. CONTAINER(S) (if any): *Size, shape, quantity, color, construction, and condition (intact, ruptured, leaking, or otherwise damaged).*

3. PROXIMITY TO WATER RESOURCES: *Give approximate distance to and type(s) of water resource: e.g., stream, lake, pond; size, or class, and name if known. Is the material in, on or approaching the water?*

4. DIRECTIONS TO SITE: *Road numbers, access route to site. Be available to help locate the site.*

5. OTHER INFORMATION APPLICABLE TO SITE/INCIDENT: *Weather conditions; wind (estimate speed and direction). Injuries or potential contamination of any person(s)? Property or vehicle damage?*

Vehicle Safety

Before Leaving Office

1) Are all personnel in vehicle are properly signed out on IN/OUT board?

2) Is driver fit to drive: emotionally distraught, unfamiliar with vehicle, drowsy, hung-over or missing corrective lenses?

3) What are road conditions like: icy, foggy, heavy rain or snow? Are the driver and vehicle capable of operating safety in these conditions?

4) Is vehicle in safe operational condition: wipers working, lights working, tires properly inflates and with acceptable tread depth, seat belts working and breaks operational?

5) Are all required emergency and automotive equipment accounted for and properly stored?

Fleet Vehicle Supplies

1. **ANSI Approved First Aid Kit**
    - BSI (Body Substance Isolation): Waterproof gloves and eye/face shield.
    - Various sized adhesive bandages, triangular bandaged and trauma dressings, scissors, and tourniquet.
    - Antiseptic: Triple antibiotic ointment, medicated prep-pads, alcohol wipes or Iodine.
    - Over-the-counter medications: Ibuprofen, Acetaminophen and Antihistamine.*
    - Medical shears and tweezers.*
    - Athletic tape (at least 2 rolls).*
    - Emergency space blanket.*
    - Sam Splint® and elastic compression wrap (Ace Bandage®).*
    - Glucose Syrup (Diabetes: Hypoglycemic Shock).*
    - Epinephrine injector (If properly trained in use or prescribed by doctor).*
    - Electrolyte tablets.*

*Suggested supplemental items to First Aid Kit.

2. **Automotive Equipment**
    - Accident Documentation Kit: **SF-91, SF-94,** Vehicle Inspection Checklist and gas card.
    - Emergency Response Guidebook (2012 or newest version).
    - District transportation maps.
    - Most recent issue of the NOW District Field Operations Guide.
    - Triangle reflectors or road cones.
    - Shovel and Pulaski (field vehicles).
    - Tire chains (if needed).
    - Tow strap or chain (field vehicles).
    - Functioning jack and lug wrench.
    - Ice scraper/squeegee.
    - Spare tire: properly inflated and with acceptable tread depth.
    - Small tool kit: Phillips and flat head Screwdrivers, spanner wrench, pliers, hammer, etc.

3. Fire & Safety Equipment

- PPE: extra gloves, eye protection and hearing protection (if available).
- Fire extinguisher (2.5 lbs. ABC).
- At least 2 high visibility reflective safety vests.
- Flash light(s) and extra betters (if available).
- Extra drinking water.
- 5 gallons of water stores in plastic jug or backpack bladder-bag pump.
- Hand tools: at least 1 Pulaski and 1 shovel
- Collapsible bucket.

Motor Vehicle Accidents

1. **STOP!!!** Check that the scene is safe before exiting vehicle.
   - Are you safe?
   - Is the other driver(s) safe?
   - What is your general impression of the situation?
   - Can you safely exit the vehicle: downed power lines, hazardous material and/or vapors, fire, smoke or traffic?

2. **In the event of a serious medical emergency call 911 immediately.**
   - Refer to "**medical emergency**" section on **page 27.**

3. **If possible move vehicle away from traffic**
   - Use triangle reflectors or road cones to warn other drivers of the accident.
   - Wear a high visibility vest (requires to be in all vehicles).
   - Try not to block driveways or other routes of travel.

4. **Notify Central Dispatch, Law Enforcement and Supervisor(s)**
   - Dispatch should notify: Supervisors, Safety manager and HR Specialist.
   - Vehicle involved (GSA vehicle number).
   - Location of accident.
   - Number of vehicles or persons involved.
   - Events leading to the accident.
   - Medical injuries related to the accident.
   - Request additional assistance: towing, personnel transport, etc.

5. **Exchange information with involved motorist(s) and law enforcement authorities**
   - Give your supervisor's contact information only to appropriate authorities.
   - The government is self-insured.
   - Do not admit or assign guilt.
   - If possible document scene with photographs.
   - Complete Standard Form(s) **SF-91** (Motor Vehicle Accident Report), **SF-94** (Statement of Witness) and if personal injury occurs: **CA-1** (Notice of Traumatic Injury and Claim for Continuation of Pay/Compensation).
   - See **page 14** for more detailed information on reporting accidents at work.

6. Stay calm and reevaluate your physical and mental wellbeing!!!

Overdue Employee(s)

1. **Employees should always:**
    - Insure that all information on your emergency contact card used by dispatch is up to date and accurate.
    - Insure IN/OUT board is updated and shows:
        1. Your location (Township/Range/Section)
        2. Your Supervisor (or acting supervisor)
        3. Your vehicle number
        4. Your estimated return time (ERT)
    - Have Dispatch update IN/OUT board when you change locations or you need to modify your ERT while working in the field.
    - Make sure the supervisor you have identified on IN/OUT board is actually on duty and aware of your mission.
    - Insure that mobile radio in vehicle is ON and functioning correctly. Carry a portable/handheld radio while working in the field and known how to operate it.

2. **Report missing person(s) to dispatch:**
    - Identify your name and location.
    - Name of missing person(s) and last time you saw them.
    - Give description of missing person(s): age, sex, race, height, weight, build, hair color, hair length, facial hair and eye color.
    - If known, report any physical or mental handicaps, health issues and/or prescribed medications of missing person(s).
    - Describe equipment missing person(s) had when you last saw them.
    - Describe any familiarity with area or wilderness skills missing person(s) have.
    - Describe terrain and weather in the area.
    - Identify the best access to your location.
    - Remain at vehicle until search party arrives.
    - If it is dark you can turn on the vehicle lights and periodically honk the horn. Make sure you do not drain the battery.
    - Stay in the area that you last saw the missing person until you are released by your supervisor, Incident Commander or emergency personnel.

3. **Dispatch:**
    - Employees are considered overdue 10 minutes after their estimated return time (ERT) as shown on IN/OUT board.
    - Once an employee is identified as overdue, Dispatch will allocate approximately 15 minutes to attempt contact and/or locate the overdue employee.
    - If after 15 minutes Dispatch is unsuccessful locating the overdue employee, the employee's supervisor as identified on IN/OUT board will be notified of the situation and responsibility is transferred to supervisor.

4. **Supervisors:**
    - Supervisors and employees should insure that emergency contact cards up to date and accurate for each responsible employee every year.
    - Supervisor of overdue employee will allocate approximately 30 minutes to locating their overdue employee. Things to check:
        - Talk with last to see/talk to overdue employee
        - Call all known cell and home phone numbers
        - Check parking lot for GOV or POV vehicle
        - Supervisor will have the discretion to determine when to activate a search and rescue operation.
        - If the need for search and rescue is determines, Supervisor will contact agency law enforcement and available relevant employee to assist County SAR team.

5. **Search and Rescue:**
    - Search and rescue operations will be led and coordinated through the relevant county sheriff's office.

Medical Emergencies

Do not provide medical procedures, including first aid or CPR, which are outside the scope of your training. If unsure or uncomfortable with providing assistance to an injured party, do not engage. In a medical emergency always initiate the emergency medical system by calling 911 immediately.

1. **STOP!!! Check that the scene is safe before providing assistance to others:**
   - Are you safe?
   - What is your general impression of the situation?
   - Is the patient safe or do you need to move them from danger?
   - Can you safely reach the patient?
   - Downed power lines, hazardous material and/or vapors, dangerous animal still in area, fire and smoke, falling trees, traffic?

2. **In the event of a serious medical emergency, call 911 immediately.**

3. **Assess scene and document the incident:**
   - Mechanism of injury (**MOI**); how did the injury/illness occur?
   - Number of patients?
   - Is patient(s) conscious?
   - If conscious, have you asked them for permission to provide care?
   - Can you provide care with what you have on hand?
   - Do you need to request a Medevac flight? (see #6)

4. **Stabilize patient**
   - Do only what you have been trained to do!!!
   - Use "**Medical Plan ICS 206**" form on **page 30** to document patient assessment, treatment and transport.
   - Use **BSI** (Body Substance Isolation Measures): waterproof gloves, pocket mask barrier, eye/face shield.
   - Move patient from danger.
   - Stop any bleeding.
   - Asses **MOI** (Mechanisms of Injury): stabilize cervical spine (neck) if spinal injury is suspected or patient is unresponsive.

- Check **ABC**'s: Airway, Breathing, Circulation
  A. Airway is clear? Use "Head tilt-Jaw thrust" and/or finger sweep to clear airway.
  B. Is patient breathing? How well are they breathing?
  C. Is patient bleeding? Does patient have a pulse?
- Assess patient's past and pertinent medical history: Are they suffering complications from a previous injury or illness? Are they suffering from an allergic reaction? Are they experiencing illness or injury related to a medication?

5. Activate Emergency Medical System (EMS) and Advanced Life Support (ALS):

- Use "**Medical Plan ICS 206**" form on **page 30** to document patient assessment, treatment and transport.
- Report scene size-up, patient assessment and resource needs to dispatch or 911.
- Never broadcast patient's name over the radio.
- Determine best evacuation method.
- If possible begin transport of patient EMS rendezvous location (hospital or ambulance).
- Report all accident and medical information to responding EMS personnel.

6. Choosing a Medevac Site:

- Locate a reasonably flat area clear or people, vehicles, and obstructions such as trees, poles, and overhead wires.
- The area must be free of stumps, brush, posts, large rocks or anything over 18 inches high.
- Consider wind direction. Helicopters land and takeoff into the wind. Choose an approach free of obstructions.
- Any obstruction should be relayed to the helicopter crew on initial radio contact.
- Remove or secure any loose items in and around the landing area such as trash, blankets, hats or equipment.
- If possible, wet down the landing area if dusty conditions are present.

Fixed Helispots

- Type **II** Helicopter: Safety circle = 90' Touchdown pad = 20' x 20', clear and level.
- Type **III** Helicopter: Safety circle = 75' Touchdown pad = 15' x 15', clear and level.

7. Fatality:

- Stay calm and act rationally.
- Check vitals to confirm patient has expired.
- **Never broadcast victim's name over the radio!**
- Mark and record approximate location of the body.
- Notify dispatch and/or responding authorities of situation and location.
- Do not disturb the scene and move to a safe location.
- Remain on scene until responding authorities arrive. Be prepared to give a statement and assist as necessary.

8. Stay calm and reevaluate your physical and mental wellbeing!!!

- Seek Critical Incident Stress Management assistance.
- See **page 14** for more detailed information on reporting accidents at work.

CPR and First Aid

CPR– NO BREATHING NO PULSE

Do not perform CPR unless you have been trained and certified to do so, and your certification is current. Do not go beyond the scope of your training.

1. Determine responsiveness: tap on patient's shoulder, shout and check vitals before proceeding.

2. Make sure that the patient is positioned on their back on a firm surface.

3. Open airway: visually check for foreign objects in airway. Use the palm of one hand to press on patient's forehead. With the other hand (using index and middle finger) press on chin, opening the jaw.

4. Give 2 rescue breaths: use steady, even breaths one after another watching for chest rise. If chest does not rise, reassess airway for foreign object visually or with finger sweep.

5. Place the palm of one hand on the middle of the chest along breast bone. Place other hand on top of first hand interlacing fingers. Lock elbows and position shoulders directly over your hands, so as to provide direct downward pressure.

6. Give 30 chest compressions: use fast, deliberate and consistent compressions to 2 inches in depth. 30 compressions should take approximately 18 seconds to complete. Do not be shocked if you hear the breastplate break!

7. Continue cycles of 2 breaths and 30 compressions until patient is revived, help arrives or you become too exhausted to continue.

First Aid - Common Injuries & Illness

You should only provide first aid, including the types below, if you have been trained and certified to do so, and your certification is current. Do not go beyond the scope of your training).

- **Bleeding:** Provide direct pressure and elevate above heart. If bleeding is severe or fails to stop, use tourniquet places on main artery above wound and initiate Advanced Life Support: call 911 immediately.
- **Shock:** Assist patient into a supine position, elevate feet, keep warm, comfortable and provide fluids. Initiate Advanced Life Support: call 911.
- **Fractures:** Splint joints above and below injury. Apply traction to reduce pain and potential soft tissue damage and blood loss. Monitor pulse, sensation and skin color below the splint to insure sufficient circulation is maintained. If pelvis, femur or humerus is fractured initiate Advanced Life Support: call 911.
- **Strains and Sprains:** Discontinue use of injured appendage. Apply ice, administer pain medication, apply compression bandaging and consult physician.
- **Head Injury:** Determine mechanism of injury: If neck injury is suspected, stabilize head and neck while maintaining airway initiate Advanced Life Support: call 911 immediately. Check eye pupils: responsive to light? Equal in both eyes? If not, concussion is likely; keep patient conscious and seek advanced medical care. Clear fluid from ears or not? If yes, initiate Advanced Life Support; call 911 immediately.
- **Bee sting or other Allergic Reaction:** Give patient Antihistamine tablets only if there is no swelling of throat or mouth. If patient exhibits signs of Anaphylaxis (face, neck or airway swelling and difficulty breathing): administer or assist the patient with administering an epinephrine injector and initiate Advanced Life Support; call 911 immediately.
- **Eye Injuries:** Flush eye with clean water to remove foreign material, leave impaled objects in place. Use gauze around impaled object to restrict movement, and then bandage both eyes, seek advanced medical care.
- **Burns:** Remove heat source, apply cool water or cold-pack, keep burn clean, dry bandage and provide cold fluids. Use the rule of 9's to determine % burn area of: head = 9%, torso (chest and back) = 36%, leg (each) = 18%, genitalia = 1%.
- **Heat Exhaustion and Stroke:** Remove patient from sun or other source of heat. Remove heavy clothing and begin cooling body as quickly as possible using cool water and/or fanning. Provide electrolyte fluid replacement. If patient continues to deteriorate or loses consciousness, initiate Advanced Life Support: call 911 immediately.

MEDICAL PLAN (ICS 206 WF)

Controlled Unclassified Information//Basic

Medical Incident Report

FOR A NON-EMERGENCY INCIDENT, WORK THROUGH CHAIN OF COMMAND TO REPORT AND TRANSPORT INJURED PERSONNEL AS NECESSARY.

FOR A MEDICAL EMERGENCY: IDENTIFY ON SCENE INCIDENT COMMANDER BY NAME AND POSITION AND ANNOUNCE "MEDICAL EMERGENCY" TO INITIATE RESPONSE FROM IMT COMMUNICATIONS/DISPATCH.

Use the following items to communicate situation to communications/dispatch.

1. CONTACT COMMUNICATIONS / DISPATCH (Verify correct frequency prior to starting report)
Ex: "Communications, Div. Alpha. Stand-by for Emergency Traffic."

2. INCIDENT STATUS: *Provide incident summary (including number of patients) and command structure.*
Ex: "Communications, I have a Red priority patient, unconscious, struck by a falling tree. Requesting air ambulance to Forest Road 1 at (Lat./Long.) This will be the Trout Meadow Medical, IC is TFLD Jones. EMT Smith is providing medical care."

Severity of Emergency / Transport Priority	☐ **RED / PRIORITY 1 Life or limb threatening injury or illness. Evacuation need is IMMEDIATE** *Ex: Unconscious, difficulty breathing, bleeding severely, 2° – 3° burns more than 4 palm sizes, heat stroke, disoriented.* ☐ **YELLOW / PRIORITY 2 Serious Injury or illness. Evacuation may be DELAYED if necessary.** *Ex: Significant trauma, unable to walk, 2° – 3° burns not more than 1-3 palm sizes.* ☐ **GREEN / PRIORITY 3 Minor Injury or Illness. Non-Emergency transport** *Ex: Sprains, strains, minor heat-related illness.*	
Nature of Injury or Illness & Mechanism of Injury		*Brief Summary of Injury or Illness (Ex: Unconscious, Struck by Falling Tree)*
Transport Request		*Air Ambulance / Short Haul/Hoist Ground Ambulance / Other*
Patient Location		*Descriptive Location & Lat. / Long. (WGS84)*
Incident Name		*Geographic Name + "Medical" (Ex: Trout Meadow Medical)*
On-Scene Incident Commander		*Name of on-scene IC of incident within an incident (Ex: TFLD Jones)*
Patient Care		*Name of Care Provider (Ex: EMT Smith)*

3. INITIAL PATIENT ASSESSMENT: *Complete this section for each patient as applicable (start with the most severe patient)*

Patient Assessment: See IRPG page 106

Treatment:

4. TRANSPORT PLAN:

Evacuation Location (*if different*): (*Descriptive Location (drop point, intersection, etc.) or Lat. / Long.*) Patient's ETA to Evacuation Location:

Helispot / Extraction Site Size and Hazards:

5. ADDITIONAL RESOURCES / EQUIPMENT NEEDS:

Example: Paramedic/EMT, Crews, Immobilization Devices, AED, Oxygen, Trauma Bag, IV/Fluid(s), Splints, Rope rescue, Wheeled litter, HAZMAT, Extrication

6. COMMUNICATIONS: Identify State Air/Ground EMS Frequencies and Hospital Contacts as applicable

Function	Channel Name/Number	Receive (RX)	Tone/NAC *	Transmit (TX)	Tone/NAC *
COMMAND					
AIR-TO-GRND					
TACTICAL					

7. CONTINGENCY: *Considerations: If primary options fail, what actions can be implemented in conjunction with primary evacuation method? Be thinking ahead.*

8. ADDITIONAL INFORMATION: *Updates/Changes, etc.*

REMEMBER: Confirm ETA's of resources ordered. Act according to your level of training. Be Alert. Keep Calm. Think Clearly. Act Decisively.

ICS 206 WF (03/18) **Controlled Unclassified Information//Basic**

Radio Operation and Transmission Protocols

1. **Transmitting messages over the radio:**
   - Insure you are in the proper group and channel before transmitting by looking at the channel selection knob and/or the LCD screen. Group 7 and Group 8 contains the repeater frequency channels used for the NOW District BLM.
   - With the correct channel/repeater selected key the transmit button for 2 seconds and release. IF you are successfully hitting the selected repeater, you will hear a short interval of static ending with a "click" after you release the transmit button. If you do not hear any static after you release the transmit button, you can try changing locations.
   - If you are having trouble transmitting with a Portable/hand-held radio, try using the Mobile radio in your vehicle which has more powerful transmitting capabilities. Portable/hand-held radios perform better from high points with the antenna vertical and away from electromagnetic sources such as vehicles, power lines, etc.
   - When you are ready to transmit a message:
     a. Key the microphone button for **2 seconds** before you begin speaking to ensure a transmission is complete.
     b. **State the last name or title of the person you are trying to reach followed by your last name or title and the channel you are using**. Ex: "Eugene dispatch, Murphy on Marys Peak…"
     c. Always speak slowly and clearly with normal language; avoiding radio slang and/or "10" codes.
     d. If possible use military time when communicating.
     e. It is not necessary to end each transmission with "over."
     f. When you are done with radio communications, end the transmission with your last name followed by "**Clear**" Ex: "Murphy clear"
   - If you find yourself unable to make contact with another party on any of the channels in group 1, clear the airway with: "**No contact**" Ex: "No contact Murphy clear" then try changing your location or channel group.

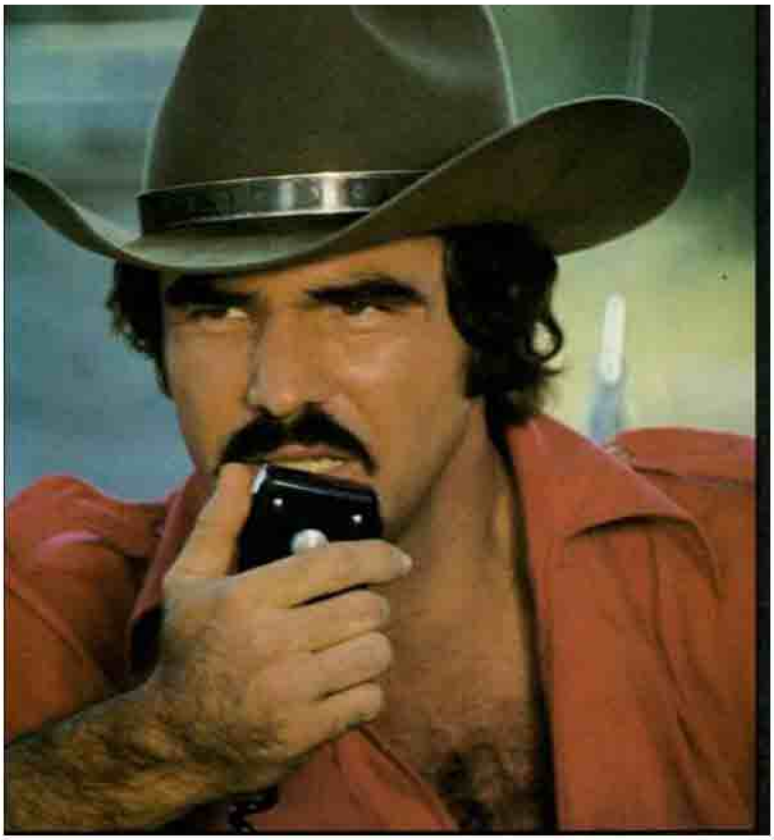
2. **Radio functions, cloning and programing procedures:**
   - See the radio operation instruction diagrams, channel groups and frequency list on the following pages:

*Groups 25, 26, 27, 31 and 32 are blank for cloning on fire assignments.

Relm BK Radio
KNG-P150S

KNG-P150S Cloning Procedures

KNG-S radios allow for three cloning options:
Active Zone – Copies the information in the Source radio's active zone to the Target radio's active zone.
Zone-to-Zone – Allows for selection of any zone in the source radio to be, copied into any non-blocked zone in the Target radio.
Entire Radio – Copies all non-radio specific data from the Source radio to the Target radio. Radio specific data includes P25 ID, serial number, encryption keys and passwords.



KNG-P150S as Source Radio

On the source radio, select the zone with the information being, cloned, by pressing the Zone button, or selecting "Zone Select" from the menu, then entering the number of the desired zone. On the target radio, select the Zone or Group to which the information is to be, sent. For Legacy radio, models select a target group by pressing the [#] key and entering the number of the desired group.
Some zones may be, blocked by PC programming to prevent them from being, overwritten. Only unlocked groups will accept incoming clones.
On the source radio:
1. Press the Menu button.
2. Use the up/down buttons to select "Cloning".
3. Press the [ENT] button.
4. Select "Enter Dest Clone".

When the KNG Target radio is in "Destination Clone Mode", the Source radio can initiate the cloning of the "Active Zone" or "Picklist". When cloning has started, the KNG Target radio will display "Destination Clone Start"
After a successful information transfer, "Power off" is displayed and the radio will restart. The only cloning functions supported by the KNG Target radio are "Active Zone" and "Picklist". All other functions are unsupported

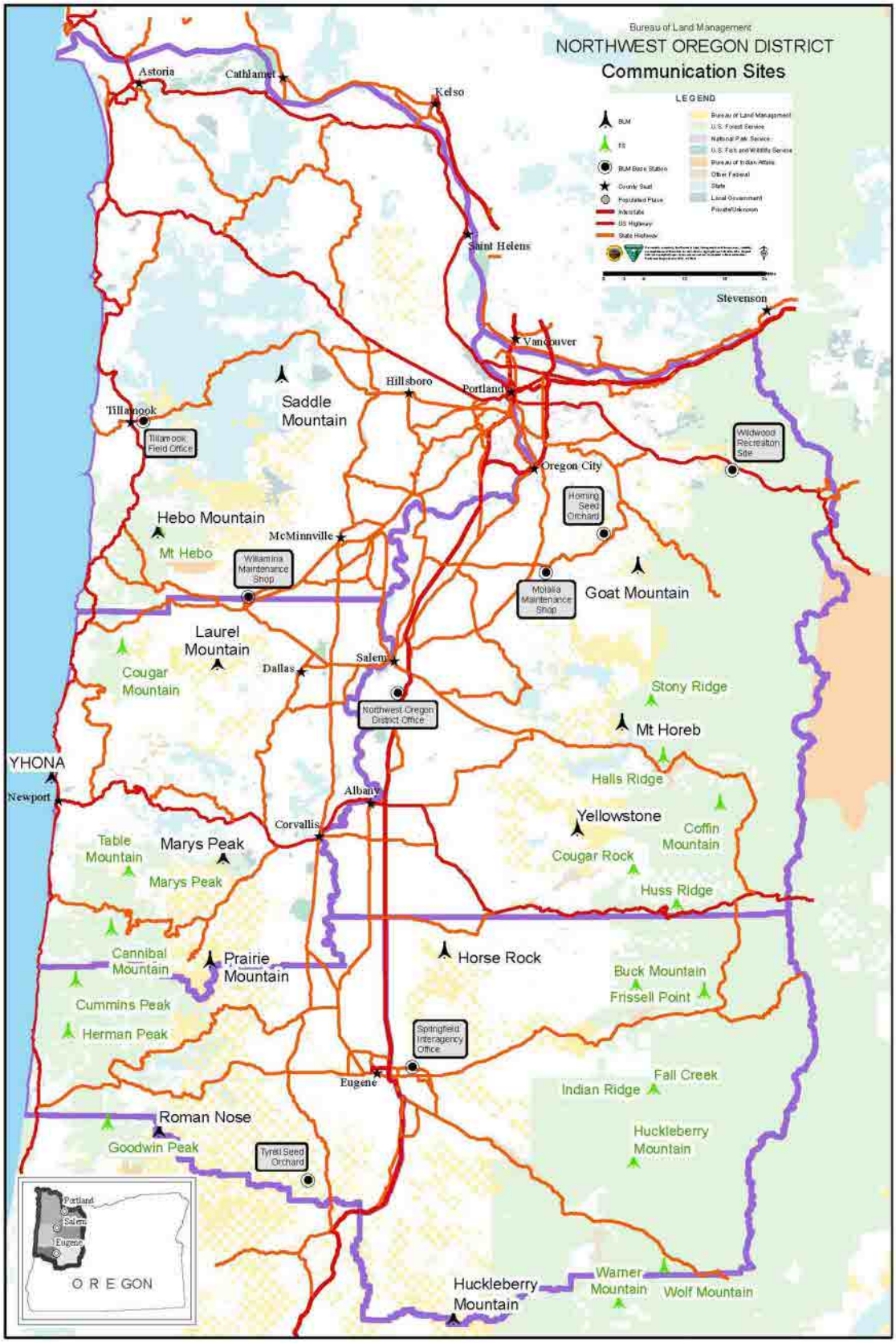
KNG ABBREVIATED KEYPAD CHANNEL PROGRAMMING

Refer to KNG-PxxxS series owner's manual (pg 55) for complete instructions.

To edit the programmable Channel settings: Press Menu, scroll to Keypad Programming and press ENT, Keypad Programming appears again, press ENT, enter password (000000), press ENT to select Channels. At this point, choose which Zone to edit the channel and then select the Channel to edit. Enter desired RX/TX frequencies and tones. Remember to clear (CLR) the current value first and enter (ENT) the new value. Below are common settings for analog channels:

A. Chan Label – enter channel name
B. Rx Freq – enter receive frequency
C. Rx Mode – analog
D. Rx Guard – enter tone frequency
E. Rx NAC – (digital mode)
F. Squelch Mode – (digital mode)
G. Tx Freq – enter transmit frequency
H. Tx Mode – analog
J. Tx Guard – enter tone frequency
K. Tx NAC – (digital mode)
L. TGID – (digital mode)
M. Secure Mode – clear
N. Key – 01 (do not change)
O. Key Lock – off
P. Low Pow Lock – off
Q. PList Disable – off

Interagency Radio Repeater Sites Map



Radio Groups and Frequencies

MOBILE / PORTABLE		
GROUP	NAME	
1	SANTIAM	GROUPS 1-16 ARE SHARED WITH ALL INTERAGENCY BLM AND FOREST SERVICE USERS. THEY WILL BE THE SAME IN EVERY RADIO (VERTEX AND BK/KNG). THESE WILL FUNCTION AS THE ADMIN/COMMON USER GROUPS.
2	McKENZIE	
3	MIDDLE FORK	
4	SIUSLAW NORTH	
5	SIUSLAW ADMIN	
6	SIUSLAW SOUTH	
7	NWO ADMIN	
8	FISH AND WILDLIFE	
9	EMERGENCY	
10	CASCADIA NORTH	
11	CASCADIA SOUTH	
12	FS OR WEST	
13	FS OR EAST	
14	WIF ADMIN	
15	BLANK	
16	BLANK	

BK MOBILE / PORTABLE		
GROUP	NAME	
17	NWO SALEM FIRE	GROUPS 17-24 WILL BE UTILIZED FOR MORE FIRE SPECIFIC INCIDENTS THAT ARE LOCAL TO YOUR PERSPECTIVE OPERTIONAL AREA. WHEN YOU REPORT TO A FIRE INCIDENT IN ANOTHER FOREST OR NEED TO CLONE A GROUP, UTILIZE GROUP 25. GROUPS 26-31 CAN ONLY BE USED WITH KNG MODEL RADIOS. GROUP 32 WILL BE UTILIZED JUST LIKE GROUP 25. ITS A CLONE OVER GROUP FOR FIRE OPERATIONS OUTSIDE OF YOUR PERSPECTIVE AREA.
18	NWO SPFLD FIRE	
19	HEBO FIRE	
20	WALDPORT FIRE	
21	REEDSPORT REC	
22	ODF MEDFORD	
23	INCIDENT CLONE	
24	INCIDENT CLONE	
25	INCIDENT CLONE	
26	ROUGE-SISKIYOU	
27	HOOD	
28	UMPQUA	
29	BLM ROSEBURG/COOS	
30	BLM MEDFORD	
31	INCIDENT CLONE	
32	INCIDENT CLONE	

WILLAMETTE	SIUSLAW	FISH AND WILDLIFE	NWO

GROUP 1 - SANTIAM						
CH	NAME	RX FREQ	TONE	TX FREQ	TONE	Geo Zone
1	STONEY					Forest Repeater
2	HALLS					Forest Repeater
3	COFFIN					Forest Repeater
4	COUGAR					Forest Repeater
5	HUSS					Forest Repeater
6	SO CO					South Marion County
7	PROJ SRZ					Santiam River Proj
8	PROJ MCK					McKenzie River Proj
9	PROJ MDL					Middle Fork Proj
10	RED NET					ODF Tactical
11	WHT NET					ODF Air to Ground
12	BLUE NET					ODF Water Tactical
13	ODF ORANGE					ODF Orange net
14	A/G 09					Air to Ground 9 (SEC)
15	A/G 50					Air to Ground 50(PRI)
16	AIR GUARD					Emergency USE ONLY

GROUP 2 - McKENZIE						
CH	NAME	RX FREQ	TONE	TX FREQ	TONE	Geo Zone
1	BUCK					Forest Repeater
2	FRISSELL					Forest Repeater
3	INDIAN					Forest Repeater
4	DEF BACH					Deschutes Bachelor
5	DEF BB					Deschutes Black Butte
6	ELANE MN					ODF RPT - Mt Nebo
7	PROJ SRZ					Santiam River Proj
8	PROJ MCK					McKenzie River Proj
9	PROJ MDL					Middle Fork Proj
10	RED NET					ODF Tactical
11	WHT NET					ODF Air to Ground
12	BLUE NET					ODF Water Tactical
13	EAST 2					McKenzie area Fire
14	A/G 09					Air to Ground 9 (SEC)
15	A/G 50					Air to Ground 50(PRI)
16	AIR GUARD					Emergency USE ONLY

GROUP 3 - MIDDLE FORK						
CH	NAME	RX FREQ	TONE	TX FREQ	TONE	Geo Zone
1	FALL CREEK					Forest Repeater
2	HUCKLBRY					Forest Repeater
3	WOLF					Forest Repeater
4	WARNER					Forest Repeater
5	ELANE FV					ODF RPT - Fairview
6	ELANE MN					ODF RPT - Mt Nebo
7	PROJ SRZ					Santiam River Proj
8	PROJ MCK					McKenzie River Proj
9	PROJ MDL					Middle Fork Proj
10	RED NET					ODF Tactical
11	WHT NET					ODF Air to Ground
12	OAK TAC					OAKRIDGE TAC
13	LIFE FLT					LIFE FLIGHT
14	A/G 09					Air to Ground 9 (SEC)
15	A/G 50					Air to Ground 50(PRI)
16	AIR GUARD					Emergency USE ONLY

GROUP 4 - SIUSLAW NORTH						
CH	NAME	RX FREQ	TONE	TX FREQ	TONE	Geo Zone
1	HEBO					Forest Repeater
2	COUGAR					Forest Repeater
3	PROJECT3					SandLake
4	PROJECT4					TAC Channel
5	ODF HEBO					Philomath Repeater
6	BLM HEBO					BLM Repeater
7	SALEMDIR					
8	DISP C					Tillamook 911 Dispatch
9	DISP S					Nestucca Dispatch
10	TAC3					Nestucca TAC South
11	TAC3A					Nestucca 3A Repeater
12	TILL CTY SO					Tillamook (RX only)
13	LINC CTY SO					Lincoln (RX only)
14	NIFC T-2					Forest Service TAC
15	S AND R					
16	WXCMEAR					Cape Mears weather

GROUP 5 - SIUSLAW ADMIN						
CH	NAME	RX FREQ	TONE	TX FREQ	TONE	Geo Zone
1	HEBO					Mt. Hebo Repeater
2	COUGAR					Cougar Mtn. Repeater
3	MARYS					Mary's Peak Repeater
4	TABLE					Table Mtn. Repeater
5	CUMMINS					Cummins Repeater
6	HERMAN					Herman Peak Repeater
7	GDWIN MAP					Goodwin Repeater
8	CANNIBAL					Cannibal Mtn. Repeater
9	GDWIN NRA					Goodwin NRA Repeater
10	WINCHESTER					Winchester Repeater
11	PROJECT 3					Project 3 TAC Channel
12	PROJECT 4					Project 4 TAC Channel
13	TRAVEL					National Travel
14	WX SALEM					Salem Weather
15	A/G 50					Air to Ground 50(PRI)
16	AIR GUARD					A/G 50

GROUP 6 - SIUSLAW SOUTH						
CH	NAME	RX FREQ	TONE	TX FREQ	TONE	Geo Zone
1	TABLE					Forest Repeater
2	CUMMINS					Forest Repeater
3	GDWIN MAP					Admin
4	WINCHESTER					Forest Repeater
5	GDWIN NRA					Forest Repeater
6	PROKECT 3					Project 3 TAC Channel
7	PROJECT 4					Project 4 TAC Channel
8	NIFC T-2					NIFC TAC
9	USFS CALL					TAC
10	HERMAN					Forest Repeater
11	BAYCITYA					Ambulance
12	LUMP AM					Ambulance
13	W. LANE A					Ambulance
14	S AND R					
15	CG 21A					Coast Guard
16	AIR GUARD					Emergency USE ONLY

GROUP 7 - NWO ADMIN						
CH	NAME	RX FREQ	TONE	TX FREQ	TONE	Geo Zone
1	SLM DIRECT					BLM Direct
2	HEBO					BLM Mt Hebo Rpt
3	YELLOWSTONE					BLM Yellowstone Rpt
4	MARYS					BLM Marys Pk Rpt
5	S SADDLE					BLM Saddle Mt Rpt
6	MOUNT HOREB					BLM Mt Herob Rpt
7	LAUREL					BLM Laurel Mtn Rpt
8	YHONA					BLM YHONA Rpt (local)
9	GOAT					BLM Goat Mtn Rpt
10	PRAIRIE					BLM Prairie Mtn Rpt
11	HORSE RK					BLM Horse Rock Rpt
12	ROMAN					BLM Roman Nose Rpt
13	HUCKLBRY					BLM Huckleberry Rpt
14	GENERAL					BLM SOA
15	FIRE					BLM SOA
16	MOPROJ					BLM SOA

GROUP 8 - FISH AND WILDLIFE						
CH	NAME	RX FREQ	TONE	TX FREQ	TONE	Geo Zone
1	FWS 1 (tactical)					Will Valley NWRC
2	FWS 2 (tactical)					Will Valley NWRC
3	BLM Prairie					NOD BLM
4	BLM Marys					NOD BLM
5	BLM Laurel					NOD BLM
6	BLM Fire					NOD BLM
7	USFS Hebo					Siuslaw NF
8	USFS Marys					Siuslaw NF
9	ODF Red					West OR ODF
10	ODF Prairie					West OR ODF
11	ODF Marys					West OR ODF
12	Polk Co Fire					PCF CENT1 POLK
13	Benton Co Fire					
14	Marion Co Fire					
15	A/G 50					
16	Air Guard					

GROUP 09 - EMERGENCY

CH	NAME	RX FREQ	TONE	TX FREQ	TONE	Geo Zone
1	Weather					NOAA Weather
2	ODOT Oak					
3	ODOT Hoodo					Sant ODOT
4	ODOT Mck					M Brdge ODOT
5	FireEast					East Side Dispatch
6	East2					McK Command (Hagen2)
7	East3					Lookout Command(Lowell)
8	Lane4					BEAR Mtn Command
9	Lane Co Airops					State Fire NET (Lane10)
10	McK Net					Rural Tac
11	Sisters FD					Sisters/Camp Shermn RFD
12	Oak Tac					Oakridge Tactical
13	So Co					South Marion County
14	Lane Co RIT					Lane County RIT
15	S and R					State Wide SAR
16	AIR GUARD					Emergency USE ONLY

GROUP 10 - CASCADIA NORTH

CH	NAME	RX FREQ	TONE	TX FREQ	TONE	Geo Zone
1	DEF BB					
2	DEF GR					
3	DEF AW N					
4	DEF TAC1					
5	DEF TAC2					
6	ODF RED					
7	TAC 8					
8	ODF TAC					
9	SISCD FD					
10	REDM FD					
11	ODF GRIZ					
12	A/G 61					
13	A/G 37					
14	NOAA WX					
15	BLM TAC					
16	AIR GUARD					

GROUP 11 - CASCADIA SOUTH

CH	NAME	RX FREQ	TONE	TX FREQ	TONE	Geo Zone
1	DEF AW C					
2	DEF EB					
3	DEF BACH					
4	DEF LO C					
5	DEF TAC1					
6	DEF TAC2					
7	ODF GRIZ					
8	ODF RED					ODF Tactical
9	BEND FD					
10	LASUN FD					
11	ODF TAC					NICS-OSDF Tac
12	ODF SPIN					ODF Rpt - Suger Pine
13	NOAA WX					Weather
14	A/G 61					Air to Ground 61
15	A/G 37					Air to Ground 37
16	AIR GUARD					Emergency USE ONLY

GROUP 12 - FS OR WEST

CH	NAME	RX FREQ	TONE	TX FREQ	TONE	Geo Zone
1	MHF 1					
2	MHF 2					
3	MHF 3					
4	MHF 4					
5	RRF 1					
6	RRF 2					
7	RRF 3					
8	RRF 4					
9	SIF 1					
10	SIF 2					
11	SIF 3					
12	SIF 4					
13	UPF 1					
14	UPF 2					
15	UPF 3					
16	WNF 2					

GROUP 13 - FS OR EAST

CH	NAME	RX FREQ	TONE	TX FREQ	TONE	Geo Zone
1	DEF 1					
2	DEF 2					
3	FRF 1					
4	FRF 2					
5	FRF 3					
6	MAF 1					
7	MAF 2					
8	MAF 3					
9	OCF 1					
10	OCF 2					
11	OCF 3					
12	OCF 4					
13	UMF 1					
14	UMF 2					
15	WWF 1					
16	WWF 3					

GROUP 14 - WIF ADMIN

CH	NAME	RX FREQ	TONE	TX FREQ	TONE	Geo Zone
1	STONEY					Forest Repeater
2	HALLS					Forest Repeater
3	COFFIN					Forest Repeater
4	COUGAR					Forest Repeater
5	HUSS					Forest Repeater
6	BUCK					Forest Repeater
7	FRISSELL					Forest Repeater
8	INDIAN					Forest Repeater
9	FALL CREEK					Forest Repeater
10	HUCKLBRY					Forest Repeater
11	WOLF					Forest Repeater
12	WARNER					Forest Repeater
13	PROJ SRZ					Santiam River Proj
14	PROJ MCK					McKenzie River Proj
15	PROJ MDL					Middle Fork Proj
16	AIR GUARD					Emergency USE ONLY

GROUP 15 -BLANK

CH	NAME	RX FREQ	TONE	TX FREQ	TONE	Geo Zone
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						

GROUP 16 - BLANK

CH	NAME	RX FREQ	TONE	TX FREQ	TONE	Geo Zone
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						

GROUP 17 - NWO SALEM FIRE

CH	NAME	RX FREQ	TONE	TX FREQ	TONE	Geo Zone
1	GOAT					BLM Goat Mtn Rpt
2	YELLOWSTONE					BLM Yellowstone Rpt
3	MARYS PEAK					BLM Marys Pk Rpt
4	LAUREL MTN					BLM Laurel Mtn Rpt
5	S SADDLE					BLM Saddle Mt Rpt
6	ODF S SADDLE					ODF Rpt - S Saddle
7	ODF BUXTON					ODF Rpt Buxton
8	ODF BALD MT					ODF Bald Mtn
9	WO MARYS					ODF Rpt - Marys Pk
10	WO PRAIRIE					ODF Rpt - Prairie Mtn
11	HIGH HV					ODF Rpt - High Heaven
12	ODF MT HOREB					ODF Rpt - Mt Horeb
13	SKAMAN					ODF Rpt - Skamania
14	ODF SCOTT					ODF Rpt - Scott Mtn
15	RED NET					ODF Tactical
16	WHITE NET					ODF Air to Ground

GROUP 18 - NWO SPFLD FIRE

CH	NAME	RX FREQ	TONE	TX FREQ	TONE	Geo Zone
1	PRAIRIE					BLM Prairie Mtn Rpt
2	HORSE RK					BLM Horse Rock Rpt
3	ROMAN					BLM Roman Nose Rpt
4	HUCKLBRY					BLM Huckleberry Rpt
5	GENERL					BLM SOA
6	FIRE					BLM SOA
7	LANE 5					Coburg Lane County
8	ODF RED					ODF Tactical
9	EL FRAIRV					ODF Rpt - Fairview
10	EL NEBO					ODF Rpt - Mt Nebo
11	SC SCOTT					ODF Rpt - Scott Mtn
12	SCC OUGAR					ODF Rpt - Cougar Rock
13	WL PRAIR					ODF Rpt - Prairie Mtn
14	WL ROMAN					ODF Rpt - Roman Nose
15	WHITE					ODF Air to Ground
16	A/G 50PR					Air to Ground 50(PRI)

GROUP 19 - HEBO FIRE

CH	NAME	RX FREQ	TONE	TX FREQ	TONE	Geo Zone
1	HEBO					Forest Repeater
2	COUGAR					Forest Repeater
3	NIFC T-2					National TAC
4	ODF SADDLE					ODF Rpt - Saddle
5	ODF HEBO					ODF -Rpt - Hebo
6	TILL DIR					ODF Tillamook Direct
7	ODF RED					ODF Red (TAC)
8	ODF WHITE					ODF White
9	ODF BLUE					ODF Blue (A-to-G)
10	PROJECT 3					Project 3 TAC Channel
11	DISP C					Tillamook 911 Dispatch
12	DISP S					Nestucca Dispatch
13	TAC 2					Till 911/TAC 3 South
14	TAC 3					Nestucca TAC South
15	NLINFIRE					N. Lincoln Fire & Res
16	A/G 50					Air to Ground 50

GROUP 20 - WALDPORT FIRE

CH	NAME	RX FREQ	TONE	TX FREQ	TONE	Geo Zone
1	TABLE					Table Mtn. Repeater
2	MARYS					Mary's Peak Repeater
3	CUMMINS					Cummins Repeater
4	HERMAN					Herman Peak Repeater
5	GDWIN MAP					Goodwin Repeater
6	PROJECT 3					PROJ 3 TAC
7	NIFC T-2					National TAC
8	WLANERPT					West Lane Rpt
9	W ORE D					ODF - Phil Dir
10	ODF RED					ODF Red (TAC)
11	ODF WHITE					ODF White
12	CCFR					Cen Coast F&R Wald
13	ALSEAFD					Alsea Fire Dept
14	SVFD RPT					Siu Valley Fire Dept
15	AIR GUARD					A/G 50
16	A/G 50					Air to Ground 50(PRI)

GROUP 21 - REEDSPORT FIRE

CH	NAME	RX FREQ	TONE	TX FREQ	TONE	Geo Zone
1	WINCHESTER					Forest Repeater
2	GDWIN NRA					Forest Repeater
3	GDWIN MAP					Forest Repeater
4	HERMAN					Forest Repeater
5	CUMMINS					Cummins Repeater
6	PROJECT 3					PROJ 3 TAC
7	NIFC T-2					National TAC
8	WLANERPT					West Lane Rpt
9	ODF RED					ODF Red (TAC)
10	COOS DIR					Coos F. Patrol - Dir
11	COOS RPT					Coos F. Patrol - rpt
12	RDSPTTPD					Reedsport PD
13	RDSPTFD					Reedsport FD
14	DOUGCOF1					Doug County Fire 1
15	SVFD RPT					Siuslaw valley FD Rpt
16	A/G 50					Air to Ground 50(PRI)

GROUP 22 - ODF MEDFORD

CH	NAME	RX FREQ	TONE	TX FREQ	TONE	Geo Zone
1	ODF MFD					
2	ODF ROXY					
3	ODF SODA					
4	ODF GP					
5	ODF SXTN					
6	ODF LITTLE G					
7	ODF RED					
8	ODF WHITE					
9	ODF BLUE					
10	DFPA DIR					
11	DFPA RPTR					
12	KFPA CHASE					
13	KFPA WEL					
14	KFPA HAM					
15	SFM					
16	BLM CREW 2					

GROUP 23 - FIRE CLONE

CH	NAME	RX FREQ	TONE	TX FREQ	TONE	Geo Zone
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						

GROUP 24 - FIRE CLONE

CH	NAME	RX FREQ	TONE	TX FREQ	TONE	Geo Zone
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						

GROUP 25 - FIRE CLONE						
CH	NAME	RX FREQ	TONE	TX FREQ	TONE	Geo Zone
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						

GROUP 26 - SISKIYOU						
CH	NAME	RX FREQ	TONE	TX FREQ	TONE	Geo Zone
1	SISK ONION					Rouge-Siskiyou NF
2	BOLAN					Rouge-Siskiyou NF
3	FIDDLER					Rouge-Siskiyou NF
4	BEARCAMP					Rouge-Siskiyou NF
5	GRIZZLEY					Rouge-Siskiyou NF
6	LAKEOWDS					Rouge-Siskiyou NF
7	SNOWCAMP					Rouge-Siskiyou NF
8	MT EMILY					Rouge-Siskiyou NF
9	EDENRDGE					Rouge-Siskiyou NF
10	IRON MT					Rouge-Siskiyou NF
11	HERSHBGR					Rouge-Siskiyou NF
12	HALLS PT					Rouge-Siskiyou NF
13	DUTCHMAN					Rouge-Siskiyou NF
14	WHISKEY					Rouge-Siskiyou NF
15	ROBINSON					Rouge-Siskiyou NF
16	MT ASHLD					Rouge-Siskiyou NF

GROUP 27 - HOOD						
CH	NAME	RX FREQ	TONE	TX FREQ	TONE	Geo Zone
1	CLEAR LK					
2	FLAG PT					
3	MT DEFI					
4	MILL CR					
5	BIDDLE					
6	STACKER					
7	WALEHEAD					
8	MT LOWE					
9	TIMBERLI					
10	HICKMAN					
11	A/G50 P					
12	A/G 9 S					
13	WORK CH2					
14	CHAN 14					
15	CHAN 15					
16	CHAN 16					

GROUP 28 - UMPQUA						
CH	NAME	RX FREQ	TONE	TX FREQ	TONE	Geo Zone
1	N RED BT					
2	N CHILCT					
3	N FRVIEW					
4	N DOEHD					
5	DLRD PRJ					
6	NURD PRJ					
7	S RED BT					
8	S PICKET					
9	S AKER					
10	S CEDARS					
11	E CINMON					
12	E PIGIRN					
13	E DOEHD					
14	RSBG BLM Huck					Huckleberry RPTR
15	A/G 50					
16	A/G 9					

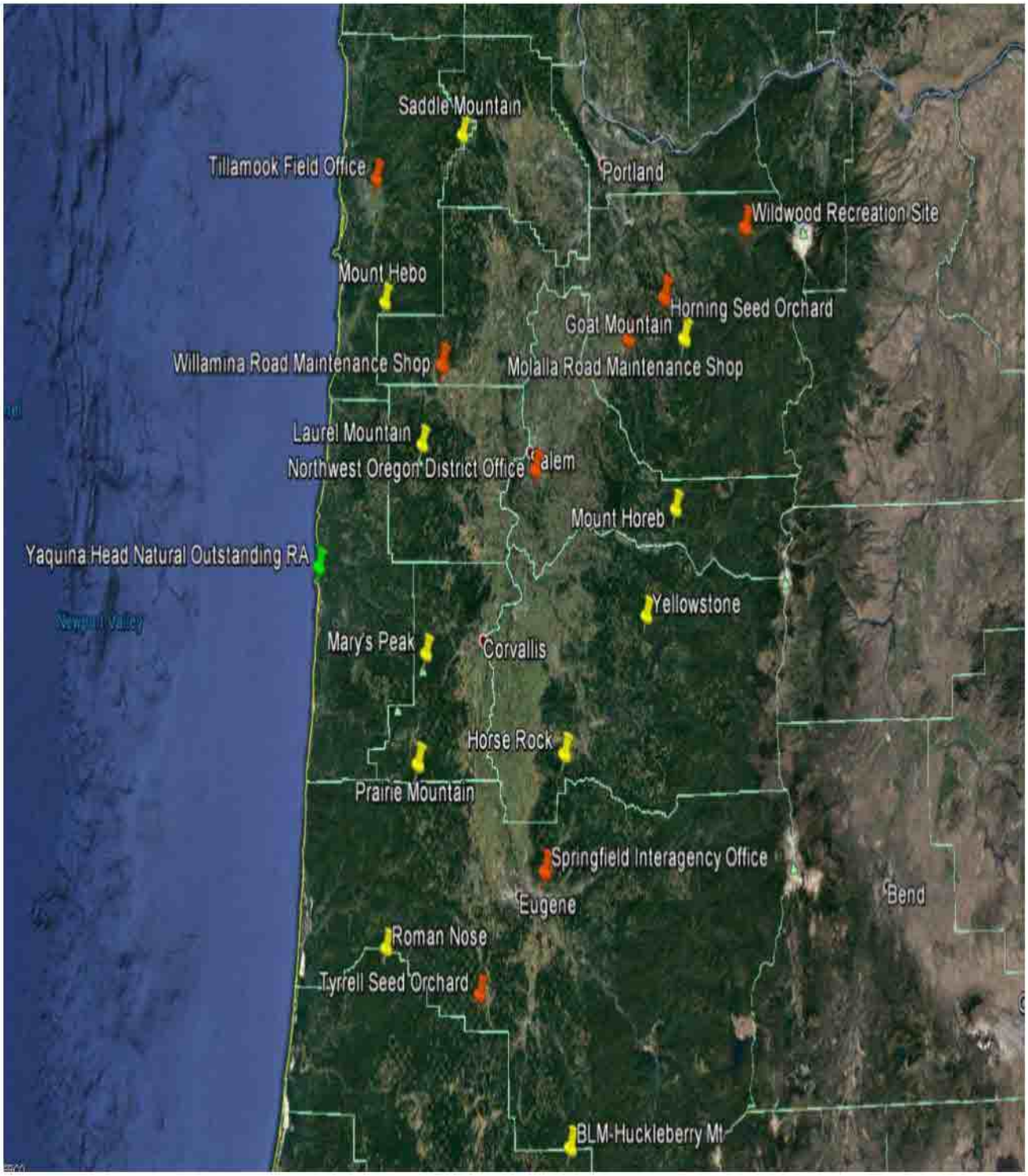
GROUP 29 - BLM ROSEBURG/COOS BAY DISTRICT						
CH	NAME	RX FREQ	TONE	TX FREQ	TONE	Geo Zone
1	RBD DIR					BLM Roseburg Direct
2	YELLW BTTE					YELLOW BUTTE RPT
3	LANE MT					LANE MT RPT
4	CNYN MT					CANYON MT RPT
5	HCKLBRRY					HUCKLEBERRY RPT
6	SGNLTREE					SIGNAL TREE RPT
7	TILLER					TILLER RPT
8	BLU RDGE					CsBy Dir/Blue Ridge
9	RMNOSE					ROMAN NOSE RPT
10	EDSON					EDSON RPT
11	SGNLTRE					SIGNAL TREE RPT
12	BOSLEY					BOSLEY RPT
13	SOA 1/RD MAINT					SOA/Rsbg Rd maint
14	SOA 2					Sence Of Action (SOA)
15	SOA 3					SOA/CsBy Rd Maint
16	AIR GUARD					EMERGENCY USE

GROUP 30 - BLM MEDFORD						
CH	NAME	RX FREQ	TONE	TX FREQ	TONE	Geo Zone
1	BLM DIR					MED Direct
2	FLOUNCE					MED Flounce Rpt
3	BLM ONION					MED Onion Rpt
4	NINEMILE					MED Ninemile Rpt
5	TABLE					MED Table Mtn Rpt
6	TALLOWBX					MED Tallowbox Rpt
7	CEDAR SP					MED Cedar Spring Rpt
8	CREW1 ANLG					MED Crew 1 Analog
9	CREW2 ANLG					MED Crew 2 Analog
10	CREW3 ANLG					MED Crew 3 Analog
11	CREW1 DIG					MED Crew 1 Digital
12	CREW2 DIG					MED Crew 2 Digital
13	CREW3 DIG					MED Crew 3 Digital
14	RD MAINT ANLG					Road Maintance Analog
15	RD MAINT DIG					Road Maintance Digital
16	Air Guard					Air Guard

GROUP 31 - FIRE CLONE						
CH	NAME	RX FREQ	TONE	TX FREQ	TONE	Geo Zone
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						

GROUP 32 - FIRE CLONE						
CH	NAME	RX FREQ	TONE	TX FREQ	TONE	Geo Zone
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						

Groups 25 and 32 are FIRE CLONE Groups
Groups 26, 27 and 31 are BLANK



Citizen Band (CB) Channel List

Citizen Band or "CB" radio is a communication device most commonly used by long-haul truckers. Many "Mainline" logging roads and specific contractors throughout the NWOD District have dedicated CB channels. Below is the known and posted CB Channel list provided by Weyerhaeuser.

Cascades Field Office

Mainline Name:	Channel Number:
Barna	16
Berlin Roads	3
Crockett Lane	8
Fords Mill	3
Gilbert Tie	3
Hammond ML	2
High Camp ML	15
H-Line	2
H-530	2
H-800	8
Jack Creek	11
Keel Mountain	8
Larwood	16
Lulay	7
McCully Mountain	3
Middle Fork ML	13
Neal Creek	13
North Fork ML	10
Roaring River	20
Scott Creek	8
Snow Peak ML & Spurs	13
Thomas Creek	5
Trask	13
Williams Lake ML	1
Contractor Name:	**Channel Number:**
Crown B	40
G&H Logging	4
Miller Timber	20
Minahan	8
Olson Logging	7
Stone	10

Marys Peak/Tillamook Field Office

Mainline Name:	Channel Number:
Black Rock	10
Gopher Valley	17
Mill Creek	4
Peavine	10
Toll	12
Trask	13
Turner Creek	12
Valsetz	2
Vernonia	18
Contractor Name:	**Channel Number:**
C&C	5
Jackson	15
Laughlin	12
McClean	31
Petersen – 1	10
Petersen – 2	14
Rice	16
Weist – 6	1
Weist – 7	4

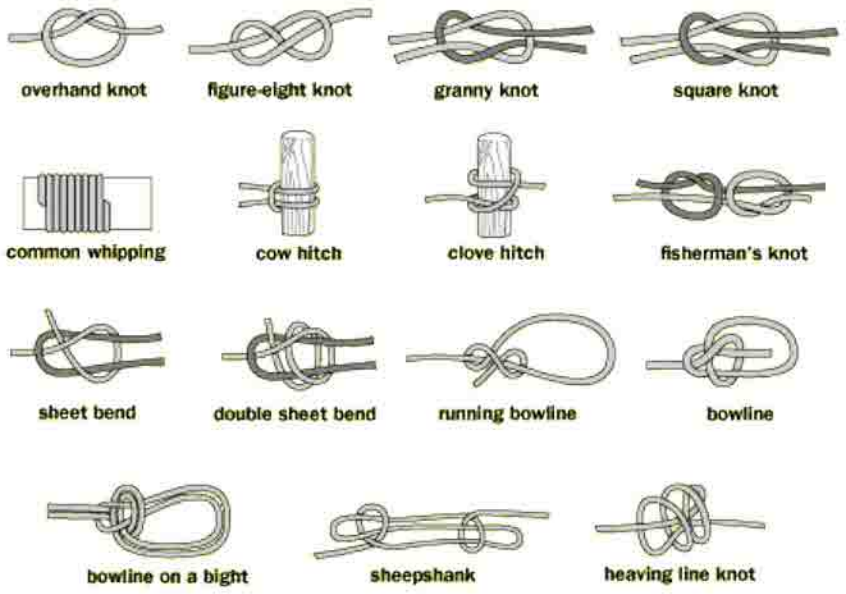
Upper Willamette/Siuslaw Field Office

Mainline Name:	Channel Number:
Australian Road	14
Big River	14
Cartwright Creek	14
Castle Rock	14
Little River	14
McGowan Creek	14
Mosby Creek	14
Shotgun Creek	14

Alsea Valley Mainlines always Channel 1 unless otherwise noted.

Other Useful Information

Conversion Table	
DBH	4.5 feet
1 meter	3.28 feet
1 chain	66 feet
1 mile	5,280 feet
1 square foot	144 square inches
1 acre	4,840 square yards
1 acre	43,560 square feet
1 acre	10 square chains
1 acre	0.405 hectares
1 acre	0.00405 square kilometers
1 acre	0.00156 square kilometers
1 hectare	2.471 acres
1 hectare	0.01 square kilometers
1 hectare	0.00386 square miles
1 square mile	640 acres
1 cord (4' x 4' x 8')	128 cubic feet



Notes:

This document was created as a safety reference tool for field going employees in their duty managing the lands of the NWO District Bureau of Land Management.

2020

Northwest Oregon BLM
Siuslaw National Forest
Willamette National Forest

Aviation Mishap Response Guide and Checklist

Do not waste time trying to figure out if an event is an accident, that's the job of the NTSB
(National Transportation Safety Board).
If you have an event with an aircraft that results in damage or injury no matter how slight.

REPORT IT—1-888-4MISHAP.

Quarterly Review

Signature	Date of Review
/s/ Justin Vernon NWOIFM UAO	06/22/2020

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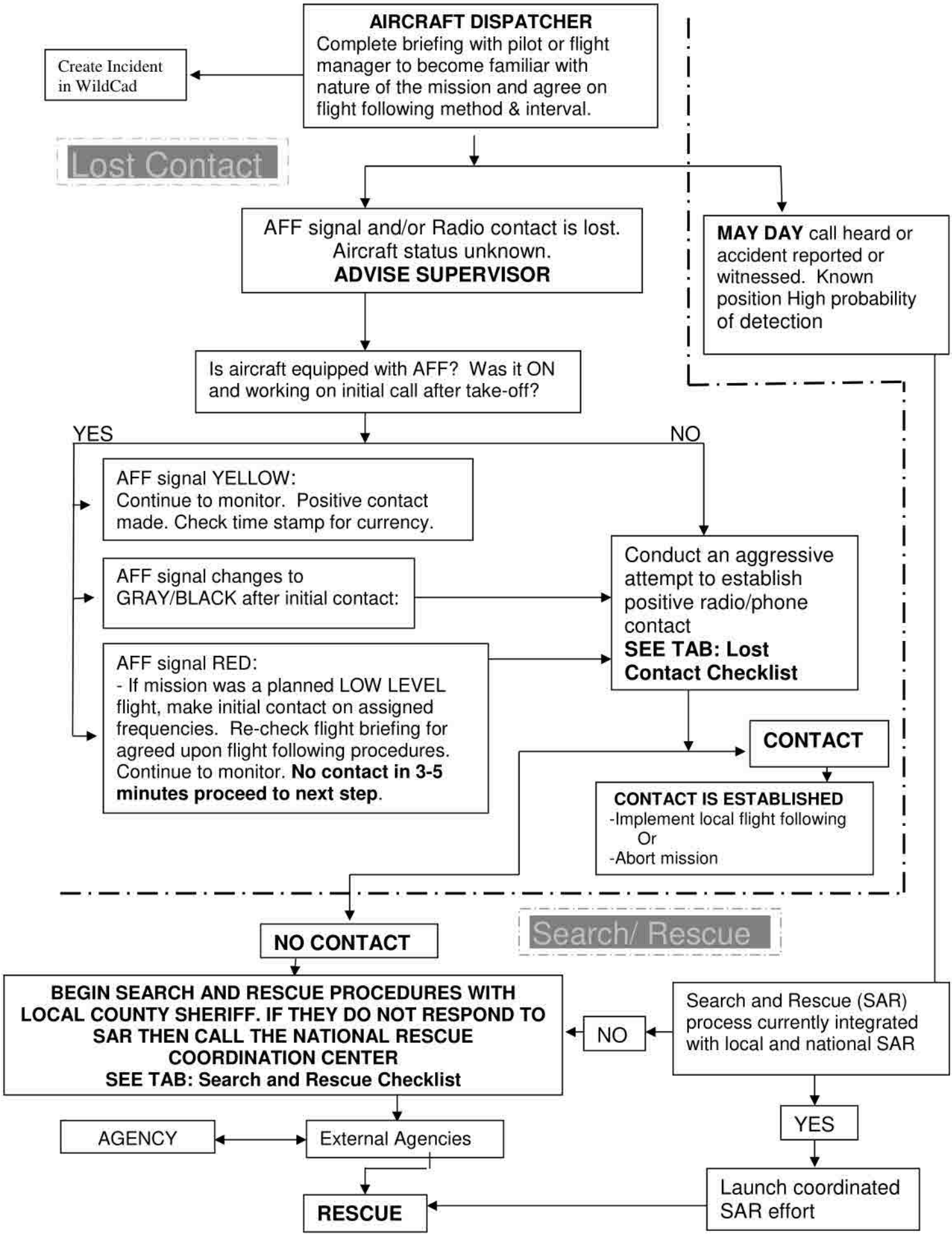
Administrative Review

All personnel involved in aviation operations should be familiar with this Aviation Mishap Response Guide and Checklist. This guide is to be reviewed and updated annually or when contact numbers or personnel changes occur.

This Guide is to be reviewed by all dispatch and aviation personnel on a bi-yearly basis.

Name	Date

Aircraft Lost Contact and Search and Rescue Flowchart



Lost Contact Checklist

Initial

_____ Attempt contact on all available frequencies

- ☐ **See Flight Request/PASP for frequencies**
  Air Guard: (b)(7)(F)
- ☐ National flight following: (b)(7)(F)
- ☐ Aircraft in area attempt to make verbal contact with aircraft.
  Aircraft in area check 121.50 for ELT signal- If YES Proceed to Search
- ☐ Ground units in area: Attempt to contact aircraft.

_____ Contact all available phone numbers

- ☐ Local Base managers: (SEAT, Helicopter, Tanker)
- ☐ Flight Manager: **See Flight Request/PASP**
- ☐ Air Route Traffic Control Center:
  - Seattle 1-253-351-3520
  - Salt Lake City 1-801-320-2560
- ☐ Contact Air Towers along flight route:
  - Eugene 541-607-4631
  - Salem 1-503-581-3571
  - Portland 1-503-493-7500
- ☐ Flight Service Station
  - US 1-928-778-0314
- ☐ Vendor: **See Flight Request/PASP**
- ☐ Originating Dispatch **See Flight Request/PASP**
- ☐ Pilot/PAX cell phone: **See Flight Request/PASP**

_____ Continue to monitor AFF

_____ Plot last known position of aircraft

_____ Print out AFF last known position if available

_____ Supervisor: Contact local Aviation Manager/ Fire Management Officer

_____ Fill out Aircraft Information Sheet

_____ **Document all contacts and actions in WILDCAD**

_____ Delegate duties as needed

If unsuccessful, continue to pursue Lost Contact checks and move to Search and Rescue

Instruct all to contact dispatch if they reach the A/C by radio/phone or acquire information on status of A/C

Aircraft Information Sheet

Fill out as much as possible and obtain the following information on the aircraft:
CAUTION: Do not announce over the radio the names of individuals involved in missing aircraft.
1. Name of pilot(s):
2. Name of passenger(s) and agency affiliation. How many?
3. Aircraft registration number ``N'' -
4. Type of aircraft -
5. Color of aircraft -
6. Type of mission -
7. Last known location: time, latitude x longitude, and altitude.
8. Point of takeoff and time.
9. Destination and ETA.
10. Was flight plan filed with FAA and/or Agency?
11. Fuel duration in hours and minutes as reported on initial contact?
12. Last reported course heading and speed.

Search and Rescue Checklist

Initial

_____ EVENT MAIN POINT OF CONTACT ESTABLISHED

_____ Continue with radio/phone search move forward with Search and Rescue

_____ Aircraft Information Sheet completed

_____ **SAR** section of the **AVIATION MISHAP RESPONSE COMMUNICATION TREE** is initiated

Primary calls to initiate SAR

LOCATION KNOWN: Local County Sheriff – If local County does not respond to SAR call National Rescue Coordination Center 1-800-851-3051/ 1-850-283-5955
Ensure the most accurate number of souls involved is relayed

LOCATION UNKNOWN: **Rescue Coordination Center**

- Event point of contact calls the RCC at Tyndall AFB, FL. 1-850-283-5955 / 800-851-3051
- The RCC will initiate the search with the FAA and appropriate agencies.
- Notify FAA Northwest Mountain Region 24 Hour Accident and Incident Response Center 1-425-227-1999 / 206-231-2393 - Renton, WA

If at sea: Coast Guard Rescue Coordination Center: 1-206-220-7001 – Seattle, WA

_____ Information for Rescue Coordination Center (RCC):

- Inform the RCC an aircraft has not checked in, location is unknown
- Give information from the Aircraft Information Sheet (or fax the sheet)
- Ensure a contact name and call back phone number is given to the RCC.

_____ Continue with SAR portion of the **AVIATION MISHAP RESPONSE COMMUNICATION TREE**

_____ Communication is maintained with Event Point of Contact.

_____ if applicable, ensure that the vendor is contacted

_____ **Document all contacts and actions in WILDCAD.**

_____ **Delegate tasks if needed**

Document all contacts

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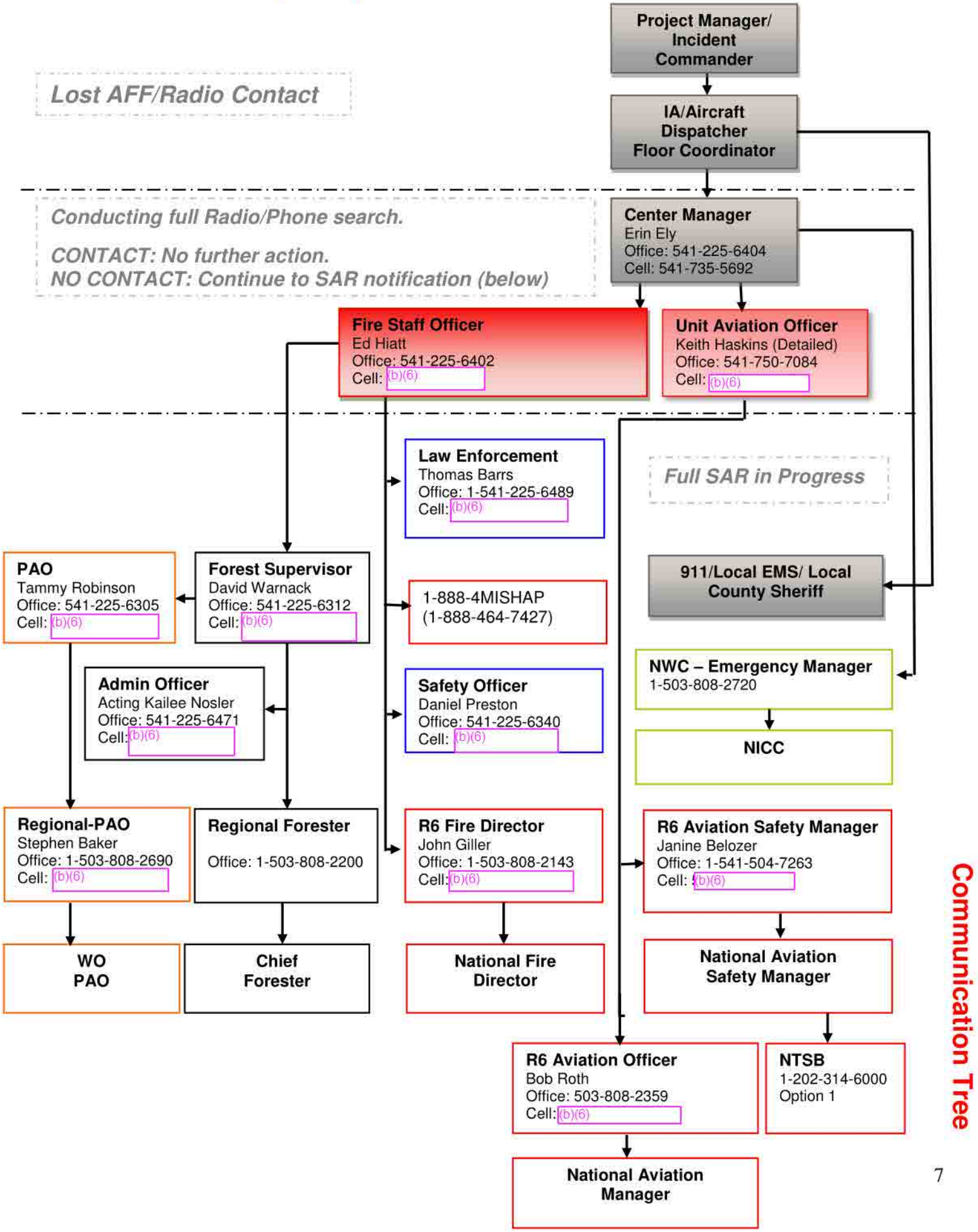
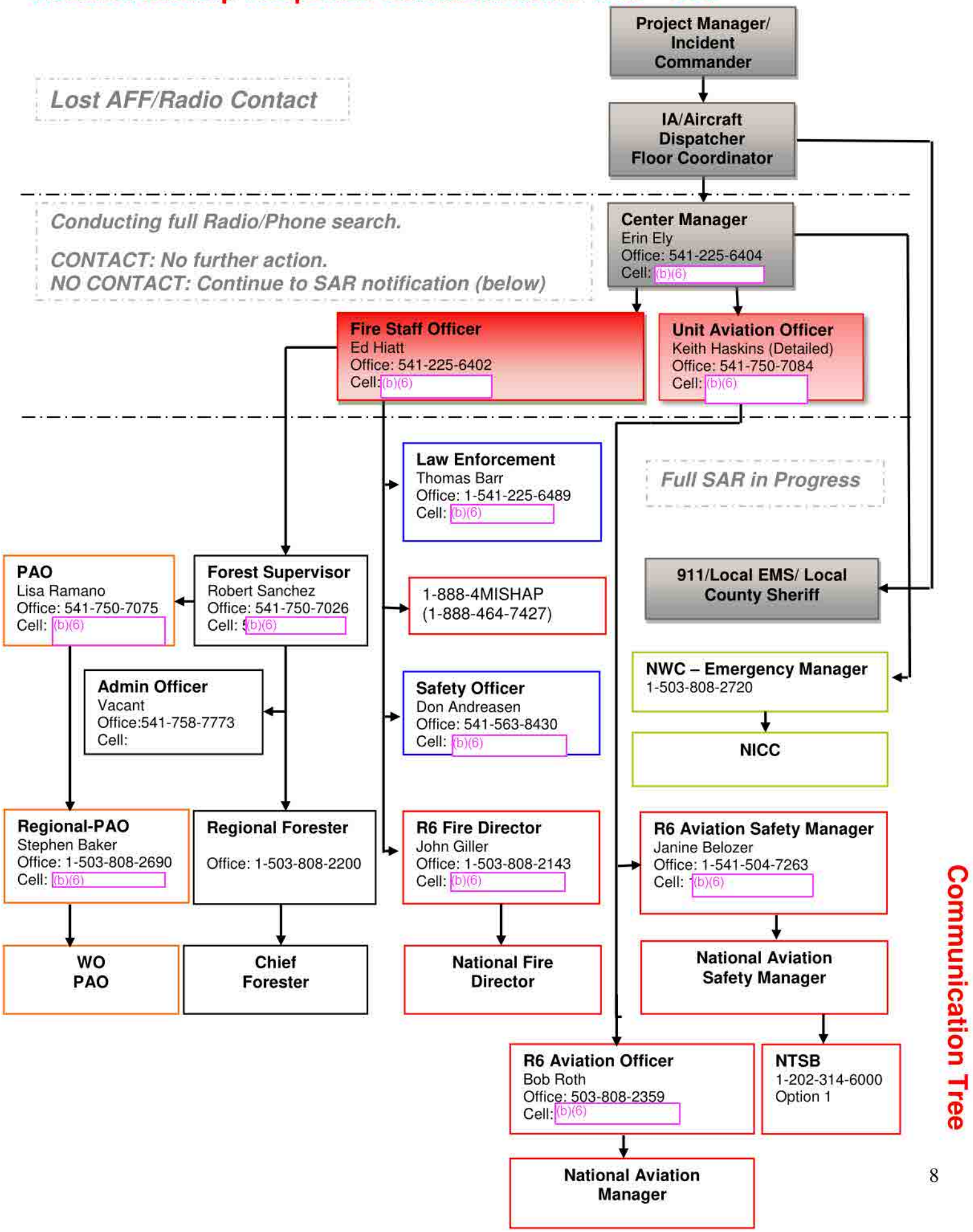
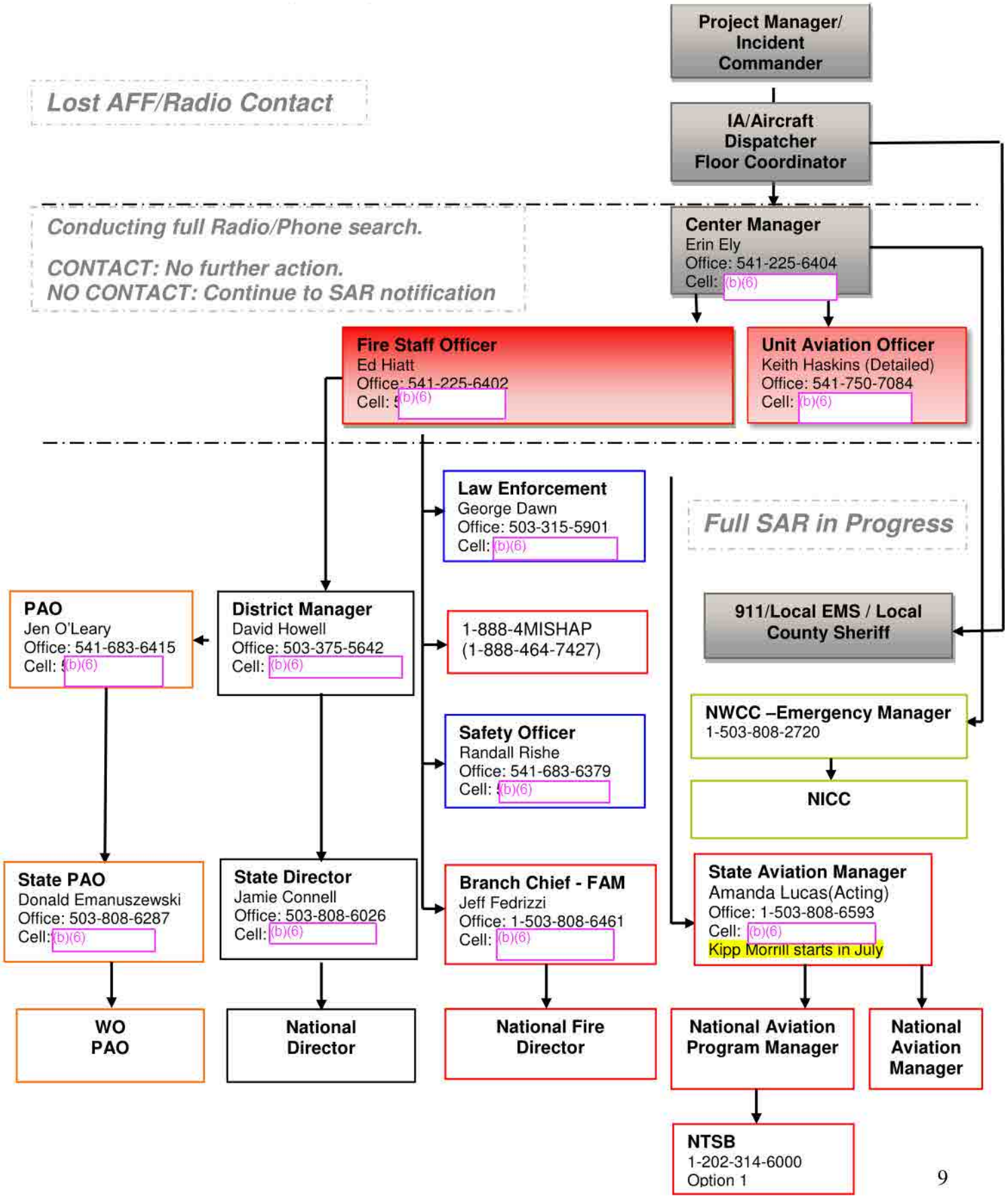
Aviation Mishap Response Communication Tree - WIF



Aviation Mishap Response Communication Tree - SUF



Aviation Mishap Response Communication Tree - NOD



Emergency Contacts – Primary Response

911 Centers / Local EMS

Center	Area	Office
Astoria 911	Clatsop County	503-352-4411
Bend Fire and Emergency 911	Bend Area	541-693-6911
Clackamas County Comm.	Clackamas County excluding Lake Oswego, West Linn & Milwaukie	503-655-8911
Columbia 911	Columbia County	503-397-1521
Coos Bay Police Department	Coos Bay	541-269-8911
Corvallis Regional Comm. Center	Benton County	541-766-6911
Deschutes County	Bend Area	541-693-7911
Douglas County 911	Roseburg Area	541-440-4471
Frontier Regional 911	Jefferson County	541-384-2080
Lake Oswego Comm.	Only Lake Oswego, West Linn & Milwaukie	503-635-0238
Central **Lane County** 911 **(FireCom)** Fire/EMS/Law Enforcement https://www.eugene-or.gov/579/Area-Served	Eugene/ Springfield Area All Lane County	24 hour # 541-344-2211 Fire Dispatch 541-687-5899 Call Takers 541-682-5345 Non-Emergency 541-682-5111 option 1
Eastern **Lane County** 911	Oakridge Area	541-683-6721
South **Lane County** 911	Cottage Grove Area	541-942-2464 / 24hr # 9145
Western **Lane County** 911	Florence Area	541-997-2623/ 24hr # 3515
Linn County 911	Sweet Home Area	541-928-6911
MetCom **WIF/ SUF LEO**	Hillsboro Area & Marion Co.	503-982-7219
Bureau of Emergency Comm.	Multnomah County	503-760-6911
Santiam 911	Stayton Area	Call MetCom
Tillamook County 911	Tillamook Area	503-815-1911
Washington Co. CC Agency	Beaverton Area	503-629-0111
Willamette Valley 911	Salem Area / Lincoln + Polk Co.	503-588-6123
Yamhill County 911	McMinnville Area	503-454-6500

Hospitals w/ Heliports

Area	Hospital	Phone	Lat/Long	Helipad location	FAA ID
Astoria	Columbia Memorial Hospital	1-503-325-4321	46 11.296 x 123 49.183	NW corner of parking lot	OG03
Tillamook	Tillamook Regional Medical Center Hospital	1-503-815-2260	45 27.438 x 123 51.300	NW corner of parking lot	6OR3
Lincoln City	Samaritan North Lincoln Hospital	1-541-994-3661	44 59.178 x 123 -59.643	East of hospital	OR93
Newport	Samaritan Pacific Communities Hospital	1-541-265-2244	44 37.710 x 124 03.628	SE of hospital parking lot	8OR9
Salem	Salem Health Hospital	1-503-561-5200	44 55.962 x 123 2.027	Roof of Building A	OG37
Stayton	Santiam Memorial Hospital	1-503-769-2175	44 48.348 x 122 47.065	Turf area NE corner of parking lot	5OR7
Lebanon	Samaritan Lebanon Community Hospital	1-541-258-2101	44 33.089 x 122 54.464	Parking lot – NW corner	8OR1
Corvallis	Good Samaritan Medical Center	1-541-768-5111	44 36.266 x 123 15.113	North-northeast side of hospital	OR55
Bend	St Charles Medical Center	541-382-4321	44 04.102 x 122 16.051	Adjacent to Emergency Entrance	54OR
Eugene	Sacred Heart Medical Center	541-686-7300	44 02.762 x 122 04.906	Roof top	OR69
Springfield	McKenzie Willamette Hospital	541-726-4400	44 03.218 x 123 0.216	North side of main roof	41OR
Springfield	Sacred Heart Hospital at River Bend	541-222-7300	44 04.876 x 123 01.592	Center of main roof	OG64
Coos Bay	Bay Area Hospital	541-269-8111	43 22.978 x -124 13.927	South-Southeast side of parking lot	OR49

Burn Center

Area	Hospital	Phone	Lat/Long	Helipad location
Portland	Emmanuel Hospital	1-503-413-2200	45 32.667 x 122 40.294	Northwest corner, ground level
Seattle	UOW Regional Burn Center Harborview	206-744-3074 206-744-2896	47 36.169 x 122 19.481	Southwest corner

*All hospitals on Frequency: 155.340

Air Ambulance

- Ordered through the 911 Center
  - Life Flight – Based in Cottage Grove 1-800-232-0911
  - Air Link – Based in Bend and Klamath Falls 1-800-621-5433

Extraction Helicopter

- Ordered through the 911 Center or Air Force Rescue Coordination Center: 1-850-283-5955/ 1-800-851-3051

Agency	Helicopter	Response
Oregon National Guard Salem, OR	Blackhawk Helicopter	Medical on board: Unknown Response Time: 2-3 Hours + Flight time to Accident site
U.S. Coast Guard North Bend	Dauphin	Medical on board: EMT Response Time: 30 Minutes+ Flight time to Accident site

Emergency Contacts - Secondary Response

Contact	Contact Person	Phone
Flight Following – FAA (24 hr) accident and incident response	N/A	1-425-227-1999
USFS/DOI –Accident Reporting Line	N/A	1-888-464-7427
Oregon Dept of Aviation	N/A	1-503-378-4880
State Emergency Operations Center	Oregon Emergency Management	1-503-378-6377 1-503-378-2911
Military Base Operations – Whidbey Island	Operations Duty Officer	1-360-257-2681
Federal Emergency Management Agency (FEMA)	Region 10 Office	1-425-487-4600
Photographer	Tammy Robinson Back up – Jen O'Leary	541-225-6305/ (b)(6) 541-683-6415/
HAZMAT Response Team	Fred Levitan	541-225-6366 1-707-382-1078
Coroner/Medical Examiner	Lane County	541-682-4261
	Linn County	1-541-704-1170
	Douglas County	1-541-957-7713
	Marion County	1-503-588-5530/5406
		Pager 1-503-315-1700
	Yamhill County	503-472-6161
	Tillamook County	503-842-3900
Explosive Ordnance Disposal	call closest city 911	See Primary Response list
Clergy	Determined by situation	
Engineer/Recovery Specialist WIF/SUF	Walt Hislop	1-541-750-5139 (Office) (b)(6)
Engineer/Recovery Specialist NOD		

Fire Management Officer/Unit Aviation Manager
Or Designated Main Point of Contact for Event

PROCEDURES CHECKLIST

LOST CONTACT: Aggressively trying to make contact

Initial

_____ Maintain contact with the Dispatch Center Manager
_____ Document all actions and conversations
_____ Obtain copy of Aircraft information sheet
_____ Maintain contact with dispatch supervisor or center manager

CONTACT MADE

_____ Document events and outcome
_____ If requested by dispatch, help determine if mission should continue or aborted

NO CONTACT

_____ Transition to Search and Rescue procedures

SEARCH AND RESCUE:

_____ Put the **Mishap Response Communications Tree** into action
_____ **LOCATION KNOWN:** Confirm that local 911/EMS has been contacted
_____ **LOCATION UNKNOWN**: Contact appropriate Rescue Coordination Center
_____ Ensure that OAS/USFS Mishap has been called **1-888-464-7427**
_____ Regional Aviation Safety Manager has been contacted
_____ Public affair Officer Notified
_____ Safety Manager Notified
_____ Forest Supervisor Notified

Local Unit Coordination in conjunction with the Rescue Coordination Center (RCC) Efforts

_____ Request an RCC assigned search number:_____
_____ Request an RCC search radio frequency:_____
_____ Request RCC approval to conduct a route search or a grid search with agency aircraft.
_____ If Agency Aircraft are not available request an aerial search by the responsible SAR agency.
_____ Continue coordination in-house and with other SAR agencies

Document all actions and conversations

Unit Radio Frequency – Emergency

GROUP 09 - EMERGENCY						
CH	NAME	RX FREQ	TONE	TX FREQ	TONE	Geo Zone
1	Weather	(b)(7)(F)				NOAA Weather
2	ODOT Oak					
3	ODOT Hoodo					Sant ODOT
4	ODOT Mck					M Brdge ODOT
5	FireEast					East Side Dispatch
6	East2					McK Command (Hagen2)
7	East3					Lookout Command(Lowell)
8	Lane4					BEAR Mtn Command
9	Lane Co Airops					State Fire NET (Lane10)
10	McK Net					Rural Tac
11	Sisters FD					Sisters/Camp Shermn RFD
12	Oak Tac					Oakridge Tactical
13	So Co					South Marion County
14	Lane Co RIT					Lane County RIT
15	S and R					State Wide SAR
16	AIR GUARD					Emergency USE ONLY

Unit Radio Frequency – Willamette National Forest

GROUP 1 - SANTIAM						
CH	NAME	RX FREQ	TONE	TX FREQ	TONE	Geo Zone
1	STONEY	(b)(7)(F)				Forest Repeater
2	HALLS					Forest Repeater
3	COFFIN					Forest Repeater
4	COUGAR					Forest Repeater
5	HUSS					Forest Repeater
6	SO CO					South Marion County
7	PROJ SRZ					Santiam River Proj
8	PROJ MCK					McKenzie River Proj
9	PROJ MDL					Middle Fork Proj
10	RED NET					ODF Tactical
11	WHT NET					ODF Air to Ground
12	BLUE NET					ODF Water Tactical
13	ODF ORANGE					ODF Orange net
14	A/G 09					Air to Ground 9 (SEC)
15	A/G 50					Air to Ground 50(PRI)
16	AIR GUARD					Emergency USE ONLY

GROUP 2 - McKENZIE						
CH	NAME	RX FREQ	TONE	TX FREQ	TONE	Geo Zone
1	BUCK	(b)(7)(F)				Forest Repeater
2	FRISSELL					Forest Repeater
3	INDIAN					Forest Repeater
4	DEF BACH					Deschutes Bachelor
5	DEF BB					Deschutes Black Butte
6	ELANE MN					ODF RPT - Mt Nebo
7	PROJ SRZ					Santiam River Proj
8	PROJ MCK					McKenzie River Proj
9	PROJ MDL					Middle Fork Proj
10	RED NET					ODF Tactical
11	WHT NET					ODF Air to Ground
12	BLUE NET					ODF Water Tactical
13	EAST 2					McKenzie area Fire
14	A/G 09					Air to Ground 9 (SEC)
15	A/G 50					Air to Ground 50(PRI)
16	AIR GUARD					Emergency USE ONLY

GROUP 3 - MIDDLE FORK						
CH	NAME	RX FREQ	TONE	TX FREQ	TONE	Geo Zone
1	FALL CREEK	(b)(7)(F)				Forest Repeater
2	HUCKLBRY					Forest Repeater
3	WOLF					Forest Repeater
4	WARNER					Forest Repeater
5	ELANE FV					ODF RPT - Fairview
6	ELANE MN					ODF RPT - Mt Nebo
7	PROJ SRZ					Santiam River Proj
8	PROJ MCK					McKenzie River Proj
9	PROJ MDL					Middle Fork Proj
10	RED NET					ODF Tactical
11	WHT NET					ODF Air to Ground
12	OAK TAC					OAKRIDGE TAC
13	LIFE FLT					LIFE FLIGHT
14	A/G 09					Air to Ground 9 (SEC)
15	A/G 50					Air to Ground 50(PRI)
16	AIR GUARD					Emergency USE ONLY

Unit Radio Frequency – Northwest Oregon BLM

GROUP 17 - NWO SALEM FIRE						
CH	NAME	RX FREQ	TONE	TX FREQ	TONE	Geo Zone
1	GOAT	(b)(7)(F)				BLM Goat Mtn Rpt
2	YELLOWSTONE					BLM Yellowstone Rpt
3	MARYS PEAK					BLM Marys Pk Rpt
4	LAUREL MTN					BLM Laurel Mtn Rpt
5	S SADDLE					BLM Saddle Mt Rpt
6	ODF S SADDLE					ODF Rpt - S Saddle
7	ODF BUXTON					ODF Rpt Buxton
8	ODF BALD MT					ODF Bald Mtn
9	WO MARYS					ODF Rpt - Marys Pk
10	WO PRAIRIE					ODF Rpt - Prairie Mtn
11	HIGH HV					ODF Rpt - High Heaven
12	ODF MT HOREB					ODF Rpt - Mt Horeb
13	SKAMAN					ODF Rpt - Skamania
14	ODF SCOTT					ODF Rpt - Scott Mtn
15	RED NET					ODF Tactical
16	WHITE NET					ODF Air to Ground

GROUP 18 - NWO SPFLD FIRE						
CH	NAME	RX FREQ	TONE	TX FREQ	TONE	Geo Zone
1	PRAIRIE	(b)(7)(F)				BLM Prairie Mtn Rpt
2	HORSE RK					BLM Horse Rock Rpt
3	ROMAN					BLM Roman Nose Rpt
4	HUCKLBRY					BLM Huckleberry Rpt
5	GENERL					BLM SOA
6	FIRE					BLM SOA
7	LANE 5					Coburg Lane County
8	ODF RED					ODF Tactical
9	EL FRAIRV					ODF Rpt - Fairview
10	EL NEBO					ODF Rpt - Mt Nebo
11	SC SCOTT					ODF Rpt - Scott Mtn
12	SCCOUGAR					ODF Rpt - Cougar Rock
13	WL PRAIR					ODF Rpt - Prairie Mtn
14	WL ROMAN					ODF Rpt - Roman Nose
15	WHITE					ODF Air to Ground
16	A/G 50PR					Air to Ground 50(PRI)

Unit Radio Frequency – Siuslaw National Forest

GROUP 4 - SIUSLAW NORTH						
CH	NAME	RX FREQ	TONE	TX FREQ	TONE	Geo Zone
1	HEBO	(b)(7)(F)				Forest Repeater
2	COUGAR					Forest Repeater
3	PROJECT3					SandLake
4	PROJECT4					TAC Channel
5	ODF HEBO					Philomath Repeater
6	BLM HEBO					BLM Repeater
7	SALEMDIR					
8	DISP C					Tillamook 911 Dispatch
9	DISP S					Nestucca Dispatch
10	TAC3					Nestucca TAC South
11	TAC3A					Nestucca 3A Repeater
12	TILL CTY SO					Tillamook (RX only)
13	LINC CTY SO					Lincoln (RX only)
14	NIFC T-2					Forest Service TAC
15	S AND R					
16	WXCMEAR					Cape Mears weather

GROUP 5 - SIUSLAW ADMIN						
CH	NAME	RX FREQ	TONE	TX FREQ	TONE	Geo Zone
1	HEBO	(b)(7)(F)				Mt. Hebo Repeater
2	COUGAR					Cougar Mtn. Repeater
3	MARYS					Mary's Peak Repeater
4	TABLE					Table Mtn. Repeater
5	CUMMINS					Cummins Repeater
6	HERMAN					Herman Peak Repeater
7	GDWIN MAP					Goodwin Repeater
8	CANNIBAL					Cannibal Mtn. Repeater
9	GDWIN NRA					Goodwin NRA Repeater
10	WINCHESTER					Winchester Repeater
11	PROJECT 3					Project 3 TAC Channel
12	PROJECT 4					Project 4 TAC Channel
13	TRAVEL					National Travel
14	WX SALEM					Salem Weather
15	A/G 50					Air to Ground 50(PRI)
16	AIR GUARD					A/G 50

GROUP 6 - SIUSLAW SOUTH						
CH	NAME	RX FREQ	TONE	TX FREQ	TONE	Geo Zone
1	TABLE	(b)(7)(F)				Forest Repeater
2	CUMMINS					Forest Repeater
3	GDWIN MAP					Admin
4	WINCHESTER					Forest Repeater
5	GDWIN NRA					Forest Repeater
6	PROKECT 3					Project 3 TAC Channel
7	PROJECT 4					Project 4 TAC Channel
8	NIFC T-2					NIFC TAC
9	USFS CALL					TAC
10	HERMAN					Forest Repeater
11	BAYCITYA					Ambulance
12	L UMP AM					Ambulance
13	W. LANE A					Ambulance
14	S AND R					
15	CG 21A					Coast Guard
16	AIR GUARD					Emergency USE ONLY

Helicopter Ambulance Request Information Sheet

A. Injury Information

1. Total personnel involved in mishap _____
2. Time of mishap _____
3. Type or extent of injuries (vitals, other medical personnel on scene)

_____

_____

_____

_____

B. Mishap Site Information

1. Unit/Agency _____
2. Contact telephone number _____
3. Radio frequency to contact unit/agency _____
4. Location of mishap _____

a Township _____ Range _____ Section _____ ¼ Sec. _____

b Latitude _____ Longitude _____

c VOR _____ NM _____ Degrees _____

d Prominent landmark _____ Distance _____

5. Site Contact _____

Radio frequency at mishap site PRI VHF-AM _____ VHF-FM _____

SEC VHF-AM _____ VHF-FM _____

6.Other known A/C in the area (call signs) _____

Air-to-Air Frequency PRI VHF-AM _____ VHF-FM _____

SEC VHF-AM _____ VHF-FM _____

7. Special information, flight hazards, MOAs, MTRs, etc.

_____

8. Landing site(s) and conditions (is it completed or when it will be completed)

_____

9. Proximity of landing site to mishap site _____
10. Nearest available AV Gas/Jet A fuel _____
11. Conditions at the mishap site Wind dir. _____ Wind sp. _____

Ceiling and visibility _____ Obstructions to vis. _____

Temperature (F or C) _____ Elevation _____

Sunrise _____ Sunset _____

Description of Terrain _____

Media Relations

- Many media outlets have radio scanners and may call at the first mention of an accident or incident. Also, in today's digital age and media environment, with people having access to cell phones, iPods, and other digital capabilities, virtually anyone can be an instant reporter. Staff at dispatch and coordination centers and home units must be prepared to respond immediately and before an NTSB investigation team is set up and prepared to respond.

- It's important to be responsive to the media, but it's critical that you do not release any detailed information, particularly in the early stages of an accident or incident.
  - You can acknowledge that you have an initial report, but explain there are no other details available.
  - It's especially important that you not release any information about names of individuals known or presumed to have been on board the aircraft.
  - Similarly, it's important to not release preliminary information about aircraft type, location, or specific mission, as many family members could be affected without confirmation.
  - Never say "no comment," in response to a question as that indicates you are hiding something or otherwise purposely keeping information from them. Instead, politely explain that you don't have the necessary information to respond further.

- Responding to media calls can be an unsettling experience for many, but realize that reporters are people too, and only doing their job, just as you are. Treat them with respect – remember, they can be a great ally or your worst enemy – and be polite and responsive but don't speculate or provide detailed information. Leave any responses beyond explaining that you don't have the necessary information to professional Information Officers.

- Every dispatch office or coordination center should maintain a current list of Public Affairs or Information Officers to contact in the event of an emergency. This contact should be made as early in the process as possible to relieve dispatch or coordination center personnel of dealing directly with media calls so they can focus on needs associated with the incident or accident.

- Once an Information or Public Affairs Officer has been notified, calls can simply be referred to him or her. This person also should be in contact with the NTSB investigator or the Information Officer and can handle media inquiries as requested by the investigation team.

- Once an NTSB investigation team is in place, and if the local Information Officer is not available, obtain the name and phone number of the lead investigator or the team's Incident Information Officer. Contact them and ask how they would like media calls to be directed.

- **Remember, the sooner a Public Information Officer or Public Affairs Officer is contacted, the sooner media calls can be diverted from the work of the dispatch or coordination center.**

Accident Site Preservation

Establish Inner and Outer Perimeter

- Protect property utilizing law enforcement agencies to guard site access.
- Prevent the disturbance of wreckage and debris except to preserve life, rescue the injured, and protect the wreckage from further damage
- Protect and preserve ground scars and marks made by the aircraft
- Admit Public Safety personnel access to the wreckage to the extent necessary to preserve life, and/or stabilize HAZMAT
- Maintain a record of personnel who enter the accident site

BIOHAZARD/HAZMAT

- Potentially dangerous materials that might be present may include but are not limited to: chemicals, explosives, biological-radioactive materials, fuel, pressure vessels, compressed-air, hydraulics, batteries, accumulators, igniters, oxygen systems, oxygen bottles, fire extinguishers, evacuation chutes, flares, composite materials, ballistic parachute systems, tires

Wreckage Documentation (if possible)

Use best judgment to obtain these goals

- Obtain aircraft registration number (N number)
- Obtain number of casualties
- Photograph or video the overall wreckage including cockpit starting at the initial point of impact if possible
- Photograph or video any ground scars or marks made by the aircraft

Injured/Fatalities

- Coordinate with the NTSB prior to the removal of fatalities. If unable, document that part of the scene to be disturbed, including switch/control positions, and instrument/gauge readings

Prior to Investigation Team Arrival on Scene, Restrict Access only to Authorized Personnel

- Land Management Agency personnel
- FAA
- Police/Fire/EMS
- Medical Examiner/Coroner

Witness Documentation

- Obtain name / address / phone numbers (home & work)
- Obtain their location relative to the accident site
- Obtain description of what they observed or heard
- Obtain name of person reporting accident (911 Tapes)

Accident Site Information Sheet

1. Unit/Agency		
2. Number of Souls Involved		
3. Radio Frequency to Contact unit/agency VHF–AM:_____ (Air to Air)	VHF-FM:_____ (Air to Ground)	
4. Location of Mishap		
Latitude	Longitude	
Township	Range	Section
VOR	Distance	Bearing
5. Site Contact		
6. Special information (flight hazards, other aircraft, etc.)		
7. Landing site(s) conditions		
8. Conditions at the mishap site: Wind Direction and Speed Ceiling and visibility Temperature Degrees (F or C) Sunrise/Sunset Elevation Description of terrain_____ _____		
Other significant information:		

Unmanned Aircraft Mishap Reporting

NTSB Definition

A UAS accident is defined by the NTSB as an occurrence associated with the operation of any public or civil UAS that takes place between the time that the system is activated with the purpose of flight and the time that the system is deactivated at the conclusion of its mission, in which **any person suffers death or serious injury**, or the UAS has a maximum gross takeoff weight of 300 pounds or greater and sustains substantial damage. In the case of a midair collision between a manned aircraft and a UAS that weighs less than 300 pounds in which no injuries were sustained, consideration should be given to the damage incurred to the manned aircraft to determine if the criteria for substantial damage to the manned aircraft has been met.

Accident Reporting to the FAA for sUAS

No later than **10** calendar days after an operation that meets the criteria of either paragraph (a) or (b) of this section, a remote pilot in command must report to the FAA, in a manner acceptable to the Administrator, any operation of the small unmanned aircraft involving at least:

a) Serious injury to any person or any loss of consciousness
b) Damage to any property, other than the small unmanned aircraft, unless one of the following conditions is satisfied:
    1. The cost of repair (including materials and labor) does not exceed $500; or
    2. The fair market value of the property does not exceed $500 in the event of total loss.

UAS Mishap Reporting-Agency

1. In the event of a fly-away, immediately notify aerial supervision, aircraft in area, and ground personnel where applicable. Note direction of flight, battery life, and assign VO to predict landing area.
2. Notify Flight Following contact: (Helibase, Dispatch, etc.)
3. Wait for battery exhaustion and recover UAS (only if environmental conditions allow). Record Lat/Long.
4. Notify the local Unit Aviation Officer and follow local protocols for further Regional notifications.
5. Ensure Regional UAS Coordinator and National UAS Program Manager for further direction prior to calling the Aircraft Accident Reporting Hotline.

Initial Notification: DOI's Office of Aviation Services (OAS) or the USDA - Forest Service (USFS) can be contacted by calling: 1-888-464-7427 (1-888-4MISHAP). When you call, provide the information from the Aircraft Accident Checklist, PASP or Interagency Aviation Mishap Response Guide and Checklist:

I. Any missing aircraft.
II. Injury to any person or any loss of consciousness.
III. Damage to any property other than the small unmanned aircraft.

6. Submit SAFECOM reports for any conditions, acts, observations, circumstances or maintenance problems that led to, or could have led to, an aircraft mishap

(https://www.safecom.gov). This includes any damage to an aircraft that renders it non-airworthy, even temporarily.

7. The same reporting requirements for manned aircraft apply to any incident involving a UAS that exceeds the small category. BLM reference 352 DM 3 for details.

Unmanned Aircraft Mishap Emergency Reporting

UAS Emergency Reporting

In the event of a serious accident that any person suffers death or serious injury from an UAS, initiate a call to the FAA associated geographic call center to report only if you cannot contact the Regional UAS Coordinator or National UAS Program Manager.
Bureau/Regional or OAS/USFS Aviation Safety Office FAA Flight Service Station 1-800-992-7433 (1 800 WX BRIEF)

For emergency or incident requiring immediate response, contact the appropriate 24-hr operation center:

Regional 24-Hour Operations Centers	
Areas of Responsibility	**Phone**
Alabama, Florida, Georgia, Kentucky, North Carolina, Mississippi, South Carolina, Tennessee, Puerto Rico, and U.S. Virgin Islands, Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont, Delaware, Maryland, New Jersey, New York, Pennsylvania, Virginia, West Virginia, and the District of Columbia	404-305-5180
Illinois, Indiana, Michigan, Minnesota, North Dakota, Ohio, South Dakota, Wisconsin, Arkansas, Iowa, Kansas, Louisiana, Missouri, New Mexico, Nebraska, Oklahoma, and Texas	817-222-5006
Alaska, Colorado, Idaho, Montana, Oregon, Utah, Washington, Wyoming, Arizona, California, Nevada, Hawaii, Guam, and American Samoa	206-231-2000

Headquarters 24-Hour Operations Center: **202-267-3333 (Washington, DC)** **Visit here for applicable FAA Webpage.**

For more guidance under the National Department of Transportation Order 8020.110 effective 05/10/2018

Tip for Dispatch: Preparing for an Agency Investigation Team

Please see agency handbooks for additional requirements.

- Statements from the witnesses and personnel remotely (distance) involved (i.e. dispatchers, communications unit trailer, ATGS, HLCO, other pilots, etc.). Their statements are very important too when it comes to what they heard or saw
- Weather at the time of accident, what was the weather at the time of the event? Temperature, wind direction, approximate visibility, sunny, cloudy, what was predicted?
- Forest/Unit designate a point of contact for the incoming team (usually a line officer)
- If involved on a fire incident, a point of contact from the IMT would be very helpful
- Radio/dispatch logs and tapes
- Secure the fuel truck that the aircraft was last fueled from (if from an Airport's FBO, inform the airport manager in case he needs to alert other aircraft/operators that had been fueled from the same fueling vehicle)
- Please have witnesses and personnel involved with the incident stay in the local area in case the NTSB needs to ask some additional information

Acronyms

A/C	Aircraft
AFB	Air Force Base
AFF	Automated Flight Following
A/G	Air to Ground
ATGS	Air Attack Group Supervisor
C	Celsius
DOI	Department of Interior
ELT	Emergency Locator Transmitter
ETA	Estimated Time of Arrival
EMS	Emergency Medical Service
EMT	Emergency Medical Technician
EUD	Eugene District BLM
F	Fahrenheit
FAA	Federal Aviation Administration
FBO	Fixed Base of Operations
HAZMAT	Hazardous Materials
HLCO	Helicopter Coordinator
ICT	Incident Command Team
IA	Initial Attack
IMT	Incident Management Team
MOA	Military Operating Area
MTR	Military Training Route
NICC	National Interagency Coordination Center
NM	Nautical miles
NTSB	National Transportation Safety Board
NWCC	Northwest Coordination Center
OAS	Office of Aviation Services (DOI)
ODF	Oregon Department of Forestry
PAX	Passengers
PAO	Public Affairs Officer
PASP	Project Aviation Safety Plan
PIO	Public Information Officer
POC	Point of Contact
PRI	Primary
RCC	Rescue Coordination Center
RPT	Repeater
RX	Receive
SAR	Search and Rescue
SEAT	Single Engine Airtanker
SEC	Secondary
SOA	Scene of Action
TX	Transmit
VHF-AM	Very High Frequency – Amplitude Modulation
VHF-FM	Very High Frequency – Frequency Modulation
VOR	Very High Frequency Omni-directional Radio Range
WIF	Willamette National Forest

United States
Environmental Protection
Agency

Office of Solid Waste
and
Emergency Response

EPA 550-B-15-001
March 2015
www.epa.gov/emergencies

LIST OF LISTS

Consolidated List of Chemicals Subject to the Emergency Planning and Community Right-To-Know Act (EPCRA), Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) and Section 112(r) of the Clean Air Act

- EPCRA Section 302 Extremely Hazardous Substances
- CERCLA Hazardous Substances
- EPCRA Section 313 Toxic Chemicals
- CAA 112(r) Regulated Chemicals for Accidental Release Prevention

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LIST OF LISTS

Consolidated List of Chemicals Subject to the Emergency Planning and Community Right-to-Know Act (EPCRA), Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) and Section 112(r) of the Clean Air Act

This consolidated chemical list includes chemicals subject to reporting requirements under the Emergency Planning and Community Right-to-Know Act (EPCRA), also known as Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA), the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) and section 112(r) of the Clean Air Act (CAA). This consolidated list does not include all hazardous chemicals subject to the reporting requirements in EPCRA sections 311 and 312, for which material safety data sheets (MSDS) must be developed under the Hazard Communication Standard (29 CFR1910.1200). These hazardous chemicals are identified by broad criteria, rather than by enumeration. There are over 500,000 products that satisfy the criteria. See 40 CFR Part 370 for more information. This consolidated list has been prepared to help firms handling chemicals determine whether they need to submit reports under sections 302 and 313 of EPCRA and determine if releases of chemicals are reportable under section 102 and 103 of CERCLA and section 304 of EPCRA. It will also help firms determine whether they will be subject to accident prevention regulations under CAA section 112(r). Separate lists are also provided of Resource Conservation and Recovery Act (RCRA) waste streams and unlisted hazardous wastes, of radionuclides reportable under CERCLA and of definitions or explanation of chemical categories listed under EPCRA section 313 and CERCLA. These lists should be used as a reference tool, not as a definitive source of compliance information. Compliance information for EPCRA is published in the Code of Federal Regulations (CFR), 40 CFR parts 355, 370, and 372. Compliance information for CERCLA is published in 40 CFR part 302 and for CAA section 112(r) is published in 40 CFR part 68.

The chemicals on the consolidated list are ordered both by the Chemical Abstracts Service (CAS) registry number and alphabetically. Categories of chemicals which generally do not have CAS registry numbers, but which are cited under CERCLA, have Not Applicable (N.A.) listed in place of the CAS number. If the category of chemical is an EPCRA section 313, then the section 313 category code is also included in the CAS number column.

The lists include chemicals referenced under five federal statutory provisions, discussed below. More than one chemical name may be listed for one CAS number because the same chemical may appear on different lists under different names. For example, for CAS number 8001-35-2, the names toxaphene (from the section 313 list), camphechlor (from the section 302 list), and camphene, octachloro-(from the CERCLA list) all appear on this consolidated list. The chemical names on the consolidated lists generally are those names used in the regulatory programs developed under EPCRA, CERCLA, and CAA section 112(r), but each chemical may have other synonyms that do not appear on these lists.

(1) **EPCRA Section 302 Extremely Hazardous Substances (EHSs)**

The presence of Extremely Hazardous Substances (EHSs) in quantities at or above the Threshold Planning Quantity (TPQ) requires certain emergency planning activities to be conducted. The EHSs and their TPQs are listed in 40 CFR part 355, Appendices A and B. For section 302 EHSs, Local Emergency Planning Committees (LEPCs) must develop emergency response plans and facility owner or operator must notify the State Emergency Response Commission (SERC) or Tribal Emergency Response Commission (TERC) and their LEPC if a chemical is present at the facility or above the EHS's TPQ. Additionally, if the TPQ is equaled or exceeded, facilities with a listed EHS are subject to the reporting requirements of EPCRA section 311 (provide material safety data sheet or a list of covered chemicals to the SERC or TERC, LEPC, and local fire department) and section 312 (submit inventory form -Tier I or Tier II). The minimum threshold for section 311-312 reporting for EHS substances is 500 pounds or the TPQ, whichever is less.

TPQ. The consolidated list presents the TPQ (in pounds) for section 302 chemicals in the column following the CAS number. For chemicals that are solids, there are two TPQs given (e.g., 500/10,000). In these cases, the lower quantity applies for solids in powder form with particle size less than 100 microns, or if the substance is in solution or in molten form. Otherwise, the 10,000 pound TPQ applies. If a solid EHS is in molten form, the facility must multiply the amount of EHS on-site by 0.3 before comparing to the lower listed TPQ. If a solid EHS is in solution form, the facility must multiply amount EHS on-site by 0.2 before comparing to the lower listed TPQ. The reducing factors of 0.3 for molten solids and 0.2 for solids in solution are not to be used for the 12 solid reactive chemicals are noted by footnote "a" in Appendix A and B in 40 CFR part 355. These twelve chemicals are not listed with two TPQs and higher threshold quantity of 10,000 pounds; they only have one TPQ.

EHS RQ. Releases of reportable quantities (RQ) of EHSs are subject to state and local reporting under section 304 of EPCRA. EPA has adjusted RQs for EHSs without CERCLA RQs to levels equal to their TPQs. The EHS RQ column lists these adjusted RQs for EHSs not listed under CERCLA and the CERCLA RQs for those EHSs that are CERCLA hazardous substances (see the next section for a discussion of CERCLA RQs).

Note that ammonium hydroxide is not covered under section 302; the EHS RQ is based on anhydrous ammonia. Ammonium hydroxide (which is also known as aqueous ammonia) is subject to CERCLA, with its own RQ.

(2) **CERCLA Hazardous Substances**

Releases of CERCLA hazardous substances, in quantities equal to or greater than their reportable quantity (RQ), are subject to reporting to the National Response Center under CERCLA. Notification requirements for these releases are found in 40 CFR 302. Such releases are also subject to state and local reporting under section 304 of EPCRA. CERCLA hazardous substances, and their reportable quantities, are listed in 40 CFR part 302, Table 302.4. Radionuclides listed under CERCLA are provided in a separate list in Appendix B of this document, with RQs in Curies. Chemical categories under CERCLA (including metal

compound categories), which have N.A. listed for the CAS Number in the consolidated table, are also listed in Appendix E of this document with further explanation of each chemical category, where information was available.

RQ. The CERCLA RQ column in the consolidated list shows the RQs (in pounds) for chemicals that are CERCLA hazardous substances.

Metals. For metals listed under CERCLA (antimony, arsenic, beryllium, cadmium, chromium, copper, lead, nickel, selenium, silver, thallium, and zinc), no reporting of releases of the solid form is required if the mean diameter of the pieces of the solid metal released is greater than 100 micrometers (0.004 inches) (Ref: Footnote after Table 302.4 in 40 CFR 302.4). The RQs shown on the consolidated list apply to smaller particles.

Note that the consolidated list does not include all CERCLA regulatory synonyms. See 40 CFR part 302, Table 302.4 for a complete list.

Sulfur monochloride. (formula S_2Cl_2) is listed with an incorrect CAS number of 12771-08-3, which is found on the CERCLA Hazardous Substances list. The correct CAS number should be 10025-67-9, however, the List of Lists will still include the CAS number of 12771-08-3 because it has not been changed on the CERCLA list. According to the Chemical Abstract Services which assigns CAS numbers, the correct CAS number for sulfur monochloride is 10025-67-9, which is now included on the List of Lists with an explanatory footnote.

CAS number 12771-08-3 is assigned to the substance sulfur chloride (formula SCl^-) which was listed as a synonym for sulfur monochloride when EPA finalized the Clean Water Act Designation of Hazardous Substances rule (43 FR 10474, March 13, 1978). The CAS number 10025-67-9 is used for sulfur monochloride on EPA's TSCA Inventory and EPA's Substance Registry Services lists.

(3) **<u>CAA Section 112(r) List of Substances for Accidental Release Prevention</u>**

Under the accident prevention provisions of section 112(r) of the CAA, EPA developed a list of 77 toxic substances and 63 flammable substances. Threshold quantities (TQs) were established for these substances. The list and TQs identify processes subject to accident prevention regulations. The list of substances and TQs and the requirements for risk management programs for accidental release prevention are found in 40 CFR part 68. This consolidated list includes both the common name for each listed chemical under section 112(r) and the chemical name, if different from the common name, as separate listings.

The CAA section 112(r) list includes several substances in solution that are covered only in concentrations above a specified level. These substances include ammonia (concentration 20% or greater) (CAS number 7664-41-7); hydrochloric acid (37% or greater) (7647-01-0); hydrogen fluoride/hydrofluoric acid (50% or greater) (7664-39-3); and nitric acid (80% or greater) (7697-37-2). Hydrogen chloride (anhydrous) and ammonia (anhydrous) are listed, in addition to the solutions of these substances, with different TQs. Only the anhydrous form of sulfur dioxide

(7446-09-5) is covered. These substances are presented on the consolidated list with the concentration limit or specified form (e.g., anhydrous), as they are listed under CAA section 112(r). Flammable fuels used as a fuel or held for sale as a fuel at a retail facility are not subject to the rule.

TQ. The CAA section 112(r) TQ column in the consolidated list shows the TQs (in pounds) for chemicals listed for accidental release prevention. The TQ applies to the quantity of substance in a process, not at the facility as a whole.

(4) **EPCRA Section 313 Toxic Chemicals (a.k.a Toxics Release Inventory (TRI) Chemicals)**

Emissions, transfers, and waste management data for chemicals listed under section 313 must be reported annually as part of the community right-to-know provisions of EPCRA (40 CFR part 372). These reports are also known as Toxics Release Inventory (TRI) reports.

Section 313. The notation "313" in the column for section 313 indicates that the chemical is subject to reporting under section 313 and section 6607 of the Pollution Prevention Act under the name listed. In cases where a chemical is listed under section 313 with a second name in parentheses or brackets, the second name is included on this consolidated list with an "X" in the section 313 column. An "X" in this column also may indicate that the same chemical with the same CAS number appears on another list with a different chemical name. The "X" listed with the chemical name "Ammonia (anhydrous)" and "Ammonia (concentration of 20% or greater)" does not mean that the section 313 reporting for these substances are limited to those forms, but it does include them.

Diisocyanates, Dioxins and Dioxin-like Compounds, and PACs. In the November 30, 1994, expansion of the section 313 list, 20 specific chemicals were added as members of the diisocyanate category, and 19 specific chemicals were added as members of the polycyclic aromatic compounds (PAC) category. The PAC category was expanded to 25 total chemicals by additions made in October 1999 and November 2010. In October 1999, EPA added a category of dioxin and dioxin-like compounds that includes 17 specific chemicals. These chemicals are included in the CAS order listing on this consolidated list, although chemicals belonging to these categories are reportable under section 313 by category, rather than by individual chemical name. The symbol "#" following the "313" notation in the section 313 column identifies diisocyanates, the symbol "!" identifies the dioxin and dioxin-like compounds, and the symbol "+" identifies PACs, as noted in the Summary of Codes.

Ammonium Salts. The EPCRA section 313 listing for ammonia includes the following qualifier "includes anhydrous ammonia and aqueous ammonia from water dissociable ammonium salts and other sources; 10 percent of total aqueous ammonia is reportable under this listing." The qualifier for ammonia means that anhydrous forms of ammonia are 100% reportable and aqueous forms are limited to 10% of total aqueous ammonia. Therefore, when determining threshold and releases and other waste management quantities all anhydrous ammonia is included but only 10% of total aqueous ammonia is included. Any evaporation of

ammonia from aqueous ammonia solutions is considered anhydrous ammonia and should be included in threshold determinations and release and other waste management calculations.

In this document ammonium salts are not specifically identified as being reportable EPCRA section 313 chemicals. However, water dissociable ammonia salts, such as ammonium chloride, are reportable if they are placed in water. When ammonium salts are placed in water, reportable aqueous ammonia is manufactured. As indicated in the ammonia qualifier, all aqueous ammonia solutions from water dissociable ammonium salts are covered by the ammonia listing. For example, ammonium chloride is a water-dissociable ammonium salt and reportable aqueous ammonia will be manufactured when it is placed in water.

Unlike other ammonium salts, ammonium hydroxide is specifically identified as being a reportable EPCRA section 313 chemical. This is because the chemical ammonium hydroxide (NH4OH) is a misnomer. It is a common name used to describe a solution of ammonia in water (i.e., aqueous ammonia), typically a concentrated solution of 28 to 30 percent ammonia. EPA has consistently responded to questions regarding the reportability of these purported ammonium hydroxide solutions under the EPCRA section 313 ammonia listing by stating that these are 28 to 30 percent solutions of ammonia in water and that the solutions are reportable under the EPCRA section 313 ammonia listing. For a more detailed discussion, see page 34175 of the Federal Register final rule of June 30, 1995 (60 FR 34172). (See also EPA's EPCRA section 313, *Guidance for Reporting Aqueous Ammonia*, EPA 745-R00-005, http://www2.epa.gov/toxics-release-inventory-tri-program/guidance-aqueous-ammonia

Stayed TRI Chemicals. There are two EPRCA section 313 chemicals that are listed in the CFR but for which the Agency has issued an administrative stay that excludes them from reporting until the stays are lifted. These chemicals, identified by "313s" in the Sec. 313 table column, are methyl mercaptan (CAS number 74-93-1), and 2, 2-dibromo-3nitrilopropionamide (CAS number 10222-01-2). Check the TRI website http://www2.epa.gov/toxics-release-inventory-tri-program/tri-listed-chemicals for updated regulatory information. On October 11, 2011, EPA reinstated the TRI reporting requirements for hydrogen sulfide (CAS number 7783-06-4). This action is effective for the 2012 TRI reporting year, with the first 2012 TRI reports due from facilities by July 1, 2013. For more information, see http://www2.epa.gov/toxics-release-inventory-tri-program/hydrogen-sulfide-lifting-administrative-stay

New TRI Chemical, o-Nitrotoluene. On November 7, 2013, the chemical o-nitrotoluene (CAS number 88-72-2) to the TRI list (78 FR 66848). The action is effective for the 2014 TRI reporting year with the first reports due from facilities by July 1, 2015. For more information, see http://www2.epa.gov/toxics-release-inventory-tri-program/addition-ortho-nitrotoluene-final-rule

New TRI Category, Nonylphenols. On September 20, 2014, the category of nonylphenol (Category code N530) was added to the TRI chemical list (79 FR 58686). The action is effective for the 2015 TRI reporting year with the first reports due from facilities by July 1, 2016. For more information, see http://www2.epa.gov/toxics-release-inventory-tri-program/addition-nonylphenol-category-final-rule. The nonylphenol category covers six specific chemicals identified by chemical name and CAS number. These chemicals are included in the CAS order listing on this consolidated list,

although chemicals belonging to these categories are reportable under section 313 by category, rather than by individual chemical name. The symbol "$" following the "313" notation in the section 313 column identifies nonylphenols, as noted in the Summary of Codes.

TRI Reporting Thresholds. Reporting under EPCRA section 313 is triggered by the quantity of a chemical that is manufactured, processed, or otherwise used during the calendar year. For most TRI chemicals, the thresholds are 25,000 pounds manufactured or processed or 10,000 pound otherwise used. Sixteen TRI chemicals and four TRI chemical categories that meet the criteria for persistence and bioaccumulation have lower thresholds, such as 10 or 100 pounds and 0.1 grams. These 20 chemical listings and their reporting thresholds can be found at http://www2.epa.gov/toxics-release-inventory-tri-program/persistent-bioaccumulative-toxic-pbt-chemicals-covered-tri

(5) **Chemical Categories**

The CERCLA and EPCRA section 313 lists include a number of chemical categories as well as specific chemicals. Categories appear on this consolidated list at the beginning of the CAS number order listing. The specific chemicals or substances that are included in the CERCLA category Radionuclides can be found in Appendix B. Appendix D contains explanations and definitions for the EPCRA section 313 (TRI) chemical categories. For the CERCLA listed categories reported with CAS number of N.A., Appendix E contains information available on the CERCLA chemical categories from their original statutory and regulatory sources.

Specific chemicals listed as members of the diisocyanates, dioxin and dioxin-like compounds, nonylphenol, and PAC categories under EPCRA section 313 are included in the list of specific chemicals by CAS number, not in the category listing.

EPA has attempted to identify those chemicals on the consolidated list that are clearly reportable under one or more of the EPCRA section 313 (TRI) chemical categories. For example, mercuric acetate (CAS number 1600-27-7), listed under section 302, is not specifically listed under section 313, but is reportable under the section 313 "Mercury Compounds" category (no CAS number). Listed chemicals that have been identified as being reportable under one or more EPCRA section 313 categories are identified by "313c" in the Sec. 313 table column.

The chemicals on the consolidated list have not been systematically evaluated to determine whether they fall into any of the CERCLA listed categories. Some chemicals not specifically listed under CERCLA may be subject to CERCLA reporting as part of a category. For example, strychnine sulfate (CAS number 60-41-3), listed under EPCRA section 302, is not individually listed on the CERCLA list, but is subject to CERCLA reporting under the listing for strychnine and salts (CAS number 57-24-9), with an RQ of 10 pounds. Similarly, nicotine sulfate (CAS number 65-30-5) is subject to CERCLA reporting under the listing for nicotine and salts (CAS number 54-11-5, RQ 100 pounds), and warfarin sodium (CAS number 129-06-6) is subject to CERCLA reporting under the listing for warfarin and salts, concentration >0.3% (CAS number 81-81-2, RQ 100 pounds).

Note that some CERCLA listings, although they include CAS numbers, are for general categories and are not restricted to the specific CAS number (e.g., warfarin and salts). The CERCLA list also includes a number of generic categories that have not been assigned RQs; chemicals falling into these categories are considered CERCLA hazardous substances, but they are not required to be reported under CERCLA unless otherwise listed under CERCLA with an RQ.

(6) **RCRA Hazardous Wastes**

The consolidated list includes specific chemicals from the RCRA P and U lists only (40 CFR 261.33). This listing is provided as an indicator that companies may already have data on a specific chemical that may be useful for EPCRA reporting. It is not intended to be a comprehensive list of RCRA P and U chemicals. RCRA hazardous wastes consisting of waste streams on the F and K lists, and wastes exhibiting the characteristics of ignitability, corrosivity, reactivity, and toxicity, are provided in Appendix C in this document. This list also includes K181 hazardous waste with a statutory one-pound RQ (indicated by an asterisk "*" following the RQ. The descriptions of the F and K waste streams have been abbreviated; see 40 CFR part 302, Table 302.4, or 40 CFR part 261 for complete descriptions.

RCRA Code. The letter-and-digit code in the RCRA Code column is the chemical's RCRA hazardous waste code.

Summary of Codes

Codes in Section 313 column

+	Member of EPCRA Section 313 PAC category.
#	Member of EPCRA Section 313 diisocyanate category.
c	Although not listed by name and CAS number, this chemical is reportable under one or more of the EPCRA section 313 chemical categories.
s	Indicates that this chemical is currently under an administrative stay of the EPCRA section 313 reporting requirements, therefore, no Toxics Release Inventory reports are required until the stay is removed.
!	Member of the EPCRA section 313 dioxin and dioxin-like compounds category.
X	Indicates that this is a second name for an EPCRA section 313 chemical already included on this consolidated list. May also indicate that the same chemical with the same CAS number appears on another list with a different chemical name.
$	Member of the EPCRA section 313 nonylphenol category.

Codes in CERCLA RQ column

*	The Agency may adjust the statutory RQ for this RCRA hazardous substance (K181 waste) in a future rulemaking; until then the statutory one-pound RQ applies.
PMN	This EHS chemical was identified from a Premanufacture Review Notice (PMN) submitted to EPA. The submitter has claimed certain information on the submission to be confidential, including specific chemical identity.
&	Indicates that no RQ is assigned to this generic or broad class, although the class is a CERCLA hazardous substance. See 50 Federal Register 13456 (April 4, 1985).
@	Releases in amounts less than 1,000 pounds per 24 hours of nitrogen oxide or nitrogen dioxide to the air that are the result of combustion and combustion related activities are exempt from the notification requirements of EPCRA section 304 and CERCLA.

LIST OF LISTS

CONSOLIDATED LIST OF CHEMICALS (BY CAS NUMBER) SUBJECT TO EPCRA, CERCLA AND CAA SECTION 112(r)

NAME	CAS/313 Category Codes	Section 302 (EHS) TPQ	Section 304 EHS RQ	CERCLA RQ	Section 313	RCRA CODE	CAA 112(r) TQ
Chlordane (Technical Mixture and Metabolites)	N.A.			&			
Chlorinated Benzenes	N.A.			&			
Chlorinated Ethanes	N.A.			&			
Chlorinated Naphthalene	N.A.			&			
Chloroalkyl Ethers	N.A.			&			
Coke Oven Emissions	N.A.			1			
Creosote	N.A.			1		U051	
Cyanides (soluble salts and complexes), not otherwise specified	N.A.			10	313c	P030	
DDT and Metabolites	N.A.			&			
Dichlorobenzidine	N.A.			&			
Diphenylhydrazine	N.A.			&			
Endosulfan and Metabolites	N.A.			&			
Endrin and Metabolites	N.A.			&			
Fine mineral fibers	N.A.			&			
Haloethers	N.A.			&			
Halomethanes	N.A.			&			
Heptachlor and Metabolites	N.A.			&			
Nitrophenols	N.A.			&			
Nitrosamines	N.A.			&			
Phthalate Esters	N.A.			&			
Polycyclic organic matter	N.A.			&			
Polynuclear Aromatic Hydrocarbons	N.A.			&			
Antimony Compounds	N010			&	313		
Arsenic Compounds	N020			&	313		
Barium Compounds	N040				313		
Beryllium Compounds	N050			&	313		
Cadmium Compounds	N078			&	313		
Chlorinated Phenols	N084			&	313		
Chlorophenols	N084			&	313		
Chromium Compounds	N090			&	313		
Cobalt Compounds	N096			&	313		
Copper Compounds	N100			&	313		
Cyanide Compounds	N106			&	313		
Diisocyanates (includes only 20 chemicals)	N120				313		
Dioxin and dioxin-like compounds (includes only 17 chemicals)	N150				313		
Ethylenebisdithiocarbamic acid, salts and esters	N171				313		
Glycol Ethers	N230			&	313		
Lead Compounds	N420			&	313		
Manganese Compounds	N450			&	313		

NAME	CAS/313 Category Codes	Section 302 (EHS) TPQ	Section 304 EHS RQ	CERCLA RQ	Section 313	RCRA CODE	CAA 112(r) TQ
Mercury Compounds	N458			&	313		
Nickel Compounds	N495			&	313		
Nicotine and salts	N503				313		
Nitrate compounds (water dissociable)	N511				313		
Nonylphenol (includes only 6 chemicals)	N530				313		
Polybrominated Biphenyls (PBBs)	N575				313		
Polychlorinated alkanes (C10 to C13)	N583				313		
Polycyclic aromatic compounds (includes only 23 chemicals)	N590				313		
Selenium Compounds	N725			&	313		
Silver Compounds	N740			&	313		
Strychnine and salts	N746				313		
Thallium Compounds	N760			&	313		
Vanadium Compounds	N770				313		
Warfarin and salts	N874				313		
Zinc Compounds	N982			&	313		
Organorhodium Complex (PMN-82-147)	0	10/10,000	10	PMN			
Formaldehyde	50-00-0	500	100	100	313	U122	15,000
Formaldehyde (solution)	50-00-0	500	100	100	X	U122	15,000
Mitomycin C	50-07-7	500/10,000	10	10		U010	
Ergocalciferol	50-14-6	1,000/10,000	1,000				
Cyclophosphamide	50-18-0			10		U058	
DDT	50-29-3			1		U061	
Benzo[a]pyrene	50-32-8			1	313+	U022	
Reserpine	50-55-5			5,000		U200	
Piperonyl butoxide	51-03-6				313		
Fluorouracil	51-21-8	500/10,000	500		313		
5-Fluorouracil	51-21-8	500/10,000	500		X		
2,4-Dinitrophenol	51-28-5			10	313	P048	
Epinephrine	51-43-4			1,000		P042	
2-Chloro-N-(2-chloroethyl)-N-methylethanamine	51-75-2	10	10		X		
Mechlorethamine	51-75-2	10	10		X		
Nitrogen mustard	51-75-2	10	10		313		
Carbamic acid, ethyl ester	51-79-6			100	X	U238	
Ethyl carbamate	51-79-6			100	X	U238	
Urethane	51-79-6			100	313	U238	
Carbachol chloride	51-83-2	500/10,000	500				
Phosphonic acid, (2,2,2-trichloro-1-hydroxyethyl)-,dimethyl ester	52-68-6			100	X		
Trichlorfon	52-68-6			100	313		
Famphur	52-85-7			1,000	313	P097	
Dibenz[a,h]anthracene	53-70-3			1	313+	U063	
2-Acetylaminofluorene	53-96-3			1	313	U005	
Nicotine	54-11-5	100	100	100	313c	P075	
Nicotine and salts	54-11-5			100	313c	P075	
Pyridine, 3-(1-methyl-2-pyrrolidinyl)-	54-11-5	100	100	100		P075	

NAME	CAS/313 Category Codes	Section 302 (EHS) TPQ	Section 304 EHS RQ	CERCLA RQ	Section 313	RCRA CODE	CAA 112(r) TQ
,(S)-							
Aminopterin	54-62-6	500/10,000	500				
N-Nitrosodiethylamine	55-18-5			1	313	U174	
Benzamide	55-21-0				313		
O,O-Dimethyl O-(3-methyl-4-(methylthio) phenyl) ester, phosphorothioic acid	55-38-9				X		
Fenthion	55-38-9				313		
Nitroglycerin	55-63-0			10	313	P081	
Diisopropylfluorophosphate	55-91-4	100	100	100		P043	
Isofluorphate	55-91-4	100	100	100		P043	
Methylthiouracil	56-04-2			10		U164	
Carbon tetrachloride	56-23-5			10	313	U211	
Cantharidin	56-25-7	100/10,000	100				
Bis(tributyltin) oxide	56-35-9				313		
Parathion	56-38-2	100	10	10	313	P089	
Phosphorothioic acid, O,O-diethyl-O-(4-nitrophenyl) ester	56-38-2	100	10	10	X	P089	
3-Methylcholanthrene	56-49-5			10	313+	U157	
Diethylstilbestrol	56-53-1			1		U089	
Benz[a]anthracene	56-55-3			10	313+	U018	
Coumaphos	56-72-4	100/10,000	10	10			
1,1-Dimethyl hydrazine	57-14-7	1,000	10	10	313	U098	15,000
Dimethylhydrazine	57-14-7	1,000	10	10	X	U098	15,000
Hydrazine, 1,1-dimethyl-	57-14-7	1,000	10	10	X	U098	15,000
Strychnine	57-24-9	100/10,000	10	10	313c	P108	
Strychnine, and salts	57-24-9			10	313c	P108	
Pentobarbital sodium	57-33-0				313		
Phenytoin	57-41-0				313		
Physostigmine	57-47-6	100/10,000	100	100		P204	
beta-Propiolactone	57-57-8	500	10	10	313		
Physostigmine, salicylate (1:1)	57-64-7	100/10,000	100	100		P188	
Chlordane	57-74-9	1,000	1	1	313	U036	
4,7-Methanoindan, 1,2,3,4,5,6,7,8,8-octachloro-2,3,3a,4,7,7a-hexahydro-	57-74-9	1,000	1	1	X	U036	
7,12-Dimethylbenz[a]anthracene	57-97-6			1	313+	U094	
Phenoxarsine, 10,10'-oxydi-	58-36-6	500/10,000	500				
Cyclohexane, 1,2,3,4,5,6-hexachloro-,(1.alpha.,2.alpha.,3.beta.,4.alpha.,5.alpha.,6.beta.)-	58-89-9	1,000/10,000	1	1	X	U129	
Hexachlorocyclohexane (gamma isomer)	58-89-9	1,000/10,000	1	1	X	U129	
Lindane	58-89-9	1,000/10,000	1	1	313	U129	
2,3,4,6-Tetrachlorophenol	58-90-2			10	313c		
p-Chloro-m-cresol	59-50-7			5,000		U039	
Phenylhydrazine hydrochloride	59-88-1	1,000/10,000	1,000				
N-Nitrosomorpholine	59-89-2			1	313		
Ethylenediamine-tetraacetic acid (EDTA)	60-00-4			5,000			

NAME	CAS/313 Category Codes	Section 302 (EHS) TPQ	Section 304 EHS RQ	CERCLA RQ	Section 313	RCRA CODE	CAA 112(r) TQ
4-Aminoazobenzene	60-09-3				313		
4-Dimethylaminoazobenzene	60-11-7			10	313	U093	
Dimethylaminoazobenzene	60-11-7			10	X	U093	
Ethane, 1,1'-oxybis-	60-29-7			100		U117	10,000
Ethyl ether	60-29-7			100		U117	10,000
Hydrazine, methyl-	60-34-4	500	10	10	X	P068	15,000
Methyl hydrazine	60-34-4	500	10	10	313	P068	15,000
Acetamide	60-35-5			100	313		
Strychnine, sulfate	60-41-3	100/10,000	10	10	313c		
Dimethoate	60-51-5	500/10,000	10	10	313	P044	
Dieldrin	60-57-1			1		P037	
Amitrole	61-82-5			10	313	U011	
Phenylmercuric acetate	62-38-4	500/10,000	100	100	313c	P092	
Phenylmercury acetate	62-38-4	500/10,000	100	100	313c	P092	
Phenacetin	62-44-2			100		U187	
Ethyl methanesulfonate	62-50-0			1		U119	
Aniline	62-53-3	1,000	5,000	5,000	313	U012	
Thioacetamide	62-55-5			10	313	U218	
Thiourea	62-56-6			10	313	U219	
Dichlorvos	62-73-7	1,000	10	10	313		
Phosphoric acid, 2-dichloroethenyl dimethyl ester	62-73-7	1,000	10	10	X		
Fluoroacetic acid, sodium salt	62-74-8	10/10,000	10	10	X	P058	
Sodium fluoroacetate	62-74-8	10/10,000	10	10	313	P058	
Methanamine, N-methyl-N-nitroso-	62-75-9	1,000	10	10	X	P082	
N-Nitrosodimethylamine	62-75-9	1,000	10	10	313	P082	
Nitrosodimethylamine	62-75-9	1,000	10	10	X	P082	
Carbaryl	63-25-2			100	313	U279	
1-Naphthalenol, methylcarbamate	63-25-2			100	X	U279	
Phenol, 3-(1-methylethyl)-, methylcarbamate	64-00-6	500/10,000	10	10		P202	
Formic acid	64-18-6			5,000	313	U123	
Acetic acid	64-19-7			5,000			
Diethyl sulfate	64-67-5			10	313		
Tetracycline hydrochloride	64-75-5				313		
Colchicine	64-86-8	10/10,000	10				
Nicotine sulfate	65-30-5	100/10,000	100	100	313c		
Benzoic acid	65-85-0			5,000			
Uracil mustard	66-75-1			10		U237	
Cycloheximide	66-81-9	100/10,000	100				
Methanol	67-56-1			5,000	313	U154	
Isopropyl alcohol (mfg-strong acid process)	67-63-0				313		
Acetone	67-64-1			5,000		U002	
Chloroform	67-66-3	10,000	10	10	313	U044	20,000
Methane, trichloro-	67-66-3	10,000	10	10	X	U044	20,000
Hexachloroethane	67-72-1			100	313	U131	
Dimethylformamide	68-12-2			100	X		
N,N-Dimethylformamide	68-12-2			100	313		

NAME	CAS/313 Category Codes	Section 302 (EHS) TPQ	Section 304 EHS RQ	CERCLA RQ	Section 313	RCRA CODE	CAA 112(r) TQ
2,5-Cyclohexadiene-1,4-dione, 2,3,5-tris(1-aziridinyl)-	68-76-8				X		
Triaziquone	68-76-8				313		
Guanidine, N-methyl-N'-nitro-N-nitroso-	70-25-7			10		U163	
Hexachlorophene	70-30-4			100	313	U132	
Propiophenone, 4'-amino	70-69-9	100/10,000	100				
n-Butyl alcohol	71-36-3			5,000	313	U031	
Benzene	71-43-2			10	313	U019	
Methyl chloroform	71-55-6			1,000	X	U226	
1,1,1-Trichloroethane	71-55-6			1,000	313	U226	
Digitoxin	71-63-6	100/10,000	100				
Endrin	72-20-8	500/10,000	1	1		P051	
Benzene, 1,1'-(2,2,2-trichloroethylidene)bis [4-methoxy-	72-43-5			1	X	U247	
Methoxychlor	72-43-5			1	313	U247	
DDD	72-54-8			1		U060	
DDE	72-55-9			1			
Trypan blue	72-57-1			10	313	U236	
Methane	74-82-8						10,000
Bromomethane	74-83-9	1,000	1,000	1,000	313	U029	
Methyl bromide	74-83-9	1,000	1,000	1,000	X	U029	
Ethane	74-84-0						10,000
Ethene	74-85-1				X		10,000
Ethylene	74-85-1				313		10,000
Acetylene	74-86-2						10,000
Ethyne	74-86-2						10,000
Chloromethane	74-87-3			100	313	U045	10,000
Methane, chloro-	74-87-3			100	X	U045	10,000
Methyl chloride	74-87-3			100	X	U045	10,000
Methyl iodide	74-88-4			100	313	U138	
Methanamine	74-89-5			100			10,000
Monomethylamine	74-89-5			100			10,000
Hydrocyanic acid	74-90-8	100	10	10	X	P063	2,500
Hydrogen cyanide	74-90-8	100	10	10	313	P063	2,500
Methanethiol	74-93-1	500	100	100	X	U153	10,000
Methyl mercaptan	74-93-1	500	100	100	313s	U153	10,000
Thiomethanol	74-93-1	500	100	100	X	U153	10,000
Methylene bromide	74-95-3			1,000	313	U068	
Propane	74-98-6						10,000
1-Propyne	74-99-7						10,000
Propyne	74-99-7						10,000
Chloroethane	75-00-3			100	313		10,000
Ethane, chloro-	75-00-3			100	X		10,000
Ethyl chloride	75-00-3			100	X		10,000
Ethene, chloro-	75-01-4			1	X	U043	10,000
Vinyl chloride	75-01-4			1	313	U043	10,000
Ethene, fluoro-	75-02-5						10,000
Vinyl fluoride	75-02-5				313		10,000

NAME	CAS/313 Category Codes	Section 302 (EHS) TPQ	Section 304 EHS RQ	CERCLA RQ	Section 313	RCRA CODE	CAA 112(r) TQ
Ethanamine	75-04-7			100			10,000
Monoethylamine	75-04-7			100			10,000
Acetonitrile	75-05-8			5,000	313	U003	
Acetaldehyde	75-07-0			1,000	313	U001	10,000
Ethanethiol	75-08-1						10,000
Ethyl mercaptan	75-08-1						10,000
Dichloromethane	75-09-2			1,000	313	U080	
Methylene chloride	75-09-2			1,000	X	U080	
Carbon disulfide	75-15-0	10,000	100	100	313	P022	20,000
Cyclopropane	75-19-4						10,000
Calcium carbide	75-20-7			10			
Ethylene oxide	75-21-8	1,000	10	10	313	U115	10,000
Oxirane	75-21-8	1,000	10	10	X	U115	10,000
Bromoform	75-25-2			100	313	U225	
Tribromomethane	75-25-2			100	X	U225	
Dichlorobromomethane	75-27-4			5,000	313		
Isobutane	75-28-5						10,000
Propane, 2-methyl	75-28-5						10,000
Isopropyl chloride	75-29-6						10,000
Propane, 2-chloro-	75-29-6						10,000
Isopropylamine	75-31-0						10,000
2-Propanamine	75-31-0						10,000
1,1-Dichloroethane	75-34-3			1,000	X	U076	
Ethylidene Dichloride	75-34-3			1,000	313	U076	
1,1-Dichloroethylene	75-35-4			100	X	U078	10,000
Ethene, 1,1-dichloro-	75-35-4			100	X	U078	10,000
Vinylidene chloride	75-35-4			100	313	U078	10,000
Acetyl chloride	75-36-5			5,000		U006	
Difluoroethane	75-37-6						10,000
Ethane, 1,1-difluoro-	75-37-6						10,000
Ethene, 1,1-difluoro-	75-38-7						10,000
Vinylidene fluoride	75-38-7						10,000
Dichlorofluoromethane	75-43-4				313		
HCFC-21	75-43-4				X		
Carbonic dichloride	75-44-5	10	10	10	X	P095	500
Phosgene	75-44-5	10	10	10	313	P095	500
Chlorodifluoromethane	75-45-6				313		
HCFC-22	75-45-6				X		
Methanamine, N,N-dimethyl-	75-50-3			100			10,000
Trimethylamine	75-50-3			100			10,000
Nitromethane	75-52-5				313		
Aziridine, 2-methyl	75-55-8	10,000	1	1	X	P067	10,000
Propyleneimine	75-55-8	10,000	1	1	313	P067	10,000
Oxirane, methyl-	75-56-9	10,000	100	100	X		10,000
Propylene oxide	75-56-9	10,000	100	100	313		10,000
Cacodylic acid	75-60-5			1		U136	
Bromotrifluoromethane	75-63-8				313		
Halon 1301	75-63-8				X		

NAME	CAS/313 Category Codes	Section 302 (EHS) TPQ	Section 304 EHS RQ	CERCLA RQ	Section 313	RCRA CODE	CAA 112(r) TQ
tert-Butylamine	75-64-9			1,000			
tert-Butyl alcohol	75-65-0				313		
1-Chloro-1,1-difluoroethane	75-68-3				313		
HCFC-142b	75-68-3				X		
CFC-11	75-69-4			5,000	X	U121	
Trichlorofluoromethane	75-69-4			5,000	313	U121	
Trichloromonofluoromethane	75-69-4			5,000	X	U121	
CFC-12	75-71-8			5,000	X	U075	
Dichlorodifluoromethane	75-71-8			5,000	313	U075	
CFC-13	75-72-9				X		
Chlorotrifluoromethane	75-72-9				313		
Plumbane, tetramethyl-	75-74-1	100	100				10,000
Tetramethyllead	75-74-1	100	100		313c		10,000
Silane, tetramethyl-	75-76-3						10,000
Tetramethylsilane	75-76-3						10,000
Silane, chlorotrimethyl-	75-77-4	1,000	1,000				10,000
Trimethylchlorosilane	75-77-4	1,000	1,000				10,000
Dimethyldichlorosilane	75-78-5	500	500				5,000
Silane, dichlorodimethyl-	75-78-5	500	500				5,000
Methyltrichlorosilane	75-79-6	500	500				5,000
Silane, trichloromethyl-	75-79-6	500	500				5,000
Acetone cyanohydrin	75-86-5	1,000	10	10	X	P069	
2-Methyllactonitrile	75-86-5	1,000	10	10	313	P069	
Acetaldehyde, trichloro-	75-87-6			5,000		U034	
2-Chloro-1,1,1-trifluoroethane	75-88-7				313		
HCFC-133a	75-88-7				X		
2,2-Dichloropropionic acid	75-99-0			5,000			
Pentachloroethane	76-01-7			10	313	U184	
Trichloroacetyl chloride	76-02-8	500	500		313		
Chloropicrin	76-06-2				313		
Ethane, 1,1,2-trichloro-1,2,2,-trifluoro-	76-13-1				X		
Freon 113	76-13-1				313		
CFC-114	76-14-2				X		
Dichlorotetrafluoroethane	76-14-2				313		
CFC-115	76-15-3				X		
Monochloropentafluoroethane	76-15-3				313		
Heptachlor	76-44-8			1	313	P059	
1,4,5,6,7,8,8-Heptachloro-3a,4,7,7a-tetrahydro-4,7-methano-1H-indene	76-44-8			1	X	P059	
Triphenyltin hydroxide	76-87-9				313		
Phenolphthalein	77-09-8				313		
Hexachlorocyclopentadiene	77-47-4	100	10	10	313	U130	
Dicyclopentadiene	77-73-6				313		
Dimethyl sulfate	77-78-1	500	100	100	313	U103	
Tabun	77-81-6	10	10				
Tetraethyl lead	78-00-2	100	10	10	313c	P110	
Dioxathion	78-34-2	500	500				
DEF	78-48-8				X		

NAME	CAS/313 Category Codes	Section 302 (EHS) TPQ	Section 304 EHS RQ	CERCLA RQ	Section 313	RCRA CODE	CAA 112(r) TQ
S,S,S-Tributyltrithiophosphate	78-48-8				313		
Amiton	78-53-5	500	500				
Isophorone	78-59-1			5,000			
Oxetane, 3,3-bis(chloromethyl)-	78-71-7	500	500				
Butane, 2-methyl-	78-78-4						10,000
Isopentane	78-78-4						10,000
1,3-Butadiene, 2-methyl-	78-79-5			100			10,000
Isoprene	78-79-5			100	**313**		10,000
iso-Butylamine	78-81-9			1,000			
Isobutyronitrile	78-82-0	1,000	1,000				20,000
Propanenitrile, 2-methyl-	78-82-0	1,000	1,000				20,000
Isobutyl alcohol	78-83-1			5,000		U140	
Isobutyraldehyde	78-84-2				313		
1,2-Dichloropropane	78-87-5			1,000	313	U083	
Propane 1,2-dichloro-	78-87-5			1,000	X	U083	
2,3-Dichloropropene	78-88-6			100	313		
sec-Butyl alcohol	78-92-2				313		
Methyl ethyl ketone	78-93-3			5,000		U159	
Methyl vinyl ketone	78-94-4	10	10				
Lactonitrile	78-97-7	1,000	1,000				
1,1-Dichloropropane	78-99-9			1,000			
1,1,2-Trichloroethane	79-00-5			100	313	U227	
Trichloroethylene	79-01-6			100	313	U228	
Acrylamide	79-06-1	1,000/10,000	5,000	5,000	313	U007	
Propionic acid	79-09-4			5,000			
Acrylic acid	79-10-7			5,000	313	U008	
Chloroacetic acid	79-11-8	100/10,000	100	100	313		
Thiosemicarbazide	79-19-6	100/10,000	100	100	313	P116	
Ethaneperoxoic acid	79-21-0	500	500		X		10,000
Peracetic acid	79-21-0	500	500		313		10,000
Carbonochloridic acid, methylester	79-22-1	500	1,000	1,000	X	U156	5,000
Methyl chlorocarbonate	79-22-1	500	1,000	1,000	313	U156	5,000
Methyl chloroformate	79-22-1	500	1,000	1,000	X	U156	5,000
iso-Butyric acid	79-31-2			5,000			
1,1,2,2-Tetrachloroethane	79-34-5			100	313	U209	
Ethene, chlorotrifluoro-	79-38-9						10,000
Trifluorochloroethylene	79-38-9						10,000
Dimethylcarbamyl chloride	79-44-7			1	313	U097	
2-Nitropropane	79-46-9			10	313	U171	
Tetrabromobisphenol A	79-94-7				313		
4,4'-Isopropylidenediphenol	80-05-7				313		
Cumene hydroperoxide	80-15-9			10	313	U096	
Hydroperoxide, 1-methyl-1-phenylethyl-	80-15-9			10	X	U096	
Methyl methacrylate	80-62-6			1,000	313	U162	
Methyl 2-chloroacrylate	80-63-7	500	500				
Saccharin (manufacturing)	81-07-2			100	313	U202	
Saccharin and salts	81-07-2			100		U202	

NAME	CAS/313 Category Codes	Section 302 (EHS) TPQ	Section 304 EHS RQ	CERCLA RQ	Section 313	RCRA CODE	CAA 112(r) TQ
1-Amino-2,4-dibromoanthraquinone	81-49-2				313		
Warfarin	81-81-2	500/10,000	100	100	X 313c	P001	
Warfarin, & salts, conc.>0.3%	81-81-2			100	X 313c	P001	
C.I. Food Red 15	81-88-9				313		
1-Amino-2-methylanthraquinone	82-28-0				313		
Diphacinone	82-66-6	10/10,000	10				
PCNB	82-68-8			100	X	U185	
Pentachloronitrobenzene	82-68-8			100	X	U185	
Quintozene	82-68-8			100	313	U185	
Acenaphthene	83-32-9			100			
Diethyl phthalate	84-66-2			1,000		U088	
n-Butyl phthalate	84-74-2			10	X	U069	
Dibutyl phthalate	84-74-2			10	313	U069	
Diquat	85-00-7			1,000			
Phenanthrene	85-01-8			5,000	313		
Phthalic anhydride	85-44-9			5,000	313	U190	
Butyl benzyl phthalate	85-68-7			100			
N-Nitrosodiphenylamine	86-30-6			100	313		
Azinphos-methyl	86-50-0	10/10,000	1	1			
Guthion	86-50-0	10/10,000	1	1			
Fluorene	86-73-7			5,000			
ANTU	86-88-4	500/10,000	100	100		P072	
Thiourea, 1-naphthalenyl-	86-88-4	500/10,000	100	100		P072	
2,6-Xylidine	87-62-7				313		
2,6-Dichlorophenol	87-65-0			100		U082	
Hexachloro-1,3-butadiene	87-68-3			1	313	U128	
Hexachlorobutadiene	87-68-3			1	X	U128	
PCP	87-86-5			10	X		
Pentachlorophenol	87-86-5			10	313		
Aniline, 2,4,6-trimethyl-	88-05-1	500	500				
2,4,6-Trichlorophenol	88-06-2			10	313		
o-Nitrotoluene	88-72-2			1,000	313		
2-Nitrophenol	88-75-5			100	313		
Dinitrobutyl phenol	88-85-7	100/10,000	1,000	1,000	313	P020	
Dinoseb	88-85-7	100/10,000	1,000	1,000	X	P020	
Picric acid	88-89-1				313		
o-Anisidine	90-04-0			100	313		
2-Phenylphenol	90-43-7				313		
Michler's ketone	90-94-8				313		
Benzene, 1,3-diisocyanato-2-methyl-	91-08-7	100	100	100	X		10,000
Toluene-2,6-diisocyanate	91-08-7	100	100	100	313		10,000
Naphthalene	91-20-3			100	313	U165	
Quinoline	91-22-5			5,000	313		
o-Nitroanisole	91-23-6				313		
2-Chloronaphthalene	91-58-7			5,000		U047	
beta-Naphthylamine	91-59-8			10	313	U168	
N,N-Diethylaniline	91-66-7			1,000			
Methapyrilene	91-80-5			5,000		U155	

NAME	CAS/313 Category Codes	Section 302 (EHS) TPQ	Section 304 EHS RQ	CERCLA RQ	Section 313	RCRA CODE	CAA 112(r) TQ
3,3'-Dimethoxybenzidine-4,4'-diisocyanate	91-93-0				313#		
3,3'-Dichlorobenzidine	91-94-1			1	313	U073	
3,3'-Dimethyl-4,4'-diphenylene diisocyanate	91-97-4				313#		
Biphenyl	92-52-4			100	313		
4-Aminobiphenyl	92-67-1			1	313		
Benzidine	92-87-5			1	313	U021	
4-Nitrobiphenyl	92-93-3			10	313		
Methyleugenol	93-15-2				313		
Mecoprop	93-65-2				313		
Silvex (2,4,5-TP)	93-72-1			100			
2,4,5-T acid	93-76-5			1,000			
2,4,5-T esters	93-79-8			1,000			
2,4-D Esters	94-11-1			100	X		
2,4-D isopropyl ester	94-11-1			100	313		
Benzoyl peroxide	94-36-0				313		
Dihydrosafrole	94-58-6			10	313	U090	
Safrole	94-59-7			100	313	U203	
(4-Chloro-2-methylphenoxy) acetic acid	94-74-6				X		
MCPA	94-74-6				X		
Methoxone	94-74-6				313		
Acetic acid, (2,4-dichlorophenoxy)-	94-75-7			100	X	U240	
2,4-D	94-75-7			100	313	U240	
2,4-D Acid	94-75-7			100	X	U240	
2,4-D, salts and esters	94-75-7			100		U240	
2,4-D Esters	94-79-1			100			
2,4-D butyl ester	94-80-4			100	313		
2,4-D Esters	94-80-4			100	X		
2,4-DB	94-82-6				313		
Benzene, o-dimethyl-	95-47-6			1,000	X	U239	
o-Xylene	95-47-6			1,000	313	U239	
o-Cresol	95-48-7	1,000/10,000	100	100	313	U052	
o-Dichlorobenzene	95-50-1			100	X	U070	
1,2-Dichlorobenzene	95-50-1			100	313	U070	
o-Toluidine	95-53-4			100	313	U328	
1,2-Phenylenediamine	95-54-5				313		
2-Chlorophenol	95-57-8			100		U048	
1,2,4-Trimethylbenzene	95-63-6				313		
p-Chloro-o-toluidine	95-69-2				313		
2,4-Diaminotoluene	95-80-7			10	313		
1,2,4,5-Tetrachlorobenzene	95-94-3			5,000		U207	
2,4,5-Trichlorophenol	95-95-4			10	313		
Styrene oxide	96-09-3			100	313		
DBCP	96-12-8			1	X	U066	
1,2-Dibromo-3-chloropropane	96-12-8			1	313	U066	
1,2,3-Trichloropropane	96-18-4				313		
Methyl acrylate	96-33-3				313		

NAME	CAS/313 Category Codes	Section 302 (EHS) TPQ	Section 304 EHS RQ	CERCLA RQ	Section 313	RCRA CODE	CAA 112(r) TQ
Ethylene thiourea	96-45-7			10	313	U116	
Dichlorophene	97-23-4				313		
2,2'-Methylenebis(4-chlorophenol	97-23-4				X		
C.I. Solvent Yellow 3	97-56-3				313		
Ethyl methacrylate	97-63-2			1,000		U118	
Furfural	98-01-1			5,000		U125	
Benzenearsonic acid	98-05-5	10/10,000	10				
Benzoic trichloride	98-07-7	100	10	10	313	U023	
Benzotrichloride	98-07-7	100	10	10	X	U023	
Benzenesulfonyl chloride	98-09-9			100		U020	
Trichlorophenylsilane	98-13-5	500	500				
Benzenamine, 3-(trifluoromethyl)-	98-16-8	500	500				
Cumene	98-82-8			5,000	313	U055	
Acetophenone	98-86-2			5,000	313	U004	
Benzal chloride	98-87-3	500	5,000	5,000	313	U017	
Benzoyl chloride	98-88-4			1,000	313		
Nitrobenzene	98-95-3	10,000	1,000	1,000	313	U169	
m-Nitrotoluene	99-08-1			1,000			
Dichloran	99-30-9				313		
2,6-Dichloro-4-nitroaniline	99-30-9				X		
1,3,5-Trinitrobenzene	99-35-4			10		U234	
5-Nitro-o-toluidine	99-55-8			100	313	U181	
5-Nitro-o-anisidine	99-59-2				313		
m-Dinitrobenzene	99-65-0			100	313		
Dimethyl-p-phenylenediamine	99-98-9	10/10,000	10				
p-Nitrotoluene	99-99-0			1,000			
p-Nitroaniline	100-01-6			5,000	313	P077	
4-Nitrophenol	100-02-7			100	313	U170	
p-Nitrophenol	100-02-7			100	X	U170	
Benzene, 1-(chloromethyl)-4-nitro-	100-14-1	500/10,000	500				
p-Dinitrobenzene	100-25-4			100	313		
Ethylbenzene	100-41-4			1,000	313		
Styrene	100-42-5			1,000	313		
Benzyl chloride	100-44-7	500	100	100	313	P028	
Benzonitrile	100-47-0			5,000			
N-Nitrosopiperidine	100-75-4			10	313	U179	
Anilazine	101-05-3				313		
4,6-Dichloro-N-(2-chlorophenyl)-1,3,5-triazin-2-amine	101-05-3				X		
MBOCA	101-14-4			10	X	U158	
4,4'-Methylenebis(2-chloroaniline)	101-14-4			10	313	U158	
Barban	101-27-9			10		U280	
4-Bromophenyl phenyl ether	101-55-3			100		U030	
4,4'-Methylenebis(N,N-dimethyl)benzenamine	101-61-1				313		
MDI	101-68-8			5,000	X		
Methylenebis(phenylisocyanate)	101-68-8			5,000	313#		
4,4'-Methylenedianiline	101-77-9			10	313		

NAME	CAS/313 Category Codes	Section 302 (EHS) TPQ	Section 304 EHS RQ	CERCLA RQ	Section 313	RCRA CODE	CAA 112(r) TQ
4,4'-Diaminodiphenyl ether	101-80-4				313		
Diglycidyl resorcinol ether	101-90-6				313		
Isocyanic acid, 3,4-dichlorophenyl ester	102-36-3	500/10,000	500				
Phenylthiourea	103-85-5	100/10,000	100	100		P093	
p-Chlorophenyl isocyanate	104-12-1				313		
4-Nonylphenol	104-40-5				313$		
1,4-Phenylene diisocyanate	104-49-4				313#		
p-Anisidine	104-94-9				313		
sec-Butyl acetate	105-46-4			5,000			
2,4-Dimethylphenol	105-67-9			100	313	U101	
Benzene, p-dimethyl-	106-42-3			100	X	U239	
p-Xylene	106-42-3			100	313	U239	
p-Cresol	106-44-5			100	313	U052	
1,4-Dichlorobenzene	106-46-7			100	313	U072	
p-Chloroaniline	106-47-8			1,000	313	P024	
p-Toluidine	106-49-0			100		U353	
p-Phenylenediamine	106-50-3			5,000	313		
p-Benzoquinone	106-51-4			10	X	U197	
Quinone	106-51-4			10	313	U197	
1,2-Butylene oxide	106-88-7			100	313		
Epichlorohydrin	106-89-8	1,000	100	100	313	U041	20,000
Oxirane, (chloromethyl)-	106-89-8	1,000	100	100	X	U041	20,000
1,2-Dibromoethane	106-93-4			1	313	U067	
Ethylene dibromide	106-93-4			1	X	U067	
Propargyl bromide	106-96-7	10	10				
Butane	106-97-8						10,000
1-Butene	106-98-9						10,000
1,3-Butadiene	106-99-0			10	313		10,000
1-Butyne	107-00-6						10,000
Ethyl acetylene	107-00-6						10,000
2-Butene	107-01-7						10,000
Acrolein	107-02-8	500	1	1	313	P003	5,000
2-Propenal	107-02-8	500	1	1	X	P003	5,000
Allyl chloride	107-05-1			1,000	313		
1,2-Dichloroethane	107-06-2			100	313	U077	
Ethylene dichloride	107-06-2			100	X	U077	
Chloroethanol	107-07-3	500	500				
n-Propylamine	107-10-8			5,000		U194	
Allylamine	107-11-9	500	500		313		10,000
2-Propen-1-amine	107-11-9	500	500		X		10,000
Ethyl cyanide	107-12-0	500	10	10		P101	10,000
Propanenitrile	107-12-0	500	10	10		P101	10,000
Propionitrile	107-12-0	500	10	10		P101	10,000
Acrylonitrile	107-13-1	10,000	100	100	313	U009	20,000
2-Propenenitrile	107-13-1	10,000	100	100	X	U009	20,000
1,2-Ethanediamine	107-15-3	10,000	5,000	5,000			20,000
Ethylenediamine	107-15-3	10,000	5,000	5,000			20,000

NAME	CAS/313 Category Codes	Section 302 (EHS) TPQ	Section 304 EHS RQ	CERCLA RQ	Section 313	RCRA CODE	CAA 112(r) TQ
Formaldehyde cyanohydrin	107-16-4	1,000	1,000				
Allyl alcohol	107-18-6	1,000	100	100	313	P005	15,000
2-Propen-1-ol	107-18-6	1,000	100	100	X	P005	15,000
Propargyl alcohol	107-19-7			1,000	313	P102	
Chloroacetaldehyde	107-20-0			1,000		P023	
Ethylene glycol	107-21-1			5,000	313		
Ethene, methoxy-	107-25-5						10,000
Vinyl methyl ether	107-25-5						10,000
Chloromethyl methyl ether	107-30-2	100	10	10	313	U046	5,000
Methane, chloromethoxy-	107-30-2	100	10	10	X	U046	5,000
Formic acid, methyl ester	107-31-3						10,000
Methyl formate	107-31-3						10,000
Sarin	107-44-8	10	10				
TEPP	107-49-3	100	10	10		P111	
Tetraethyl pyrophosphate	107-49-3	100	10	10		P111	
Butyric acid	107-92-6			5,000			
Acetic acid ethenyl ester	108-05-4	1,000	5,000	5,000	X		15,000
Vinyl acetate	108-05-4	1,000	5,000	5,000	313		15,000
Vinyl acetate monomer	108-05-4	1,000	5,000	5,000	X		15,000
Methyl isobutyl ketone	108-10-1			5,000	313	U161	
Carbonochloridic acid, 1-methylethyl ester	108-23-6	1,000	1,000				15,000
Isopropyl chloroformate	108-23-6	1,000	1,000				15,000
Acetic anhydride	108-24-7			5,000			
Maleic anhydride	108-31-6			5,000	313	U147	
Benzene, m-dimethyl-	108-38-3			1,000	X	U239	
m-Xylene	108-38-3			1,000	313	U239	
m-Cresol	108-39-4			100	313	U052	
1,3-Phenylenediamine	108-45-2				313		
Resorcinol	108-46-3			5,000		U201	
Bis(2-chloro-1-methylethyl)ether	108-60-1			1,000	313	U027	
Dichloroisopropyl ether	108-60-1			1,000	X	U027	
Toluene	108-88-3			1,000	313	U220	
Chlorobenzene	108-90-7			100	313	U037	
Cyclohexanamine	108-91-8	10,000	10,000				15,000
Cyclohexylamine	108-91-8	10,000	10,000				15,000
Cyclohexanol	108-93-0				313		
Cyclohexanone	108-94-1			5,000		U057	
Phenol	108-95-2	500/10,000	1,000	1,000	313	U188	
Benzenethiol	108-98-5	500	100	100		P014	
Thiophenol	108-98-5	500	100	100		P014	
2-Methylpyridine	109-06-8			5,000	313	U191	
2-Picoline	109-06-8			5,000	X	U191	
Carbonochloridic acid, propylester	109-61-5	500	500				15,000
Propyl chloroformate	109-61-5	500	500				15,000
Pentane	109-66-0						10,000
1-Pentene	109-67-1						10,000
Butylamine	109-73-9			1,000			

NAME	CAS/313 Category Codes	Section 302 (EHS) TPQ	Section 304 EHS RQ	CERCLA RQ	Section 313	RCRA CODE	CAA 112(r) TQ
Malononitrile	109-77-3	500/10,000	1,000	1,000	313	U149	
2-Methoxyethanol	109-86-4				313		
Diethylamine	109-89-7			100			
Ethene, ethoxy-	109-92-2						10,000
Vinyl ethyl ether	109-92-2						10,000
Ethyl nitrite	109-95-5						10,000
Nitrous acid, ethyl ester	109-95-5						10,000
Furan, tetrahydro-	109-99-9			1,000		U213	
Furan	110-00-9	500	100	100	313	U124	5,000
Maleic acid	110-16-7			5,000			
Fumaric acid	110-17-8			5,000			
iso-Butyl acetate	110-19-0			5,000			
Hexane	110-54-3			5,000	X		
n-Hexane	110-54-3			5,000	313		
trans-1,4-Dichloro-2-butene	110-57-6	500	500		313		
trans-1,4-Dichlorobutene	110-57-6	500	500		X		
2-Chloroethyl vinyl ether	110-75-8			1,000		U042	
Ethanol, 2-ethoxy-	110-80-5			1,000	X	U359	
2-Ethoxyethanol	110-80-5			1,000	313	U359	
Cyclohexane	110-82-7			1,000	313	U056	
Pyridine	110-86-1			1,000	313	U196	
Piperidine	110-89-4	1,000	1,000				15,000
Diethanolamine	111-42-2			100	313		
Bis(2-chloroethyl) ether	111-44-4	10,000	10	10	313	U025	
Dichloroethyl ether	111-44-4	10,000	10	10	X	U025	
Ethylenebisdithiocarbamic acid, salts & esters	111-54-6			5,000	X	U114	
Adiponitrile	111-69-3	1,000	1,000				
Bis(2-chloroethoxy) methane	111-91-1			1,000	313	U024	
Phenol, 2-(1-methylethoxy)-, methylcarbamate	114-26-1			100	X	U411	
Propoxur	114-26-1			100	313	U411	
Azaserine	115-02-6			1		U015	
Propene	115-07-1				X		10,000
1-Propene	115-07-1				X		10,000
Propylene	115-07-1				313		10,000
Methane, oxybis-	115-10-6						10,000
Methyl ether	115-10-6						10,000
2-Methylpropene	115-11-7						10,000
1-Propene, 2-methyl-	115-11-7						10,000
Trichloroethylsilane	115-21-9	500	500				
Dimefox	115-26-4	500	500				
Chlorendic acid	115-28-6				313		
Endosulfan	115-29-7	10/10,000	1	1		P050	
Benzenemethanol, 4-chloro-.alpha.-4-chlorophenyl)-.alpha.-(trichloromethyl)-	115-32-2			10	X		
Dicofol	115-32-2			10	313		
Fensulfothion	115-90-2	500	500				

NAME	CAS/313 Category Codes	Section 302 (EHS) TPQ	Section 304 EHS RQ	CERCLA RQ	Section 313	RCRA CODE	CAA 112(r) TQ
Aldicarb	116-06-3	100/10,000	1	1	313	P070	
Ethene, tetrafluoro-	116-14-3						10,000
Tetrafluoroethylene	116-14-3				313		10,000
2-Aminoanthraquinone	117-79-3				313		
Dichlone	117-80-6			1			
Bis(2-ethylhexyl)phthalate	117-81-7			100	X	U028	
DEHP	117-81-7			100	X	U028	
Di(2-ethylhexyl) phthalate	117-81-7			100	313	U028	
Di-n-octyl phthalate	117-84-0			5,000		U107	
n-Dioctylphthalate	117-84-0			5,000		U107	
Hexachlorobenzene	118-74-1			10	313	U127	
Isopropylmethylpyrazolyl dimethylcarbamate	119-38-0	500	100	100		P192	
3,3'-Dimethoxybenzidine	119-90-4			100	313	U091	
3,3'-Dimethylbenzidine	119-93-7			10	313	U095	
o-Tolidine	119-93-7			10	X	U095	
Anthracene	120-12-7			5,000	313		
2,4-DP	120-36-5				313		
Isosafrole	120-58-1			100	313	U141	
p-Cresidine	120-71-8				313		
Catechol	120-80-9			100	313		
1,2,4-Trichlorobenzene	120-82-1			100	313		
2,4-Dichlorophenol	120-83-2			100	313	U081	
2,4-Dinitrotoluene	121-14-2			10	313	U105	
Pyrethrins	121-21-1			1			
Pyrethrins	121-29-9			1			
Triethylamine	121-44-8			5,000	313	U404	
N,N-Dimethylaniline	121-69-7			100	313		
Malathion	121-75-5			100	313		
Benzeneethanamine, alpha,alpha-dimethyl-	122-09-8			5,000		P046	
Simazine	122-34-9				313		
Diphenylamine	122-39-4				313		
Propham	122-42-9			1,000		U373	
1,2-Diphenylhydrazine	122-66-7			10	313	U109	
Hydrazine, 1,2-diphenyl-	122-66-7			10	X	U109	
Hydrazobenzene	122-66-7			10	X	U109	
Hydroquinone	123-31-9	500/10,000	100	100	313		
Maleic hydrazide	123-33-1			5,000		U148	
Propionaldehyde	123-38-6			1,000	313		
1,3-Phenylene diisocyanate	123-61-5				313#		
Propionic anhydride	123-62-6			5,000			
Paraldehyde	123-63-7			1,000	313	U182	
Butyraldehyde	123-72-8				313		
2-Butenal, (e)-	123-73-9	1,000	100	100		U053	20,000
Crotonaldehyde, (E)-	123-73-9	1,000	100	100		U053	20,000
Butyl acetate	123-86-4			5,000			
1,4-Dioxane	123-91-1			100	313	U108	

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iso-Amyl acetate	123-92-2			5,000			
Adipic acid	124-04-9			5,000			
Dimethylamine	124-40-3			1,000	313	U092	10,000
Methanamine, N-methyl-	124-40-3			1,000	X	U092	10,000
Sodium methylate	124-41-4			1,000			
Chlorodibromomethane	124-48-1			100			
Sodium cacodylate	124-65-2	100/10,000	100				
Dibromotetrafluoroethane	124-73-2				313		
Halon 2402	124-73-2				X		
Picrotoxin	124-87-8	500/10,000	500				
Tris(2,3-dibromopropyl) phosphate	126-72-7			10	313	U235	
Methacrylonitrile	126-98-7	500	1,000	1,000	313	U152	10,000
2-Propenenitrile, 2-methyl-	126-98-7	500	1,000	1,000	X	U152	10,000
Chloroprene	126-99-8			100	313		
Perchloroethylene	127-18-4			100	X	U210	
Tetrachloroethylene	127-18-4			100	313	U210	
Zinc phenolsulfonate	127-82-2			5,000	313c		
Potassium dimethyldithiocarbamate	128-03-0				313		
Sodium dimethyldithiocarbamate	128-04-1				313		
C.I. Vat Yellow 4	128-66-5				313		
Pyrene	129-00-0	1,000/10,000	5,000	5,000			
Warfarin sodium	129-06-6	100/10,000	100	100	313c		
1,4-Naphthoquinone	130-15-4			5,000		U166	
Dimethyl phthalate	131-11-3			5,000	313	U102	
Sodium pentachlorophenate	131-52-2				313		
Ammonium picrate	131-74-8			10		P009	
2-Cyclohexyl-4,6-dinitrophenol	131-89-5			100		P034	
Sodium o-phenylphenoxide	132-27-4				313		
Dibenzofuran	132-64-9			100	313		
Captan	133-06-2			10	313		
1H-Isoindole-1,3(2H)-dione, 3a,4,7,7a-tetrahydro-2-[(trichloromethyl)thio]-	133-06-2			10	X		
Folpet	133-07-3				313		
Benzoic acid, 3-amino-2,5-dichloro-	133-90-4			100	X		
Chloramben	133-90-4			100	313		
o-Anisidine hydrochloride	134-29-2				313		
alpha-Naphthylamine	134-32-7			100	313	U167	
Benzeneamine, N-hydroxy-N-nitroso, ammonium salt	135-20-6				X		
Cupferron	135-20-6				313		
Dipropyl isocinchomeronate	136-45-8				313		
Thiram	137-26-8			10	313	U244	
Ziram	137-30-4			10		P205	
Potassium N-methyldithiocarbamate	137-41-7				313		
Metham sodium	137-42-8				313		
Sodium methyldithiocarbamate	137-42-8				X		
Disodium cyanodithioimidocarbonate	138-93-2				313		
Nitrilotriacetic acid	139-13-9				313		

NAME	CAS/313 Category Codes	Section 302 (EHS) TPQ	Section 304 EHS RQ	CERCLA RQ	Section 313	RCRA CODE	CAA 112(r) TQ
3,3'-Dimethyldiphenylmethane-4,4'-diisocyanate	139-25-3				313#		
4,4'-Thiodianiline	139-65-1				313		
Benzyl cyanide	140-29-4	500	500				
Pyridine, 2-methyl-5-vinyl-	140-76-1	500	500				
Ethyl acrylate	140-88-5			1,000	313	U113	
Butyl acrylate	141-32-2				313		
Dicrotophos	141-66-2	100	100				
Ethyl acetate	141-78-6			5,000		U112	
1,3-Dichloropropane	142-28-9			1,000			
Nabam	142-59-6				313		
Cupric acetate	142-71-2			100	313c		
Dipropylamine	142-84-7			5,000		U110	
Sodium cyanide (Na(CN))	143-33-9	100	10	10	313c	P106	
Kepone	143-50-0			1		U142	
Fluoroacetic acid	144-49-0	10/10,000	10				
Endothall	145-73-3			1,000		P088	
Thiabendazole	148-79-8				313		
2-(4-Thiazolyl)-1H-benzimidazole	148-79-8				X		
Melphalan	148-82-3			1		U150	
MBT	149-30-4				X		
2-Mercaptobenzothiazole	149-30-4				313		
Dichloromethylphenylsilane	149-74-6	1,000	1,000				
Merphos	150-50-5				313		
Monuron	150-68-5				313		
Methoxyethylmercuric acetate	151-38-2	500/10,000	500		313c		
Potassium cyanide	151-50-8	100	10	10	313c	P098	
Aziridine	151-56-4	500	1	1	X	P054	10,000
Ethyleneimine	151-56-4	500	1	1	313	P054	10,000
Diphosphoramide, octamethyl-	152-16-9	100	100	100		P085	
p-Nitrosodiphenylamine	156-10-5				313		
1,2-Dichloroethylene	156-60-5			1,000		U079	
Calcium cyanamide	156-62-7			1,000	313		
Benzo(rst)pentaphene	189-55-9			10	313+	U064	
Dibenz[a,i]pyrene	189-55-9			10	X	U064	
Dibenzo(a,h)pyrene	189-64-0				313+		
Benzo[g,h,i]perylene	191-24-2			5,000	313		
Dibenzo(a,l)pyrene	191-30-0				313+		
Dibenzo(a,e)pyrene	192-65-4				313+		
Indeno(1,2,3-cd)pyrene	193-39-5			100	313+	U137	
7H-Dibenzo(c,g)carbazole	194-59-2				313+		
Benzo(j)fluoranthene	205-82-3				313+		
Benzo[b]fluoranthene	205-99-2			1	313+		
Fluoranthene	206-44-0			100	X	U120	
Benzo(k)fluoranthene	207-08-9			5,000	313+		
Acenaphthylene	208-96-8			5,000			
Benzo(a)phenanthrene	218-01-9			100	313+	U050	
Chrysene	218-01-9			100	X	U050	

NAME	CAS/313 Category Codes	Section 302 (EHS) TPQ	Section 304 EHS RQ	CERCLA RQ	Section 313	RCRA CODE	CAA 112(r) TQ
Dibenz(a,j)acridine	224-42-0				313+		
Benz[c]acridine	225-51-4			100		U016	
Dibenz(a,h)acridine	226-36-8				313+		
Isobenzan	297-78-9	100/10,000	100				
O,O-Diethyl O-pyrazinyl phosphorothioate	297-97-2	500	100	100		P040	
Thionazin	297-97-2	500	100	100		P040	
Methyl parathion	298-00-0	100/10,000	100	100	313	P071	
Parathion-methyl	298-00-0	100/10,000	100	100	X	P071	
Phorate	298-02-2	10	10	10		P094	
Disulfoton	298-04-4	500	1	1		P039	
Amphetamine	300-62-9	1,000	1,000				
Naled	300-76-5			10	313		
Lead acetate	301-04-2			10	313c	U144	
S-(2-(Ethylsulfinyl)ethyl) O,O-dimethyl ester phosphorothioic acid	301-12-2				X		
Oxydemeton methyl	301-12-2				313		
Hydrazine	302-01-2	1,000	1	1	313	U133	15,000
Lasiocarpine	303-34-4			10		U143	
Chlorambucil	305-03-3			10		U035	
2,2-Dichloro-1,1,1-trifluoroethane	306-83-2				313		
HCFC-123	306-83-2				X		
Aldrin	309-00-2	500/10,000	1	1	313	P004	
1,4:5,8-Dimethanonaphthalene, 1,2,3,4,10,10-hexachloro-1,4,4a,5,8,8a-hexahydro-(1.alpha.,4.alpha.,4a.beta.,5.alpha.,8.alpha.,8a.beta.)-	309-00-2	500/10,000	1	1	X	P004	
Diethyl-p-nitrophenyl phosphate	311-45-5			100		P041	
Bromacil	314-40-9				313		
5-Bromo-6-methyl-3-(1-methylpropyl)-2,4-(1H,3H)-pyrimidinedione	314-40-9				X		
Mexacarbate	315-18-4	500/10,000	1,000	1,000		P128	
Emetine, dihydrochloride	316-42-7	1/10,000	1				
alpha-BHC	319-84-6			10	X		
alpha-Hexachlorocyclohexane	319-84-6			10	313		
beta-BHC	319-85-7			1			
delta-BHC	319-86-8			1			
Trichloronate	327-98-0	500	500				
2,5-Dinitrophenol	329-71-5			10			
Diuron	330-54-1			100	313		
Linuron	330-55-2				313		
Diazinon	333-41-5			1	313		
Diazomethane	334-88-3			100	313		
Boron trifluoride compound with methyl ether (1:1)	353-42-4	1,000	1,000				15,000
Boron, trifluoro[oxybis[methane]]-, (T-4)-	353-42-4	1,000	1,000				15,000
Carbonic difluoride	353-50-4			1,000		U033	
Bromochlorodifluoromethane	353-59-3				313		

NAME	CAS/313 Category Codes	Section 302 (EHS) TPQ	Section 304 EHS RQ	CERCLA RQ	Section 313	RCRA CODE	CAA 112(r) TQ
Halon 1211	353-59-3				X		
HCFC-121a	354-11-0				X		
1,1,1,2-Tetrachloro-2-fluoroethane	354-11-0				313		
HCFC-121	354-14-3				X		
1,1,2,2-Tetrachloro-1-fluoroethane	354-14-3				313		
1,2-Dichloro-1,1,2-trifluoroethane	354-23-4				313		
HCFC-123a	354-23-4				X		
1-Chloro-1,1,2,2-tetrafluoroethane	354-25-6				313		
HCFC-124a	354-25-6				X		
Brucine	357-57-3			100	313	P018	
Fluoroacetyl chloride	359-06-8	10	10				
Ethylene fluorohydrin	371-62-0	10	10				
Ergotamine tartrate	379-79-3	500/10,000	500				
1,2-Dichloro-1,1,2,3,3-pentafluoropropane	422-44-6				313		
HCFC-225bb	422-44-6				X		
2,3-Dichloro-1,1,1,2,3-pentafluoropropane	422-48-0				313		
HCFC-225ba	422-48-0				X		
3,3-Dichloro-1,1,1,2,2-pentafluoropropane	422-56-0				313		
HCFC-225ca	422-56-0				X		
1,2-Dichloro-1,1,3,3,3-pentafluoropropane	431-86-7				313		
HCFC-225da	431-86-7				X		
Cyanogen	460-19-5			100		P031	10,000
Ethanedinitrile	460-19-5			100		P031	10,000
3-Chloro-1,1,1-trifluoropropane	460-35-5				313		
HCFC-253fb	460-35-5				X		
1,2-Propadiene	463-49-0						10,000
Propadiene	463-49-0						10,000
Carbon oxide sulfide (COS)	463-58-1			100	X		10,000
Carbonyl sulfide	463-58-1			100	313		10,000
2,2-Dimethylpropane	463-82-1						10,000
Propane, 2,2-dimethyl-	463-82-1						10,000
Isodrin	465-73-6	100/10,000	1	1	313	P060	
Chlorfenvinfos	470-90-6	500	500				
Auramine	492-80-8			100	X	U014	
C.I. Solvent Yellow 34	492-80-8			100	313	U014	
Chlornaphazine	494-03-1			100		U026	
Diaminotoluene	496-72-0			10		U221	
Methylmercuric dicyanamide	502-39-6	500/10,000	500		313c		
4-Aminopyridine	504-24-5	500/10,000	1,000	1,000		P008	
Pyridine, 4-amino-	504-24-5	500/10,000	1,000	1,000		P008	
1,3-Pentadiene	504-60-9			100		U186	10,000
Ethane, 1,1'-thiobis[2-chloro-	505-60-2	500	500		X		
Mustard gas	505-60-2	500	500		313		
Potassium silver cyanide	506-61-6	500	1	1	313c	P099	
Silver cyanide	506-64-9			1	313c	P104	

NAME	CAS/313 Category Codes	Section 302 (EHS) TPQ	Section 304 EHS RQ	CERCLA RQ	Section 313	RCRA CODE	CAA 112(r) TQ
Cyanogen bromide	506-68-3	500/10,000	1,000	1,000	313c	U246	
Cyanogen chloride	506-77-4			10	313c	P033	10,000
Cyanogen iodide	506-78-5	1,000/10,000	1,000		313c		
Ammonium carbonate	506-87-6			5,000			
Acetyl bromide	506-96-7			5,000			
1,3-Dichloro-1,1,2,2,3-pentafluoropropane	507-55-1				313		
HCFC-225cb	507-55-1				X		
Methane, tetranitro-	509-14-8	500	10	10		P112	10,000
Tetranitromethane	509-14-8	500	10	10	**313**	P112	10,000
Benzeneacetic acid, 4-chloro-.alpha.-(4-chlorophenyl)-.alpha.-hydroxy-, ethyl ester	510-15-6			10	X	U038	
Chlorobenzilate	510-15-6			10	313	U038	
sec-Butylamine	513-49-5			1,000			
Dithiazanine iodide	514-73-8	500/10,000	500				
o-Dinitrobenzene	528-29-0			100	313		
2-Chloroacetophenone	532-27-4			100	313		
Dazomet	533-74-4				313		
Tetrahydro-3,5-dimethyl-2H-1,3,5-thiadiazine-2-thione	533-74-4				X		
Bis(chloromethyl) ketone	534-07-6	10/10,000	10				
4,6-Dinitro-o-cresol	534-52-1	10/10,000	10	10	313	P047	
Dinitrocresol	534-52-1	10/10,000	10	10	X	P047	
4,6-Dinitro-o-cresol and salts	534-52-1			10		P047	
Crimidine	535-89-7	100/10,000	100				
Ethylbis(2-chloroethyl)amine	538-07-8	500	500				
1,2-Dichloroethylene	540-59-0				313		
Hydrazine, 1,2-dimethyl-	540-73-8			1		U099	
2,2,4-Trimethylpentane	540-84-1			1,000			
tert-Butyl acetate	540-88-5			5,000			
Uranyl acetate	541-09-3			100			
Lewisite	541-25-3	10	10				
Ethyl chloroformate	541-41-3				313		
Dithiobiuret	541-53-7	100/10,000	100	100	X	P049	
2,4-Dithiobiuret	541-53-7	100/10,000	100	100	313	P049	
1,3-Dichlorobenzene	541-73-1			100	313	U071	
Barium cyanide	542-62-1			10	313c	P013	
1,3-Dichloropropene	542-75-6			100	X	U084	
1,3-Dichloropropylene	542-75-6			100	313	U084	
3-Chloropropionitrile	542-76-7	1,000	1,000	1,000	313	P027	
Propionitrile, 3-chloro-	542-76-7	1,000	1,000	1,000	X	P027	
Bis(chloromethyl) ether	542-88-1	100	10	10	313	P016	1,000
Chloromethyl ether	542-88-1	100	10	10	X	P016	1,000
Dichloromethyl ether	542-88-1	100	10	10	X	P016	1,000
Methane, oxybis[chloro-	542-88-1	100	10	10	X	P016	1,000
Ethylthiocyanate	542-90-5	10,000	10,000				
Cadmium acetate	543-90-8			10	313c		
Cobaltous formate	544-18-3			1,000	313c		

NAME	CAS/313 Category Codes	Section 302 (EHS) TPQ	Section 304 EHS RQ	CERCLA RQ	Section 313	RCRA CODE	CAA 112(r) TQ
Copper cyanide	544-92-3			10	313c	P029	
Lithium carbonate	554-13-2				313		
m-Nitrophenol	554-84-7			100			
Tris(2-chloroethyl)amine	555-77-1	100	100				
Glycidol	556-52-5				313		
Isothiocyanatomethane	556-61-6	500	500		X		
Methyl isothiocyanate	556-61-6	500	500		313		
Methyl thiocyanate	556-64-9	10,000	10,000				20,000
Thiocyanic acid, methyl ester	556-64-9	10,000	10,000				20,000
Nickel cyanide	557-19-7			10	313c	P074	
Zinc cyanide	557-21-1			10	313c	P121	
Zinc acetate	557-34-6			1,000	313c		
Zinc formate	557-41-5			1,000	313c		
2-Chloropropylene	557-98-2						10,000
1-Propene, 2-chloro-	557-98-2						10,000
Methanesulfonyl fluoride	558-25-8	1,000	1,000				
Ethion	563-12-2	1,000	10	10			
Semicarbazide hydrochloride	563-41-7	1,000/10,000	1,000				
3-Methyl-1-butene	563-45-1						10,000
2-Methyl-1-butene	563-46-2						10,000
3-Chloro-2-methyl-1-propene	563-47-3				313		
Thallium(I) acetate	563-68-8			100	313c	U214	
C.I. Basic Green 4	569-64-2				313		
2,6-Dinitrophenol	573-56-8			10			
Benzene, 2,4-diisocyanato-1-methyl-	584-84-9	500	100	100	X		10,000
Toluene-2,4-diisocyanate	584-84-9	500	100	100	313		10,000
2-Butene-cis	590-18-1						10,000
1-Chloropropylene	590-21-6						10,000
1-Propene, 1-chloro-	590-21-6						10,000
1-Acetyl-2-thiourea	591-08-2			1,000		P002	
Calcium cyanide	592-01-8			10	313c	P021	
Mercuric cyanide	592-04-1			1	313c		
Mercuric thiocyanate	592-85-8			10	313c		
Lead thiocyanate	592-87-0			10	313c		
Vinyl bromide	593-60-2			100	313		
Methanesulfenyl chloride, trichloro-	594-42-3	500	100	100	X		10,000
Perchloromethyl mercaptan	594-42-3	500	100	100	313		10,000
Trichloromethanesulfenyl chloride	594-42-3	500	100	100	X		10,000
Tetraethyltin	597-64-8	100	100				
Bromoacetone	598-31-2			1,000		P017	
Bromotrifluoroethylene	598-73-2						10,000
Ethene, bromotrifluoro-	598-73-2						10,000
2,6-Dinitrotoluene	606-20-2			100	313	U106	
Hexachlorocyclohexane (all isomers)	608-73-1			&			
Pentachlorobenzene	608-93-5			10	313	U183	
3,4,5-Trichlorophenol	609-19-8			10			
3,4-Dinitrotoluene	610-39-9			10			
3,3'-Dimethylbenzidine	612-82-8				313		

NAME	CAS/313 Category Codes	Section 302 (EHS) TPQ	Section 304 EHS RQ	CERCLA RQ	Section 313	RCRA CODE	CAA 112(r) TQ
dihydrochloride							
o-Tolidine dihydrochloride	612-82-8				X		
3,3'-Dichlorobenzidine dihydrochloride	612-83-9				313		
Thiourea, (2-methylphenyl)-	614-78-8	500/10,000	500				
2,4-Diaminoanisole	615-05-4				313		
1,2-Phenylenediamine dihydrochloride	615-28-1				313		
N-Nitroso-N-methylurethane	615-53-2			1		U178	
Di-n-propylnitrosamine	621-64-7			10	X	U111	
N-Nitrosodi-n-propylamine	621-64-7			10	313	U111	
1,4-Phenylenediamine dihydrochloride	624-18-0				313		
2-Butene, (E)	624-64-6						10,000
2-Butene-trans	624-64-6						10,000
Methane, isocyanato-	624-83-9	500	10	10	X	P064	10,000
Methyl isocyanate	624-83-9	500	10	10	313	P064	10,000
tert-Amyl acetate	625-16-1			5,000			
sec-Amyl acetate	626-38-0			5,000			
Chloroethyl chloroformate	627-11-2	1,000	1,000				
2-Pentene, (Z)-	627-20-3						10,000
Amyl acetate	628-63-7			5,000			
Mercury fulminate	628-86-4			10	313c	P065	
Selenourea	630-10-4			1,000		P103	
Ethane, 1,1,1,2-tetrachloro-	630-20-6			100	X	U208	
1,1,1,2-Tetrachloroethane	630-20-6			100	313	U208	
Ouabain	630-60-4	100/10,000	100				
Ammonium acetate	631-61-8			5,000			
o-Toluidine hydrochloride	636-21-5			100	313	U222	
Triphenyltin chloride	639-58-7	500/10,000	500		313		
Fluoroacetamide	640-19-7	100/10,000	100	100		P057	
Dimetilan	644-64-4	500/10,000	1	1		P191	
2-Pentene, (E)-	646-04-8						10,000
Cyanuric fluoride	675-14-9	100	100		313c		
Methyl phosphonic dichloride	676-97-1	100	100				
Hexamethylphosphoramide	680-31-9			1	313		
N-Nitroso-N-methylurea	684-93-5			1	313	U177	
1-Buten-3-yne	689-97-4						10,000
Vinyl acetylene	689-97-4						10,000
Diethylarsine	692-42-2			1		P038	
Dichlorophenylarsine	696-28-6	500	1	1		P036	
Phenyl dichloroarsine	696-28-6	500	1	1		P036	
N-(3,4-Dichlorophenyl)propanamide	709-98-8				X		
Propanil	709-98-8				313		
Hexaethyl tetraphosphate	757-58-4			100		P062	
N-Nitroso-N-ethylurea	759-73-9			1	313	U176	
EPTC	759-94-4				X		
Ethyl dipropylthiocarbamate	759-94-4				313		
Methacrylic anhydride	760-93-0	500	500				
2-Butene, 1,4-dichloro-	764-41-0			1	X	U074	
1,4-Dichloro-2-butene	764-41-0			1	313	U074	

NAME	CAS/313 Category Codes	Section 302 (EHS) TPQ	Section 304 EHS RQ	CERCLA RQ	Section 313	RCRA CODE	CAA 112(r) TQ
Glycidylaldehyde	765-34-4			10		U126	
Carbophenothion	786-19-6	500	500				
1,1-Dichloro-1,2,2-trifluoroethane	812-04-4				313		
HCFC-123b	812-04-4				X		
Diethyl chlorophosphate	814-49-3	500	500				
Acrylyl chloride	814-68-6	100	100				5,000
2-Propenoyl chloride	814-68-6	100	100				5,000
Cupric tartrate	815-82-7			100	313c		
Hexamethylene-1,6-diisocyanate	822-06-0			100	313#		
Diaminotoluene	823-40-5			10		U221	
Trimethylolpropane phosphite	824-11-3	100/10,000	100				
Ametryn	834-12-8				313		
N-Ethyl-N'-(1-methylethyl)-6-(methylthio)-1,3,5,-triazine-2,4-diamine	834-12-8				X		
C.I. Solvent Yellow 14	842-07-9				313		
N-Methyl-2-pyrrolidone	872-50-4				313		
Stannane, acetoxytriphenyl-	900-95-8	500/10,000	500				
Demeton-S-methyl	919-86-8	500	500				
Methacryloyl chloride	920-46-7	100	100				
N-Nitrosodi-n-butylamine	924-16-3			10	313	U172	
N-Methylolacrylamide	924-42-5				313		
N-Nitrosopyrrolidine	930-55-2			1		U180	
2,3,6-Trichlorophenol	933-75-5			10	313c		
2,3,5-Trichlorophenol	933-78-8			10	313c		
Fonofos	944-22-9	500	500				
Phosfolan	947-02-4	100/10,000	100				
Mephosfolan	950-10-7	500	500				
Methidathion	950-37-8	500/10,000	500				
Diphenamid	957-51-7				313		
alpha - Endosulfan	959-98-8			1			
Phosphoric acid, 2-chloro-1-(2,3,5-trichlorophenyl) ethenyl dimethyl ester	961-11-5				X		
Tetrachlorvinphos	961-11-5				313		
C.I. Basic Red 1	989-38-8				313		
Norbormide	991-42-4	100/10,000	100				
Triethoxysilane	998-30-1	500	500				
Chlormequat chloride	999-81-5	100/10,000	100				
Heptachlor epoxide	1024-57-3			1			
Endosulfan sulfate	1031-07-8			1			
Triamiphos	1031-47-6	500/10,000	500				
Chromic acetate	1066-30-4			1,000	313c		
Ammonium bicarbonate	1066-33-7			5,000			
Trimethyltin chloride	1066-45-1	500/10,000	500				
Lead stearate	1072-35-1			10	313c		
Ammonium carbamate	1111-78-0			5,000			
Butylethylcarbamothioic acid S-propyl ester	1114-71-2				X		
Pebulate	1114-71-2				313		

NAME	CAS/313 Category Codes	Section 302 (EHS) TPQ	Section 304 EHS RQ	CERCLA RQ	Section 313	RCRA CODE	CAA 112(r) TQ
N-Nitrosodiethanolamine	1116-54-7			1		U173	
Propane sultone	1120-71-4			10	313	U193	
1,3-Propane sultone	1120-71-4			10	X	U193	
Nitrocyclohexane	1122-60-7	500	500				
Pyridine, 4-nitro-, 1-oxide	1124-33-0	500/10,000	500				
Metolcarb	1129-41-5	100/10,000	1,000	1,000		P190	
Cycloate	1134-23-2				313		
Decabromodiphenyl oxide	1163-19-5				313		
Ferric ammonium citrate	1185-57-5			1,000			
Dichlobenil	1194-65-6			100			
Xylenol	1300-71-6			1,000			
Arsenic pentoxide	1303-28-2	100/10,000	1	1	313c	P011	
Arsenic disulfide	1303-32-8			1	313c		
Arsenic trisulfide	1303-33-9			1	313c		
Cadmium oxide	1306-19-0	100/10,000	100		313c		
Antimony trioxide	1309-64-4			1,000	313c		
Potassium hydroxide	1310-58-3			1,000			
Sodium hydroxide	1310-73-2			1,000			
Molybdenum trioxide	1313-27-5				313		
Thorium dioxide	1314-20-1				313		
Thallic oxide	1314-32-5			100	313c	P113	
Vanadium pentoxide	1314-62-1	100/10,000	1,000	1,000	313c	P120	
Sulfur phosphide	1314-80-3			100		U189	
Zinc phosphide	1314-84-7	500	100	100	313c	P122	
Zinc phosphide (conc. <= 10%)	1314-84-7	500	100	100	313c	U249	
Zinc phosphide (conc. > 10%)	1314-84-7	500	100	100	313c	P122	
Lead sulfide	1314-87-0			10	313c		
2,4,5-T amines	1319-72-8			5,000			
Cresol (mixed isomers)	1319-77-3			100	313	U052	
2,4-D Esters	1320-18-9			100	X		
2,4-D propylene glycol butyl ether ester	1320-18-9			100	313		
Nitrotoluene	1321-12-6			1,000			
Arsenic trioxide	1327-53-3	100/10,000	1	1	313c	P012	
Arsenous oxide	1327-53-3	100/10,000	1	1	313c	P012	
Xylene (mixed isomers)	1330-20-7			100	313	U239	
Zinc borate	1332-07-6			1,000	313c		
Asbestos (friable)	1332-21-4			1	313		
Hydrogen	1333-74-0						10,000
Sodium bifluoride	1333-83-1			100			
Lead subacetate	1335-32-6			10	313c	U146	
Hexachloronaphthalene	1335-87-1				313		
Ammonium hydroxide	1336-21-6			1,000	X		
PCBs	1336-36-3			1	X		
Polychlorinated biphenyls	1336-36-3			1	313		
Methyl ethyl ketone peroxide	1338-23-4			10		U160	
Naphthenic acid	1338-24-5			100			
Ammonium bifluoride	1341-49-7			100			

NAME	CAS/313 Category Codes	Section 302 (EHS) TPQ	Section 304 EHS RQ	CERCLA RQ	Section 313	RCRA CODE	CAA 112(r) TQ
Aluminum oxide (fibrous forms)	1344-28-1				313		
Antimycin A	1397-94-0	1,000/10,000	1,000				
Dinoterb	1420-07-1	500/10,000	500				
2,2'-Bioxirane	1464-53-5	500	10	10	X	U085	
Diepoxybutane	1464-53-5	500	10	10	313	U085	
Trichloro(chloromethyl)silane	1558-25-4	100	100				
Carbofuran phenol	1563-38-8			10		U367	
Carbofuran	1563-66-2	10/10,000	10	10	313	P127	
Benezeneamine, 2,6-dinitro-N,N-dipropyl-4-(trifluoromethyl)-	1582-09-8			10	X		
Trifluralin	1582-09-8			10	313		
Mercuric acetate	1600-27-7	500/10,000	500		313c		
Hydrazine, 1,2-diethyl-	1615-80-1			10		U086	
Ethanesulfonyl chloride, 2-chloro-	1622-32-8	500	500				
Methyl tert-butyl ether	1634-04-4			1,000	313		
Aldicarb sulfone	1646-88-4			100		P203	
1,2-Dichloro-1,1-difluoroethane	1649-08-7				313		
HCFC-132b	1649-08-7				X		
Bromoxynil	1689-84-5				313		
3,5-Dibromo-4-hydroxybenzonitrile	1689-84-5				X		
Bromoxynil octanoate	1689-99-2				313		
Octanoic acid, 2,6-dibromo-4-cyanophenyl ester	1689-99-2				X		
1,1-Dichloro-1-fluoroethane	1717-00-6				313		
HCFC-141b	1717-00-6				X		
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	1746-01-6			1	313!		
Acetone thiosemicarbazide	1752-30-3	1,000/10,000	1,000				
Ammonium thiocyanate	1762-95-4			5,000			
Benzene, 2,4-dichloro-1-(4-nitrophenoxy)-	1836-75-5				X		
Nitrofen	1836-75-5				313		
Benfluralin	1861-40-1				313		
N-Butyl-N-ethyl-2,6-dinitro-4-(trifluoromethyl) benzenamine	1861-40-1				X		
Ammonium benzoate	1863-63-4			5,000			
Hexachloropropene	1888-71-7			1,000		U243	
1,3-Benzenedicarbonitrile, 2,4,5,6-tetrachloro-	1897-45-6				X		
Chlorothalonil	1897-45-6				313		
Paraquat dichloride	1910-42-5	10/10,000	10		313		
Atrazine	1912-24-9				313		
6-Chloro-N-ethyl-N'-(1-methylethyl)-1,3,5-triazine-2,4-diamine	1912-24-9				X		
Dicamba	1918-00-9			1,000	313		
3,6-Dichloro-2-methoxybenzoic acid	1918-00-9			1,000	X		
Picloram	1918-02-1				313		
2-Chloro-N-(1-methylethyl)-N-phenylacetamide	1918-16-7				X		
Propachlor	1918-16-7				313		

NAME	CAS/313 Category Codes	Section 302 (EHS) TPQ	Section 304 EHS RQ	CERCLA RQ	Section 313	RCRA CODE	CAA 112(r) TQ
2,4-D Esters	1928-38-7			100			
2,4-D 2-ethylhexyl ester	1928-43-4				313		
2,4,5-T esters	1928-47-8			1,000			
2,4-D Esters	1928-61-6			100			
2,4-D butoxyethyl ester	1929-73-3			100	313		
2,4-D Esters	1929-73-3			100	X		
2-Chloro-6-(trichloromethyl)pyridine	1929-82-4				X		
Nitrapyrin	1929-82-4				313		
C.I. Direct Black 38	1937-37-7				313		
Chloroxuron	1982-47-4	500/10,000	500				
3,6-Dichloro-2-methoxybenzoic acid, sodium salt	1982-69-0				X		
Sodium dicamba	1982-69-0				313		
Tributyltin fluoride	1983-10-4				313		
Valinomycin	2001-95-8	1,000/10,000	1,000				
2,4,5-T amines	2008-46-0			5,000			
Mercaptodimethur	2032-65-7	500/10,000	10	10	X	P199	
Methiocarb	2032-65-7	500/10,000	10	10	313	P199	
Paraquat methosulfate	2074-50-2	10/10,000	10				
Phenylsilatrane	2097-19-0	100/10,000	100				
EPN	2104-64-5	100/10,000	100				
Tributyltin methacrylate	2155-70-6				313		
Dipotassium endothall	2164-07-0				313		
7-Oxabicyclo(2.2.1)heptane-2,3-dicarboxylic acid, dipotassium salt	2164-07-0				X		
Fluometuron	2164-17-2				313		
Urea, N,N-dimethyl-N'-[3-(trifluoromethyl)phenyl]-	2164-17-2				X		
1H-Azepine-1 carbothioic acid, hexahydro-S-ethyl ester	2212-67-1				X		
Molinate	2212-67-1				313		
Cadmium stearate	2223-93-0	1,000/10,000	1,000		313c		
Thiocarbazide	2231-57-4	1,000/10,000	1,000				
Octachloronaphthalene	2234-13-1				313		
Diglycidyl ether	2238-07-5	1,000	1,000				
Prothoate	2275-18-5	100/10,000	100				
Dimethylamine dicamba	2300-66-5				313		
Carbamothioic acid, bis(1-methylethyl)-S-(2,3-dichloro-2-propenyl)ester	2303-16-4			100	X	U062	
Diallate	2303-16-4			100	313	U062	
Triallate	2303-17-5			100	313	U389	
Propargite	2312-35-8			10	313		
Chinomethionat	2439-01-2				313		
6-Methyl-1,3-dithiolo[4,5-b]quinoxalin-2-one	2439-01-2				X		
Dodecylguanidine monoacetate	2439-10-3				X		
Dodine	2439-10-3				313		
Oxydisulfoton	2497-07-6	500	500				

NAME	CAS/313 Category Codes	Section 302 (EHS) TPQ	Section 304 EHS RQ	CERCLA RQ	Section 313	RCRA CODE	CAA 112(r) TQ
Dimethyl chlorothiophosphate	2524-03-0	500	500		313		
Dimethyl phosphorochloridothioate	2524-03-0	500	500		X		
Formothion	2540-82-1	100	100				
2,4,5-T esters	2545-59-7			1,000			
1,4-Cyclohexane diisocyanate	2556-36-7				313#		
Pentadecylamine	2570-26-5	100/10,000	100				
Phosphorothioic acid, O,O-dimethyl-5-(2-(methylthio)ethyl)ester	2587-90-8	500	500				
C.I. Direct Blue 6	2602-46-2				313		
Promecarb	2631-37-0	500/10,000	1,000	1,000		P201	
Cyanophos	2636-26-2	1,000	1,000				
Azinphos-ethyl	2642-71-9	100/10,000	100				
2,3,5-Trimethylphenyl methylcarbamate	2655-15-4				313		
Phosphonothioic acid, methyl-, O-(4-nitrophenyl) O-phenyl ester	2665-30-7	500	500				
Sulfuryl fluoride	2699-79-8				313		
Vikane	2699-79-8				X		
2,4-D sodium salt	2702-72-9				313		
Phosphonothioic acid, methyl-, O-ethyl O-(4-(methylthio)phenyl) ester	2703-13-1	500	500				
Thallous malonate	2757-18-8	100/10,000	100				
5-(Aminomethyl)-3-isoxazolol	2763-96-4	500/10,000	1,000	1,000		P007	
Muscimol	2763-96-4	500/10,000	1,000	1,000		P007	
Diquat	2764-72-9			1,000			
Endothion	2778-04-3	500/10,000	500				
C.I. Disperse Yellow 3	2832-40-8				313		
2-Chloro-1,1,1,2-tetrafluoroethane	2837-89-0				313		
HCFC-124	2837-89-0				X		
Chlorpyrifos	2921-88-2			1			
Ferric ammonium oxalate	2944-67-4			1,000			
2,4-D chlorocrotyl ester	2971-38-2			100	313		
2,4-D Esters	2971-38-2			100	X		
Ammonium citrate, dibasic	3012-65-5			5,000			
Silane, (4-aminobutyl)diethoxymethyl-	3037-72-7	1,000	1,000				
C.I. Solvent Orange 7	3118-97-6				313		
Ammonium tartrate	3164-29-2			5,000			
4-Chloro-o-toluidine, hydrochloride	3165-93-3			100		U049	
1,5-Naphthalene diisocyanate	3173-72-6				313#		
Cupric nitrate	3251-23-8			100	313c		
Phosphoric acid, dimethyl 4-(methylthio) phenyl ester	3254-63-5	500	500				
1,2,3,4,6,7,8,9-octachlorodibenzo-p-dioxin	3268-87-9				313!		
O,O-Diethyl S-methyl dithiophosphate	3288-58-2			5,000		U087	
2,2-bis(Bromomethyl)-1,3-propanediol	3296-90-0				313		
Temephos	3383-96-8				313		
Zinc carbonate	3486-35-9			1,000	313c		
DDE	3547-04-4			5,000			

NAME	CAS/313 Category Codes	Section 302 (EHS) TPQ	Section 304 EHS RQ	CERCLA RQ	Section 313	RCRA CODE	CAA 112(r) TQ
Sulfoxide, 3-chloropropyl octyl	3569-57-1	500	500				
Benzimidazole, 4,5-dichloro-2-(trifluoromethyl)-	3615-21-2	500/10,000	500				
(4-Chloro-2-methylphenoxy) acetate sodium salt	3653-48-3				X		
Methoxone sodium salt	3653-48-3				313		
Sulfotep	3689-24-5	500	100	100		P109	
Tetraethyldithiopyrophosphate	3689-24-5	500	100	100		P109	
Chlorophacinone	3691-35-8	100/10,000	100				
5-Methylchrysene	3697-24-3				313+		
Amiton oxalate	3734-97-2	100/10,000	100				
Methyl phenkapton	3735-23-7	500	500				
C.I. Food Red 5	3761-53-3				313		
2,4,5-T amines	3813-14-7			5,000			
Fuberidazole	3878-19-1	100/10,000	100				
Bitoscanate	4044-65-9	500/10,000	500				
1-(3-Chloroallyl)-3,5,7-triaza-1-azoniaadamantane chloride	4080-31-3				313		
Isophorone diisocyanate	4098-71-9	500	500		313#		
Phosacetim	4104-14-7	100/10,000	100				
Dichlorosilane	4109-96-0						10,000
Silane, dichloro-	4109-96-0						10,000
4,4'-Diisocyanatodiphenyl ether	4128-73-8				313#		
2-Butenal	4170-30-3	1,000	100	100	X	U053	20,000
Crotonaldehyde	4170-30-3	1,000	100	100	313	U053	20,000
Fluenetil	4301-50-2	100/10,000	100				
Phenol, 2,2'-thiobis[4-chloro-6-methyl-	4418-66-0	100/10,000	100				
N-Nitrosomethylvinylamine	4549-40-0			10	313	P084	
C.I. Acid Green 3	4680-78-8				313		
Hexamethylenediamine, N,N'-dibutyl-	4835-11-4	500	500				
1,1'-Methylene bis(4-isocyanatocyclohexane)	5124-30-1				313#		
Carboxin	5234-68-4				313		
5,6-Dihydro-2-methyl-N-phenyl-1,4-oxathiin-3-carboxamide	5234-68-4				X		
Thiourea, (2-chlorophenyl)-	5344-82-1	100/10,000	100	100		P026	
Dibenzo(a,e)fluoranthene	5385-75-1				313+		
1-Nitropyrene	5522-43-0				313+		
Chlorpyrifos methyl	5598-13-0				313		
O,O-Dimethyl-O-(3,5,6-trichloro-2-pyridyl)phosphorothioate	5598-13-0				X		
Coumatetralyl	5836-29-3	500/10,000	500				
Cupric oxalate	5893-66-3			100	313c		
5-Chloro-3-(1,1-dimethylethyl)-6-methyl-2,4(1H,3H)-pyrimidinedione	5902-51-2				X		
Terbacil	5902-51-2				313		
Ethanol, 2,2'-oxybis-, dicarbamate	5952-26-1			5,000		U395	
Ammonium oxalate	5972-73-6			5,000			
Ammonium oxalate	6009-70-7			5,000			

NAME	CAS/313 Category Codes	Section 302 (EHS) TPQ	Section 304 EHS RQ	CERCLA RQ	Section 313	RCRA CODE	CAA 112(r) TQ
2,4,5-T amines	6369-96-6			5,000			
2,4,5-T amines	6369-97-7			5,000			
C.I. Acid Red 114	6459-94-5				313		
Thallium(I) carbonate	6533-73-9	100/10,000	100	100	313c	U215	
Thallous carbonate	6533-73-9	100/10,000	100	100	313c	U215	
Monocrotophos	6923-22-4	10/10,000	10				
4-Chlorophenyl phenyl ether	7005-72-3			5,000			
N,N'-Bis(1-methylethyl)-6-methylthio-1,3,5-triazine-2,4-diamine	7287-19-6				X		
Prometryn	7287-19-6				313		
Endrin aldehyde	7421-93-4			1			
Lead stearate	7428-48-0			10	313c		
Aluminum (fume or dust)	7429-90-5				313		
Lead	7439-92-1			10	313		
Manganese	7439-96-5				313		
Mercury	7439-97-6			1	313	U151	
Nickel	7440-02-0			100	313		
Silver	7440-22-4			1,000	313		
Sodium	7440-23-5			10			
Thallium	7440-28-0			1,000	313		
Antimony	7440-36-0			5,000	313		
Arsenic	7440-38-2			1	313		
Barium	7440-39-3				313		
Beryllium	7440-41-7			10	313	P015	
Cadmium	7440-43-9			10	313		
Chromium	7440-47-3			5,000	313		
Cobalt	7440-48-4				313		
Copper	7440-50-8			5,000	313		
Vanadium (except when contained in an alloy)	7440-62-2				313		
Zinc (fume or dust)	7440-66-6			1,000	313		
Zinc	7440-66-6			1,000			
Selenium dioxide	7446-08-4			10	313c		
Sulfur dioxide	7446-09-5	500	500				
Sulfur dioxide (anhydrous)	7446-09-5	500	500				5,000
Sulfur trioxide	7446-11-9	100	100				10,000
Lead sulfate	7446-14-2			10	313c		
Thallium(I) sulfate	7446-18-6	100/10,000	100	100	313c	P115	
Thallous sulfate	7446-18-6	100/10,000	100	100	313c	P115	
Lead phosphate	7446-27-7			10	313c	U145	
Cupric chloride	7447-39-4			10	313c		
Mercuric chloride	7487-94-7	500/10,000	500		313c		
Selenium sulfide	7488-56-4			10	313c	U205	
6-Nitrochrysene	7496-02-8				313+		
Titanium chloride (TiCl4) (T-4)-	7550-45-0	100	1,000	1,000	X		2,500
Titanium tetrachloride	7550-45-0	100	1,000	1,000	313		2,500
Sodium phosphate, dibasic	7558-79-4			5,000			
Lithium hydride	7580-67-8	100	100				

NAME	CAS/313 Category Codes	Section 302 (EHS) TPQ	Section 304 EHS RQ	CERCLA RQ	Section 313	RCRA CODE	CAA 112(r) TQ
Sodium phosphate, tribasic	7601-54-9			500			
Sodium arsenate	7631-89-2	1,000/10,000	1	1	313c		
Sodium bisulfite	7631-90-5			5,000			
Sodium nitrite	7632-00-0			100	313		
Borane, trifluoro-	7637-07-2	500	500		X		5,000
Boron trifluoride	7637-07-2	500	500		313		5,000
Lead arsenate	7645-25-2			1	313c		
Zinc chloride	7646-85-7			1,000	313c		
Hydrochloric acid	7647-01-0			5,000			
Hydrochloric acid (conc 37% or greater)	7647-01-0			5,000			15,000
Hydrochloric acid (aerosol forms only)	7647-01-0			5,000	313		
Hydrogen chloride (anhydrous)	7647-01-0	500	5,000	5,000	X		5,000
Hydrogen chloride (gas only)	7647-01-0	500	5,000	5,000	X		5,000
Antimony pentachloride	7647-18-9			1,000			
Phosphoric acid	7664-38-2			5,000			
Hydrofluoric acid	7664-39-3	100	100	100	X	U134	
Hydrofluoric acid (conc. 50% or greater)	7664-39-3	100	100	100	X	U134	1,000
Hydrogen fluoride	7664-39-3	100	100	100	313	U134	
Hydrogen fluoride (anhydrous)	7664-39-3	100	100	100	X	U134	1,000
Ammonia	7664-41-7	500	100	100			
Ammonia (anhydrous)	7664-41-7	500	100	100	X		10,000
Ammonia (conc 20% or greater)	7664-41-7			See ammonium hydroxide	X		20,000
Ammonia (includes anhydrous ammonia and aqueous ammonia from water dissociable ammonium salts and other sources; 10 percent of total aqueous ammonia is reportable under this listing)	7664-41-7				313		
Sulfuric acid (aerosol forms only)	7664-93-9	1,000	1,000	1,000	313		
Sulfuric acid	7664-93-9	1,000	1,000	1,000			
Sodium fluoride	7681-49-4			1,000			
Sodium hypochlorite	7681-52-9			100			
2,2-Dimethyl-3-(2-methyl-1-propenyl)cyclopropanecarboxylic acid (1,3,4,5,6,7-hexahydro-1,3-dioxo-2H-isoindol-2-yl)methyl ester	7696-12-0				X		
Tetramethrin	7696-12-0				313		
Nitric acid	7697-37-2	1,000	1,000	1,000	313		
Nitric acid (conc 80% or greater)	7697-37-2	1,000	1,000	1,000	X		15,000
Zinc bromide	7699-45-8			1,000	313c		
Ferric chloride	7705-08-0			1,000			
Nickel chloride	7718-54-9			100	313c		
Phosphorous trichloride	7719-12-2	1,000	1,000	1,000			15,000
Phosphorus trichloride	7719-12-2	1,000	1,000	1,000			15,000
Ferrous sulfate	7720-78-7			1,000			
Potassium permanganate	7722-64-7			100	313c		
Hydrogen peroxide (Conc.> 52%)	7722-84-1	1,000	1,000				
Phosphorus (yellow or white)	7723-14-0	100	1	1	313		

NAME	CAS/313 Category Codes	Section 302 (EHS) TPQ	Section 304 EHS RQ	CERCLA RQ	Section 313	RCRA CODE	CAA 112(r) TQ
Phosphorus	7723-14-0	100	1	1			
Bromine	7726-95-6	500	500		313		10,000
Zinc sulfate	7733-02-0			1,000	313c		
Chromic acid	7738-94-5			10	313c		
Potassium bromate	7758-01-2				313		
Ferrous chloride	7758-94-3			100			
Lead chloride	7758-95-4			10	313c		
Cupric sulfate	7758-98-7			10	313c		
Silver nitrate	7761-88-8			1	313c		
Ammonium sulfamate	7773-06-0			5,000			
Sodium chromate	7775-11-3			10	313c		
Arsenic acid	7778-39-4			1	313c	P010	
Calcium arsenate	7778-44-1	500/10,000	1	1	313c		
Potassium bichromate	7778-50-9			10	313c		
Calcium hypochlorite	7778-54-3			10			
Zinc hydrosulfite	7779-86-4			1,000	313c		
Zinc nitrate	7779-88-6			1,000	313c		
Fluorine	7782-41-4	500	10	10	313	P056	1,000
Selenium	7782-49-2			100	313		
Chlorine	7782-50-5	100	10	10	313		2,500
Ferrous sulfate	7782-63-0			1,000			
Sodium selenite	7782-82-3			100	313c		
Mercurous nitrate	7782-86-7			10	313c		
Selenious acid	7783-00-8	1,000/10,000	10	10	313c	U204	
Hydrogen sulfide	7783-06-4	500	100	100	313	U135	10,000
Hydrogen selenide	7783-07-5	10	10		313c		500
Mercuric sulfate	7783-35-9			10	313c		
Lead fluoride	7783-46-2			10	313c		
Zinc fluoride	7783-49-5			1,000	313c		
Ferric fluoride	7783-50-8			100			
Antimony trifluoride	7783-56-4			1,000	313c		
Sulfur fluoride (SF4), (T-4)-	7783-60-0	100	100				2,500
Sulfur tetrafluoride	7783-60-0	100	100				2,500
Antimony pentafluoride	7783-70-2	500	500		313c		
Tellurium hexafluoride	7783-80-4	100	100				
Arsenous trichloride	7784-34-1	500	1	1	313c		15,000
Lead arsenate	7784-40-9			1	313c		
Potassium arsenate	7784-41-0			1	313c		
Arsine	7784-42-1	100	100				1,000
Sodium arsenite	7784-46-5	500/10,000	1	1	313c		
Mevinphos	7786-34-7	500	10	10	313		
Nickel sulfate	7786-81-4			100	313c		
Beryllium chloride	7787-47-5			1	313c		
Beryllium fluoride	7787-49-7			1	313c		
Beryllium nitrate	7787-55-5			1	313c		
Ammonium chromate	7788-98-9			10	313c		
Potassium chromate	7789-00-6			10	313c		
Strontium chromate	7789-06-2			10	313c		

NAME	CAS/313 Category Codes	Section 302 (EHS) TPQ	Section 304 EHS RQ	CERCLA RQ	Section 313	RCRA CODE	CAA 112(r) TQ
Ammonium bichromate	7789-09-5			10	313c		
Cadmium bromide	7789-42-6			10	313c		
Cobaltous bromide	7789-43-7			1,000	313c		
Antimony tribromide	7789-61-9			1,000	313c		
Chlorosulfonic acid	7790-94-5			1,000			
Thallium chloride TlCl	7791-12-0	100/10,000	100	100	313c	U216	
Thallous chloride	7791-12-0	100/10,000	100	100	313c	U216	
Chlorine monoxide	7791-21-1						10,000
Chlorine oxide	7791-21-1						10,000
Selenium oxychloride	7791-23-3	500	500		313c		
Phosphine	7803-51-2	500	100	100	313	P096	5,000
Ammonium vanadate	7803-55-6			1,000	313c	P119	
Silane	7803-62-5						10,000
Camphechlor	8001-35-2	500/10,000	1	1	X	P123	
Camphene, octachloro-	8001-35-2	500/10,000	1	1	X	P123	
Toxaphene	8001-35-2	500/10,000	1	1	313	P123	
Creosote	8001-58-9				313		
Dichloropropane - Dichloropropene (mixture)	8003-19-8			100			
Pyrethrins	8003-34-7			1			
Oleum (fuming sulfuric acid)	8014-95-7			1,000			10,000
Sulfuric acid (fuming)	8014-95-7			1,000			10,000
Sulfuric acid, mixture with sulfur trioxide	8014-95-7			1,000			10,000
Demeton	8065-48-3	500	500				
Metiram	9006-42-2				313		
Polymeric diphenylmethane diisocyanate	9016-87-9				313#		
Sodium hypochlorite	10022-70-5			100			
Sulfur monochloride	[1]10025-67-9			1,000			
Chromic chloride	10025-73-7	1/10,000	1		313c		
Silane, trichloro-	10025-78-2						10,000
Trichlorosilane	10025-78-2						10,000
Phosphorus oxychloride	10025-87-3	500	1,000	1,000			5,000
Phosphoryl chloride	10025-87-3	500	1,000	1,000			5,000
Antimony trichloride	10025-91-9			1,000	313c		
Zirconium tetrachloride	10026-11-6			5,000			
Phosphorus pentachloride	10026-13-8	500	500				
Ozone	10028-15-6	100	100		313		
Ferric sulfate	10028-22-5			1,000			
Thallium sulfate	10031-59-1	100/10,000	100	100	313c		
Hydrazine sulfate	10034-93-2				313		
Sodium phosphate, dibasic	10039-32-4			5,000			
Aluminum sulfate	10043-01-3			5,000			
Ferrous ammonium sulfate	10045-89-3			1,000			
Mercuric nitrate	10045-94-0			10	313c		

[1] This is correct CAS number but not the same CAS number used on the CERCLA list. See Introduction for further explanation.

NAME	CAS/313 Category Codes	Section 302 (EHS) TPQ	Section 304 EHS RQ	CERCLA RQ	Section 313	RCRA CODE	CAA 112(r) TQ
Chlorine dioxide	10049-04-4				313		1,000
Chlorine oxide (ClO2)	10049-04-4				X		1,000
Chromous chloride	10049-05-5			1,000	313c		
trans-1,3-Dichloropropene	10061-02-6				313		
Lead nitrate	10099-74-8			10	313c		
Chromic sulfate	10101-53-8			1,000	313c		
Lead iodide	10101-63-0			10	313c		
Sodium phosphate, tribasic	10101-89-0			5,000			
Uranyl nitrate	10102-06-4			100			
Sodium selenite	10102-18-8	100/10,000	100	100	313c		
Sodium tellurite	10102-20-2	500/10,000	500				
Nitric oxide	10102-43-9	100	10	10 @		P076	10,000
Nitrogen oxide (NO)	10102-43-9	100	10	10 @		P076	10,000
Nitrogen dioxide	10102-44-0	100	10	10 @		P078	
Thallium(I) nitrate	10102-45-1			100	313c	U217	
Lead arsenate	10102-48-4			1	313c		
Cadmium chloride	10108-64-2			10	313c		
Potassium arsenite	10124-50-2	500/10,000	1	1	313c		
Sodium phosphate, dibasic	10140-65-5			5,000			
Ethanol, 1,2-dichloro-, acetate	10140-87-1	1,000	1,000				
Ammonium bisulfite	10192-30-0			5,000			
Ammonium sulfite	10196-04-0			5,000			
Cobalt carbonyl	10210-68-1	10/10,000	10		313c		
2,2-Dibromo-3-nitrilopropionamide	10222-01-2				313s		
Methamidophos	10265-92-6	100/10,000	100				
Borane, trichloro-	10294-34-5	500	500		X		5,000
Boron trichloride	10294-34-5	500	500		313		5,000
Dialifor	10311-84-9	100/10,000	100				
1,4-Bis(methylisocyanate)cyclohexane	10347-54-3				313#		
Sodium phosphate, tribasic	10361-89-4			5,000			
Cupric sulfate, ammoniated	10380-29-7			100	313c		
Mercurous nitrate	10415-75-5			10	313c		
Ferric nitrate	10421-48-4			1,000			
5-(Phenylmethyl)-3-furanyl)methyl 2,2-dimethyl-3-(2-methyl-1-propenyl)cyclopropanecarboxylate	10453-86-8				X		
Resmethrin	10453-86-8				313		
Methacrolein diacetate	10476-95-6	1,000	1,000				
Nitrogen dioxide	10544-72-6			10 @			
Sodium bichromate	10588-01-9			10	313c		
Carbendazim	10605-21-7			10		U372	
Isononylphenol	11066-49-2				313$		
Aroclor 1260	11096-82-5			1			
Aroclor 1254	11097-69-1			1			
Aroclor 1221	11104-28-2			1			
Chromic acid	11115-74-5			10	313c		
Aroclor 1232	11141-16-5			1			
Cupric acetoarsenite	12002-03-8	500/10,000	1	1	313c		

NAME	CAS/313 Category Codes	Section 302 (EHS) TPQ	Section 304 EHS RQ	CERCLA RQ	Section 313	RCRA CODE	CAA 112(r) TQ
Paris green	12002-03-8	500/10,000	1	1			
Selenious acid, dithallium(1+) salt	12039-52-0			1,000	313c	P114	
Nickel hydroxide	12054-48-7			10	313c		
Manganese, tricarbonyl methylcyclopentadienyl	12108-13-3	100	100		313c		
Carbamodithioic acid, 1,2-ethanediylbis-, zinc complex	12122-67-7				X		
Zineb	12122-67-7				313		
Ammonium fluoride	12125-01-8			100			
Ammonium chloride	12125-02-9			5,000			
Ammonium sulfide	12135-76-1			100			
Carbamodithioic acid, 1,2-ethanediylbis-, manganese complex	12427-38-2				X		
Maneb	12427-38-2				313		
Aroclor 1248	12672-29-6			1			
Aroclor 1016	12674-11-2			1			
Sulfur monochloride	[2]12771-08-3			1,000			
Terbufos	13071-79-9	100	100				
Phosphamidon	13171-21-6	100	100				
Ethoprop	13194-48-4	1,000	1,000		313		
Ethoprophos	13194-48-4	1,000	1,000		X		
Phosphorodithioic acid O-ethyl S,S-dipropyl ester	13194-48-4	1,000	1,000		X		
Fenbutatin oxide	13356-08-6				313		
Hexakis(2-methyl-2-phenylpropyl)distannoxane	13356-08-6				X		
Sodium selenate	13410-01-0	100/10,000	100		313c		
Gallium trichloride	13450-90-3	500/10,000	500				
Nickel carbonyl	13463-39-3	1	10	10	313c	P073	1,000
Iron carbonyl (Fe(CO)5), (TB-5-11)-	13463-40-6	100	100		X		2,500
Iron, pentacarbonyl-	13463-40-6	100	100		313		2,500
1,1-Dichloro-1,2,2,3,3-pentafluoropropane	13474-88-9				313		
HCFC-225cc	13474-88-9				X		
2,4,5-T salts	13560-99-1			1,000			
Beryllium nitrate	13597-99-4			1	313c		
Desmedipham	13684-56-5				313		
Zirconium nitrate	13746-89-9			5,000			
Calcium chromate	13765-19-0			10	313c	U032	
Lead fluoborate	13814-96-5			10	313c		
Ammonium fluoborate	13826-83-0			5,000			
sec-Butylamine	13952-84-6			1,000			
Cobaltous sulfamate	14017-41-5			1,000	313c		
Salcomine	14167-18-1	500/10,000	500				
Nickel nitrate	14216-75-2			100	313c		
Ammonium oxalate	14258-49-2			5,000			
Lithium chromate	14307-35-8			10	313c		

[2] CAS Number should be 10025-67-9. See Introduction for further explanation.

NAME	CAS/313 Category Codes	Section 302 (EHS) TPQ	Section 304 EHS RQ	CERCLA RQ	Section 313	RCRA CODE	CAA 112(r) TQ
Ammonium tartrate	14307-43-8			5,000			
Ferbam	14484-64-1				313		
Tris(dimethylcarbamodithioato-S,S')iron	14484-64-1				X		
Zinc ammonium chloride	14639-97-5			1,000	313c		
Zinc ammonium chloride	14639-98-6			1,000	313c		
Zirconium sulfate	14644-61-2			5,000			
Bicyclo[2.2.1]heptane-2-carbonitrile, 5-chloro-6-((((methylamino)carbonyl)oxy)imino)-,(1-alpha,2-beta,4-alpha,5-alpha,6E))-	15271-41-7	500/10,000	500				
Manganese, bis(dimethylcarbamodithioato-S,S')-	15339-36-3			10	313c	P196	
2,4,4-Trimethylhexamethylene diisocyanate	15646-96-5				313#		
Nickel ammonium sulfate	15699-18-0			100	313c		
Lead sulfate	15739-80-7			10	313c		
2,3,4-Trichlorophenol	15950-66-0			10	313c		
Alachlor	15972-60-8				313		
C.I. Direct Brown 95	16071-86-6				313		
N-Nitrosonornicotine	16543-55-8				313		
Sodium hydrosulfide	16721-80-5			5,000			
Ethanimidothioic acid, N-[[methylamino)carbonyl]	16752-77-5	500/10,000	100	100		P066	
Methomyl	16752-77-5	500/10,000	100	100		P066	
Zinc silicofluoride	16871-71-9			5,000	313c		
Ammonium silicofluoride	16919-19-0			1,000			
Zirconium potassium fluoride	16923-95-8			1,000			
2,2,4-Trimethylhexamethylene diisocyanate	16938-22-0				313#		
Decaborane(14)	17702-41-9	500/10,000	500				
Formparanate	17702-57-7	100/10,000	100	100		P197	
Benomyl	17804-35-2			10	313	U271	
Streptozotocin	18883-66-4			1		U206	
4-(Dipropylamino)-3,5-dinitrobenzenesulfonamide	19044-88-3				X		
Oryzalin	19044-88-3				313		
Diborane	19287-45-7	100	100				2,500
Diborane(6)	19287-45-7	100	100				2,500
1,2,3,7,8,9-hexachlorodibenzo-p-dioxin	19408-74-3				313!		
Pentaborane	19624-22-7	500	500				
3-(2,4-Dichloro-5-(1-methylethoxy)phenyl)-5-(1,1-dimethylethyl)-1,3,4-oxadiazol-2(3H)-one	19666-30-9				X		
Oxydiazon	19666-30-9				313		
o-Dianisidine dihydrochloride	20325-40-0				X		
3,3'-Dimethoxybenzidine dihydrochloride	20325-40-0				313		

NAME	CAS/313 Category Codes	Section 302 (EHS) TPQ	Section 304 EHS RQ	CERCLA RQ	Section 313	RCRA CODE	CAA 112(r) TQ
2-(3,4-Dichlorophenyl)-4-methyl-1,2,4-oxadiazolidine-3,5-dione	20354-26-1				X		
Methazole	20354-26-1				313		
Osmium oxide OsO4 (T-4)-	20816-12-0			1,000	X	P087	
Osmium tetroxide	20816-12-0			1,000	313	P087	
Digoxin	20830-75-5	10/10,000	10				
Daunomycin	20830-81-3			10		U059	
Aluminum phosphide	20859-73-8	500	100	100	313	P006	
Metribuzin	21087-64-9				313		
Fosthietan	21548-32-3	500	500				
Leptophos	21609-90-5	500/10,000	500				
Cyanazine	21725-46-2				313		
Mercuric oxide	21908-53-2	500/10,000	500		313c		
Chlorthiophos	21923-23-9	500	500				
Fenamiphos	22224-92-6	10/10,000	10				
Bendiocarb	22781-23-3			100	313	U278	
2,2-Dimethyl-1,3-benzodioxol-4-ol methylcarbamate	22781-23-3			100	X	U278	
Bendiocarb phenol	22961-82-6			1,000		U364	
Oxamyl	23135-22-0	100/10,000	100	100		P194	
Formetanate hydrochloride	23422-53-9	500/10,000	100	100		P198	
Pirimifos-ethyl	23505-41-1	1,000	1,000				
Thiophanate-methyl	23564-05-8			10	313	U409	
(1,2-Phenylenebis(iminocarbonothioyl)) biscarbamic acid diethyl ester	23564-06-9				X		
Thiophanate ethyl	23564-06-9				313		
Benzamide, 3,5-dichloro-N-(1,1-dimethyl-2-propynyl	23950-58-5			5,000	X	U192	
Pronamide	23950-58-5			5,000	313	U192	
Triazofos	24017-47-8	500	500				
Chlormephos	24934-91-6	500	500				
Nonylphenol	25154-52-3				313$		
Dinitrobenzene (mixed isomers)	25154-54-5			100			
Nitrophenol (mixed isomers)	25154-55-6			100			
Sodium dodecylbenzenesulfonate	25155-30-0			1,000			
Butene	25167-67-3						10,000
Trichlorophenol	25167-82-2			10	313c		
2,4,5-T esters	25168-15-4			1,000			
2,4-D Esters	25168-26-7			100			
2-((Ethoxyl((1-methylethyl)amino]phosphinothioyl]oxy) benzoic acid 1-methylethyl ester	25311-71-1				X		
Isofenphos	25311-71-1				313		
Dinitrotoluene (mixed isomers)	25321-14-6			10	313		
Dichlorobenzene	25321-22-6			100	X		
Dichlorobenzene (mixed isomers)	25321-22-6			100	313		
Diaminotoluene (mixed isomers)	25376-45-8			10	313	U221	
Toluenediamine	25376-45-8			10	X	U221	

NAME	CAS/313 Category Codes	Section 302 (EHS) TPQ	Section 304 EHS RQ	CERCLA RQ	Section 313	RCRA CODE	CAA 112(r) TQ
Dinitrophenol	25550-58-7			10			
2,2-Dimethyl-3-(2-methyl-1-propenyl)cyclopropanecarboxylic acid (3-phenoxyphenyl)methyl ester	26002-80-2				X		
Phenothrin	26002-80-2				313		
Calcium dodecylbenzenesulfonate	26264-06-2			1,000			
Carbamic acid, methyl-, O-(((2,4-dimethyl-1,3-dithiolan-2-yl)methylene)amino)-	26419-73-8	100/10,000	100	100		P185	
Benzene, 1,3-diisocyanatomethyl-	26471-62-5			100	X	U223	10,000
Toluenediisocyanate (mixed isomers)	26471-62-5			100	313	U223	10,000
Toluene diisocyanate (unspecified isomer)	26471-62-5			100	X	U223	10,000
4-Isononylphenol	26543-97-5				313$		
Sodium azide (Na(N3))	26628-22-8	500	1,000	1,000	313	P105	
Dichloropropane	26638-19-7			1,000			
N,N'-(1,4-Piperazinediylbis(2,2,2-trichloroethylidene)) bisformamide	26644-46-2				X		
Triforine	26644-46-2				313		
Dichloropropene	26952-23-8			100			
Trichloro(dichlorophenyl)silane	27137-85-5	500	500				
Dodecylbenzenesulfonic acid	27176-87-0			1,000			
4-Chloro-5-(methylamino)-2-[3-(trifluoromethyl)phenyl]-3(2H)-pyridazinone	27314-13-2				X		
Norflurazon	27314-13-2				313		
Triethanolamine dodecylbenzene sulfonate	27323-41-7			1,000			
Vanadyl sulfate	27774-13-6			1,000	313c		
d-trans-Allethrin	28057-48-9				313		
d-trans-Chrysanthemic acid of d-allethrone	28057-48-9				X		
Carbamic acid, diethylthio-, S-(p-chlorobenzyl)	28249-77-6				X		
Thiobencarb	28249-77-6				313		
Antimony potassium tartrate	28300-74-5			100	313c		
Xylylene dichloride	28347-13-9	100/10,000	100				
C.I. Direct Blue 218	28407-37-6				313		
Bromadiolone	28772-56-7	100/10,000	100				
Octachlorostyrene	29082-74-4				313		
O-(2-(Diethylamino)-6-methyl-4-pyrimidinyl)-O,O-dimethyl phosphorothioate	29232-93-7				X		
Pirimiphos methyl	29232-93-7				313		
Paraformaldehyde	30525-89-4			1,000			
Ethanimidothioic acid, 2-(dimethylamino)-N-hydroxy-2-oxo-, methyl ester	30558-43-1			5,000		U394	
Acephate	30560-19-1				313		
Acetylphosphoramidothioic acid O,S-dimethyl ester	30560-19-1				X		

NAME	CAS/313 Category Codes	Section 302 (EHS) TPQ	Section 304 EHS RQ	CERCLA RQ	Section 313	RCRA CODE	CAA 112(r) TQ
Methacryloyloxyethyl isocyanate	30674-80-7	100	100				
3-((Ethylamino)methoxyphosphinothioyl)oxy)-2-butenoic acid, 1-methylethyl ester	31218-83-4				X		
Propetamphos	31218-83-4				313		
2,4,5-TP esters	32534-95-5			100			
Amitraz	33089-61-1				313		
beta - Endosulfan	33213-65-9			1			
N-(5-(1,1-Dimethylethyl)-1,3,4-thiadiazol-2-yl)-N,N'-dimethylurea	34014-18-1				X		
Tebuthiuron	34014-18-1				313		
Dichlorotrifluoroethane	34077-87-7				313		
Diflubenzuron	35367-38-5				313		
O-Ethyl O-(4-(methylthio)phenyl)phosphorodithioic acid S-propyl ester	35400-43-2				X		
Sulprofos	35400-43-2				313		
1-(2-(2,4-Dichlorophenyl)-2-(2-propenyloxy)ethyl)-1H-imidazole	35554-44-0				X		
Imazalil	35554-44-0				313		
1-Bromo-1-(bromomethyl)-1,3-propanedicarbonitrile	35691-65-7				313		
1,2,3,4,6,7,8-heptachlorodibenzo-p-dioxin	35822-46-9				313!		
Uranyl nitrate	36478-76-9			100			
Nickel chloride	37211-05-5			100	313c		
1,3-Bis(methylisocyanate)cyclohexane	38661-72-2				313#		
Diethatyl ethyl	38727-55-8				313		
1,2,3,4,6,7,8,9-octachlorodibenzofuran	39001-02-0				313!		
2,4-Diaminoanisole sulfate	39156-41-7				313		
Thiofanox	39196-18-4	100/10,000	100	100		P045	
1,2,3,4,7,8-hexachlorodibenzo-p-dioxin	39227-28-6				313!		
Dinocap	39300-45-3				313		
Fenpropathrin	39515-41-8				313		
2,2,3,3-Tetramethylcyclopropane carboxylic acid cyano(3-phenoxyphenyl)methyl ester	39515-41-8				X		
1,2,3,7,8-pentachlorodibenzo-p-dioxin	40321-76-4				313!		
N-(1-Ethylpropyl)-3,4-dimethyl-2,6-dinitrobenzenamine	40487-42-1				X		
Pendimethalin	40487-42-1				313		
O-(4-Bromo-2-chlorophenyl)-O-ethyl-S-propylphosphorothioate	41198-08-7				X		
Profenofos	41198-08-7				313		
3,3'-Dimethylbenzidine dihydrofluoride	41766-75-0				313		
o-Tolidine dihydrofluoride	41766-75-0				X		
1,6-Dinitropyrene	42397-64-8				313+		

NAME	CAS/313 Category Codes	Section 302 (EHS) TPQ	Section 304 EHS RQ	CERCLA RQ	Section 313	RCRA CODE	CAA 112(r) TQ
1,8-Dinitropyrene	42397-65-9				313+		
Isopropanolamine dodecylbenzene sulfonate	42504-46-1			1,000			
Oxyfluorfen	42874-03-3				313		
1-(4-Chlorophenoxy)-3,3-dimethyl-1-(1H-1,2,4-triazol-1-yl)-2-butanone	43121-43-3				X		
Triadimefon	43121-43-3				313		
3-(3,5-Dichlorophenyl)-5-ethenyl-5-methyl-2,4-oxazolidinedione	50471-44-8				X		
Vinclozolin	50471-44-8				313		
Phosphonothioic acid, methyl-, S-(2-(bis(1-methylethyl)amino)ethyl) O-ethyl ester	50782-69-9	100	100				
2,3,7,8-tetrachlorodibenzofuran	51207-31-9				313!		
Hexazinone	51235-04-2				313		
2-(4-(2,4-Dichlorophenoxy)phenoxy)propanoic acid, methyl ester	51338-27-3				X		
Diclofop methyl	51338-27-3				313		
4-Chloro-alpha-(1-methylethyl)benzeneacetic acid cyano(3-phenoxyphenyl)methyl ester	51630-58-1				X		
Fenvalerate	51630-58-1				313		
Zinc ammonium chloride	52628-25-8			1,000	313c		
3-(2,2-Dichloroethenyl)-2,2-dimethylcyclopropane carboxylic acid, (3-phenoxy-phenyl)methyl ester	52645-53-1				X		
Permethrin	52645-53-1				313		
Lead stearate	52652-59-2			10	313c		
Calcium arsenite	52740-16-6			1	313c		
Carbamothioic acid, dipropyl-, S-(phenylmethyl) ester	52888-80-9			5,000		U387	
Bromacil, lithium salt	53404-19-6				313		
2,4-(1H,3H)-Pyrimidinedione, 5-bromo-6-methyl-3-(1-methylpropyl), lithium salt	53404-19-6				X		
2,4-D 2-ethyl-4-methylpentyl ester	53404-37-8				313		
Dazomet, sodium salt	53404-60-7				313		
Tetrahydro-3,5-dimethyl-2H-1,3,5-thiadiazine-2-thione, ion(1-), sodium	53404-60-7				X		
2,4-D Esters	53467-11-1			100			
Aroclor 1242	53469-21-9			1			
Pyriminil	53558-25-1	100/10,000	100				
Carbosulfan	55285-14-8			1,000		P189	
2,3,-Dihydro-5,6-dimethyl-1,4-dithiin 1,1,4,4-tetraoxide	55290-64-7				X		
Dimethipin	55290-64-7				313		
3-Iodo-2-propynyl butylcarbamate	55406-53-6				313		
Ferric ammonium oxalate	55488-87-4			1,000			
1,2,3,4,7,8,9-heptachlorodibenzofuran	55673-89-7				313!		
Lead stearate	56189-09-4			10	313c		

NAME	CAS/313 Category Codes	Section 302 (EHS) TPQ	Section 304 EHS RQ	CERCLA RQ	Section 313	RCRA CODE	CAA 112(r) TQ
2,3,4,7,8-pentachlorodibenzofuran	57117-31-4				313!		
1,2,3,7,8-pentachlorodibenzofuran	57117-41-6				313!		
1,2,3,6,7,8-hexachlorodibenzofuran	57117-44-9				313!		
Triclopyr triethylammonium salt	57213-69-1				313		
1,2,3,6,7,8-hexachlorodibenzo-p-dioxin	57653-85-7				313!		
4–Nitropyrene	57835-92-4				313+		
Zinc, dichloro(4,4-dimethyl-5((((methylamino)carbonyl)oxy)imino) pentanenitrile)-, (T-4)-	58270-08-9	100/10,000	100		313c		
Thiodicarb	59669-26-0			100	313	U410	
.alpha.-(2-Chlorophenyl)-.alpha.-4-chlorophenyl)-5-pyrimidinemethanol	60168-88-9				X		
Fenarimol	60168-88-9				313		
1-(2-(2,4-Dichlorophenyl)-4-propyl-1,3-dioxolan-2-yl)-methyl-1H-1,2,4,-triazole	60207-90-1				X		
Propiconazole	60207-90-1				313		
2,3,4,6,7,8-hexachlorodibenzofuran	60851-34-5				313!		
2,4,5-T esters	61792-07-2			1,000			
Cobalt, ((2,2'-(1,2-ethanediylbis(nitrilomethylidyne))bis(6-fluorophenylato))(2-)-N,N',O,O')-	62207-76-5	100/10,000	100		313c		
Acifluorfen, sodium salt	62476-59-9				313		
5-(2-Chloro-4-(trifluoromethyl)phenoxy)-2-nitrobenzoic acid, sodium salt	62476-59-9				X		
Chlorotetrafluoroethane	63938-10-3				313		
2-Chloro-N-(((4-methoxy-6-methyl-1,3,5-triazin-2-yl)amino]carbonyl)benzenesulfonamide	64902-72-3				X		
Chlorsulfuron	64902-72-3				313		
3,3'-Dichlorobenzidine sulfate	64969-34-2				313		
2-(4-((6-Chloro-2-benzoxazolylen)oxy)phenoxy)propanoic acid, ethyl ester	66441-23-4				X		
Fenoxaprop ethyl	66441-23-4				313		
Hydramethylnon	67485-29-4				313		
Tetrahydro-5,5-dimethyl-2(1H)-pyrimidinone(3-(4-(trifluoromethyl)phenyl)-1-(2-(4-(trifluoromethyl)phenyl)ethenyl)-2-propenylidene)hydrazone	67485-29-4				X		
1,2,3,4,6,7,8-heptachlorodibenzofuran	67562-39-4				313!		
3-(2-Chloro-3,3,3-trifluoro-1-propenyl)-2,2-dimethylcyclopropanecarboxylic acid cyano(3-phenoxyphenyl) methyl ester	68085-85-8				X		
Cyhalothrin	68085-85-8				313		
Cyfluthrin	68359-37-5				313		

NAME	CAS/313 Category Codes	Section 302 (EHS) TPQ	Section 304 EHS RQ	CERCLA RQ	Section 313	RCRA CODE	CAA 112(r) TQ
3-(2,2-Dichloroethenyl)-2,2-dimethylcyclopropanecarboxylic acid, cyano(4-fluoro-3-phenoxyphenyl)methyl ester	68359-37-5				X		
N-(2-Chloro-4-(trifluoromethyl)phenyl)-DL-valine(+)-cyano(3-phenoxyphenyl)methyl ester	69409-94-5				X		
Fluvalinate	69409-94-5				313		
Fluazifop butyl	69806-50-4				313		
2-(4-((5-(Trifluoromethyl)-2-pyridinyl)oxy)-phenoxy)propanoic acid, butyl ester	69806-50-4				X		
1,2,3,4,7,8-hexachlorodibenzofuran	70648-26-9				313!		
Abamectin	71751-41-2				313		
Avermectin B1	71751-41-2				X		
5-(2-Chloro-4-(trifluoromethyl)phenoxy)-N-methylsulfonyl)-2-nitrobenzamide	72178-02-0				X		
Fomesafen	72178-02-0				313		
Fenoxycarb	72490-01-8				313		
(2-(4-Phenoxyphenoxy)ethyl carbamic acid ethyl ester	72490-01-8				X		
1,2,3,7,8,9-hexachlorodibenzofuran	72918-21-9				313!		
2-(1-(Ethoxyimino) butyl)-5-(2-(ethylthio)propyl)-3-hydroxyl-2-cyclohexen-1-one	74051-80-2				X		
Sethoxydim	74051-80-2				313		
4-Methyldiphenylmethane-3,4-diisocyanate	75790-84-0				313#		
2,4'-Diisocyanatodiphenyl sulfide	75790-87-3				313#		
2-(4-((6-Chloro-2-quinoxalinyl)oxy]phenoxy) propanoic acid ethyl ester	76578-14-8				X		
Quizalofop-ethyl	76578-14-8				313		
Benzoic acid, 5-(2-chloro-4-(trifluoromethyl)phenoxy)-2-nitro-, 2-ethoxy-1-methyl-2-oxethyl ester	77501-63-4				313		
5-(2-Chloro-4-(trifluoromethyl)phenoxy)-2-nitro-2-ethoxy-1-methyl-2-oxoethyl ester	77501-63-4				X		
Lactofen	77501-63-4				313		
Bifenthrin	82657-04-3				313		
4-Nonylphenol, branched	84852-15-3				313$		
.alpha.-Butyl-.alpha.-(4-chlorophenyl)-1H-1,2,4-triazole-1-propanenitrile	88671-89-0				X		
Myclobutanil	88671-89-0				313		
Dichloro-1,1,2-trifluoroethane	90454-18-5				313		
Nonylphenol, branched	90481-04-2				313$		
Chlorimuron ethyl	90982-32-4				313		
Ethyl-2-(((((4-chloro-6-methoxyprimidin-2-yl)amino)carbonyl)amino)sulfonyl)ben	90982-32-4				X		

NAME	CAS/313 Category Codes	Section 302 (EHS) TPQ	Section 304 EHS RQ	CERCLA RQ	Section 313	RCRA CODE	CAA 112(r) TQ
zoate							
2-(4-Methoxy-6-methyl-1,3,5-triazin-2-yl)-methylamino)carbonyl)amino)sulfonyl) benzoic acid, methyl ester	101200-48-0				X		
Tribenuron methyl	101200-48-0				313		
1,1-Dichloro-1,2,3,3,3-pentafluoropropane	111512-56-2				313		
HCFC-225eb	111512-56-2				X		
o-Dianisidine hydrochloride	111984-09-9				X		
3,3'-Dimethoxybenzidine hydrochloride	111984-09-9				313		
Dichloropentafluoropropane	127564-92-5				313		
2,2-Dichloro-1,1,1,3,3-pentafluoropropane	128903-21-9				313		
HCFC-225aa	128903-21-9				X		
Diethyldiisocyanatobenzene	134190-37-7				313#		
1,3-Dichloro-1,1,2,3,3-pentafluoropropane	136013-79-1				313		
HCFC-225ea	136013-79-1				X		

APPENDIX A

LIST OF LISTS
CONSOLIDATED LIST OF CHEMICALS (BY ALPHBETICAL NAME) SUBJECT TO EPCRA, CERCLA AND CAA SECTION 112(r)

NAME	CAS/313 Category Codes	Section 302 (EHS) TPQ	Section 304 EHS RQ	CERCLA RQ	Section 313	RCRA CODE	CAA 112(r) TQ
Abamectin	71751-41-2				313		
Acenaphthene	83-32-9			100			
Acenaphthylene	208-96-8			5,000			
Acephate	30560-19-1				313		
Acetaldehyde	75-07-0			1,000	313	U001	10,000
Acetaldehyde, trichloro-	75-87-6			5,000		U034	
Acetamide	60-35-5			100	313		
Acetic acid	64-19-7			5,000			
Acetic acid, (2,4-dichlorophenoxy)-	94-75-7			100	X	U240	
Acetic acid ethenyl ester	108-05-4	1,000	5,000	5,000	X		15,000
Acetic anhydride	108-24-7			5,000			
Acetone	67-64-1			5,000		U002	
Acetone cyanohydrin	75-86-5	1,000	10	10	X	P069	
Acetone thiosemicarbazide	1752-30-3	1,000/10,000	1,000				
Acetonitrile	75-05-8			5,000	313	U003	
Acetophenone	98-86-2			5,000	313	U004	
2-Acetylaminofluorene	53-96-3			1	313	U005	
Acetyl bromide	506-96-7			5,000			
Acetyl chloride	75-36-5			5,000		U006	
Acetylene	74-86-2						10,000
Acetylphosphoramidothioic acid O,S-dimethyl ester	30560-19-1				X		
1-Acetyl-2-thiourea	591-08-2			1,000		P002	
Acifluorfen, sodium salt	62476-59-9				313		
Acrolein	107-02-8	500	1	1	313	P003	5,000
Acrylamide	79-06-1	1,000/10,000	5,000	5,000	313	U007	
Acrylic acid	79-10-7			5,000	313	U008	
Acrylonitrile	107-13-1	10,000	100	100	313	U009	20,000
Acrylyl chloride	814-68-6	100	100				5,000
Adipic acid	124-04-9			5,000			
Adiponitrile	111-69-3	1,000	1,000				
Alachlor	15972-60-8				313		
Aldicarb	116-06-3	100/10,000	1	1	313	P070	
Aldicarb sulfone	1646-88-4			100		P203	
Aldrin	309-00-2	500/10,000	1	1	313	P004	
d-trans-Allethrin	28057-48-9				313		
Allyl alcohol	107-18-6	1,000	100	100	313	P005	15,000
Allylamine	107-11-9	500	500		313		10,000
Allyl chloride	107-05-1			1,000	313		
Aluminum (fume or dust)	7429-90-5				313		
Aluminum oxide (fibrous forms)	1344-28-1				313		
Aluminum phosphide	20859-73-8	500	100	100	313	P006	
Aluminum sulfate	10043-01-3			5,000			
Ametryn	834-12-8				313		

NAME	CAS/313 Category Codes	Section 302 (EHS) TPQ	Section 304 EHS RQ	CERCLA RQ	Section 313	RCRA CODE	CAA 112(r) TQ
2-Aminoanthraquinone	117-79-3				313		
4-Aminoazobenzene	60-09-3				313		
4-Aminobiphenyl	92-67-1			1	313		
1-Amino-2,4-dibromoanthraquinone	81-49-2				313		
1-Amino-2-methylanthraquinone	82-28-0				313		
5-(Aminomethyl)-3-isoxazolol	2763-96-4	500/10,000	1,000	1,000		P007	
Aminopterin	54-62-6	500/10,000	500				
4-Aminopyridine	504-24-5	500/10,000	1,000	1,000		P008	
Amiton	78-53-5	500	500				
Amiton oxalate	3734-97-2	100/10,000	100				
Amitraz	33089-61-1				313		
Amitrole	61-82-5			10	313	U011	
Ammonia	7664-41-7	500	100	100			
Ammonia (anhydrous)	7664-41-7	500	100	100	X		10,000
Ammonia (conc 20% or greater)	7664-41-7			See ammonium hydroxide	X		20,000
Ammonia (includes anhydrous ammonia and aqueous ammonia from water dissociable ammonium salts and other sources; 10 percent of total aqueous ammonia is reportable under this listing)	7664-41-7				313		
Ammonium acetate	631-61-8			5,000			
Ammonium benzoate	1863-63-4			5,000			
Ammonium bicarbonate	1066-33-7			5,000			
Ammonium bichromate	7789-09-5			10	313c		
Ammonium bifluoride	1341-49-7			100			
Ammonium bisulfite	10192-30-0			5,000			
Ammonium carbamate	1111-78-0			5,000			
Ammonium carbonate	506-87-6			5,000			
Ammonium chloride	12125-02-9			5,000			
Ammonium chromate	7788-98-9			10	313c		
Ammonium citrate, dibasic	3012-65-5			5,000			
Ammonium fluoborate	13826-83-0			5,000			
Ammonium fluoride	12125-01-8			100			
Ammonium hydroxide	1336-21-6			1,000	X		
Ammonium oxalate	5972-73-6			5,000			
Ammonium oxalate	6009-70-7			5,000			
Ammonium oxalate	14258-49-2			5,000			
Ammonium picrate	131-74-8			10		P009	
Ammonium silicofluoride	16919-19-0			1,000			
Ammonium sulfamate	7773-06-0			5,000			
Ammonium sulfide	12135-76-1			100			
Ammonium sulfite	10196-04-0			5,000			
Ammonium tartrate	3164-29-2			5,000			
Ammonium tartrate	14307-43-8			5,000			
Ammonium thiocyanate	1762-95-4			5,000			
Ammonium vanadate	7803-55-6			1,000	313c	P119	
Amphetamine	300-62-9	1,000	1,000				
Amyl acetate	628-63-7			5,000			
iso-Amyl acetate	123-92-2			5,000			
sec-Amyl acetate	626-38-0			5,000			
tert-Amyl acetate	625-16-1			5,000			

NAME	CAS/313 Category Codes	Section 302 (EHS) TPQ	Section 304 EHS RQ	CERCLA RQ	Section 313	RCRA CODE	CAA 112(r) TQ
Anilazine	101-05-3				313		
Aniline	62-53-3	1,000	5,000	5,000	313	U012	
Aniline, 2,4,6-trimethyl-	88-05-1	500	500				
o-Anisidine	90-04-0			100	313		
p-Anisidine	104-94-9				313		
o-Anisidine hydrochloride	134-29-2				313		
Anthracene	120-12-7			5,000	313		
Antimony	7440-36-0			5,000	313		
Antimony Compounds	N010			&	313		
Antimony pentachloride	7647-18-9			1,000			
Antimony pentafluoride	7783-70-2	500	500		313c		
Antimony potassium tartrate	28300-74-5			100	313c		
Antimony tribromide	7789-61-9			1,000	313c		
Antimony trichloride	10025-91-9			1,000	313c		
Antimony trifluoride	7783-56-4			1,000	313c		
Antimony trioxide	1309-64-4			1,000	313c		
Antimycin A	1397-94-0	1,000/10,000	1,000				
ANTU	86-88-4	500/10,000	100	100		P072	
Aroclor 1016	12674-11-2			1			
Aroclor 1221	11104-28-2			1			
Aroclor 1232	11141-16-5			1			
Aroclor 1242	53469-21-9			1			
Aroclor 1248	12672-29-6			1			
Aroclor 1254	11097-69-1			1			
Aroclor 1260	11096-82-5			1			
Arsenic	7440-38-2			1	313		
Arsenic acid	7778-39-4			1	313c	P010	
Arsenic Compounds	N020			&	313		
Arsenic disulfide	1303-32-8			1	313c		
Arsenic pentoxide	1303-28-2	100/10,000	1	1	313c	P011	
Arsenic trioxide	1327-53-3	100/10,000	1	1	313c	P012	
Arsenic trisulfide	1303-33-9			1	313c		
Arsenous oxide	1327-53-3	100/10,000	1	1	313c	P012	
Arsenous trichloride	7784-34-1	500	1	1	313c		15,000
Arsine	7784-42-1	100	100				1,000
Asbestos (friable)	1332-21-4			1	313		
Atrazine	1912-24-9				313		
Auramine	492-80-8			100	X	U014	
Avermectin B1	71751-41-2				X		
Azaserine	115-02-6			1		U015	
1H-Azepine-1 carbothioic acid, hexahydro-S-ethyl ester	2212-67-1				X		
Azinphos-ethyl	2642-71-9	100/10,000	100				
Azinphos-methyl	86-50-0	10/10,000	1	1			
Aziridine	151-56-4	500	1	1	X	P054	10,000
Aziridine, 2-methyl	75-55-8	10,000	1	1	X	P067	10,000
Barban	101-27-9			10		U280	
Barium	7440-39-3				313		
Barium Compounds	N040				313		
Barium cyanide	542-62-1			10	313c	P013	
Bendiocarb	22781-23-3			100	313	U278	
Bendiocarb phenol	22961-82-6			1,000		U364	

NAME	CAS/313 Category Codes	Section 302 (EHS) TPQ	Section 304 EHS RQ	CERCLA RQ	Section 313	RCRA CODE	CAA 112(r) TQ
Benezeneamine, 2,6-dinitro-N,N-dipropyl-4-(trifluoromethyl)-	1582-09-8			10	X		
Benfluralin	1861-40-1				313		
Benomyl	17804-35-2			10	313	U271	
Benz[c]acridine	225-51-4			100		U016	
Benzal chloride	98-87-3	500	5,000	5,000	313	U017	
Benzamide	55-21-0				313		
Benzamide, 3,5-dichloro-N-(1,1-dimethyl-2-propynyl	23950-58-5			5,000	X	U192	
Benz[a]anthracene	56-55-3			10	313+	U018	
Benzenamine, 3-(trifluoromethyl)-	98-16-8	500	500				
Benzene	71-43-2			10	313	U019	
Benzeneacetic acid, 4-chloro-.alpha.-(4-chlorophenyl)-.alpha.-hydroxy-, ethyl ester	510-15-6			10	X	U038	
Benzeneamine, N-hydroxy-N-nitroso, ammonium salt	135-20-6				X		
Benzenearsonic acid	98-05-5	10/10,000	10				
Benzene, 1-(chloromethyl)-4-nitro-	100-14-1	500/10,000	500				
1,3-Benzenedicarbonitrile, 2,4,5,6-tetrachloro-	1897-45-6				X		
Benzene, 2,4-dichloro-1-(4-nitrophenoxy)-	1836-75-5				X		
Benzene, 2,4-diisocyanato-1-methyl-	584-84-9	500	100	100	X		10,000
Benzene, 1,3-diisocyanato-2-methyl-	91-08-7	100	100	100	X		10,000
Benzene, 1,3-diisocyanatomethyl-	26471-62-5			100	X	U223	10,000
Benzene, m-dimethyl-	108-38-3			1,000	X	U239	
Benzene, o-dimethyl-	95-47-6			1,000	X	U239	
Benzene, p-dimethyl-	106-42-3			100	X	U239	
Benzeneethanamine, alpha,alpha-dimethyl-	122-09-8			5,000		P046	
Benzenemethanol, 4-chloro-.alpha.-4-chlorophenyl)-.alpha.-(trichloromethyl)-	115-32-2			10	X		
Benzenesulfonyl chloride	98-09-9			100		U020	
Benzenethiol	108-98-5	500	100	100		P014	
Benzene, 1,1'-(2,2,2-trichloroethylidene)bis [4-methoxy-	72-43-5			1	X	U247	
Benzidine	92-87-5			1	313	U021	
Benzimidazole, 4,5-dichloro-2-(trifluoromethyl)-	3615-21-2	500/10,000	500				
Benzo[b]fluoranthene	205-99-2			1	313+		
Benzo(j)fluoranthene	205-82-3				313+		
Benzo(k)fluoranthene	207-08-9			5,000	313+		
Benzoic acid	65-85-0			5,000			
Benzoic acid, 3-amino-2,5-dichloro-	133-90-4			100	X		
Benzoic acid, 5-(2-chloro-4-(trifluoromethyl)phenoxy)-2-nitro-, 2-ethoxy-1-methyl-2-oxethyl ester	77501-63-4				313		
Benzoic trichloride	98-07-7	100	10	10	313	U023	
Benzonitrile	100-47-0			5,000			
Benzo(rst)pentaphene	189-55-9			10	313+	U064	

NAME	CAS/313 Category Codes	Section 302 (EHS) TPQ	Section 304 EHS RQ	CERCLA RQ	Section 313	RCRA CODE	CAA 112(r) TQ
Benzo[g,h,i]perylene	191-24-2			5,000	313		
Benzo(a)phenanthrene	218-01-9			100	313+	U050	
Benzo[a]pyrene	50-32-8			1	313+	U022	
p-Benzoquinone	106-51-4			10	X	U197	
Benzotrichloride	98-07-7	100	10	10	X	U023	
Benzoyl chloride	98-88-4			1,000	313		
Benzoyl peroxide	94-36-0				313		
Benzyl chloride	100-44-7	500	100	100	313	P028	
Benzyl cyanide	140-29-4	500	500				
Beryllium	7440-41-7			10	313	P015	
Beryllium chloride	7787-47-5			1	313c		
Beryllium Compounds	N050			&	313		
Beryllium fluoride	7787-49-7			1	313c		
Beryllium nitrate	7787-55-5			1	313c		
Beryllium nitrate	13597-99-4			1	313c		
alpha-BHC	319-84-6			10	X		
beta-BHC	319-85-7			1			
delta-BHC	319-86-8			1			
Bicyclo[2.2.1]heptane-2-carbonitrile, 5-chloro-6-((((methylamino)carbonyl)oxy)imino)-,(1-alpha,2-beta,4-alpha,5-alpha,6E))-	15271-41-7	500/10,000	500				
Bifenthrin	82657-04-3				313		
2,2'-Bioxirane	1464-53-5	500	10	10	X	U085	
Biphenyl	92-52-4			100	313		
2,2-bis(Bromomethyl)-1,3-propanediol	3296-90-0				313		
Bis(2-chloroethoxy) methane	111-91-1			1,000	313	U024	
Bis(2-chloroethyl) ether	111-44-4	10,000	10	10	313	U025	
Bis(chloromethyl) ether	542-88-1	100	10	10	313	P016	1,000
Bis(2-chloro-1-methylethyl)ether	108-60-1			1,000	313	U027	
Bis(chloromethyl) ketone	534-07-6	10/10,000	10				
Bis(2-ethylhexyl)phthalate	117-81-7			100	X	U028	
N,N'-Bis(1-methylethyl)-6-methylthio-1,3,5-triazine-2,4-diamine	7287-19-6				X		
1,4-Bis(methylisocyanate)cyclohexane	10347-54-3				313#		
1,3-Bis(methylisocyanate)cyclohexane	38661-72-2				313#		
Bis(tributyltin) oxide	56-35-9				313		
Bitoscanate	4044-65-9	500/10,000	500				
Borane, trichloro-	10294-34-5	500	500		X		5,000
Borane, trifluoro-	7637-07-2	500	500		X		5,000
Boron trichloride	10294-34-5	500	500		313		5,000
Boron trifluoride	7637-07-2	500	500		313		5,000
Boron trifluoride compound with methyl ether (1:1)	353-42-4	1,000	1,000				15,000
Boron, trifluoro[oxybis[methane]]-, (T-4)-	353-42-4	1,000	1,000				15,000
Bromacil	314-40-9				313		
Bromacil, lithium salt	53404-19-6				313		
Bromadiolone	28772-56-7	100/10,000	100				
Bromine	7726-95-6	500	500		313		10,000

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Bromoacetone	598-31-2			1,000		P017	
1-Bromo-1-(bromomethyl)-1,3-propanedicarbonitrile	35691-65-7				313		
Bromochlorodifluoromethane	353-59-3				313		
O-(4-Bromo-2-chlorophenyl)-O-ethyl-S-propylphosphorothioate	41198-08-7				X		
Bromoform	75-25-2			100	313	U225	
Bromomethane	74-83-9	1,000	1,000	1,000	313	U029	
5-Bromo-6-methyl-3-(1-methylpropyl)-2,4-(1H,3H)-pyrimidinedione	314-40-9				X		
4-Bromophenyl phenyl ether	101-55-3			100		U030	
Bromotrifluoroethylene	598-73-2						10,000
Bromotrifluoromethane	75-63-8				313		
Bromoxynil	1689-84-5				313		
Bromoxynil octanoate	1689-99-2				313		
Brucine	357-57-3			100	313	P018	
1,3-Butadiene	106-99-0			10	313		10,000
1,3-Butadiene, 2-methyl-	78-79-5			100			10,000
Butane	106-97-8						10,000
Butane, 2-methyl-	78-78-4						10,000
2-Butenal	4170-30-3	1,000	100	100	X	U053	20,000
2-Butenal, (e)-	123-73-9	1,000	100	100		U053	20,000
Butene	25167-67-3						10,000
1-Butene	106-98-9						10,000
2-Butene	107-01-7						10,000
2-Butene-cis	590-18-1						10,000
2-Butene, 1,4-dichloro-	764-41-0			1	X	U074	
2-Butene, (E)	624-64-6						10,000
2-Butene-trans	624-64-6						10,000
1-Buten-3-yne	689-97-4						10,000
2,4-D butoxyethyl ester	1929-73-3			100	313		
Butyl acetate	123-86-4			5,000			
iso-Butyl acetate	110-19-0			5,000			
sec-Butyl acetate	105-46-4			5,000			
tert-Butyl acetate	540-88-5			5,000			
Butyl acrylate	141-32-2				313		
n-Butyl alcohol	71-36-3			5,000	313	U031	
sec-Butyl alcohol	78-92-2				313		
tert-Butyl alcohol	75-65-0				313		
Butylamine	109-73-9			1,000			
iso-Butylamine	78-81-9			1,000			
sec-Butylamine	513-49-5			1,000			
sec-Butylamine	13952-84-6			1,000			
tert-Butylamine	75-64-9			1,000			
Butyl benzyl phthalate	85-68-7			100			
.alpha.-Butyl-.alpha.-(4-chlorophenyl)-1H-1,2,4-triazole-1-propanenitrile	88671-89-0				X		
1,2-Butylene oxide	106-88-7			100	313		
Butylethylcarbamothioic acid S-propyl ester	1114-71-2				X		
N-Butyl-N-ethyl-2,6-dinitro-4-(trifluoromethyl) benzenamine	1861-40-1				X		

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n-Butyl phthalate	84-74-2			10	X	U069	
1-Butyne	107-00-6						10,000
Butyraldehyde	123-72-8				313		
Butyric acid	107-92-6			5,000			
iso-Butyric acid	79-31-2			5,000			
Cacodylic acid	75-60-5			1		U136	
Cadmium	7440-43-9			10	313		
Cadmium acetate	543-90-8			10	313c		
Cadmium bromide	7789-42-6			10	313c		
Cadmium chloride	10108-64-2			10	313c		
Cadmium Compounds	N078			&	313		
Cadmium oxide	1306-19-0	100/10,000	100		313c		
Cadmium stearate	2223-93-0	1,000/10,000	1,000		313c		
Calcium arsenate	7778-44-1	500/10,000	1	1	313c		
Calcium arsenite	52740-16-6			1	313c		
Calcium carbide	75-20-7			10			
Calcium chromate	13765-19-0			10	313c	U032	
Calcium cyanamide	156-62-7			1,000	313		
Calcium cyanide	592-01-8			10	313c	P021	
Calcium dodecylbenzenesulfonate	26264-06-2			1,000			
Calcium hypochlorite	7778-54-3			10			
Camphechlor	8001-35-2	500/10,000	1	1	X	P123	
Camphene, octachloro-	8001-35-2	500/10,000	1	1	X	P123	
Cantharidin	56-25-7	100/10,000	100				
Captan	133-06-2			10	313		
Carbachol chloride	51-83-2	500/10,000	500				
Carbamic acid, diethylthio-, S-(p-chlorobenzyl)	28249-77-6				X		
Carbamic acid, ethyl ester	51-79-6			100	X	U238	
Carbamic acid, methyl-, O-(((2,4-dimethyl-1,3-dithiolan-2-yl)methylene)amino)-	26419-73-8	100/10,000	100	100		P185	
Carbamodithioic acid, 1,2-ethanediylbis-, manganese complex	12427-38-2				X		
Carbamodithioic acid, 1,2-ethanediylbis-, zinc complex	12122-67-7				X		
Carbamothioic acid, bis(1-methylethyl)-S-(2,3-dichloro-2-propenyl)ester	2303-16-4			100	X	U062	
Carbamothioic acid, dipropyl-, S-(phenylmethyl) ester	52888-80-9			5,000		U387	
Carbaryl	63-25-2			100	313	U279	
Carbendazim	10605-21-7			10		U372	
Carbofuran	1563-66-2	10/10,000	10	10	313	P127	
Carbofuran phenol	1563-38-8			10		U367	
Carbon disulfide	75-15-0	10,000	100	100	313	P022	20,000
Carbonic difluoride	353-50-4			1,000		U033	
Carbonic dichloride	75-44-5	10	10	10	X	P095	500
Carbonochloridic acid, methylester	79-22-1	500	1,000	1,000	X	U156	5,000
Carbonochloridic acid, 1-methylethyl ester	108-23-6	1,000	1,000				15,000
Carbonochloridic acid, propylester	109-61-5	500	500				15,000

NAME	CAS/313 Category Codes	Section 302 (EHS) TPQ	Section 304 EHS RQ	CERCLA RQ	Section 313	RCRA CODE	CAA 112(r) TQ
Carbon oxide sulfide (COS)	463-58-1			100	X		10,000
Carbon tetrachloride	56-23-5			10	313	U211	
Carbonyl sulfide	463-58-1			100	313		10,000
Carbophenothion	786-19-6	500	500				
Carbosulfan	55285-14-8			1,000		P189	
Carboxin	5234-68-4				313		
Catechol	120-80-9			100	313		
CFC-11	75-69-4			5,000	X	U121	
CFC-12	75-71-8			5,000	X	U075	
CFC-114	76-14-2				X		
CFC-115	76-15-3				X		
CFC-13	75-72-9				X		
Chinomethionat	2439-01-2				313		
Chloramben	133-90-4			100	313		
Chlorambucil	305-03-3			10		U035	
Chlordane	57-74-9	1,000	1	1	313	U036	
Chlordane (Technical Mixture and Metabolites)	N.A.			&			
Chlorendic acid	115-28-6				313		
Chlorfenvinfos	470-90-6	500	500				
Chlorimuron ethyl	90982-32-4				313		
Chlorinated Benzenes	N.A.			&			
Chlorinated Ethanes	N.A.			&			
Chlorinated Naphthalene	N.A.			&			
Chlorinated Phenols	N084			&	313		
Chlorine	7782-50-5	100	10	10	313		2,500
Chlorine dioxide	10049-04-4				313		1,000
Chlorine monoxide	7791-21-1						10,000
Chlorine oxide	7791-21-1						10,000
Chlorine oxide (ClO2)	10049-04-4				X		1,000
Chlormephos	24934-91-6	500	500				
Chlormequat chloride	999-81-5	100/10,000	100				
Chlornaphazine	494-03-1			100		U026	
Chloroacetaldehyde	107-20-0			1,000		P023	
Chloroacetic acid	79-11-8	100/10,000	100	100	313		
2-Chloroacetophenone	532-27-4			100	313		
Chloroalkyl Ethers	N.A.			&			
1-(3-Chloroallyl)-3,5,7-triaza-1-azoniaadamantane chloride	4080-31-3				313		
p-Chloroaniline	106-47-8			1,000	313	P024	
Chlorobenzene	108-90-7			100	313	U037	
Chlorobenzilate	510-15-6			10	313	U038	
2-(4-((6-Chloro-2-benzoxazolylen)oxy)phenoxy)propanoic acid, ethyl ester	66441-23-4				X		
2-Chloro-N-(2-chloroethyl)-N-methylethanamine	51-75-2	10	10		X		
p-Chloro-m-cresol	59-50-7			5,000		U039	
2,4-D chlorocrotyl ester	2971-38-2			100	313		
Chlorodibromomethane	124-48-1			100			
1-Chloro-1,1-difluoroethane	75-68-3				313		
Chlorodifluoromethane	75-45-6				313		

NAME	CAS/313 Category Codes	Section 302 (EHS) TPQ	Section 304 EHS RQ	CERCLA RQ	Section 313	RCRA CODE	CAA 112(r) TQ
5-Chloro-3-(1,1-dimethylethyl)-6-methyl-2,4(1H,3H)-pyrimidinedione	5902-51-2				X		
Chloroethane	75-00-3			100	313		10,000
Chloroethanol	107-07-3	500	500				
Chloroethyl chloroformate	627-11-2	1,000	1,000				
6-Chloro-N-ethyl-N'-(1-methylethyl)-1,3,5-triazine-2,4-diamine	1912-24-9				X		
2-Chloroethyl vinyl ether	110-75-8			1,000		U042	
Chloroform	67-66-3	10,000	10	10	313	U044	20,000
Chloromethane	74-87-3			100	313	U045	10,000
2-Chloro-N-(((4-methoxy-6-methyl-1,3,5-triazin-2-yl)amino]carbonyl)benzenesulfonamide	64902-72-3				X		
4-Chloro-5-(methylamino)-2-[3-(trifluoromethyl)phenyl]-3(2H)-pyridazinone	27314-13-2				X		
Chloromethyl ether	542-88-1	100	10	10	X	P016	1,000
4-Chloro-alpha-(1-methylethyl)benzeneacetic acid cyano(3-phenoxyphenyl)methyl ester	51630-58-1				X		
2-Chloro-N-(1-methylethyl)-N-phenylacetamide	1918-16-7				X		
Chloromethyl methyl ether	107-30-2	100	10	10	313	U046	5,000
(4-Chloro-2-methylphenoxy) acetate sodium salt	3653-48-3				X		
(4-Chloro-2-methylphenoxy) acetic acid	94-74-6				X		
3-Chloro-2-methyl-1-propene	563-47-3				313		
2-Chloronaphthalene	91-58-7			5,000		U047	
Chlorophacinone	3691-35-8	100/10,000	100				
2-Chlorophenol	95-57-8			100		U048	
Chlorophenols	N084			&	313		
1-(4-Chlorophenoxy)-3,3-dimethyl-1-(1H-1,2,4-triazol-1-yl)-2-butanone	43121-43-3				X		
.alpha.-(2-Chlorophenyl)-.alpha.-4-chlorophenyl)-5-pyrimidinemethanol	60168-88-9				X		
p-Chlorophenyl isocyanate	104-12-1				313		
4-Chlorophenyl phenyl ether	7005-72-3			5,000			
Chloropicrin	76-06-2				313		
Chloroprene	126-99-8			100	313		
3-Chloropropionitrile	542-76-7	1,000	1,000	1,000	313	P027	
2-Chloropropylene	557-98-2						10,000
1-Chloropropylene	590-21-6						10,000
2-(4-((6-Chloro-2-quinoxalinyl)oxy]phenoxy) propanoic acid ethyl ester	76578-14-8				X		
Chlorosulfonic acid	7790-94-5			1,000			
Chlorotetrafluoroethane	63938-10-3				313		
1-Chloro-1,1,2,2-tetrafluoroethane	354-25-6				313		
2-Chloro-1,1,1,2-tetrafluoroethane	2837-89-0				313		
Chlorothalonil	1897-45-6				313		

NAME	CAS/313 Category Codes	Section 302 (EHS) TPQ	Section 304 EHS RQ	CERCLA RQ	Section 313	RCRA CODE	CAA 112(r) TQ
p-Chloro-o-toluidine	95-69-2				313		
4-Chloro-o-toluidine, hydrochloride	3165-93-3			100		U049	
2-Chloro-6-(trichloromethyl)pyridine	1929-82-4				X		
2-Chloro-1,1,1-trifluoroethane	75-88-7				313		
Chlorotrifluoromethane	75-72-9				313		
5-(2-Chloro-4-(trifluoromethyl)phenoxy)-2-nitrobenzoic acid, sodium salt	62476-59-9				X		
5-(2-Chloro-4-(trifluoromethyl)phenoxy)-N-methylsulfonyl)-2-nitrobenzamide	72178-02-0				X		
5-(2-Chloro-4-(trifluoromethyl)phenoxy)-2-nitro-2-ethoxy-1-methyl-2-oxoethyl ester	77501-63-4				X		
N-(2-Chloro-4-(trifluoromethyl)phenyl)-DL-valine(+)-cyano(3-phenoxyphenyl)methyl ester	69409-94-5				X		
3-Chloro-1,1,1-trifluoropropane	460-35-5				313		
3-(2-Chloro-3,3,3-trifluoro-1-propenyl)-2,2-dimethylcyclopropanecarboxylic acid cyano(3-phenoxyphenyl) methyl ester	68085-85-8				X		
Chloroxuron	1982-47-4	500/10,000	500				
Chlorpyrifos	2921-88-2			1			
Chlorpyrifos methyl	5598-13-0				313		
Chlorsulfuron	64902-72-3				313		
Chlorthiophos	21923-23-9	500	500				
Chromic acetate	1066-30-4			1,000	313c		
Chromic acid	7738-94-5			10	313c		
Chromic acid	11115-74-5			10	313c		
Chromic chloride	10025-73-7	1/10,000	1		313c		
Chromic sulfate	10101-53-8			1,000	313c		
Chromium	7440-47-3			5,000	313		
Chromium Compounds	N090			&	313		
Chromous chloride	10049-05-5			1,000	313c		
d-trans-Chrysanthemic acid of d-allethrone	28057-48-9				X		
Chrysene	218-01-9			100	X	U050	
C.I. Acid Green 3	4680-78-8				313		
C.I. Acid Red 114	6459-94-5				313		
C.I. Basic Green 4	569-64-2				313		
C.I. Basic Red 1	989-38-8				313		
C.I. Direct Black 38	1937-37-7				313		
C.I. Direct Blue 218	28407-37-6				313		
C.I. Direct Blue 6	2602-46-2				313		
C.I. Direct Brown 95	16071-86-6				313		
C.I. Disperse Yellow 3	2832-40-8				313		
C.I. Food Red 5	3761-53-3				313		
C.I. Food Red 15	81-88-9				313		
C.I. Solvent Orange 7	3118-97-6				313		
C.I. Solvent Yellow 3	97-56-3				313		
C.I. Solvent Yellow 14	842-07-9				313		

NAME	CAS/313 Category Codes	Section 302 (EHS) TPQ	Section 304 EHS RQ	CERCLA RQ	Section 313	RCRA CODE	CAA 112(r) TQ
C.I. Solvent Yellow 34	492-80-8			100	313	U014	
C.I. Vat Yellow 4	128-66-5				313		
Cobalt	7440-48-4				313		
Cobalt carbonyl	10210-68-1	10/10,000	10		313c		
Cobalt Compounds	N096			&	313		
Cobalt, ((2,2'-(1,2-ethanediylbis(nitrilomethylidyne))bis(6-fluorophenylato))(2-)-N,N',O,O')-	62207-76-5	100/10,000	100		313c		
Cobaltous bromide	7789-43-7			1,000	313c		
Cobaltous formate	544-18-3			1,000	313c		
Cobaltous sulfamate	14017-41-5			1,000	313c		
Coke Oven Emissions	N.A.			1			
Colchicine	64-86-8	10/10,000	10				
Copper	7440-50-8			5,000	313		
Copper Compounds	N100			&	313		
Copper cyanide	544-92-3			10	313c	P029	
Coumaphos	56-72-4	100/10,000	10	10			
Coumatetralyl	5836-29-3	500/10,000	500				
Creosote	N.A.			1		U051	
Creosote	8001-58-9				313		
p-Cresidine	120-71-8				313		
m-Cresol	108-39-4			100	313	U052	
o-Cresol	95-48-7	1,000/10,000	100	100	313	U052	
p-Cresol	106-44-5			100	313	U052	
Cresol (mixed isomers)	1319-77-3			100	313	U052	
Crimidine	535-89-7	100/10,000	100				
Crotonaldehyde	4170-30-3	1,000	100	100	313	U053	20,000
Crotonaldehyde, (E)-	123-73-9	1,000	100	100		U053	20,000
Cumene	98-82-8			5,000	313	U055	
Cumene hydroperoxide	80-15-9			10	313	U096	
Cupferron	135-20-6				313		
Cupric acetate	142-71-2			100	313c		
Cupric acetoarsenite	12002-03-8	500/10,000	1	1	313c		
Cupric chloride	7447-39-4			10	313c		
Cupric nitrate	3251-23-8			100	313c		
Cupric oxalate	5893-66-3			100	313c		
Cupric sulfate	7758-98-7			10	313c		
Cupric sulfate, ammoniated	10380-29-7			100	313c		
Cupric tartrate	815-82-7			100	313c		
Cyanazine	21725-46-2				313		
Cyanide Compounds	N106			&	313		
Cyanides (soluble salts and complexes), not otherwise specified	N.A.			10	313c	P030	
Cyanogen	460-19-5			100		P031	10,000
Cyanogen bromide	506-68-3	500/10,000	1,000	1,000	313c	U246	
Cyanogen chloride	506-77-4			10	313c	P033	10,000
Cyanogen iodide	506-78-5	1,000/10,000	1,000		313c		
Cyanophos	2636-26-2	1,000	1,000				
Cyanuric fluoride	675-14-9	100	100		313c		
Cycloate	1134-23-2				313		
2,5-Cyclohexadiene-1,4-dione, 2,3,5-tris(1-aziridinyl)-	68-76-8				X		

NAME	CAS/313 Category Codes	Section 302 (EHS) TPQ	Section 304 EHS RQ	CERCLA RQ	Section 313	RCRA CODE	CAA 112(r) TQ
Cyclohexanamine	108-91-8	10,000	10,000				15,000
Cyclohexane	110-82-7			1,000	313	U056	
1,4-Cyclohexane diisocyanate	2556-36-7				313#		
Cyclohexane, 1,2,3,4,5,6-hexachloro-,(1.alpha.,2.alpha.,3.beta.,4.alpha.,5.alpha.,6.beta.)-	58-89-9	1,000/10,000	1	1	X	U129	
Cyclohexanol	108-93-0				313		
Cyclohexanone	108-94-1			5,000		U057	
Cycloheximide	66-81-9	100/10,000	100				
Cyclohexylamine	108-91-8	10,000	10,000				15,000
2-Cyclohexyl-4,6-dinitrophenol	131-89-5			100		P034	
Cyclophosphamide	50-18-0			10		U058	
Cyclopropane	75-19-4						10,000
Cyfluthrin	68359-37-5				313		
Cyhalothrin	68085-85-8				313		
2,4-D	94-75-7			100	313	U240	
2,4-D Acid	94-75-7			100	X	U240	
2,4-D butyl ester	94-80-4			100	313		
2,4-D Esters	94-11-1			100	X		
2,4-D Esters	94-79-1			100			
2,4-D Esters	94-80-4			100	X		
2,4-D Esters	1320-18-9			100	X		
2,4-D Esters	1928-38-7			100			
2,4-D Esters	1928-61-6			100			
2,4-D Esters	1929-73-3			100	X		
2,4-D Esters	2971-38-2			100	X		
2,4-D Esters	25168-26-7			100			
2,4-D Esters	53467-11-1			100			
2,4-D isopropyl ester	94-11-1			100	313		
2,4-D propylene glycol butyl ether ester	1320-18-9			100	313		
2,4-D, salts and esters	94-75-7			100		U240	
Daunomycin	20830-81-3			10		U059	
Dazomet	533-74-4				313		
Dazomet, sodium salt	53404-60-7				313		
2,4-DB	94-82-6				313		
DBCP	96-12-8			1	X	U066	
DDD	72-54-8			1		U060	
DDE	72-55-9			1			
DDE	3547-04-4			5,000			
DDT	50-29-3			1		U061	
DDT and Metabolites	N.A.			&			
Decaborane(14)	17702-41-9	500/10,000	500				
Decabromodiphenyl oxide	1163-19-5				313		
DEF	78-48-8				X		
DEHP	117-81-7			100	X	U028	
Demeton	8065-48-3	500	500				
Demeton-S-methyl	919-86-8	500	500				
Desmedipham	13684-56-5				313		
2,4-D 2-ethylhexyl ester	1928-43-4				313		
2,4-D 2-ethyl-4-methylpentyl ester	53404-37-8				313		
Dialifor	10311-84-9	100/10,000	100				

NAME	CAS/313 Category Codes	Section 302 (EHS) TPQ	Section 304 EHS RQ	CERCLA RQ	Section 313	RCRA CODE	CAA 112(r) TQ
Diallate	2303-16-4			100	313	U062	
2,4-Diaminoanisole	615-05-4				313		
2,4-Diaminoanisole sulfate	39156-41-7				313		
4,4'-Diaminodiphenyl ether	101-80-4				313		
Diaminotoluene	496-72-0			10		U221	
Diaminotoluene	823-40-5			10		U221	
2,4-Diaminotoluene	95-80-7			10	313		
Diaminotoluene (mixed isomers)	25376-45-8			10	313	U221	
o-Dianisidine dihydrochloride	20325-40-0				X		
o-Dianisidine hydrochloride	111984-09-9				X		
Diazinon	333-41-5			1	313		
Diazomethane	334-88-3			100	313		
Dibenz(a,h)acridine	226-36-8				313+		
Dibenz(a,j)acridine	224-42-0				313+		
Dibenz[a,h]anthracene	53-70-3			1	313+	U063	
7H-Dibenzo(c,g)carbazole	194-59-2				313+		
Dibenzo(a,e)fluoranthene	5385-75-1				313+		
Dibenzofuran	132-64-9			100	313		
Dibenzo(a,e)pyrene	192-65-4				313+		
Dibenzo(a,h)pyrene	189-64-0				313+		
Dibenzo(a,l)pyrene	191-30-0				313+		
Dibenz[a,i]pyrene	189-55-9			10	X	U064	
Diborane	19287-45-7	100	100				2,500
Diborane(6)	19287-45-7	100	100				2,500
1,2-Dibromo-3-chloropropane	96-12-8			1	313	U066	
1,2-Dibromoethane	106-93-4			1	313	U067	
3,5-Dibromo-4-hydroxybenzonitrile	1689-84-5				X		
2,2-Dibromo-3-nitrilopropionamide	10222-01-2				313s		
Dibromotetrafluoroethane	124-73-2				313		
Dibutyl phthalate	84-74-2			10	313	U069	
Dicamba	1918-00-9			1,000	313		
Dichlobenil	1194-65-6			100			
Dichlone	117-80-6			1			
Dichloran	99-30-9				313		
o-Dichlorobenzene	95-50-1			100	X	U070	
Dichlorobenzene	25321-22-6			100	X		
1,2-Dichlorobenzene	95-50-1			100	313	U070	
1,3-Dichlorobenzene	541-73-1			100	313	U071	
1,4-Dichlorobenzene	106-46-7			100	313	U072	
Dichlorobenzene (mixed isomers)	25321-22-6			100	313		
Dichlorobenzidine	N.A.			&			
3,3'-Dichlorobenzidine	91-94-1			1	313	U073	
3,3'-Dichlorobenzidine dihydrochloride	612-83-9				313		
3,3'-Dichlorobenzidine sulfate	64969-34-2				313		
Dichlorobromomethane	75-27-4			5,000	313		
trans-1,4-Dichloro-2-butene	110-57-6	500	500		313		
trans-1,4-Dichlorobutene	110-57-6	500	500		X		
1,4-Dichloro-2-butene	764-41-0			1	313	U074	
4,6-Dichloro-N-(2-chlorophenyl)-1,3,5-triazin-2-amine	101-05-3				X		
1,2-Dichloro-1,1-difluoroethane	1649-08-7				313		
Dichlorodifluoromethane	75-71-8			5,000	313	U075	

NAME	CAS/313 Category Codes	Section 302 (EHS) TPQ	Section 304 EHS RQ	CERCLA RQ	Section 313	RCRA CODE	CAA 112(r) TQ
1,1-Dichloroethane	75-34-3			1,000	X	U076	
1,2-Dichloroethane	107-06-2			100	313	U077	
3-(2,2-Dichloroethenyl)-2,2-dimethylcyclopropane carboxylic acid, (3-phenoxy-phenyl)methyl ester	52645-53-1				X		
3-(2,2-Dichloroethenyl)-2,2-dimethylcyclopropanecarboxylic acid, cyano(4-fluoro-3-phenoxyphenyl)methyl ester	68359-37-5				X		
1,1-Dichloroethylene	75-35-4			100	X	U078	10,000
1,2-Dichloroethylene	156-60-5			1,000		U079	
1,2-Dichloroethylene	540-59-0				313		
Dichloroethyl ether	111-44-4	10,000	10	10	X	U025	
1,1-Dichloro-1-fluoroethane	1717-00-6				313		
Dichlorofluoromethane	75-43-4				313		
Dichloroisopropyl ether	108-60-1			1,000	X	U027	
Dichloromethane	75-09-2			1,000	313	U080	
3,6-Dichloro-2-methoxybenzoic acid	1918-00-9			1,000	X		
3,6-Dichloro-2-methoxybenzoic acid, sodium salt	1982-69-0				X		
Dichloromethyl ether	542-88-1	100	10	10	X	P016	1,000
3-(2,4-Dichloro-5-(1-methylethoxy)phenyl)-5-(1,1-dimethylethyl)-1,3,4-oxadiazol-2(3H)-one	19666-30-9				X		
Dichloromethylphenylsilane	149-74-6	1,000	1,000				
2,6-Dichloro-4-nitroaniline	99-30-9				X		
Dichloropentafluoropropane	127564-92-5				313		
2,2-Dichloro-1,1,1,3,3-pentafluoropropane	128903-21-9				313		
2,3-Dichloro-1,1,1,2,3-pentafluoropropane	422-48-0				313		
1,2-Dichloro-1,1,2,3,3-pentafluoropropane	422-44-6				313		
3,3-Dichloro-1,1,1,2,2-pentafluoropropane	422-56-0				313		
1,3-Dichloro-1,1,2,2,3-pentafluoropropane	507-55-1				313		
1,1-Dichloro-1,2,2,3,3-pentafluoropropane	13474-88-9				313		
1,2-Dichloro-1,1,3,3,3-pentafluoropropane	431-86-7				313		
1,3-Dichloro-1,1,2,3,3-pentafluoropropane	136013-79-1				313		
1,1-Dichloro-1,2,3,3,3-pentafluoropropane	111512-56-2				313		
Dichlorophene	97-23-4				313		
2,6-Dichlorophenol	87-65-0			100		U082	
2,4-Dichlorophenol	120-83-2			100	313	U081	
2-(4-(2,4-Dichlorophenoxy)phenoxy)propanoic acid, methyl ester	51338-27-3				X		
Dichlorophenylarsine	696-28-6	500	1	1		P036	

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3-(3,5-Dichlorophenyl)-5-ethenyl-5-methyl-2,4-oxazolidinedione	50471-44-8				X		
2-(3,4-Dichlorophenyl)-4-methyl-1,2,4-oxadiazolidine-3,5-dione	20354-26-1				X		
N-(3,4-Dichlorophenyl)propanamide	709-98-8				X		
1-(2-(2,4-Dichlorophenyl)-2-(2-propenyloxy)ethyl)-1H-imidazole	35554-44-0				X		
1-(2-(2,4-Dichlorophenyl)-4-propyl-1,3-dioxolan-2-yl)-methyl-1H-1,2,4,-triazole	60207-90-1				X		
Dichloropropane	26638-19-7			1,000			
Dichloropropane - Dichloropropene (mixture)	8003-19-8			100			
1,1-Dichloropropane	78-99-9			1,000			
1,2-Dichloropropane	78-87-5			1,000	313	U083	
1,3-Dichloropropane	142-28-9			1,000			
Dichloropropene	26952-23-8			100			
1,3-Dichloropropene	542-75-6			100	X	U084	
trans-1,3-Dichloropropene	10061-02-6				313		
2,3-Dichloropropene	78-88-6			100	313		
2,2-Dichloropropionic acid	75-99-0			5,000			
1,3-Dichloropropylene	542-75-6			100	313	U084	
Dichlorosilane	4109-96-0						10,000
Dichlorotetrafluoroethane	76-14-2				313		
Dichlorotrifluoroethane	34077-87-7				313		
Dichloro-1,1,2-trifluoroethane	90454-18-5				313		
1,1-Dichloro-1,2,2-trifluoroethane	812-04-4				313		
1,2-Dichloro-1,1,2-trifluoroethane	354-23-4				313		
2,2-Dichloro-1,1,1-trifluoroethane	306-83-2				313		
Dichlorvos	62-73-7	1,000	10	10	313		
Diclofop methyl	51338-27-3				313		
Dicofol	115-32-2			10	313		
Dicrotophos	141-66-2	100	100				
Dicyclopentadiene	77-73-6				313		
Dieldrin	60-57-1			1		P037	
Diepoxybutane	1464-53-5	500	10	10	313	U085	
Diethanolamine	111-42-2			100	313		
Diethatyl ethyl	38727-55-8				313		
Diethylamine	109-89-7			100			
O-(2-(Diethylamino)-6-methyl-4-pyrimidinyl)-O,O-dimethyl phosphorothioate	29232-93-7				X		
N,N-Diethylaniline	91-66-7			1,000			
Diethylarsine	692-42-2			1		P038	
Diethyl chlorophosphate	814-49-3	500	500				
Diethyldiisocyanatobenzene	134190-37-7				313#		
Di(2-ethylhexyl) phthalate	117-81-7			100	313	U028	
O,O-Diethyl S-methyl dithiophosphate	3288-58-2			5,000		U087	
Diethyl-p-nitrophenyl phosphate	311-45-5			100		P041	
Diethyl phthalate	84-66-2			1,000		U088	
O,O-Diethyl O-pyrazinyl phosphorothioate	297-97-2	500	100	100		P040	

NAME	CAS/313 Category Codes	Section 302 (EHS) TPQ	Section 304 EHS RQ	CERCLA RQ	Section 313	RCRA CODE	CAA 112(r) TQ
Diethylstilbestrol	56-53-1			1		U089	
Diethyl sulfate	64-67-5			10	313		
Diflubenzuron	35367-38-5				313		
Difluoroethane	75-37-6						10,000
Digitoxin	71-63-6	100/10,000	100				
Diglycidyl ether	2238-07-5	1,000	1,000				
Diglycidyl resorcinol ether	101-90-6				313		
Digoxin	20830-75-5	10/10,000	10				
2,3,-Dihydro-5,6-dimethyl-1,4-dithiin 1,1,4,4-tetraoxide	55290-64-7				X		
5,6-Dihydro-2-methyl-N-phenyl-1,4-oxathiin-3-carboxamide	5234-68-4				X		
Dihydrosafrole	94-58-6			10	313	U090	
Diisocyanates (includes only 20 chemicals)	N120				313		
4,4'-Diisocyanatodiphenyl ether	4128-73-8				313#		
2,4'-Diisocyanatodiphenyl sulfide	75790-87-3				313#		
Diisopropylfluorophosphate	55-91-4	100	100	100		P043	
Dimefox	115-26-4	500	500				
1,4:5,8-Dimethanonaphthalene, 1,2,3,4,10,10-hexachloro-1,4,4a,5,8,8a-hexahydro-(1.alpha.,4.alpha.,4a.beta.,5.alpha.,8.alpha.,8a.beta.)-	309-00-2	500/10,000	1	1	X	P004	
Dimethipin	55290-64-7				313		
Dimethoate	60-51-5	500/10,000	10	10	313	P044	
3,3'-Dimethoxybenzidine	119-90-4			100	313	U091	
3,3'-Dimethoxybenzidine dihydrochloride	20325-40-0				313		
3,3'-Dimethoxybenzidine-4,4'-diisocyanate	91-93-0				313#		
3,3'-Dimethoxybenzidine hydrochloride	111984-09-9				313		
Dimethylamine	124-40-3			1,000	313	U092	10,000
Dimethylamine dicamba	2300-66-5				313		
4-Dimethylaminoazobenzene	60-11-7			10	313	U093	
Dimethylaminoazobenzene	60-11-7			10	X	U093	
N,N-Dimethylaniline	121-69-7			100	313		
7,12-Dimethylbenz[a]anthracene	57-97-6			1	313+	U094	
3,3'-Dimethylbenzidine	119-93-7			10	313	U095	
3,3'-Dimethylbenzidine dihydrochloride	612-82-8				313		
3,3'-Dimethylbenzidine dihydrofluoride	41766-75-0				313		
2,2-Dimethyl-1,3-benzodioxol-4-ol methylcarbamate	22781-23-3			100	X	U278	
Dimethylcarbamyl chloride	79-44-7			1	313	U097	
Dimethyl chlorothiophosphate	2524-03-0	500	500		313		
Dimethyldichlorosilane	75-78-5	500	500				5,000
3,3'-Dimethyl-4,4'-diphenylene diisocyanate	91-97-4				313#		
3,3'-Dimethyldiphenylmethane-4,4'-diisocyanate	139-25-3				313#		

NAME	CAS/313 Category Codes	Section 302 (EHS) TPQ	Section 304 EHS RQ	CERCLA RQ	Section 313	RCRA CODE	CAA 112(r) TQ
N-(5-(1,1-Dimethylethyl)-1,3,4-thiadiazol-2-yl)-N,N'-dimethylurea	34014-18-1				X		
Dimethylformamide	68-12-2			100	X		
N,N-Dimethylformamide	68-12-2			100	313		
1,1-Dimethyl hydrazine	57-14-7	1,000	10	10	313	U098	15,000
Dimethylhydrazine	57-14-7	1,000	10	10	X	U098	15,000
O,O-Dimethyl O-(3-methyl-4-(methylthio) phenyl) ester, phosphorothioic acid	55-38-9				X		
2,2-Dimethyl-3-(2-methyl-1-propenyl)cyclopropanecarboxylic acid (1,3,4,5,6,7-hexahydro-1,3-dioxo-2H-isoindol-2-yl)methyl ester	7696-12-0				X		
2,2-Dimethyl-3-(2-methyl-1-propenyl)cyclopropanecarboxylic acid (3-phenoxyphenyl)methyl ester	26002-80-2				X		
2,4-Dimethylphenol	105-67-9			100	313	U101	
Dimethyl-p-phenylenediamine	99-98-9	10/10,000	10				
Dimethyl phosphorochloridothioate	2524-03-0	500	500		X		
Dimethyl phthalate	131-11-3			5,000	313	U102	
2,2-Dimethylpropane	463-82-1						10,000
Dimethyl sulfate	77-78-1	500	100	100	313	U103	
O,O-Dimethyl-O-(3,5,6-trichloro-2-pyridyl)phosphorothioate	5598-13-0				X		
Dimetilan	644-64-4	500/10,000	1	1		P191	
Dinitrobenzene (mixed isomers)	25154-54-5			100			
m-Dinitrobenzene	99-65-0			100	313		
o-Dinitrobenzene	528-29-0			100	313		
p-Dinitrobenzene	100-25-4			100	313		
Dinitrobutyl phenol	88-85-7	100/10,000	1,000	1,000	313	P020	
4,6-Dinitro-o-cresol	534-52-1	10/10,000	10	10	313	P047	
Dinitrocresol	534-52-1	10/10,000	10	10	X	P047	
4,6-Dinitro-o-cresol and salts	534-52-1			10		P047	
Dinitrophenol	25550-58-7			10			
2,4-Dinitrophenol	51-28-5			10	313	P048	
2,5-Dinitrophenol	329-71-5			10			
2,6-Dinitrophenol	573-56-8			10			
1,6-Dinitropyrene	42397-64-8				313+		
1,8-Dinitropyrene	42397-65-9				313+		
Dinitrotoluene (mixed isomers)	25321-14-6			10	313		
2,4-Dinitrotoluene	121-14-2			10	313	U105	
2,6-Dinitrotoluene	606-20-2			100	313	U106	
3,4-Dinitrotoluene	610-39-9			10			
Dinocap	39300-45-3				313		
Dinoseb	88-85-7	100/10,000	1,000	1,000	X	P020	
Dinoterb	1420-07-1	500/10,000	500				
Di-n-octyl phthalate	117-84-0			5,000		U107	
n-Dioctylphthalate	117-84-0			5,000		U107	
1,4-Dioxane	123-91-1			100	313	U108	
Dioxathion	78-34-2	500	500				
Dioxin and dioxin-like compounds (includes only 17 chemicals)	N150				313		

NAME	CAS/313 Category Codes	Section 302 (EHS) TPQ	Section 304 EHS RQ	CERCLA RQ	Section 313	RCRA CODE	CAA 112(r) TQ
Diphacinone	82-66-6	10/10,000	10				
Diphenamid	957-51-7				313		
Diphenylamine	122-39-4				313		
1,2-Diphenylhydrazine	122-66-7			10	313	U109	
Diphenylhydrazine	N.A.			&			
Diphosphoramide, octamethyl-	152-16-9	100	100	100		P085	
Dipotassium endothall	2164-07-0				313		
Dipropylamine	142-84-7			5,000		U110	
4-(Dipropylamino)-3,5-dinitrobenzenesulfonamide	19044-88-3				X		
Dipropyl isocinchomeronate	136-45-8				313		
Di-n-propylnitrosamine	621-64-7			10	X	U111	
Diquat	85-00-7			1,000			
Diquat	2764-72-9			1,000			
Disodium cyanodithioimidocarbonate	138-93-2				313		
Disulfoton	298-04-4	500	1	1		P039	
Dithiazanine iodide	514-73-8	500/10,000	500				
Dithiobiuret	541-53-7	100/10,000	100	100	X	P049	
2,4-Dithiobiuret	541-53-7	100/10,000	100	100	313	P049	
Diuron	330-54-1			100	313		
Dodecylbenzenesulfonic acid	27176-87-0			1,000			
Dodecylguanidine monoacetate	2439-10-3				X		
Dodine	2439-10-3				313		
2,4-DP	120-36-5				313		
2,4-D sodium salt	2702-72-9				313		
Emetine, dihydrochloride	316-42-7	1/10,000	1				
Endosulfan	115-29-7	10/10,000	1	1		P050	
alpha - Endosulfan	959-98-8			1			
beta - Endosulfan	33213-65-9			1			
Endosulfan and Metabolites	N.A.			&			
Endosulfan sulfate	1031-07-8			1			
Endothall	145-73-3			1,000		P088	
Endothion	2778-04-3	500/10,000	500				
Endrin	72-20-8	500/10,000	1	1		P051	
Endrin aldehyde	7421-93-4			1			
Endrin and Metabolites	N.A.			&			
Epichlorohydrin	106-89-8	1,000	100	100	313	U041	20,000
Epinephrine	51-43-4			1,000		P042	
EPN	2104-64-5	100/10,000	100				
EPTC	759-94-4				X		
Ergocalciferol	50-14-6	1,000/10,000	1,000				
Ergotamine tartrate	379-79-3	500/10,000	500				
Ethanamine	75-04-7			100			10,000
Ethane	74-84-0						10,000
Ethane, chloro-	75-00-3			100	X		10,000
1,2-Ethanediamine	107-15-3	10,000	5,000	5,000			20,000
Ethane, 1,1-difluoro-	75-37-6						10,000
Ethanedinitrile	460-19-5			100		P031	10,000
Ethane, 1,1'-oxybis-	60-29-7			100		U117	10,000
Ethaneperoxoic acid	79-21-0	500	500		X		10,000
Ethanesulfonyl chloride, 2-chloro-	1622-32-8	500	500				
Ethane, 1,1,1,2-tetrachloro-	630-20-6			100	X	U208	

NAME	CAS/313 Category Codes	Section 302 (EHS) TPQ	Section 304 EHS RQ	CERCLA RQ	Section 313	RCRA CODE	CAA 112(r) TQ
Ethane, 1,1'-thiobis[2-chloro-	505-60-2	500	500		X		
Ethanethiol	75-08-1						10,000
Ethane, 1,1,2-trichloro-1,2,2,-trifluoro-	76-13-1				X		
Ethanimidothioic acid, 2-(dimethylamino)-N-hydroxy-2-oxo-, methyl ester	30558-43-1			5,000		U394	
Ethanimidothioic acid, N-[[methylamino)carbonyl]	16752-77-5	500/10,000	100	100		P066	
Ethanol, 1,2-dichloro-, acetate	10140-87-1	1,000	1,000				
Ethanol, 2-ethoxy-	110-80-5			1,000	X	U359	
Ethanol, 2,2'-oxybis-, dicarbamate	5952-26-1			5,000		U395	
Ethene	74-85-1				X		10,000
Ethene, bromotrifluoro-	598-73-2						10,000
Ethene, chloro-	75-01-4			1	X	U043	10,000
Ethene, chlorotrifluoro-	79-38-9						10,000
Ethene, 1,1-dichloro-	75-35-4			100	X	U078	10,000
Ethene, 1,1-difluoro-	75-38-7						10,000
Ethene, ethoxy-	109-92-2						10,000
Ethene, fluoro-	75-02-5						10,000
Ethene, methoxy-	107-25-5						10,000
Ethene, tetrafluoro-	116-14-3						10,000
Ethion	563-12-2	1,000	10	10			
Ethoprop	13194-48-4	1,000	1,000		313		
Ethoprophos	13194-48-4	1,000	1,000		X		
2-Ethoxyethanol	110-80-5			1,000	313	U359	
2-(1-(Ethoxyimino) butyl)-5-(2-(ethylthio)propyl)-3-hydroxyl-2-cyclohexen-1-one	74051-80-2				X		
2-((Ethoxyl((1-methylethyl)amino]phosphinothioyl]oxy) benzoic acid 1-methylethyl ester	25311-71-1				X		
Ethyl acetate	141-78-6			5,000		U112	
Ethyl acetylene	107-00-6						10,000
Ethyl acrylate	140-88-5			1,000	313	U113	
3-((Ethylamino)methoxyphosphinothioyl)oxy)-2-butenoic acid, 1-methylethyl ester	31218-83-4				X		
Ethylbenzene	100-41-4			1,000	313		
Ethylbis(2-chloroethyl)amine	538-07-8	500	500				
Ethyl carbamate	51-79-6			100	X	U238	
Ethyl chloride	75-00-3			100	X		10,000
Ethyl chloroformate	541-41-3				313		
Ethyl-2-(((((4-chloro-6-methoxyprimidin-2-yl)amino)carbonyl)amino)sulfonyl)benzoate	90982-32-4				X		
Ethyl cyanide	107-12-0	500	10	10		P101	10,000
Ethyl dipropylthiocarbamate	759-94-4				313		
Ethylene	74-85-1				313		10,000
Ethylenebisdithiocarbamic acid, salts and esters	N171				313		

NAME	CAS/313 Category Codes	Section 302 (EHS) TPQ	Section 304 EHS RQ	CERCLA RQ	Section 313	RCRA CODE	CAA 112(r) TQ
Ethylenebisdithiocarbamic acid, salts & esters	111-54-6			5,000	X	U114	
Ethylenediamine	107-15-3	10,000	5,000	5,000			20,000
Ethylenediamine-tetraacetic acid (EDTA)	60-00-4			5,000			
Ethylene dibromide	106-93-4			1	X	U067	
Ethylene dichloride	107-06-2			100	X	U077	
Ethylene fluorohydrin	371-62-0	10	10				
Ethylene glycol	107-21-1			5,000	313		
Ethyleneimine	151-56-4	500	1	1	313	P054	10,000
Ethylene oxide	75-21-8	1,000	10	10	313	U115	10,000
Ethylene thiourea	96-45-7			10	313	U116	
Ethyl ether	60-29-7			100		U117	10,000
Ethylidene Dichloride	75-34-3			1,000	313	U076	
Ethyl mercaptan	75-08-1						10,000
Ethyl methacrylate	97-63-2			1,000		U118	
Ethyl methanesulfonate	62-50-0			1		U119	
N-Ethyl-N'-(1-methylethyl)-6-(methylthio)-1,3,5,-triazine-2,4-diamine	834-12-8				X		
O-Ethyl O-(4-(methylthio)phenyl)phosphorodithioic acid S-propyl ester	35400-43-2				X		
Ethyl nitrite	109-95-5						10,000
N-(1-Ethylpropyl)-3,4-dimethyl-2,6-dinitrobenzenamine	40487-42-1				X		
S-(2-(Ethylsulfinyl)ethyl) O,O-dimethyl ester phosphorothioic acid	301-12-2				X		
Ethylthiocyanate	542-90-5	10,000	10,000				
Ethyne	74-86-2						10,000
Famphur	52-85-7			1,000	313	P097	
Fenamiphos	22224-92-6	10/10,000	10				
Fenarimol	60168-88-9				313		
Fenbutatin oxide	13356-08-6				313		
Fenoxaprop ethyl	66441-23-4				313		
Fenoxycarb	72490-01-8				313		
Fenpropathrin	39515-41-8				313		
Fensulfothion	115-90-2	500	500				
Fenthion	55-38-9				313		
Fenvalerate	51630-58-1				313		
Ferbam	14484-64-1				313		
Ferric ammonium citrate	1185-57-5			1,000			
Ferric ammonium oxalate	2944-67-4			1,000			
Ferric ammonium oxalate	55488-87-4			1,000			
Ferric chloride	7705-08-0			1,000			
Ferric fluoride	7783-50-8			100			
Ferric nitrate	10421-48-4			1,000			
Ferric sulfate	10028-22-5			1,000			
Ferrous ammonium sulfate	10045-89-3			1,000			
Ferrous chloride	7758-94-3			100			
Ferrous sulfate	7720-78-7			1,000			
Ferrous sulfate	7782-63-0			1,000			

NAME	CAS/313 Category Codes	Section 302 (EHS) TPQ	Section 304 EHS RQ	CERCLA RQ	Section 313	RCRA CODE	CAA 112(r) TQ
Fine mineral fibers	N.A.			&			
Fluazifop butyl	69806-50-4				313		
Fluenetil	4301-50-2	100/10,000	100				
Fluometuron	2164-17-2				313		
Fluoranthene	206-44-0			100	X	U120	
Fluorene	86-73-7			5,000			
Fluorine	7782-41-4	500	10	10	313	P056	1,000
Fluoroacetamide	640-19-7	100/10,000	100	100		P057	
Fluoroacetic acid	144-49-0	10/10,000	10				
Fluoroacetic acid, sodium salt	62-74-8	10/10,000	10	10	X	P058	
Fluoroacetyl chloride	359-06-8	10	10				
Fluorouracil	51-21-8	500/10,000	500		313		
5-Fluorouracil	51-21-8	500/10,000	500		X		
Fluvalinate	69409-94-5				313		
Folpet	133-07-3				313		
Fomesafen	72178-02-0				313		
Fonofos	944-22-9	500	500				
Formaldehyde	50-00-0	500	100	100	313	U122	15,000
Formaldehyde cyanohydrin	107-16-4	1,000	1,000				
Formaldehyde (solution)	50-00-0	500	100	100	X	U122	15,000
Formetanate hydrochloride	23422-53-9	500/10,000	100	100		P198	
Formic acid	64-18-6			5,000	313	U123	
Formic acid, methyl ester	107-31-3						10,000
Formothion	2540-82-1	100	100				
Formparanate	17702-57-7	100/10,000	100	100		P197	
Fosthietan	21548-32-3	500	500				
Freon 113	76-13-1				313		
Fuberidazole	3878-19-1	100/10,000	100				
Fumaric acid	110-17-8			5,000			
Furan	110-00-9	500	100	100	313	U124	5,000
Furan, tetrahydro-	109-99-9			1,000		U213	
Furfural	98-01-1			5,000		U125	
Gallium trichloride	13450-90-3	500/10,000	500				
Glycidol	556-52-5				313		
Glycidylaldehyde	765-34-4			10		U126	
Glycol Ethers	N230			&	313		
Guanidine, N-methyl-N'-nitro-N-nitroso-	70-25-7			10		U163	
Guthion	86-50-0	10/10,000	1	1			
Haloethers	N.A.			&			
Halomethanes	N.A.			&			
Halon 1211	353-59-3				X		
Halon 1301	75-63-8				X		
Halon 2402	124-73-2				X		
HCFC-121	354-14-3				X		
HCFC-121a	354-11-0				X		
HCFC-123	306-83-2				X		
HCFC-123a	354-23-4				X		
HCFC-123b	812-04-4				X		
HCFC-124	2837-89-0				X		
HCFC-124a	354-25-6				X		
HCFC-132b	1649-08-7				X		

NAME	CAS/313 Category Codes	Section 302 (EHS) TPQ	Section 304 EHS RQ	CERCLA RQ	Section 313	RCRA CODE	CAA 112(r) TQ
HCFC-133a	75-88-7				X		
HCFC-141b	1717-00-6				X		
HCFC-142b	75-68-3				X		
HCFC-21	75-43-4				X		
HCFC-22	75-45-6				X		
HCFC-225aa	128903-21-9				X		
HCFC-225ba	422-48-0				X		
HCFC-225bb	422-44-6				X		
HCFC-225ca	422-56-0				X		
HCFC-225cb	507-55-1				X		
HCFC-225cc	13474-88-9				X		
HCFC-225da	431-86-7				X		
HCFC-225ea	136013-79-1				X		
HCFC-225eb	111512-56-2				X		
HCFC-253fb	460-35-5				X		
Heptachlor	76-44-8			1	313	P059	
Heptachlor and Metabolites	N.A.			&			
Heptachlor epoxide	1024-57-3			1			
1,2,3,4,6,7,8-heptachlorodibenzo-p-dioxin	35822-46-9				313!		
1,2,3,4,7,8,9-heptachlorodibenzofuran	55673-89-7				313!		
1,2,3,4,6,7,8-heptachlorodibenzofuran	67562-39-4				313!		
1,4,5,6,7,8,8-Heptachloro-3a,4,7,7a-tetrahydro-4,7-methano-1H-indene	76-44-8			1	X	P059	
Hexachlorobenzene	118-74-1			10	313	U127	
Hexachloro-1,3-butadiene	87-68-3			1	313	U128	
Hexachlorobutadiene	87-68-3			1	X	U128	
Hexachlorocyclohexane (all isomers)	608-73-1			&			
alpha-Hexachlorocyclohexane	319-84-6			10	313		
Hexachlorocyclohexane (gamma isomer)	58-89-9	1,000/10,000	1	1	X	U129	
Hexachlorocyclopentadiene	77-47-4	100	10	10	313	U130	
1,2,3,7,8,9-hexachlorodibenzo-p-dioxin	19408-74-3				313!		
1,2,3,4,7,8-hexachlorodibenzo-p-dioxin	39227-28-6				313!		
1,2,3,6,7,8-hexachlorodibenzo-p-dioxin	57653-85-7				313!		
1,2,3,6,7,8-hexachlorodibenzofuran	57117-44-9				313!		
2,3,4,6,7,8-hexachlorodibenzofuran	60851-34-5				313!		
1,2,3,4,7,8-hexachlorodibenzofuran	70648-26-9				313!		
1,2,3,7,8,9-hexachlorodibenzofuran	72918-21-9				313!		
Hexachloroethane	67-72-1			100	313	U131	
Hexachloronaphthalene	1335-87-1				313		
Hexachlorophene	70-30-4			100	313	U132	
Hexachloropropene	1888-71-7			1,000		U243	
Hexaethyl tetraphosphate	757-58-4			100		P062	
Hexakis(2-methyl-2-phenylpropyl)distannoxane	13356-08-6				X		
Hexamethylenediamine, N,N'-dibutyl-	4835-11-4	500	500				
Hexamethylene-1,6-diisocyanate	822-06-0			100	313#		
Hexamethylphosphoramide	680-31-9			1	313		

NAME	CAS/313 Category Codes	Section 302 (EHS) TPQ	Section 304 EHS RQ	CERCLA RQ	Section 313	RCRA CODE	CAA 112(r) TQ
Hexane	110-54-3			5,000	X		
n-Hexane	110-54-3			5,000	313		
Hexazinone	51235-04-2				313		
Hydramethylnon	67485-29-4				313		
Hydrazine	302-01-2	1,000	1	1	313	U133	15,000
Hydrazine, 1,2-diethyl-	1615-80-1			10		U086	
Hydrazine, 1,1-dimethyl-	57-14-7	1,000	10	10	X	U098	15,000
Hydrazine, 1,2-dimethyl-	540-73-8			1		U099	
Hydrazine, 1,2-diphenyl-	122-66-7			10	X	U109	
Hydrazine, methyl-	60-34-4	500	10	10	X	P068	15,000
Hydrazine sulfate	10034-93-2				313		
Hydrazobenzene	122-66-7			10	X	U109	
Hydrochloric acid	7647-01-0			5,000			
Hydrochloric acid (conc 37% or greater)	7647-01-0			5,000			15,000
Hydrochloric acid (aerosol forms only)	7647-01-0			5,000	313		
Hydrocyanic acid	74-90-8	100	10	10	X	P063	2,500
Hydrofluoric acid	7664-39-3	100	100	100	X	U134	
Hydrofluoric acid (conc. 50% or greater)	7664-39-3	100	100	100	X	U134	1,000
Hydrogen	1333-74-0						10,000
Hydrogen chloride (anhydrous)	7647-01-0	500	5,000	5,000	X		5,000
Hydrogen chloride (gas only)	7647-01-0	500	5,000	5,000	X		5,000
Hydrogen cyanide	74-90-8	100	10	10	313	P063	2,500
Hydrogen fluoride	7664-39-3	100	100	100	313	U134	
Hydrogen fluoride (anhydrous)	7664-39-3	100	100	100	X	U134	1,000
Hydrogen peroxide (Conc.> 52%)	7722-84-1	1,000	1,000				
Hydrogen selenide	7783-07-5	10	10		313c		500
Hydrogen sulfide	7783-06-4	500	100	100	313	U135	10,000
Hydroperoxide, 1-methyl-1-phenylethyl-	80-15-9			10	X	U096	
Hydroquinone	123-31-9	500/10,000	100	100	313		
Imazalil	35554-44-0				313		
Indeno(1,2,3-cd)pyrene	193-39-5			100	313+	U137	
3-Iodo-2-propynyl butylcarbamate	55406-53-6				313		
Iron carbonyl (Fe(CO)5), (TB-5-11)-	13463-40-6	100	100		X		2,500
Iron, pentacarbonyl-	13463-40-6	100	100		313		2,500
Isobenzan	297-78-9	100/10,000	100				
Isobutane	75-28-5						10,000
Isobutyl alcohol	78-83-1			5,000		U140	
Isobutyraldehyde	78-84-2				313		
Isobutyronitrile	78-82-0	1,000	1,000				20,000
Isocyanic acid, 3,4-dichlorophenyl ester	102-36-3	500/10,000	500				
Isodrin	465-73-6	100/10,000	1	1	313	P060	
Isofenphos	25311-71-1				313		
Isofluorphate	55-91-4	100	100	100		P043	
1H-Isoindole-1,3(2H)-dione, 3a,4,7,7a-tetrahydro-2-[(trichloromethyl)thio]-	133-06-2			10	X		
Isononylphenol	11066-49-2				313$		
4-Isononylphenol	26543-97-5				313$		

NAME	CAS/313 Category Codes	Section 302 (EHS) TPQ	Section 304 EHS RQ	CERCLA RQ	Section 313	RCRA CODE	CAA 112(r) TQ
Isopentane	78-78-4						10,000
Isophorone	78-59-1			5,000			
Isophorone diisocyanate	4098-71-9	500	500		313#		
Isoprene	78-79-5			100	313		10,000
Isopropanolamine dodecylbenzene sulfonate	42504-46-1			1,000			
Isopropyl alcohol (mfg-strong acid process)	67-63-0				313		
Isopropylamine	75-31-0						10,000
Isopropyl chloride	75-29-6						10,000
Isopropyl chloroformate	108-23-6	1,000	1,000				15,000
4,4'-Isopropylidenediphenol	80-05-7				313		
Isopropylmethylpyrazolyl dimethylcarbamate	119-38-0	500	100	100		P192	
Isosafrole	120-58-1			100	313	U141	
Isothiocyanatomethane	556-61-6	500	500		X		
Kepone	143-50-0			1		U142	
Lactofen	77501-63-4				313		
Lactonitrile	78-97-7	1,000	1,000				
Lasiocarpine	303-34-4			10		U143	
Lead	7439-92-1			10	313		
Lead acetate	301-04-2			10	313c	U144	
Lead arsenate	7645-25-2			1	313c		
Lead arsenate	7784-40-9			1	313c		
Lead arsenate	10102-48-4			1	313c		
Lead chloride	7758-95-4			10	313c		
Lead Compounds	N420			&	313		
Lead fluoborate	13814-96-5			10	313c		
Lead fluoride	7783-46-2			10	313c		
Lead iodide	10101-63-0			10	313c		
Lead nitrate	10099-74-8			10	313c		
Lead phosphate	7446-27-7			10	313c	U145	
Lead stearate	1072-35-1			10	313c		
Lead stearate	7428-48-0			10	313c		
Lead stearate	52652-59-2			10	313c		
Lead stearate	56189-09-4			10	313c		
Lead subacetate	1335-32-6			10	313c	U146	
Lead sulfate	7446-14-2			10	313c		
Lead sulfate	15739-80-7			10	313c		
Lead sulfide	1314-87-0			10	313c		
Lead thiocyanate	592-87-0			10	313c		
Leptophos	21609-90-5	500/10,000	500				
Lewisite	541-25-3	10	10				
Lindane	58-89-9	1,000/10,000	1	1	313	U129	
Linuron	330-55-2				313		
Lithium carbonate	554-13-2				313		
Lithium chromate	14307-35-8			10	313c		
Lithium hydride	7580-67-8	100	100				
Malathion	121-75-5			100	313		
Maleic acid	110-16-7			5,000			
Maleic anhydride	108-31-6			5,000	313	U147	
Maleic hydrazide	123-33-1			5,000		U148	

NAME	CAS/313 Category Codes	Section 302 (EHS) TPQ	Section 304 EHS RQ	CERCLA RQ	Section 313	RCRA CODE	CAA 112(r) TQ
Malononitrile	109-77-3	500/10,000	1,000	1,000	313	U149	
Maneb	12427-38-2				313		
Manganese	7439-96-5				313		
Manganese, bis(dimethylcarbamodithioato-S,S')-	15339-36-3			10	313c	P196	
Manganese Compounds	N450			&	313		
Manganese, tricarbonyl methylcyclopentadienyl	12108-13-3	100	100		313c		
MBOCA	101-14-4			10	X	U158	
MBT	149-30-4				X		
MCPA	94-74-6				X		
MDI	101-68-8			5,000	X		
Mechlorethamine	51-75-2	10	10		X		
Mecoprop	93-65-2				313		
Melphalan	148-82-3			1		U150	
Mephosfolan	950-10-7	500	500				
2-Mercaptobenzothiazole	149-30-4				313		
Mercaptodimethur	2032-65-7	500/10,000	10	10	X	P199	
Mercuric acetate	1600-27-7	500/10,000	500		313c		
Mercuric chloride	7487-94-7	500/10,000	500		313c		
Mercuric cyanide	592-04-1			1	313c		
Mercuric nitrate	10045-94-0			10	313c		
Mercuric oxide	21908-53-2	500/10,000	500		313c		
Mercuric sulfate	7783-35-9			10	313c		
Mercuric thiocyanate	592-85-8			10	313c		
Mercurous nitrate	7782-86-7			10	313c		
Mercurous nitrate	10415-75-5			10	313c		
Mercury	7439-97-6			1	313	U151	
Mercury Compounds	N458			&	313		
Mercury fulminate	628-86-4			10	313c	P065	
Merphos	150-50-5				313		
Methacrolein diacetate	10476-95-6	1,000	1,000				
Methacrylic anhydride	760-93-0	500	500				
Methacrylonitrile	126-98-7	500	1,000	1,000	313	U152	10,000
Methacryloyl chloride	920-46-7	100	100				
Methacryloyloxyethyl isocyanate	30674-80-7	100	100				
Methamidophos	10265-92-6	100/10,000	100				
Metham sodium	137-42-8				313		
Methanamine	74-89-5			100			10,000
Methanamine, N,N-dimethyl-	75-50-3			100			10,000
Methanamine, N-methyl-	124-40-3			1,000	X	U092	10,000
Methanamine, N-methyl-N-nitroso-	62-75-9	1,000	10	10	X	P082	
Methane	74-82-8						10,000
Methane, chloro-	74-87-3			100	X	U045	10,000
Methane, chloromethoxy-	107-30-2	100	10	10	X	U046	5,000
Methane, isocyanato-	624-83-9	500	10	10	X	P064	10,000
Methane, oxybis-	115-10-6						10,000
Methane, oxybis[chloro-	542-88-1	100	10	10	X	P016	1,000
Methanesulfenyl chloride, trichloro-	594-42-3	500	100	100	X		10,000
Methanesulfonyl fluoride	558-25-8	1,000	1,000				
Methane, tetranitro-	509-14-8	500	10	10		P112	10,000
Methanethiol	74-93-1	500	100	100	X	U153	10,000

NAME	CAS/313 Category Codes	Section 302 (EHS) TPQ	Section 304 EHS RQ	CERCLA RQ	Section 313	RCRA CODE	CAA 112(r) TQ
Methane, trichloro-	67-66-3	10,000	10	10	X	U044	20,000
4,7-Methanoindan, 1,2,3,4,5,6,7,8,8-octachloro-2,3,3a,4,7,7a-hexahydro-	57-74-9	1,000	1	1	X	U036	
Methanol	67-56-1			5,000	313	U154	
Methapyrilene	91-80-5			5,000		U155	
Methazole	20354-26-1				313		
Methidathion	950-37-8	500/10,000	500				
Methiocarb	2032-65-7	500/10,000	10	10	313	P199	
Methomyl	16752-77-5	500/10,000	100	100		P066	
Methoxone	94-74-6				313		
Methoxone sodium salt	3653-48-3				313		
Methoxychlor	72-43-5			1	313	U247	
2-Methoxyethanol	109-86-4				313		
Methoxyethylmercuric acetate	151-38-2	500/10,000	500		313c		
2-(4-Methoxy-6-methyl-1,3,5-triazin-2-yl)-methylamino)carbonyl)amino)sulfonyl) benzoic acid, methyl ester	101200-48-0				X		
Methyl acrylate	96-33-3				313		
Methyl bromide	74-83-9	1,000	1,000	1,000	X	U029	
2-Methyl-1-butene	563-46-2						10,000
3-Methyl-1-butene	563-45-1						10,000
Methyl chloride	74-87-3			100	X	U045	10,000
Methyl 2-chloroacrylate	80-63-7	500	500				
Methyl chlorocarbonate	79-22-1	500	1,000	1,000	313	U156	5,000
Methyl chloroform	71-55-6			1,000	X	U226	
Methyl chloroformate	79-22-1	500	1,000	1,000	X	U156	5,000
3-Methylcholanthrene	56-49-5			10	313+	U157	
5-Methylchrysene	3697-24-3				313+		
4-Methyldiphenylmethane-3,4-diisocyanate	75790-84-0				313#		
6-Methyl-1,3-dithiolo[4,5-b]quinoxalin-2-one	2439-01-2				X		
4,4'-Methylenebis(2-chloroaniline)	101-14-4			10	313	U158	
2,2'-Methylenebis(4-chlorophenol	97-23-4				X		
4,4'-Methylenebis(N,N-dimethyl)benzenamine	101-61-1				313		
1,1'-Methylene bis(4-isocyanatocyclohexane)	5124-30-1				313#		
Methylenebis(phenylisocyanate)	101-68-8			5,000	313#		
Methylene bromide	74-95-3			1,000	313	U068	
Methylene chloride	75-09-2			1,000	X	U080	
4,4'-Methylenedianiline	101-77-9			10	313		
Methyl ether	115-10-6						10,000
Methyl ethyl ketone	78-93-3			5,000		U159	
Methyl ethyl ketone peroxide	1338-23-4			10		U160	
Methyleugenol	93-15-2				313		
Methyl formate	107-31-3						10,000
Methyl hydrazine	60-34-4	500	10	10	313	P068	15,000
Methyl iodide	74-88-4			100	313	U138	
Methyl isobutyl ketone	108-10-1			5,000	313	U161	
Methyl isocyanate	624-83-9	500	10	10	313	P064	10,000

NAME	CAS/313 Category Codes	Section 302 (EHS) TPQ	Section 304 EHS RQ	CERCLA RQ	Section 313	RCRA CODE	CAA 112(r) TQ
Methyl isothiocyanate	556-61-6	500	500		313		
2-Methyllactonitrile	75-86-5	1,000	10	10	313	P069	
Methyl mercaptan	74-93-1	500	100	100	313s	U153	10,000
Methylmercuric dicyanamide	502-39-6	500/10,000	500		313c		
Methyl methacrylate	80-62-6			1,000	313	U162	
N-Methylolacrylamide	924-42-5				313		
Methyl parathion	298-00-0	100/10,000	100	100	313	P071	
Methyl phenkapton	3735-23-7	500	500				
Methyl phosphonic dichloride	676-97-1	100	100				
2-Methylpropene	115-11-7						10,000
2-Methylpyridine	109-06-8			5,000	313	U191	
N-Methyl-2-pyrrolidone	872-50-4				313		
Methyl tert-butyl ether	1634-04-4			1,000	313		
Methyl thiocyanate	556-64-9	10,000	10,000				20,000
Methylthiouracil	56-04-2			10		U164	
Methyltrichlorosilane	75-79-6	500	500				5,000
Methyl vinyl ketone	78-94-4	10	10				
Metiram	9006-42-2				313		
Metolcarb	1129-41-5	100/10,000	1,000	1,000		P190	
Metribuzin	21087-64-9				313		
Mevinphos	7786-34-7	500	10	10	313		
Mexacarbate	315-18-4	500/10,000	1,000	1,000		P128	
Michler's ketone	90-94-8				313		
Mitomycin C	50-07-7	500/10,000	10	10		U010	
Molinate	2212-67-1				313		
Molybdenum trioxide	1313-27-5				313		
Monochloropentafluoroethane	76-15-3				313		
Monocrotophos	6923-22-4	10/10,000	10				
Monoethylamine	75-04-7			100			10,000
Monomethylamine	74-89-5			100			10,000
Monuron	150-68-5				313		
Muscimol	2763-96-4	500/10,000	1,000	1,000		P007	
Mustard gas	505-60-2	500	500		313		
Myclobutanil	88671-89-0				313		
Nabam	142-59-6				313		
Naled	300-76-5			10	313		
Naphthalene	91-20-3			100	313	U165	
1,5-Naphthalene diisocyanate	3173-72-6				313#		
1-Naphthalenol, methylcarbamate	63-25-2			100	X	U279	
Naphthenic acid	1338-24-5			100			
1,4-Naphthoquinone	130-15-4			5,000		U166	
alpha-Naphthylamine	134-32-7			100	313	U167	
beta-Naphthylamine	91-59-8			10	313	U168	
Nickel	7440-02-0			100	313		
Nickel ammonium sulfate	15699-18-0			100	313c		
Nickel carbonyl	13463-39-3	1	10	10	313c	P073	1,000
Nickel chloride	7718-54-9			100	313c		
Nickel chloride	37211-05-5			100	313c		
Nickel Compounds	N495			&	313		
Nickel cyanide	557-19-7			10	313c	P074	
Nickel hydroxide	12054-48-7			10	313c		

NAME	CAS/313 Category Codes	Section 302 (EHS) TPQ	Section 304 EHS RQ	CERCLA RQ	Section 313	RCRA CODE	CAA 112(r) TQ
Nickel nitrate	14216-75-2			100	313c		
Nickel sulfate	7786-81-4			100	313c		
Nicotine	54-11-5	100	100	100	313c	P075	
Nicotine and salts	N503				313		
Nicotine and salts	54-11-5			100	313c	P075	
Nicotine sulfate	65-30-5	100/10,000	100	100	313c		
Nitrapyrin	1929-82-4				313		
Nitrate compounds (water dissociable)	N511				313		
Nitric acid	7697-37-2	1,000	1,000	1,000	313		
Nitric acid (conc 80% or greater)	7697-37-2	1,000	1,000	1,000	X		15,000
Nitric oxide	10102-43-9	100	10	10 @		P076	10,000
Nitrilotriacetic acid	139-13-9				313		
p-Nitroaniline	100-01-6			5,000	313	P077	
5-Nitro-o-anisidine	99-59-2				313		
Nitrobenzene	98-95-3	10,000	1,000	1,000	313	U169	
4-Nitrobiphenyl	92-93-3			10	313		
6-Nitrochrysene	7496-02-8				313+		
Nitrocyclohexane	1122-60-7	500	500				
Nitrofen	1836-75-5				313		
Nitrogen dioxide	10102-44-0	100	10	10 @		P078	
Nitrogen dioxide	10544-72-6			10 @			
Nitrogen mustard	51-75-2	10	10		313		
Nitrogen oxide (NO)	10102-43-9	100	10	10 @		P076	10,000
Nitroglycerin	55-63-0			10	313	P081	
Nitromethane	75-52-5				313		
Nitrophenol (mixed isomers)	25154-55-6			100			
2-Nitrophenol	88-75-5			100	313		
4-Nitrophenol	100-02-7			100	313	U170	
m-Nitrophenol	554-84-7			100			
p-Nitrophenol	100-02-7			100	X	U170	
Nitrophenols	N.A.			&			
2-Nitropropane	79-46-9			10	313	U171	
1-Nitropyrene	5522-43-0				313+		
4–Nitropyrene	57835-92-4				313+		
Nitrosamines	N.A.			&			
N-Nitrosodi-n-butylamine	924-16-3			10	313	U172	
N-Nitrosodiethanolamine	1116-54-7			1		U173	
N-Nitrosodiethylamine	55-18-5			1	313	U174	
N-Nitrosodimethylamine	62-75-9	1,000	10	10	313	P082	
Nitrosodimethylamine	62-75-9	1,000	10	10	X	P082	
N-Nitrosodiphenylamine	86-30-6			100	313		
p-Nitrosodiphenylamine	156-10-5				313		
N-Nitrosodi-n-propylamine	621-64-7			10	313	U111	
N-Nitroso-N-ethylurea	759-73-9			1	313	U176	
N-Nitroso-N-methylurea	684-93-5			1	313	U177	
N-Nitroso-N-methylurethane	615-53-2			1		U178	
N-Nitrosomethylvinylamine	4549-40-0			10	313	P084	
N-Nitrosomorpholine	59-89-2			1	313		
N-Nitrosonornicotine	16543-55-8				313		
N-Nitrosopiperidine	100-75-4			10	313	U179	
N-Nitrosopyrrolidine	930-55-2			1		U180	

NAME	CAS/313 Category Codes	Section 302 (EHS) TPQ	Section 304 EHS RQ	CERCLA RQ	Section 313	RCRA CODE	CAA 112(r) TQ
Nitrotoluene	1321-12-6			1,000			
m-Nitrotoluene	99-08-1			1,000			
o-Nitrotoluene	88-72-2			1,000	313		
p-Nitrotoluene	99-99-0			1,000			
5-Nitro-o-toluidine	99-55-8			100	313	U181	
Nitrous acid, ethyl ester	109-95-5						10,000
Nonylphenol (includes only 6 chemicals)	N530				313		
Nonylphenol	25154-52-3				313$		
Nonylphenol, branched	90481-04-2				313$		
4-Nonylphenol	104-40-5				313$		
4-Nonylphenol, branched	84852-15-3				313$		
Norbormide	991-42-4	100/10,000	100				
Norflurazon	27314-13-2				313		
1,2,3,4,6,7,8,9-octachlorodibenzo-p-dioxin	3268-87-9				313!		
1,2,3,4,6,7,8,9-octachlorodibenzofuran	39001-02-0				313!		
Octachloronaphthalene	2234-13-1				313		
Octachlorostyrene	29082-74-4				313		
Octanoic acid, 2,6-dibromo-4-cyanophenyl ester	1689-99-2				X		
Oleum (fuming sulfuric acid)	8014-95-7			1,000			10,000
o-Nitroanisole	91-23-6				313		
Organorhodium Complex (PMN-82-147)	0	10/10,000	10	PMN			
Oryzalin	19044-88-3				313		
Osmium oxide OsO4 (T-4)-	20816-12-0			1,000	X	P087	
Osmium tetroxide	20816-12-0			1,000	313	P087	
Ouabain	630-60-4	100/10,000	100				
7-Oxabicyclo(2.2.1)heptane-2,3-dicarboxylic acid, dipotassium salt	2164-07-0				X		
Oxamyl	23135-22-0	100/10,000	100	100		P194	
Oxetane, 3,3-bis(chloromethyl)-	78-71-7	500	500				
Oxirane	75-21-8	1,000	10	10	X	U115	10,000
Oxirane, (chloromethyl)-	106-89-8	1,000	100	100	X	U041	20,000
Oxirane, methyl-	75-56-9	10,000	100	100	X		10,000
Oxydemeton methyl	301-12-2				313		
Oxydiazon	19666-30-9				313		
Oxydisulfoton	2497-07-6	500	500				
Oxyfluorfen	42874-03-3				313		
Ozone	10028-15-6	100	100		313		
Paraformaldehyde	30525-89-4			1,000			
Paraldehyde	123-63-7			1,000	313	U182	
Paraquat dichloride	1910-42-5	10/10,000	10		313		
Paraquat methosulfate	2074-50-2	10/10,000	10				
Parathion	56-38-2	100	10	10	313	P089	
Parathion-methyl	298-00-0	100/10,000	100	100	X	P071	
Paris green	12002-03-8	500/10,000	1	1			
PCBs	1336-36-3			1	X		
PCNB	82-68-8			100	X	U185	
PCP	87-86-5			10	X		

NAME	CAS/313 Category Codes	Section 302 (EHS) TPQ	Section 304 EHS RQ	CERCLA RQ	Section 313	RCRA CODE	CAA 112(r) TQ
Pebulate	1114-71-2				313		
Pendimethalin	40487-42-1				313		
Pentaborane	19624-22-7	500	500				
Pentachlorobenzene	608-93-5			10	313	U183	
1,2,3,7,8-pentachlorodibenzo-p-dioxin	40321-76-4				313!		
2,3,4,7,8-pentachlorodibenzofuran	57117-31-4				313!		
1,2,3,7,8-pentachlorodibenzofuran	57117-41-6				313!		
Pentachloroethane	76-01-7			10	313	U184	
Pentachloronitrobenzene	82-68-8			100	X	U185	
Pentachlorophenol	87-86-5			10	313		
Pentadecylamine	2570-26-5	100/10,000	100				
1,3-Pentadiene	504-60-9			100		U186	10,000
Pentane	109-66-0						10,000
1-Pentene	109-67-1						10,000
2-Pentene, (E)-	646-04-8						10,000
2-Pentene, (Z)-	627-20-3						10,000
Pentobarbital sodium	57-33-0				313		
Peracetic acid	79-21-0	500	500		313		10,000
Perchloroethylene	127-18-4			100	X	U210	
Perchloromethyl mercaptan	594-42-3	500	100	100	313		10,000
Permethrin	52645-53-1				313		
Phenacetin	62-44-2			100		U187	
Phenanthrene	85-01-8			5,000	313		
Phenol	108-95-2	500/10,000	1,000	1,000	313	U188	
Phenol, 2-(1-methylethoxy)-, methylcarbamate	114-26-1			100	X	U411	
Phenol, 3-(1-methylethyl)-, methylcarbamate	64-00-6	500/10,000	10	10		P202	
Phenolphthalein	77-09-8				313		
Phenol, 2,2'-thiobis[4-chloro-6-methyl-	4418-66-0	100/10,000	100				
Phenothrin	26002-80-2				313		
Phenoxarsine, 10,10'-oxydi-	58-36-6	500/10,000	500				
(2-(4-Phenoxyphenoxy)ethyl carbamic acid ethyl ester	72490-01-8				X		
Phenyl dichloroarsine	696-28-6	500	1	1		P036	
(1,2-Phenylenebis(iminocarbonothioyl)) biscarbamic acid diethyl ester	23564-06-9				X		
1,2-Phenylenediamine	95-54-5				313		
p-Phenylenediamine	106-50-3			5,000	313		
1,3-Phenylenediamine	108-45-2				313		
1,2-Phenylenediamine dihydrochloride	615-28-1				313		
1,4-Phenylenediamine dihydrochloride	624-18-0				313		
1,4-Phenylene diisocyanate	104-49-4				313#		
1,3-Phenylene diisocyanate	123-61-5				313#		
Phenylhydrazine hydrochloride	59-88-1	1,000/10,000	1,000				
Phenylmercuric acetate	62-38-4	500/10,000	100	100	313c	P092	
Phenylmercury acetate	62-38-4	500/10,000	100	100	313c	P092	
5-(Phenylmethyl)-3-furanyl)methyl 2,2-dimethyl-3-(2-methyl-1-propenyl)cyclopropanecarboxylate	10453-86-8				X		
2-Phenylphenol	90-43-7				313		

NAME	CAS/313 Category Codes	Section 302 (EHS) TPQ	Section 304 EHS RQ	CERCLA RQ	Section 313	RCRA CODE	CAA 112(r) TQ
Phenylsilatrane	2097-19-0	100/10,000	100				
Phenylthiourea	103-85-5	100/10,000	100	100		P093	
Phenytoin	57-41-0				313		
Phorate	298-02-2	10	10	10		P094	
Phosacetim	4104-14-7	100/10,000	100				
Phosfolan	947-02-4	100/10,000	100				
Phosgene	75-44-5	10	10	10	313	P095	500
Phosphamidon	13171-21-6	100	100				
Phosphine	7803-51-2	500	100	100	313	P096	5,000
Phosphonic acid, (2,2,2-trichloro-1-hydroxyethyl)-,dimethyl ester	52-68-6			100	X		
Phosphonothioic acid, methyl-, O-ethyl O-(4-(methylthio)phenyl) ester	2703-13-1	500	500				
Phosphonothioic acid, methyl-, S-(2-(bis(1-methylethyl)amino)ethyl) O-ethyl ester	50782-69-9	100	100				
Phosphonothioic acid, methyl-, O-(4-nitrophenyl) O-phenyl ester	2665-30-7	500	500				
Phosphoric acid	7664-38-2			5,000			
Phosphoric acid, 2-chloro-1-(2,3,5-trichlorophenyl) ethenyl dimethyl ester	961-11-5				X		
Phosphoric acid, 2-dichloroethenyl dimethyl ester	62-73-7	1,000	10	10	X		
Phosphoric acid, dimethyl 4-(methylthio) phenyl ester	3254-63-5	500	500				
Phosphorodithioic acid O-ethyl S,S-dipropyl ester	13194-48-4	1,000	1,000		X		
Phosphorothioic acid, O,O-diethyl-O-(4-nitrophenyl) ester	56-38-2	100	10	10	X	P089	
Phosphorothioic acid, O,O-dimethyl-5-(2-(methylthio)ethyl)ester	2587-90-8	500	500				
Phosphorous trichloride	7719-12-2	1,000	1,000	1,000			15,000
Phosphorus (yellow or white)	7723-14-0	100	1	1	313		
Phosphorus	7723-14-0	100	1	1			
Phosphorus oxychloride	10025-87-3	500	1,000	1,000			5,000
Phosphorus pentachloride	10026-13-8	500	500				
Phosphorus trichloride	7719-12-2	1,000	1,000	1,000			15,000
Phosphoryl chloride	10025-87-3	500	1,000	1,000			5,000
Phthalate Esters	N.A.			&			
Phthalic anhydride	85-44-9			5,000	313	U190	
Physostigmine	57-47-6	100/10,000	100	100		P204	
Physostigmine, salicylate (1:1)	57-64-7	100/10,000	100	100		P188	
Picloram	1918-02-1				313		
2-Picoline	109-06-8			5,000	X	U191	
Picric acid	88-89-1				313		
Picrotoxin	124-87-8	500/10,000	500				
N,N'-(1,4-Piperazinediylbis(2,2,2-trichloroethylidene)) bisformamide	26644-46-2				X		
Piperidine	110-89-4	1,000	1,000				15,000
Piperonyl butoxide	51-03-6				313		
Pirimifos-ethyl	23505-41-1	1,000	1,000				
Pirimiphos methyl	29232-93-7				313		

NAME	CAS/313 Category Codes	Section 302 (EHS) TPQ	Section 304 EHS RQ	CERCLA RQ	Section 313	RCRA CODE	CAA 112(r) TQ
Plumbane, tetramethyl-	75-74-1	100	100				10,000
Polybrominated Biphenyls (PBBs)	N575				313		
Polychlorinated alkanes (C10 to C13)	N583				313		
Polychlorinated biphenyls	1336-36-3			1	313		
Polycyclic aromatic compounds (includes only 23 chemicals)	N590				313		
Polycyclic organic matter	N.A.			&			
Polymeric diphenylmethane diisocyanate	9016-87-9				313#		
Polynuclear Aromatic Hydrocarbons	N.A.			&			
Potassium arsenate	7784-41-0			1	313c		
Potassium arsenite	10124-50-2	500/10,000	1	1	313c		
Potassium bichromate	7778-50-9			10	313c		
Potassium bromate	7758-01-2				313		
Potassium chromate	7789-00-6			10	313c		
Potassium cyanide	151-50-8	100	10	10	313c	P098	
Potassium dimethyldithiocarbamate	128-03-0				313		
Potassium hydroxide	1310-58-3			1,000			
Potassium N-methyldithiocarbamate	137-41-7				313		
Potassium permanganate	7722-64-7			100	313c		
Potassium silver cyanide	506-61-6	500	1	1	313c	P099	
Profenofos	41198-08-7				313		
Promecarb	2631-37-0	500/10,000	1,000	1,000		P201	
Prometryn	7287-19-6				313		
Pronamide	23950-58-5			5,000	313	U192	
Propachlor	1918-16-7				313		
1,2-Propadiene	463-49-0						10,000
Propadiene	463-49-0						10,000
2-Propanamine	75-31-0						10,000
Propane	74-98-6						10,000
Propane, 2-chloro-	75-29-6						10,000
Propane 1,2-dichloro-	78-87-5			1,000	X	U083	
Propane, 2,2-dimethyl-	463-82-1						10,000
Propane, 2-methyl	75-28-5						10,000
Propanenitrile	107-12-0	500	10	10		P101	10,000
Propanenitrile, 2-methyl-	78-82-0	1,000	1,000				20,000
Propane sultone	1120-71-4			10	313	U193	
1,3-Propane sultone	1120-71-4			10	X	U193	
Propanil	709-98-8				313		
Propargite	2312-35-8			10	313		
Propargyl alcohol	107-19-7			1,000	313	P102	
Propargyl bromide	106-96-7	10	10				
2-Propenal	107-02-8	500	1	1	X	P003	5,000
2-Propen-1-amine	107-11-9	500	500		X		10,000
Propene	115-07-1				X		10,000
1-Propene	115-07-1				X		10,000
1-Propene, 1-chloro-	590-21-6						10,000
1-Propene, 2-chloro-	557-98-2						10,000
1-Propene, 2-methyl-	115-11-7						10,000
2-Propenenitrile	107-13-1	10,000	100	100	X	U009	20,000
2-Propenenitrile, 2-methyl-	126-98-7	500	1,000	1,000	X	U152	10,000
2-Propen-1-ol	107-18-6	1,000	100	100	X	P005	15,000

NAME	CAS/313 Category Codes	Section 302 (EHS) TPQ	Section 304 EHS RQ	CERCLA RQ	Section 313	RCRA CODE	CAA 112(r) TQ
2-Propenoyl chloride	814-68-6	100	100				5,000
Propetamphos	31218-83-4				313		
Propham	122-42-9			1,000		U373	
Propiconazole	60207-90-1				313		
beta-Propiolactone	57-57-8	500	10	10	313		
Propionaldehyde	123-38-6			1,000	313		
Propionic acid	79-09-4			5,000			
Propionic anhydride	123-62-6			5,000			
Propionitrile	107-12-0	500	10	10		P101	10,000
Propionitrile, 3-chloro-	542-76-7	1,000	1,000	1,000	X	P027	
Propiophenone, 4'-amino	70-69-9	100/10,000	100				
Propoxur	114-26-1			100	313	U411	
n-Propylamine	107-10-8			5,000		U194	
Propyl chloroformate	109-61-5	500	500				15,000
Propylene	115-07-1				313		10,000
Propyleneimine	75-55-8	10,000	1	1	313	P067	10,000
Propylene oxide	75-56-9	10,000	100	100	313		10,000
1-Propyne	74-99-7						10,000
Propyne	74-99-7						10,000
Prothoate	2275-18-5	100/10,000	100				
Pyrene	129-00-0	1,000/10,000	5,000	5,000			
Pyrethrins	121-21-1			1			
Pyrethrins	121-29-9			1			
Pyrethrins	8003-34-7			1			
Pyridine	110-86-1			1,000	313	U196	
Pyridine, 4-amino-	504-24-5	500/10,000	1,000	1,000		P008	
Pyridine, 3-(1-methyl-2-pyrrolidinyl)-,(S)-	54-11-5	100	100	100		P075	
Pyridine, 2-methyl-5-vinyl-	140-76-1	500	500				
Pyridine, 4-nitro-, 1-oxide	1124-33-0	500/10,000	500				
2,4-(1H,3H)-Pyrimidinedione, 5-bromo-6-methyl-3-(1-methylpropyl), lithium salt	53404-19-6				X		
Pyriminil	53558-25-1	100/10,000	100				
Quinoline	91-22-5			5,000	313		
Quinone	106-51-4			10	313	U197	
Quintozene	82-68-8			100	313	U185	
Quizalofop-ethyl	76578-14-8				313		
Reserpine	50-55-5			5,000		U200	
Resmethrin	10453-86-8				313		
Resorcinol	108-46-3			5,000		U201	
Saccharin (manufacturing)	81-07-2			100	313	U202	
Saccharin and salts	81-07-2			100		U202	
Safrole	94-59-7			100	313	U203	
Salcomine	14167-18-1	500/10,000	500				
Sarin	107-44-8	10	10				
Selenious acid	7783-00-8	1,000/10,000	10	10	313c	U204	
Selenious acid, dithallium(1+) salt	12039-52-0			1,000	313c	P114	
Selenium	7782-49-2			100	313		
Selenium Compounds	N725			&	313		
Selenium dioxide	7446-08-4			10	313c		
Selenium oxychloride	7791-23-3	500	500		313c		

NAME	CAS/313 Category Codes	Section 302 (EHS) TPQ	Section 304 EHS RQ	CERCLA RQ	Section 313	RCRA CODE	CAA 112(r) TQ
Selenium sulfide	7488-56-4			10	313c	U205	
Selenourea	630-10-4			1,000		P103	
Semicarbazide hydrochloride	563-41-7	1,000/10,000	1,000				
Sethoxydim	74051-80-2				313		
Silane	7803-62-5						10,000
Silane, (4-aminobutyl)diethoxymethyl-	3037-72-7	1,000	1,000				
Silane, chlorotrimethyl-	75-77-4	1,000	1,000				10,000
Silane, dichloro-	4109-96-0						10,000
Silane, dichlorodimethyl-	75-78-5	500	500				5,000
Silane, tetramethyl-	75-76-3						10,000
Silane, trichloro-	10025-78-2						10,000
Silane, trichloromethyl-	75-79-6	500	500				5,000
Silver	7440-22-4			1,000	313		
Silver Compounds	N740			&	313		
Silver cyanide	506-64-9			1	313c	P104	
Silver nitrate	7761-88-8			1	313c		
Silvex (2,4,5-TP)	93-72-1			100			
Simazine	122-34-9				313		
Sodium	7440-23-5			10			
Sodium arsenate	7631-89-2	1,000/10,000	1	1	313c		
Sodium arsenite	7784-46-5	500/10,000	1	1	313c		
Sodium azide (Na(N3))	26628-22-8	500	1,000	1,000	313	P105	
Sodium bichromate	10588-01-9			10	313c		
Sodium bifluoride	1333-83-1			100			
Sodium bisulfite	7631-90-5			5,000			
Sodium cacodylate	124-65-2	100/10,000	100				
Sodium chromate	7775-11-3			10	313c		
Sodium cyanide (Na(CN))	143-33-9	100	10	10	313c	P106	
Sodium dicamba	1982-69-0				313		
Sodium dimethyldithiocarbamate	128-04-1				313		
Sodium dodecylbenzenesulfonate	25155-30-0			1,000			
Sodium fluoride	7681-49-4			1,000			
Sodium fluoroacetate	62-74-8	10/10,000	10	10	313	P058	
Sodium hydrosulfide	16721-80-5			5,000			
Sodium hydroxide	1310-73-2			1,000			
Sodium hypochlorite	7681-52-9			100			
Sodium hypochlorite	10022-70-5			100			
Sodium methylate	124-41-4			1,000			
Sodium methyldithiocarbamate	137-42-8				X		
Sodium nitrite	7632-00-0			100	313		
Sodium pentachlorophenate	131-52-2				313		
Sodium o-phenylphenoxide	132-27-4				313		
Sodium phosphate, dibasic	7558-79-4			5,000			
Sodium phosphate, dibasic	10039-32-4			5,000			
Sodium phosphate, dibasic	10140-65-5			5,000			
Sodium phosphate, tribasic	7601-54-9			5,000			
Sodium phosphate, tribasic	10101-89-0			5,000			
Sodium phosphate, tribasic	10361-89-4			5,000			
Sodium selenate	13410-01-0	100/10,000	100		313c		
Sodium selenite	7782-82-3			100	313c		
Sodium selenite	10102-18-8	100/10,000	100	100	313c		

NAME	CAS/313 Category Codes	Section 302 (EHS) TPQ	Section 304 EHS RQ	CERCLA RQ	Section 313	RCRA CODE	CAA 112(r) TQ
Sodium tellurite	10102-20-2	500/10,000	500				
Stannane, acetoxytriphenyl-	900-95-8	500/10,000	500				
Streptozotocin	18883-66-4			1		U206	
Strontium chromate	7789-06-2			10	313c		
Strychnine and salts	N746				313		
Strychnine	57-24-9	100/10,000	10	10	313c	P108	
Strychnine, and salts	57-24-9			10	313c	P108	
Strychnine, sulfate	60-41-3	100/10,000	10	10	313c		
Styrene	100-42-5			1,000	313		
Styrene oxide	96-09-3			100	313		
Sulfotep	3689-24-5	500	100	100		P109	
Sulfoxide, 3-chloropropyl octyl	3569-57-1	500	500				
Sulfur dioxide	7446-09-5	500	500				
Sulfur dioxide (anhydrous)	7446-09-5	500	500				5,000
Sulfur fluoride (SF4), (T-4)-	7783-60-0	100	100				2,500
Sulfuric acid (aerosol forms only)	7664-93-9	1,000	1,000	1,000	313		
Sulfuric acid	7664-93-9	1,000	1,000	1,000			
Sulfuric acid (fuming)	8014-95-7			1,000			10,000
Sulfuric acid, mixture with sulfur trioxide	8014-95-7			1,000			10,000
Sulfur monochloride	[1]12771-08-3			1,000			
Sulfur monochloride	[2]10025-67-9			1,000			
Sulfur phosphide	1314-80-3			100		U189	
Sulfur tetrafluoride	7783-60-0	100	100				2,500
Sulfur trioxide	7446-11-9	100	100				10,000
Sulfuryl fluoride	2699-79-8				313		
Sulprofos	35400-43-2				313		
2,4,5-T acid	93-76-5			1,000			
2,4,5-T amines	1319-72-8			5,000			
2,4,5-T amines	2008-46-0			5,000			
2,4,5-T amines	3813-14-7			5,000			
2,4,5-T amines	6369-96-6			5,000			
2,4,5-T amines	6369-97-7			5,000			
2,4,5-T esters	93-79-8			1,000			
2,4,5-T esters	1928-47-8			1,000			
2,4,5-T esters	2545-59-7			1,000			
2,4,5-T esters	25168-15-4			1,000			
2,4,5-T esters	61792-07-2			1,000			
2,4,5-T salts	13560-99-1			1,000			
Tabun	77-81-6	10	10				
Tebuthiuron	34014-18-1				313		
Tellurium hexafluoride	7783-80-4	100	100				
Temephos	3383-96-8				313		
TEPP	107-49-3	100	10	10		P111	
Terbacil	5902-51-2				313		
Terbufos	13071-79-9	100	100				
Tetrabromobisphenol A	79-94-7				313		

[1] CAS Number should be 10025-67-9. See Introduction for further explanation.

[2] This is correct CAS number but not the same CAS number used on the CERCLA list. See Introduction for further explanation.

NAME	CAS/313 Category Codes	Section 302 (EHS) TPQ	Section 304 EHS RQ	CERCLA RQ	Section 313	RCRA CODE	CAA 112(r) TQ
1,2,4,5-Tetrachlorobenzene	95-94-3			5,000		U207	
2,3,7,8-tetrachlorodibenzofuran	51207-31-9				313!		
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	1746-01-6			1	313!		
1,1,2,2-Tetrachloroethane	79-34-5			100	313	U209	
1,1,1,2-Tetrachloroethane	630-20-6			100	313	U208	
Tetrachloroethylene	127-18-4			100	313	U210	
1,1,2,2-Tetrachloro-1-fluoroethane	354-14-3				313		
1,1,1,2-Tetrachloro-2-fluoroethane	354-11-0				313		
2,3,4,6-Tetrachlorophenol	58-90-2			10	313c		
Tetrachlorvinphos	961-11-5				313		
Tetracycline hydrochloride	64-75-5				313		
Tetraethyldithiopyrophosphate	3689-24-5	500	100	100		P109	
Tetraethyl lead	78-00-2	100	10	10	313c	P110	
Tetraethyl pyrophosphate	107-49-3	100	10	10		P111	
Tetraethyltin	597-64-8	100	100				
Tetrafluoroethylene	116-14-3				313		10,000
Tetrahydro-5,5-dimethyl-2(1H)-pyrimidinone(3-(4-(trifluoromethyl)phenyl)-1-(2-(4-(trifluoromethyl)phenyl)ethenyl)-2-propenylidene)hydrazone	67485-29-4				X		
Tetrahydro-3,5-dimethyl-2H-1,3,5-thiadiazine-2-thione	533-74-4				X		
Tetrahydro-3,5-dimethyl-2H-1,3,5-thiadiazine-2-thione, ion(1-), sodium	53404-60-7				X		
Tetramethrin	7696-12-0				313		
2,2,3,3-Tetramethylcyclopropane carboxylic acid cyano(3-phenoxyphenyl)methyl ester	39515-41-8				X		
Tetramethyllead	75-74-1	100	100		313c		10,000
Tetramethylsilane	75-76-3						10,000
Tetranitromethane	509-14-8	500	10	10	313	P112	10,000
Thallic oxide	1314-32-5			100	313c	P113	
Thallium	7440-28-0			1,000	313		
Thallium(I) acetate	563-68-8			100	313c	U214	
Thallium(I) carbonate	6533-73-9	100/10,000	100	100	313c	U215	
Thallium chloride TlCl	7791-12-0	100/10,000	100	100	313c	U216	
Thallium Compounds	N760			&	313		
Thallium(I) nitrate	10102-45-1			100	313c	U217	
Thallium(I) sulfate	7446-18-6	100/10,000	100	100	313c	P115	
Thallium sulfate	10031-59-1	100/10,000	100	100	313c		
Thallous carbonate	6533-73-9	100/10,000	100	100	313c	U215	
Thallous chloride	7791-12-0	100/10,000	100	100	313c	U216	
Thallous malonate	2757-18-8	100/10,000	100				
Thallous sulfate	7446-18-6	100/10,000	100	100	313c	P115	
Thiabendazole	148-79-8				313		
2-(4-Thiazolyl)-1H-benzimidazole	148-79-8				X		
Thioacetamide	62-55-5			10	313	U218	
Thiobencarb	28249-77-6				313		
Thiocarbazide	2231-57-4	1,000/10,000	1,000				
Thiocyanic acid, methyl ester	556-64-9	10,000	10,000				20,000

NAME	CAS/313 Category Codes	Section 302 (EHS) TPQ	Section 304 EHS RQ	CERCLA RQ	Section 313	RCRA CODE	CAA 112(r) TQ
4,4'-Thiodianiline	139-65-1				313		
Thiodicarb	59669-26-0			100	313	U410	
Thiofanox	39196-18-4	100/10,000	100	100		P045	
Thiomethanol	74-93-1	500	100	100	X	U153	10,000
Thionazin	297-97-2	500	100	100		P040	
Thiophanate ethyl	23564-06-9				313		
Thiophanate-methyl	23564-05-8			10	313	U409	
Thiophenol	108-98-5	500	100	100		P014	
Thiosemicarbazide	79-19-6	100/10,000	100	100	313	P116	
Thiourea	62-56-6			10	313	U219	
Thiourea, (2-chlorophenyl)-	5344-82-1	100/10,000	100	100		P026	
Thiourea, (2-methylphenyl)-	614-78-8	500/10,000	500				
Thiourea, 1-naphthalenyl-	86-88-4	500/10,000	100	100		P072	
Thiram	137-26-8			10	313	U244	
Thorium dioxide	1314-20-1				313		
Titanium chloride (TiCl4) (T-4)-	7550-45-0	100	1,000	1,000	X		2,500
Titanium tetrachloride	7550-45-0	100	1,000	1,000	313		2,500
o-Tolidine	119-93-7			10	X	U095	
o-Tolidine dihydrochloride	612-82-8				X		
o-Tolidine dihydrofluoride	41766-75-0				X		
Toluene	108-88-3			1,000	313	U220	
Toluenediamine	25376-45-8			10	X	U221	
Toluene-2,4-diisocyanate	584-84-9	500	100	100	313		10,000
Toluene-2,6-diisocyanate	91-08-7	100	100	100	313		10,000
Toluenediisocyanate (mixed isomers)	26471-62-5			100	313	U223	10,000
Toluene diisocyanate (unspecified isomer)	26471-62-5			100	X	U223	10,000
o-Toluidine	95-53-4			100	313	U328	
p-Toluidine	106-49-0			100		U353	
o-Toluidine hydrochloride	636-21-5			100	313	U222	
Toxaphene	8001-35-2	500/10,000	1	1	313	P123	
2,4,5-TP esters	32534-95-5			100			
Triadimefon	43121-43-3				313		
Triallate	2303-17-5			100	313	U389	
Triamiphos	1031-47-6	500/10,000	500				
Triaziquone	68-76-8				313		
Triazofos	24017-47-8	500	500				
Tribenuron methyl	101200-48-0				313		
Tribromomethane	75-25-2			100	X	U225	
Tributyltin fluoride	1983-10-4				313		
Tributyltin methacrylate	2155-70-6				313		
S,S,S-Tributyltrithiophosphate	78-48-8				313		
Trichlorfon	52-68-6			100	313		
Trichloroacetyl chloride	76-02-8	500	500		313		
1,2,4-Trichlorobenzene	120-82-1			100	313		
Trichloro(chloromethyl)silane	1558-25-4	100	100				
Trichloro(dichlorophenyl)silane	27137-85-5	500	500				
1,1,1-Trichloroethane	71-55-6			1,000	313	U226	
1,1,2-Trichloroethane	79-00-5			100	313	U227	
Trichloroethylene	79-01-6			100	313	U228	
Trichloroethylsilane	115-21-9	500	500				
Trichlorofluoromethane	75-69-4			5,000	313	U121	

NAME	CAS/313 Category Codes	Section 302 (EHS) TPQ	Section 304 EHS RQ	CERCLA RQ	Section 313	RCRA CODE	CAA 112(r) TQ
Trichloromethanesulfenyl chloride	594-42-3	500	100	100	X		10,000
Trichloromonofluoromethane	75-69-4			5,000	X	U121	
Trichloronate	327-98-0	500	500				
Trichlorophenol	25167-82-2			10	313c		
2,3,4-Trichlorophenol	15950-66-0			10	313c		
2,3,5-Trichlorophenol	933-78-8			10	313c		
2,3,6-Trichlorophenol	933-75-5			10	313c		
2,4,5-Trichlorophenol	95-95-4			10	313		
2,4,6-Trichlorophenol	88-06-2			10	313		
3,4,5-Trichlorophenol	609-19-8			10			
Trichlorophenylsilane	98-13-5	500	500				
1,2,3-Trichloropropane	96-18-4				313		
Trichlorosilane	10025-78-2						10,000
Triclopyr triethylammonium salt	57213-69-1				313		
Triethanolamine dodecylbenzene sulfonate	27323-41-7			1,000			
Triethoxysilane	998-30-1	500	500				
Triethylamine	121-44-8			5,000	313	U404	
Trifluorochloroethylene	79-38-9						10,000
2-(4-((5-(Trifluoromethyl)-2-pyridinyl)oxy)-phenoxy)propanoic acid, butyl ester	69806-50-4				X		
Trifluralin	1582-09-8			10	313		
Triforine	26644-46-2				313		
Trimethylamine	75-50-3			100			10,000
1,2,4-Trimethylbenzene	95-63-6				313		
Trimethylchlorosilane	75-77-4	1,000	1,000				10,000
2,4,4-Trimethylhexamethylene diisocyanate	15646-96-5				313#		
2,2,4-Trimethylhexamethylene diisocyanate	16938-22-0				313#		
Trimethylolpropane phosphite	824-11-3	100/10,000	100				
2,2,4-Trimethylpentane	540-84-1			1,000			
2,3,5-Trimethylphenyl methylcarbamate	2655-15-4				313		
Trimethyltin chloride	1066-45-1	500/10,000	500				
1,3,5-Trinitrobenzene	99-35-4			10		U234	
Triphenyltin chloride	639-58-7	500/10,000	500		313		
Triphenyltin hydroxide	76-87-9				313		
Tris(2-chloroethyl)amine	555-77-1	100	100				
Tris(2,3-dibromopropyl) phosphate	126-72-7			10	313	U235	
Tris(dimethylcarbamodithioato-S,S')iron	14484-64-1				X		
Trypan blue	72-57-1			10	313	U236	
Uracil mustard	66-75-1			10		U237	
Uranyl acetate	541-09-3			100			
Uranyl nitrate	10102-06-4			100			
Uranyl nitrate	36478-76-9			100			
Urea, N,N-dimethyl-N'-[3-(trifluoromethyl)phenyl]-	2164-17-2				X		
Urethane	51-79-6			100	313	U238	
Valinomycin	2001-95-8	1,000/10,000	1,000				

NAME	CAS/313 Category Codes	Section 302 (EHS) TPQ	Section 304 EHS RQ	CERCLA RQ	Section 313	RCRA CODE	CAA 112(r) TQ
Vanadium (except when contained in an alloy)	7440-62-2				313		
Vanadium Compounds	N770				313		
Vanadium pentoxide	1314-62-1	100/10,000	1,000	1,000	313c	P120	
Vanadyl sulfate	27774-13-6			1,000	313c		
Vikane	2699-79-8				X		
Vinclozolin	50471-44-8				313		
Vinyl acetate	108-05-4	1,000	5,000	5,000	313		15,000
Vinyl acetate monomer	108-05-4	1,000	5,000	5,000	X		15,000
Vinyl acetylene	689-97-4						10,000
Vinyl bromide	593-60-2			100	313		
Vinyl chloride	75-01-4			1	313	U043	10,000
Vinyl ethyl ether	109-92-2						10,000
Vinyl fluoride	75-02-5				313		10,000
Vinylidene chloride	75-35-4			100	313	U078	10,000
Vinylidene fluoride	75-38-7						10,000
Vinyl methyl ether	107-25-5						10,000
Warfarin	81-81-2	500/10,000	100	100	X 313c	P001	
Warfarin and salts	N874				313		
Warfarin, & salts, conc.>0.3%	81-81-2			100	X 313c	P001	
Warfarin sodium	129-06-6	100/10,000	100	100	313c		
m-Xylene	108-38-3			1,000	313	U239	
o-Xylene	95-47-6			1,000	313	U239	
p-Xylene	106-42-3			100	313	U239	
Xylene (mixed isomers)	1330-20-7			100	313	U239	
Xylenol	1300-71-6			1,000			
2,6-Xylidine	87-62-7				313		
Xylylene dichloride	28347-13-9	100/10,000	100				
Zinc (fume or dust)	7440-66-6			1,000	313		
Zinc	7440-66-6			1,000			
Zinc acetate	557-34-6			1,000	313c		
Zinc ammonium chloride	14639-97-5			1,000	313c		
Zinc ammonium chloride	14639-98-6			1,000	313c		
Zinc ammonium chloride	52628-25-8			1,000	313c		
Zinc borate	1332-07-6			1,000	313c		
Zinc bromide	7699-45-8			1,000	313c		
Zinc carbonate	3486-35-9			1,000	313c		
Zinc chloride	7646-85-7			1,000	313c		
Zinc Compounds	N982			&	313		
Zinc cyanide	557-21-1			10	313c	P121	
Zinc, dichloro(4,4-dimethyl-5((((methylamino)carbonyl)oxy)imino) pentanenitrile)-, (T-4)-	58270-08-9	100/10,000	100		313c		
Zinc fluoride	7783-49-5			1,000	313c		
Zinc formate	557-41-5			1,000	313c		
Zinc hydrosulfite	7779-86-4			1,000	313c		
Zinc nitrate	7779-88-6			1,000	313c		
Zinc phenolsulfonate	127-82-2			5,000	313c		
Zinc phosphide	1314-84-7	500	100	100	313c	P122	
Zinc phosphide (conc. <= 10%)	1314-84-7	500	100	100	313c	U249	
Zinc phosphide (conc. > 10%)	1314-84-7	500	100	100	313c	P122	
Zinc silicofluoride	16871-71-9			5,000	313c		

NAME	CAS/313 Category Codes	Section 302 (EHS) TPQ	Section 304 EHS RQ	CERCLA RQ	Section 313	RCRA CODE	CAA 112(r) TQ
Zinc sulfate	7733-02-0			1,000	313c		
Zineb	12122-67-7				313		
Ziram	137-30-4			10		P205	
Zirconium nitrate	13746-89-9			5,000			
Zirconium potassium fluoride	16923-95-8			1,000			
Zirconium sulfate	14644-61-2			5,000			
Zirconium tetrachloride	10026-11-6			5,000			

APPENDIX B

RADIONUCLIDES LISTED UNDER CERCLA
FOR REFERENCE ONLY, NOT FOR REGULATORY COMPLIANCE
SEE CFR PART 302, TABLE 302.4, APPENDIX B., FOR MORE INFORMATION

Radionuclide Name	Atomic Number	Final RQ Curies (Bq)
Radionuclides@		1&(3.7E 10)
Actinium-224	89	100 (3.7E 12)
Actinium-225	89	1 (3.7E 10)
Actinium-226	89	10 (3.7E 11)
Actinium-227	89	0.001 (3.7E 7)
Actinium-228	89	10 (3.7E 11)
Aluminum-26	13	10 (3.7E 11)
Americium-237	95	1000 (3.7E 13)
Americium-238	95	100 (3.7E 12)
Americium-239	95	100 (3.7E 12)
Americium-240	95	10 (3.7E 11)
Americium-241	95	0.01 (3.7E 8)
Americium-242m	95	0.01 (3.7E 8)
Americium-242	95	100 (3.7E 12)
Americium-243	95	0.01 (3.7E 8)
Americium-244m	95	1000 (3.7E 13)
Americium-244	95	10 (3.7E 11)
Americium-245	95	1000 (3.7E 13)
Americium-246m	95	1000 (3.7E 13)
Americium-246	95	1000 (3.7E 13)
Antimony-115	51	1000 (3.7E 13)
Antimony-116m	51	100 (3.7E 12)
Antimony-116	51	1000 (3.7E 13)
Antimony-117	51	1000 (3.7E 13)
Antimony-118m	51	10 (3.7E 11)
Antimony-119	51	1000 (3.7E 13)
Antimony-120 (16 min)	51	1000 (3.7E 13)
Antimony-120 (5.76 day)	51	10 (3.7E 11)

Radionuclide Name	Atomic Number	Final RQ Curies (Bq)
Antimony-122	51	10 (3.7E 11)
Antimony-124m	51	1000 (3.7E 13)
Antimony-124	51	10 (3.7E 11)
Antimony-125	51	10 (3.7E 11)
Antimony-126m	51	1000 (3.7E 13)
Antimony-126	51	10 (3.7E 11)
Antimony-127	51	10 (3.7E 11)
Antimony-128 (10.4 min)	51	1000 (3.7E 13)
Antimony-128 (9.01 hr)	51	10 (3.7E 11)
Antimony-129	51	100 (3.7E 12)
Antimony-130	51	100 (3.7E 12)
Antimony-131	51	1000 (3.7E 13)
Argon-39	18	1000 (3.7E 13)
Argon-41	18	10 (3.7E 11)
Arsenic-69	33	1000 (3.7E 13)
Arsenic-70	33	100 (3.7E 12)
Arsenic-71	33	100 (3.7E 12)
Arsenic-72	33	10 (3.7E 11)
Arsenic-73	33	100 (3.7E 12)
Arsenic-74	33	10 (3.7E 11)
Arsenic-76	33	100 (3.7E 12)
Arsenic-77	33	1000 (3.7E 13)
Arsenic-78	33	100 (3.7E 12)
Astatine-207	85	100 (3.7E 12)
Astatine-211	85	100 (3.7E 12)
Barium-126	56	1000 (3.7E 13)
Barium-128	56	10 (3.7E 11)
Barium-131m	56	1000 (3.7E 13)

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Radionuclide Name	Atomic Number	Final RQ Curies (Bq)
Barium-131	56	10 (3.7E 11)
Barium-133m	56	100 (3.7E 12)
Barium-133	56	10 (3.7E 11)
Barium-135m	56	1000 (3.7E 13)
Barium-139	56	1000 (3.7E 13)
Barium-140	56	10 (3.7E 11)
Barium-141	56	1000 (3.7E 13)
Barium-142	56	1000 (3.7E 13)
Berkelium-245	97	100 (3.7E 12)
Berkelium-246	97	10 (3.7E 11)
Berkelium-247	97	0.01 (3.7E 8)
Berkelium-249	97	1 (3.7E 10)
Berkelium-250	97	100 (3.7E 12)
Beryllium-7	4	100 (3.7E 12)
Beryllium-10	4	1 (3.7E 10)
Bismuth-200	83	100 (3.7E 12)
Bismuth-201	83	100 (3.7E 12)
Bismuth-202	83	1000 (3.7E 13)
Bismuth-203	83	10 (3.7E 11)
Bismuth-205	83	10 (3.7E 11)
Bismuth-206	83	10 (3.7E 11)
Bismuth-207	83	10 (3.7E 11)
Bismuth-210m	83	0.1 (3.7E 9)
Bismuth-210	83	10 (3.7E 11)
Bismuth-212	83	100 (3.7E 12)
Bismuth-213	83	100 (3.7E 12)
Bismuth-214	83	100 (3.7E 12)
Bromine-74m	35	100 (3.7E 12)
Bromine-74	35	100 (3.7E 12)
Bromine-75	35	100 (3.7E 12)
Bromine-76	35	10 (3.7E 11)
Bromine-77	35	100 (3.7E 12)

Radionuclide Name	Atomic Number	Final RQ Curies (Bq)
Bromine-80m	35	1000 (3.7E 13)
Bromine-80	35	1000 (3.7E 13)
Bromine-82	35	10 (3.7E 11)
Bromine-83	35	1000 (3.7E 13)
Bromine-84	35	100 (3.7E 12)
Cadmium-104	48	1000 (3.7E 13)
Cadmium-107	48	1000 (3.7E 13)
Cadmium-109	48	1 (3.7E 10)
Cadmium-113m	48	0.1 (3.7E 9)
Cadmium-113	48	0.1 (3.7E 9)
Cadmium-115m	48	10 (3.7E 11)
Cadmium-115	48	100 (3.7E 12)
Cadmium-117m	48	10 (3.7E 11)
Cadmium-117	48	100 (3.7E 12)
Calcium-41	20	10 (3.7E 11)
Calcium-45	20	10 (3.7E 11)
Calcium-47	20	10 (3.7E 11)
Californium-244	98	1000 (3.7E 13)
Californium-246	98	10 (3.7E 11)
Californium-248	98	0.1 (3.7E 9)
Californium-249	98	0.01 (3.7E 8)
Californium-250	98	0.01 (3.7E 8)
Californium-251	98	0.01 (3.7E 8)
Californium-252	98	0.1 (3.7E 9)
Californium-253	98	10 (3.7E 11)
Californium-254	98	0.1 (3.7E 9)
Carbon-11	6	1000 (3.7E 13)
Carbon-14	6	10 (3.7E 11)
Cerium-134	58	10 (3.7E 11)
Cerium-135	58	10 (3.7E 11)
Cerium-137m	58	100 (3.7E 12)
Cerium-137	58	1000 (3.7E 13)

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Radionuclide Name	Atomic Number	Final RQ Curies (Bq)
Cerium-139	58	100 (3.7E 12)
Cerium-141	58	10 (3.7E 11)
Cerium-143	58	100 (3.7E 12)
Cerium-144	58	1 (3.7E 10)
Cesium-125	55	1000 (3.7E 13)
Cesium-127	55	100 (3.7E 12)
Cesium-129	55	100 (3.7E 12)
Cesium-130	55	1000 (3.7E 13)
Cesium-131	55	1000 (3.7E 13)
Cesium-132	55	10 (3.7E 11)
Cesium-134m	55	1000 (3.7E 13)
Cesium-134	55	1 (3.7E 10)
Cesium-135m	55	100 (3.7E 12)
Cesium-135	55	10 (3.7E 11)
Cesium-136	55	10 (3.7E 11)
Cesium-137	55	1 (3.7E 10)
Cesium-138	55	100 (3.7E 12)
Chlorine-36	17	10 (3.7E 11)
Chlorine-38	17	100 (3.7E 12)
Chlorine-39	17	100 (3.7E 12)
Chromium-48	24	100 (3.7E 12)
Chromium-49	24	1000 (3.7E 13)
Chromium-51	24	1000 (3.7E 13)
Cobalt-55	27	10 (3.7E 11)
Cobalt-56	27	10 (3.7E 11)
Cobalt-57	27	100 (3.7E 12)
Cobalt-58m	27	1000 (3.7E 13)
Cobalt-58	27	10 (3.7E 11)
Cobalt-60m	27	1000 (3.7E 13)
Cobalt-60	27	10 (3.7E 11)
Cobalt-61	27	1000 (3.7E 13)
Cobalt-62m	27	1000 (3.7E 13)

Radionuclide Name	Atomic Number	Final RQ Curies (Bq)
Copper-60	29	100 (3.7E 12)
Copper-61	29	100 (3.7E 12)
Copper-64	29	1000 (3.7E 13)
Copper-67	29	100 (3.7E 12)
Curium-238	96	1000 (3.7E 13)
Curium-240	96	1 (3.7E 10)
Curium-241	96	10 (3.7E 11)
Curium-242	96	1 (3.7E 10)
Curium-243	96	0.01 (3.7E 8)
Curium-244	96	0.01 (3.7E 8)
Curium-245	96	0.01 (3.7E 8)
Curium-246	96	0.01 (3.7E 8)
Curium-247	96	0.01 (3.7E 8)
Curium-248	96	0.001 (3.7E 7)
Curium-249	96	1000 (3.7E 13)
Dysprosium-155	66	100 (3.7E 12)
Dysprosium-157	66	100 (3.7E 12)
Dysprosium-159	66	100 (3.7E 12)
Dysprosium-165	66	1000 (3.7E 13)
Dysprosium-166	66	10 (3.7E 11)
Einsteinium-250	99	10 (3.7E 11)
Einsteinium-251	99	1000 (3.7E 13)
Einsteinium-253	99	10 (3.7E 11)
Einsteinium-254m	99	1 (3.7E 10)
Einsteinium-254	99	0.1 (3.7E 9)
Erbium-161	68	100 (3.7E 12)
Erbium-165	68	1000 (3.7E 13)
Erbium-169	68	100 (3.7E 12)
Erbium-171	68	100 (3.7E 12)
Erbium-172	68	10 (3.7E 11)
Europium-145	63	10 (3.7E 11)
Europium-146	63	10 (3.7E 11)

Radionuclide Name	Atomic Number	Final RQ Curies (Bq)
Europium-147	63	10 (3.7E 11)
Europium-148	63	10 (3.7E 11)
Europium-149	63	100 (3.7E 12)
Europium-150 (12.6 hr)	63	1000 (3.7E 13)
Europium-150 (34.2 yr)	63	10 (3.7E 11)
Europium-152m	63	100 (3.7E 12)
Europium-152	63	10 (3.7E 11)
Europium-154	63	10 (3.7E 11)
Europium-155	63	10 (3.7E 11)
Europium-156	63	10 (3.7E 11)
Europium-157	63	10 (3.7E 11)
Europium-158	63	1000 (3.7E 13)
Fermium-252	100	10 (3.7E 11)
Fermium-253	100	10 (3.7E 11)
Fermium-254	100	100 (3.7E 12)
Fermium-255	100	100 (3.7E 12)
Fermium-257	100	1 (3.7E 10)
Fluorine-18	9	1000 (3.7E 13)
Francium-222	87	100 (3.7E 12)
Francium-223	87	100 (3.7E 12)
Gadolinium-145	64	100 (3.7E 12)
Gadolinium-146	64	10 (3.7E 11)
Gadolinium-147	64	10 (3.7E 11)
Gadolinium-148	64	0.001 (3.7E7)
Gadolinium-149	64	100 (3.7E 12)
Gadolinium-151	64	100 (3.7E 12)
Gadolinium-152	64	0.001 (3.7E 7)
Gadolinium-153	64	10 (3.7E 11)
Gadolinium-159	64	1000 (3.7E 13)
Gallium-65	31	1000 (3.7E 13)
Gallium-66	31	10 (3.7E 11)

Radionuclide Name	Atomic Number	Final RQ Curies (Bq)
Gallium-67	31	100 (3.7E 12)
Gallium-68	31	1000 (3.7E 13)
Gallium-70	31	1000 (3.7E 13)
Gallium-72	31	10 (3.7E 11)
Gallium-73	31	100 (3.7E 12)
Germanium-66	32	100 (3.7E 12)
Germanium-67	32	1000 (3.7E 13)
Germanium-68	32	10 (3.7E 11)
Germanium-69	32	10 (3.7E 11)
Germanium-71	32	1000 (3.7E 13)
Germanium-75	32	1000 (3.7E 13)
Germanium-77	32	10 (3.7E 11)
Germanium-78	32	1000 (3.7E 13)
Gold-193	79	100 (3.7E 12)
Gold-194	79	10 (3.7E 11)
Gold-195	79	100 (3.7E 12)
Gold-198m	79	10 (3.7E 11)
Gold-198	79	100 (3.7E 12)
Gold-199	79	100 (3.7E 12)
Gold-200m	79	10 (3.7E 11)
Gold-200	79	1000 (3.7E 13)
Gold-201	79	1000 (3.7E 13)
Hafnium-170	72	100 (3.7E 12)
Hafnium-172	72	1 (3.7E 10)
Hafnium-173	72	100 (3.7E 12)
Hafnium-175	72	100 (3.7E 12)
Hafnium-177m	72	1000 (3.7E 13)
Hafnium-178m	72	0.1 (3.7E 9)
Hafnium-179m	72	100 (3.7E 12)
Hafnium-180m	72	100 (3.7E 12)
Hafnium-181	72	10 (3.7E 11)
Hafnium-182m	72	100 (3.7E 12)

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Radionuclide Name	Atomic Number	Final RQ Curies (Bq)
Hafnium-182	72	0.1 (3.7E 9)
Hafnium-183	72	100 (3.7E 12)
Hafnium-184	72	100 (3.7E 12)
Holmium-155	67	1000 (3.7E 13)
Holmium-157	67	1000 (3.7E 13)
Holmium-159	67	1000 (3.7E 13)
Holmium-161	67	1000 (3.7E 13)
Holmium-162m	67	1000 (3.7E 13)
Holmium-162	67	1000 (3.7E 13)
Holmium-164m	67	1000 (3.7E 13)
Holmium-164	67	1000 (3.7E 13)
Holmium-166m	67	1 (3.7E 10)
Holmium-166	67	100 (3.7E 12)
Holmium-167	67	100 (3.7E 12)
Hydrogen-3	1	100 (3.7E 12)
Indium-109	49	100 (3.7E 12)
Indium-110 (69.1 min)	49	100 (3.7E 12)
Indium-110 (4.9 hr)	49	10 (3.7E 11)
Indium-111	49	100 (3.7E 12)
Indium-112	49	1000 (3.7E 13)
Indium-113m	49	1000 (3.7E 13)
Indium-114m	49	10 (3.7E 11)
Indium-115m	49	100 (3.7E 12)
Indium-115	49	0.1 (3.7E 9)
Indium-116m	49	100 (3.7E 12)
Indium-117m	49	100 (3.7E 12)
Indium-117	49	1000 (3.7E 13)
Indium-119m	49	1000 (3.7E 13)
Iodine-120m	53	100 (3.7E 12)
Iodine-120	53	10 (3.7E 11)
Iodine-121	53	100 (3.7E 12)

Radionuclide Name	Atomic Number	Final RQ Curies (Bq)
Iodine-123	53	10 (3.7E 11)
Iodine-124	53	0.1 (3.7E 9)
Iodine-125	53	0.01 (3.7E 8)
Iodine-126	53	0.01 (3.7E 8)
Iodine-128	53	1000 (3.7E 13)
Iodine-129	53	0.001 (3.7E 7)
Iodine-130	53	1 (3.7E 10)
Iodine-131	53	0.01 (3.7E 8)
Iodine-132m	53	10 (3.7E 11)
Iodine-132	53	10 (3.7E 11)
Iodine-133	53	0.1 (3.7E 9)
Iodine-134	53	100 (3.7E 12)
Iodine-135	53	10 (3.7E 11)
Iridium-182	77	1000 (3.7E 13)
Iridium-184	77	100 (3.7E 12)
Iridium-185	77	100 (3.7E 12)
Iridium-186	77	10 (3.7E 11)
Iridium-187	77	100 (3.7E 12)
Iridium-188	77	10 (3.7E 11)
Iridium-189	77	100 (3.7E 12)
Iridium-190m	77	1000 (3.7E 13)
Iridium-190	77	10 (3.7E 11)
Iridium-192m	77	100 (3.7E 12)
Iridium-192	77	10 (3.7E 11)
Iridium-194m	77	10 (3.7E 11)
Iridium-194	77	100 (3.7E 12)
Iridium-195m	77	100 (3.7E 12)
Iridium-195	77	1000 (3.7E 13)
Iron-52	26	100 (3.7E 12)
Iron-55	26	100 (3.7E 12)
Iron-59	26	10 (3.7E 11)
Iron-60	26	0.1 (3.7E 9)

Radionuclide Name	Atomic Number	Final RQ Curies (Bq)
Krypton-74	36	10 (3.7E 11)
Krypton-76	36	10 (3.7E 11)
Krypton-77	36	10 (3.7E 11)
Krypton-79	36	100 (3.7E 12)
Krypton-81	36	1000 (3.7E 13)
Krypton-83m	36	1000 (3.7E 13)
Krypton-85m	36	100 (3.7E 12)
Krypton-85	36	1000 (3.7E 13)
Krypton-87	36	10 (3.7E 11)
Krypton-88	36	10 (3.7E 11)
Lanthanum-131	57	1000 (3.7E 13)
Lanthanum-132	57	100 (3.7E 12)
Lanthanum-135	57	1000 (3.7E 13)
Lanthanum-137	57	10 (3.7E 11)
Lanthanum-138	57	1 (3.7E 10)
Lanthanum-140	57	10 (3.7E 11)
Lanthanum-141	57	1000 (3.7E 13)
Lanthanum-142	57	100 (3.7E 12)
Lanthanum-143	57	1000 (3.7E 13)
Lead-195m	82	1000 (3.7E 13)
Lead-198	82	100 (3.7E 12)
Lead-199	82	100 (3.7E 12)
Lead-200	82	100 (3.7E 12)
Lead-201	82	100 (3.7E 12)
Lead-202m	82	10 (3.7E 11)
Lead-202	82	1 (3.7E 10)
Lead-203	82	100 (3.7E 12)
Lead-205	82	100 (3.7E 12)
Lead-209	82	1000 (3.7E 13)
Lead-210	82	0.01 (3.7E 8)
Lead-211	82	100 (3.7E 12)
Lead-212	82	10 (3.7E 11)

Radionuclide Name	Atomic Number	Final RQ Curies (Bq)
Lead-214	82	100 (3.7E 12)
Lutetium-169	71	10 (3.7E 11)
Lutetium-170	71	10 (3.7E 11)
Lutetium-171	71	10 (3.7E 11)
Lutetium-172	71	10 (3.7E 11)
Lutetium-173	71	100 (3.7E 12)
Lutetium-174m	71	10 (3.7E 11)
Lutetium-174	71	10 (3.7E 11)
Lutetium-176m	71	1000 (3.7E 13)
Lutetium-176	71	1 (3.7E 10)
Lutetium-177m	71	10 (3.7E 11)
Lutetium-177	71	100 (3.7E 12)
Lutetium-178m	71	1000 (3.7E 13)
Lutetium-178	71	1000 (3.7E 13)
Lutetium-179	71	1000 (3.7E 13)
Magnesium-28	12	10 (3.7E 11)
Manganese-51	25	1000 (3.7E 13)
Manganese-52m	25	1000 (3.7E 13)
Manganese-52	25	10 (3.7E 11)
Manganese-53	25	1000 (3.7E 13)
Manganese-54	25	10 (3.7E 11)
Manganese-56	25	100 (3.7E 12)
Mendelevium-257	101	100 (3.7E 12)
Mendelevium-258	101	1 (3.7E 10)
Mercury-193m	80	10 (3.7E 11)
Mercury-193	80	100 (3.7E 12)
Mercury-194	80	0.1 (3.7E 9)
Mercury-195m	80	100 (3.7E 12)
Mercury-195	80	100 (3.7E 12)
Mercury-197m	80	1000 (3.7E 13)
Mercury-197	80	1000 (3.7E 13)
Mercury-199m	80	1000 (3.7E 13)

Radionuclide Name	Atomic Number	Final RQ Curies (Bq)
Mercury-203	80	10 (3.7E 11)
Molybdenum-90	42	100 (3.7E 12)
Molybdenum-93m	42	10 (3.7E 11)
Molybdenum-93	42	100 (3.7E 12)
Molybdenum-99	42	100 (3.7E 12)
Molybdenum-101	42	1000 (3.7E 13)
Neodymium-136	60	1000 (3.7E 13)
Neodymium-138	60	1000 (3.7E 13)
Neodymium-139m	60	100 (3.7E 12)
Neodymium-139	60	1000 (3.7E 13)
Neodymium-141	60	1000 (3.7E 13)
Neodymium-147	60	10 (3.7E 11)
Neodymium-149	60	100 (3.7E 12)
Neodymium-151	60	1000 (3.7E 13)
Neptunium-232	93	1000 (3.7E 13)
Neptunium-233	93	1000 (3.7E 13)
Neptunium-234	93	10 (3.7E 11)
Neptunium-235	93	1000 (3.7E 13)
Neptunium-236 (1.2 E 5 yr)	93	0.1 (3.7E 9)
Neptunium-236 (22.5 hr)	93	100 (3.7E 12)
Neptunium-237	93	0.01 (3.7E 8)
Neptunium-238	93	10 (3.7E 11)
Neptunium-239	93	100 (3.7E 12)
Neptunium-240	93	100 (3.7E 12)
Nickel-56	28	10 (3.7E 11)
Nickel-57	28	10 (3.7E 11)
Nickel-59	28	100 (3.7E 12)
Nickel-63	28	100 (3.7E 12)
Nickel-65	28	100 (3.7E 12)
Nickel-66	28	10 (3.7E 11)

Radionuclide Name	Atomic Number	Final RQ Curies (Bq)
Niobium-88	41	100 (3.7E 12)
Niobium-89 (66 min)	41	100 (3.7E 12)
Niobium-89 (122 min)	41	100 (3.7E 12)
Niobium-90	41	10 (3.7E 11)
Niobium-93m	41	100 (3.7E 12)
Niobium-94	41	10 (3.7E 11)
Niobium-95m	41	100 (3.7E 12)
Niobium-95	41	10 (3.7E 11)
Niobium-96	41	10 (3.7E 11)
Niobium-97	41	100 (3.7E 12)
Niobium-98	41	1000 (3.7E 13)
Osmium-180	76	1000 (3.7E 13)
Osmium-181	76	100 (3.7E 12)
Osmium-182	76	100 (3.7E 12)
Osmium-185	76	10 (3.7E 11)
Osmium-189m	76	1000 (3.7E 13)
Osmium-191m	76	1000 (3.7E 13)
Osmium-191	76	100 (3.7E 12)
Osmium-193	76	100 (3.7E 12)
Osmium-194	76	1 (3.7E 10)
Palladium-100	46	100 (3.7E 12)
Palladium-101	46	100 (3.7E 12)
Palladium-103	46	100 (3.7E 12)
Palladium-107	46	100 (3.7E 12)
Palladium-109	46	1000 (3.7E 13)
Phosphorus-32	15	0.1 (3.7E 9)
Phosphorus-33	15	1 (3.7E 10)
Platinum-186	78	100 (3.7E 12)
Platinum-188	78	100 (3.7E 12)
Platinum-189	78	100 (3.7E 12)
Platinum-191	78	100 (3.7E 12)

Radionuclide Name	Atomic Number	Final RQ Curies (Bq)
Platinum-193m	78	100 (3.7E 12)
Platinum-193	78	1000 (3.7E 13)
Platinum-195m	78	100 (3.7E 12)
Platinum-197m	78	1000 (3.7E 13)
Platinum-197	78	1000 (3.7E 13)
Platinum-199	78	1000 (3.7E 13)
Platinum-200	78	100 (3.7E 12)
Plutonium-234	94	1000 (3.7E 13)
Plutonium-235	94	1000 (3.7E 13)
Plutonium-236	94	0.1 (3.7E 9)
Plutonium-237	94	1000 (3.7E 13)
Plutonium-238	94	0.01 (3.7E 8)
Plutonium-239	94	0.01 (3.7E 8)
Plutonium-240	94	0.01 (3.7E 8)
Plutonium-241	94	1 (3.7E 10)
Plutonium-242	94	0.01 (3.7E 8)
Plutonium-243	94	1000 (3.7E 13)
Plutonium-244	94	0.01 (3.7E 8)
Plutonium-245	94	100 (3.7E 12)
Polonium-203	84	100 (3.7E 12)
Polonium-205	84	100 (3.7E 12)
Polonium-207	84	10 (3.7E 11)
Polonium-210	84	0.01 (3.7E 8)
Potassium-40	19	1 (3.7E 10)
Potassium-42	19	100 (3.7E 12)
Potassium-43	19	10 (3.7E 11)
Potassium-44	19	100 (3.7E 12)
Potassium-45	19	1000 (3.7E 13)
Praseodymium-136	59	1000 (3.7E 13)
Praseodymium-137	59	1000 (3.7E 13)
Praseodymium-138m	59	100 (3.7E 12)

Radionuclide Name	Atomic Number	Final RQ Curies (Bq)
Praseodymium-139	59	1000 (3.7E 13)
Praseodymium-142m	59	1000 (3.7E 13)
Praseodymium-142	59	100 (3.7E 12)
Praseodymium-143	59	10 (3.7E 11)
Praseodymium-144	59	1000 (3.7E 13)
Praseodymium-145	59	1000 (3.7E 13)
Praseodymium-147	59	1000 (3.7E 13)
Promethium-141	61	1000 (3.7E 13)
Promethium-143	61	100 (3.7E 12)
Promethium-144	61	10 (3.7E 11)
Promethium-145	61	100 (3.7E 12)
Promethium-146	61	10 (3.7E 11)
Promethium-147	61	10 (3.7E 11)
Promethium-148m	61	10 (3.7E 11)
Promethium-148	61	10 (3.7E 11)
Promethium-149	61	100 (3.7E 12)
Promethium-150	61	100 (3.7E 12)
Promethium-151	61	100 (3.7E 12)
Protactinium-227	91	100 (3.7E 12)
Protactinium-228	91	10 (3.7E 11)
Protactinium-230	91	10 (3.7E 11)
Protactinium-231	91	0.01 (3.7E 8)
Protactinium-232	91	10 (3.7E 11)
Protactinium-233	91	100 (3.7E 12)
Protactinium-234	91	10 (3.7E 11)
Radium-223	88	1 (3.7E 10)
Radium-224	88	10 (3.7E 11)

APPENDIX B – RADIONUCLIDES LISTED UNDER CERCLA

Radionuclide Name	Atomic Number	Final RQ Curies (Bq)
Radium-225	88	1 (3.7E 10)
Radium-226Φ	88	0.1 (3.7E 9)
Radium-227	88	1000 (3.7E 13)
Radium-228	88	0.1 (3.7E 9)
Radon-220	86	0.1 (3.7E 9)
Radon-222	86	0.1 (3.7E 9)
Rhenium-177	75	1000 (3.7E 13)
Rhenium-178	75	1000 (3.7E 13)
Rhenium-181	75	100 (3.7E 12)
Rhenium-182 (12.7 hr)	75	10 (3.7E 11)
Rhenium-182 (64.0 hr)	75	10 (3.7E 11)
Rhenium-184m	75	10 (3.7E 11)
Rhenium-184	75	10 (3.7E 11)
Rhenium-186m	75	10 (3.7E 11)
Rhenium-186	75	100 (3.7E 12)
Rhenium-187	75	1000 (3.7E 13)
Rhenium-188m	75	1000 (3.7E 13)
Rhenium-188	75	1000 (3.7E 13)
Rhenium-189	75	1000 (3.7E 13)
Rhodium-99m	45	100 (3.7E 12)
Rhodium-99	45	10 (3.7E 11)
Rhodium-100	45	10 (3.7E 11)
Rhodium-101m	45	100 (3.7E 12)
Rhodium-101	45	10 (3.7E 11)
Rhodium-102m	45	10 (3.7E 11)
Rhodium-102	45	10 (3.7E 11)
Rhodium-103m	45	1000 (3.7E 13)
Rhodium-105	45	100 (3.7E 12)
Rhodium-106m	45	10 (3.7E 11)
Rhodium-107	45	1000 (3.7E 13)
Rubidium-79	37	1000 (3.7E 13)

Radionuclide Name	Atomic Number	Final RQ Curies (Bq)
Rubidium-81m	37	1000 (3.7E 13)
Rubidium-81	37	100 (3.7E 12)
Rubidium-82m	37	10 (3.7E 11)
Rubidium-83	37	10 (3.7E 11)
Rubidium-84	37	10 (3.7E 11)
Rubidium-86	37	10 (3.7E 11)
Rubidium-88	37	1000 (3.7E 13)
Rubidium-89	37	1000 (3.7E 13)
Rubidium-87	37	10 (3.7E 11)
Ruthenium-94	44	1000 (3.7E 13)
Ruthenium-97	44	100 (3.7E 12)
Ruthenium-103	44	10 (3.7E 11)
Ruthenium-105	44	100 (3.7E 12)
Ruthenium-106	44	1 (3.7E 10)
Samarium-141m	62	1000 (3.7E 13)
Samarium-141	62	1000 (3.7E 13)
Samarium-142	62	1000 (3.7E 13)
Samarium-145	62	100 (3.7E 12)
Samarium-146	62	0.01 (3.7E 8)
Samarium-147	62	0.01 (3.7E 8)
Samarium-151	62	10 (3.7E 11)
Samarium-153	62	100 (3.7E 12)
Samarium-155	62	1000 (3.7E 13)
Samarium-156	62	100 (3.7E 12)
Scandium-43	21	1000 (3.7E 13)
Scandium-44m	21	10 (3.7E 11)
Scandium-44	21	100 (3.7E 12)
Scandium-46	21	10 (3.7E 11)
Scandium-47	21	100 (3.7E 12)
Scandium-48	21	10 (3.7E 11)
Scandium-49	21	1000 (3.7E 13)
Selenium-70	34	1000 (3.7E 13)

Radionuclide Name	Atomic Number	Final RQ Curies (Bq)
Selenium-73m	34	100 (3.7E 12)
Selenium-73	34	10 (3.7E 11)
Selenium-75	34	10 (3.7E 11)
Selenium-79	34	10 (3.7E 11)
Selenium-81m	34	1000 (3.7E 13)
Selenium-81	34	1000 (3.7E 13)
Selenium-83	34	1000 (3.7E 13)
Silicon-31	14	1000 (3.7E 13)
Silicon-32	14	1 (3.7E 10)
Silver-102	47	100 (3.7E 12)
Silver-103	47	1000 (3.7E 13)
Silver-104m	47	1000 (3.7E 13)
Silver-104	47	1000 (3.7E 13)
Silver-105	47	10 (3.7E 11)
Silver-106m	47	10 (3.7E 11)
Silver-106	47	1000 (3.7E 13)
Silver-108m	47	10 (3.7E 11)
Silver-110m	47	10 (3.7E 11)
Silver-111	47	10 (3.7E 11)
Silver-112	47	100 (3.7E 12)
Silver-115	47	1000 (3.7E 13)
Sodium-22	11	10 (3.7E 11)
Sodium-24	11	10 (3.7E 11)
Strontium-80	38	100 (3.7E 12)
Strontium-81	38	1000 (3.7E 13)
Strontium-83	38	100 (3.7E 12)
Strontium-85m	38	1000 (3.7E 13)
Strontium-85	38	10 (3.7E 11)
Strontium-87m	38	100 (3.7E 12)
Strontium-89	38	10 (3.7E 11)
Strontium-90	38	0.1 (3.7E 9)
Strontium-91	38	10 (3.7E 11)

Radionuclide Name	Atomic Number	Final RQ Curies (Bq)
Strontium-92	38	100 (3.7E 12)
Sulfur-35	16	1 (3.7E 10)
Tantalum-172	73	100 (3.7E 12)
Tantalum-173	73	100 (3.7E 12)
Tantalum-174	73	100 (3.7E 12)
Tantalum-175	73	100 (3.7E 12)
Tantalum-176	73	10 (3.7E 11)
Tantalum-177	73	1000 (3.7E 13)
Tantalum-178	73	1000 (3.7E 13)
Tantalum-179	73	1000 (3.7E 13)
Tantalum-180m	73	1000 (3.7E 13)
Tantalum-180	73	100 (3.7E 12)
Tantalum-182m	73	1000 (3.7E 13)
Tantalum-182	73	10 (3.7E 11)
Tantalum-183	73	100 (3.7E 12)
Tantalum-184	73	10 (3.7E 11)
Tantalum-185	73	1000 (3.7E 13)
Tantalum-186	73	1000 (3.7E 13)
Technetium-93m	43	1000 (3.7E 13)
Technetium-93	43	100 (3.7E 12)
Technetium-94m	43	100 (3.7E 12)
Technetium-94	43	10 (3.7E 11)
Technetium-96m	43	1000 (3.7E 13)
Technetium-96	43	10 (3.7E 11)
Technetium-97m	43	100 (3.7E 12)
Technetium-97	43	100 (3.7E 12)
Technetium-98	43	10 (3.7E 11)
Technetium-99m	43	100 (3.7E 12)
Technetium-99	43	10 (3.7E 11)
Technetium-101	43	1000 (3.7E 13)
Technetium-104	43	1000 (3.7E 13)
Tellurium-116	52	1000 (3.7E 13)

Radionuclide Name	Atomic Number	Final RQ Curies (Bq)
Tellurium-121m	52	10 (3.7E 11)
Tellurium-121	52	10 (3.7E 11)
Tellurium-123m	52	10 (3.7E 11)
Tellurium-123	52	10 (3.7E 11)
Tellurium-125m	52	10 (3.7E 11)
Tellurium-127m	52	10 (3.7E 11)
Tellurium-127	52	1000 (3.7E 13)
Tellurium-129m	52	10 (3.7E 11)
Tellurium-129	52	1000 (3.7E 13)
Tellurium-131m	52	10 (3.7E 11)
Tellurium-131	52	1000 (3.7E 13)
Tellurium-132	52	10 (3.7E 11)
Tellurium-133m	52	1000 (3.7E 13)
Tellurium-133	52	1000 (3.7E 13)
Tellurium-134	52	1000 (3.7E 13)
Terbium-147	65	100 (3.7E 12)
Terbium-149	65	100 (3.7E 12)
Terbium-150	65	100 (3.7E 12)
Terbium-151	65	10 (3.7E 11)
Terbium-153	65	100 (3.7E 12)
Terbium-154	65	10 (3.7E 11)
Terbium-155	65	100 (3.7E 12)
Terbium-156m (5.0 hr)	65	1000 (3.7E 13)
Terbium-156m (24.4 hr)	65	1000 (3.7E 13)
Terbium-156	65	10 (3.7E 11)
Terbium-157	65	100 (3.7E 12)
Terbium-158	65	10 (3.7E 11)
Terbium-160	65	10 (3.7E 11)
Terbium-161	65	100 (3.7E 12)
Thallium-194m	81	100 (3.7E 12)
Thallium-194	81	1000 (3.7E 13)

Radionuclide Name	Atomic Number	Final RQ Curies (Bq)
Thallium-195	81	100 (3.7E 12)
Thallium-197	81	100 (3.7E 12)
Thallium-198m	81	100 (3.7E 12)
Thallium-198	81	10 (3.7E 11)
Thallium-199	81	100 (3.7E 12)
Thallium-200	81	10 (3.7E 11)
Thallium-201	81	1000 (3.7E 13)
Thallium-202	81	10 (3.7E 11)
Thallium-204	81	10 (3.7E 11)
Thorium-226	90	100 (3.7E 12)
Thorium-227	90	1 (3.7E 10)
Thorium-228	90	0.01 (3.7E 8)
Thorium-229	90	0.001 (3.7E 7)
Thorium-230	90	0.01 (3.7E 8)
Thorium-231	90	100 (3.7E 12)
Thorium-232Φ	90	0.001 (3.7E 7)
Thorium-234	90	100 (3.7E 12)
Thulium-162	69	1000 (3.7E 13)
Thulium-166	69	10 (3.7E 11)
Thulium-167	69	100 (3.7E 12)
Thulium-170	69	10 (3.7E 11)
Thulium-171	69	100 (3.7E 12)
Thulium-172	69	100 (3.7E 12)
Thulium-173	69	100 (3.7E 12)
Thulium-175	69	1000 (3.7E 13)
Tin-110	50	100 (3.7E 12)
Tin-111	50	1000 (3.7E 13)
Tin-113	50	10 (3.7E 11)
Tin-117m	50	100 (3.7E 12)
Tin-119m	50	10 (3.7E 11)
Tin-121m	50	10 (3.7E 11)
Tin-121	50	1000 (3.7E 13)

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Radionuclide Name	Atomic Number	Final RQ Curies (Bq)
Tin-123m	50	1000 (3.7E 13)
Tin-123	50	10 (3.7E 11)
Tin-125	50	10 (3.7E 11)
Tin-126	50	1 (3.7E 10)
Tin-127	50	100 (3.7E 12)
Tin-128	50	1000 (3.7E 13)
Titanium-44	22	1 (3.7E 10)
Titanium-45	22	1000 (3.7E 13)
Tungsten-176	74	1000 (3.7E 13)
Tungsten-177	74	100 (3.7E 12)
Tungsten-178	74	100 (3.7E 12)
Tungsten-179	74	1000 (3.7E 13)
Tungsten-181	74	100 (3.7E 12)
Tungsten-185	74	10 (3.7E 11)
Tungsten-187	74	100 (3.7E 12)
Tungsten-188	74	10 (3.7E 11)
Uranium-230	92	1 (3.7E 10)
Uranium-231	92	1000 (3.7E 13)
Uranium-232	92	0.01 (3.7E 8)
Uranium-233	92	0.1 (3.7E 9)
Uranium-234φ	92	0.1 (3.7E 9)
Uranium-235φ	92	0.1 (3.7E 9)
Uranium-236	92	0.1 (3.7E 9)
Uranium-237	92	100 (3.7E 12)
Uranium-238φ	92	0.1& (3.7E 9)
Uranium-239	92	1000 (3.7E 13)
Uranium-240	92	1000 (3.7E 13)
Vanadium-47	23	1000 (3.7E 13)
Vanadium-48	23	10 (3.7E 11)
Vanadium-49	23	1000 (3.7E 13)
Xenon-120	54	100 (3.7E 12)
Xenon-121	54	10 (3.7E 11)

Radionuclide Name	Atomic Number	Final RQ Curies (Bq)
Xenon-122	54	100 (3.7E 12)
Xenon-123	54	10 (3.7E 11)
Xenon-125	54	100 (3.7E 12)
Xenon-127	54	100 (3.7E 12)
Xenon-129m	54	1000 (3.7E 13)
Xenon-131m	54	1000 (3.7E 13)
Xenon-133m	54	1000 (3.7E 13)
Xenon-133	54	1000 (3.7E 13)
Xenon-135m	54	10 (3.7E 11)
Xenon-135	54	100 (3.7E 12)
Xenon-138	54	10 (3.7E 11)
Ytterbium-162	70	1000 (3.7E 13)
Ytterbium-166	70	10 (3.7E 11)
Ytterbium-167	70	1000 (3.7E 13)
Ytterbium-169	70	10 (3.7E 11)
Ytterbium-175	70	100 (3.7E 12)
Ytterbium-177	70	1000 (3.7E 13)
Ytterbium-178	70	1000 (3.7E 13)
Yttrium-86m	39	1000 (3.7E 13)
Yttrium-86	39	10 (3.7E 11)
Yttrium-87	39	10 (3.7E 11)
Yttrium-88	39	10 (3.7E 11)
Yttrium-90m	39	100 (3.7E 12)
Yttrium-90	39	10 (3.7E 11)
Yttrium-91m	39	1000 (3.7E 13)
Yttrium-91	39	10 (3.7E 11)
Yttrium-92	39	100 (3.7E 12)
Yttrium-93	39	100 (3.7E 12)
Yttrium-94	39	1000 (3.7E 13)
Yttrium-95	39	1000 (3.7E 13)
Zinc-62	30	100 (3.7E 12)
Zinc-63	30	1000 (3.7E 13)

Radionuclide Name	Atomic Number	Final RQ Curies (Bq)
Zinc-65	30	10 (3.7E 11)
Zinc-69m	30	100 (3.7E 12)
Zinc-69	30	1000 (3.7E 13)
Zinc-71m	30	100 (3.7E 12)
Zinc-72	30	100 (3.7E 12)
Zirconium-86	40	100 (3.7E 12)
Zirconium-88	40	10 (3.7E 11)
Zirconium-89	40	100 (3.7E 12)
Zirconium-93	40	1 (3.7E 10)
Zirconium-95	40	10 (3.7E 11)
Zirconium-97	40	10 (3.7E 11)

NOTES:

Ci—Curie. The curie represents a rate of radioactive decay. One curie is the quantity of any radioactive nuclide which undergoes 3.7E 10 disintegrations per second.

Bq—Becquerel. The becquerel represents a rate of radioactive decay. One becquerel is the quantity of any radioactive nuclide which undergoes one disintegration per second. One curie is equal to 3.7E 10 becquerel.

@—Final RQs for all radionuclides apply to chemical compounds containing the radionuclides and elemental forms regardless of the diameter of pieces of solid material.

&—The adjusted RQ of one curie applies to all radionuclides not otherwise listed. Whenever the RQs in the Consolidated List of Chemicals subject to EPCRA, CERCLA and Section 112(r) of CAA and this Appendix B are in conflict, the lowest RQ shall apply. For example, uranyl acetate and uranyl nitrate have adjusted RQs shown in the CAS number ordered chemical list and the alphabetical chemical list (Appendix A) of 100 pounds, equivalent to about one-tenth the RQ level for uranium-238 listed in this appendix.

E—Exponent to the base 10. For example, 1.3E 2 is equal to 130 while 1.3E 3 is equal to 1300.

m—Signifies a nuclear isomer which is a radionuclide in a higher energy metastable state relative to the parent isotope.

φ—Notification requirements for releases of mixtures or solutions of radionuclides can be found in 40 CFR §302.6(b)(2). Final RQs for the following four common radionuclide mixtures are provided: radium-226 in secular equilibrium with its daughters (0.053 curie); natural uranium (0.1 curie); natural uranium in secular equilibrium with its daughters (0.052 curie); and natural thorium in secular equilibrium with its daughters (0.011 curie).

APPENDIX C

THE LIST BELOW CONTAINS RCRA WASTE STREAMS AND UNLISTED HAZARDOUS WASTES.
THE DESCRIPTIONS OF THE WASTE STREAMS HAVE BEEN TRUNCATED.
THE LIST SHOULD BE USED FOR REFERENCE ONLY.
COMPLIANCE INFORMATION CAN BE FOUND IN 40 CFR PART 302 AND TABLE 302.4

RCRA CODE	RQ	NAME
F001	10	The following spent halogenated solvents used in degreasing:
	100	(a) Tetrachloroethylene (CAS No. 127-18-4, RCRA Waste No. U210)
	100	(b) Trichloroethylene (CAS No. 79-01-6, RCRA Waste No. U228)
	1,000	(c) Methylene chloride (CAS No. 75-09-2, RCRA Waste No. U080)
	1,000	(d) 1,1,1-Trichloroethane (CAS No. 71-55-6, RCRA Waste No. U226)
	10	(e) Carbon tetrachloride (CAS No. 56-23-5, RCRA Waste No. U211)
	5,000	(f) Chlorinated fluorocarbons
F002	10	The following spent halogenated solvents:
	100	(a) Tetrachloroethylene (CAS No. 127-18-4, RCRA Waste No. U210)
	1,000	(b) Methylene chloride (CAS No. 75-09-2, RCRA Waste No. U080)
	100	(c) Trichloroethylene (CAS No. 79-01-6, RCRA Waste No. U228)
	1,000	(d) 1,1,1-Trichloroethane (CAS No. 71-55-6, RCRA Waste No. U226)
	100	(e) Chlorobenzene (CAS No. 108-90-7, RCRA Waste No. U037)
	5,000	(f) 1,1,2-Trichloro-1,2,2-trifluoroethane (CAS No. 76-13-1)
	100	(g) o-Dichlorobenzene (CAS No. 95-50-1, RCRA Waste No. U070)
	5,000	(h) Trichlorofluoromethane (CAS No. 75-69-4, RCRA Waste No. U121)
	100	(i) 1,1,2-Trichloroethane (CAS No. 79-00-5, RCRA Waste No. U227)
F003	100	The following spent non-halogenated solvents and still bottoms from recovery:
	1,000	(a) Xylene (CAS No. 1330-20-7, RCRA Waste No. U239)
	5,000	(b) Acetone (CAS No. 67-64-1, RCRA Waste No. U002)
	5,000	(c) Ethyl acetate (CAS No. 141-78-6, RCRA Waste No. U112)
	1,000	(d) Ethylbenzene (CAS No. 100-41-4)
	100	(e) Ethyl ether (CAS No. 60-29-7, RCRA Waste No. U117)
	5,000	(f) Methyl isobutyl ketone (CAS No. 108-10-1, RCRA Waste No. U161)
	5,000	(g) n-Butyl alcohol (CAS No. 71-36-3, RCRA Waste No. U031)
	5,000	(h) Cyclohexanone (CAS No. 108-94-1, RCRA Waste No. U057)
	5,000	(i) Methanol (CAS No. 67-56-1, RCRA Waste No. U154)
F004	100	The following spent non-halogenated solvents and still bottoms from recovery:
	100	(a) Cresols/cresylic acid (CAS No. 1319-77-3, RCRA Waste No. U052)
	1,000	(b) Nitrobenzene (CAS No. 98-95-3, RCRA Waste No. U169)
F005	100	The following spent non-halogenated solvents and still bottoms from recovery:
	1,000	(a) Toluene (CAS No. 108-88-3, RCRA Waste No. U220)
	5,000	(b) Methyl ethyl ketone (CAS No. 78-93-3, RCRA Waste No. U159)
	100	(c) Carbon disulfide (CAS No. 75-15-0, RCRA Waste No. P022)
	5,000	(d) Isobutanol (CAS No. 78-83-1, RCRA Waste No. U140)
	1,000	(e) Pyridine (CAS No. 110-86-1, RCRA Waste No. U196)

RCRA CODE	RQ	NAME
F006	10	Wastewater treatment sludges from electroplating operations (w/some exceptions)
F007	10	Spent cyanide plating bath solns. from electroplating
F008	10	Plating bath residues from electroplating where cyanides are used
F009	10	Spent stripping/cleaning bath solns. from electroplating where cyanides are used
F010	10	Quenching bath residues from metal heat treating where cyanides are used
F011	10	Spent cyanide soln. from salt bath pot cleaning from metal heat treating
F012	10	Quenching wastewater sludges from metal heat treating where cyanides are used
F019	10	Wastewater treatment sludges from chemical conversion aluminum coating
F020	1	Wastes from production or use of tri/tetrachlorophenol or derivative intermediates
F021	1	Wastes from production or use of pentachlorophenol or intermediates for derivatives
F022	1	Wastes from use of tetra/penta/hexachlorobenzenes under alkaline conditions
F023	1	Wastes from mat. production on equipment previously used for tri\tetrachlorophenol
F024	1	Wastes from production of chlorinated aliphatic hydrocarbons (C1-C5)
F025	1	Lights ends, filters from production of chlorinated aliphatic hydrocarbons (C1-C5)
F026	1	Waste from equipment previously used to production tetra/penta/hexachlorobenzenes
F027	1	Discarded formulations containing tri/tetra/pentachlorophenols or derivatives
F028	1	Residues from incineration of soil contaminated w/ F020,F021,F022,F023,F026,F027
F032	1	Wastewaters, process residuals from wood preserving using chlorophenolic solns.
F034	1	Wastewaters, process residuals from wood preserving using creosote formulations
F035	1	Wastewaters, process residuals from wood preserving using arsenic or chromium
F037	1	Petroleum refinery primary oil/water/solids separation sludge
F038	1	Petroleum refinery secondary (emulsified) oil/water/solids separation sludge
F039	1	Multisource leachate
K001	1	Wastewater treatment sludge from creosote/pentachlorophenol wood preserving
K002	10	Wastewater treatment sludge from production of chrome yellow and orange pigments
K003	10	Wastewater treatment sludge from production of molybdate orange pigments
K004	10	Wastewater treatment sludge from production of zinc yellow pigments
K005	10	Wastewater treatment sludge from production of chrome green pigments
K006	10	Wastewater treatment sludge from production of chrome oxide green pigments
K007	10	Wastewater treatment sludge from production of iron blue pigments
K008	10	Oven residue from production of chrome oxide green pigments
K009	10	Dist. bottoms from production of acetaldehyde from ethylene
K010	10	Dist. side cuts from production of acetaldehyde from ethylene
K011	10	Bottom stream from wastewater stripper in acrylonitrile production
K013	10	Bottom stream from acetonitrile column in acrylonitrile production
K014	5,000	Bottoms from acetonitrile purification column in acrylonitrile production
K015	10	Still bottoms from the dist. of benzyl chloride
K016	1	Heavy ends or dist. residues from production of carbon tetrachloride
K017	10	Heavy ends from the purification column in epichlorohydrin production
K018	1	Heavy ends from the fractionation column in ethyl chloride production
K019	1	Heavy ends from the dist. of ethylene dichloride during its production
K020	1	Heavy ends from the dist. of vinyl chloride during production of the monomer

RCRA CODE	RQ	NAME
K021	10	Aqueous spent antimony catalyst waste from fluoromethanes production
K022	1	Dist. bottom tars from production of phenol/acetone from cumene
K023	5,000	Dist. light ends from production of phthalic anhydride from naphthalene
K024	5,000	Dist. bottoms from production of phthalic anhydride from naphthalene
K025	10	Dist. bottoms from production of nitrobenzene by nitration of benzene
K026	1,000	Stripping still tails from the production of methyl ethyl pyridines
K027	10	Centrifuge/dist. residues from toluene diisocyanate production
K028	1	Spent catalyst from hydrochlorinator reactor in production of 1,1,1-trichloroethane
K029	1	Waste from product steam stripper in production of 1,1,1-trichloroethane
K030	1	Column bottoms/heavy ends from production of trichloroethylene and perchloroethylene
K031	1	By-product salts generated in the production of MSMA and cacodylic acid
K032	10	Wastewater treatment sludge from the production of chlordane
K033	10	Wastewaster/scrubwater from chlorination of cyclopentadiene in chlordane production
K034	10	Filter solids from filtration of hexachlorocyclopentadiene in chlordane production
K035	1	Wastewater treatment sludges from the production of creosote
K036	1	Still bottoms from toluene reclamation distillation in disulfoton production
K037	1	Wastewater treatment sludges from the production of disulfoton
K038	10	Wastewater from the washing and stripping of phorate production
K039	10	Filter cake from filtration of diethylphosphorodithioic adid in phorate production
K040	10	Wastewater treatment sludge from the production of phorate
K041	1	Wastewater treatment sludge from the production of toxaphene
K042	10	Heavy ends/residues from dist. of tetrachlorobenzene in 2,4,5-T production
K043	10	2,6-Dichlorophenol waste from the production of 2,4-D
K044	10	Wastewater treatment sludge from manuf. and processing of explosives
K045	10	Spent carbon from treatment of wastewater containing explosives
K046	10	Wastewater sludge from manuf., formulating, loading of lead-based initiating compd
K047	10	Pink/red water from TNT operations
K048	10	Dissolved air flotation (DAF) float from the petroleum refining industry
K049	10	Slop oil emulsion solids from the petroleum refining industry
K050	10	Heat exchanger bundle cleaning sludge from petroleum refining industry
K051	10	API separator sludge from the petroleum refining industry
K052	10	Tank bottoms (leaded) from the petroleum refining industry
K060	1	Ammonia still lime sludge from coking operations
K061	10	Emission control dust/sludge from primary production of steel in electric furnaces
K062	10	Spent pickle liquor generated by steel finishing (SIC codes 331 and 332)
K064	10	Acid plant blowdown slurry/sludge from blowdown slurry from primary copper production
K065	10	Surface impoundment solids at primary lead smelting facilities
K066	10	Sludge from treatment of wastewater/acid plant blowdown from primary zinc production
K069	10	Emission control dust/sludge from secondary lead smelting
K071	1	Brine purification muds from mercury cell process in chlorine production
K073	10	Chlorinated hydrocarbon waste from diaphragm cell process in chlorine production
K083	100	Distillation bottoms from aniline extraction

RCRA CODE	RQ	NAME
K084	1	Wastewater sludges from production of veterinary pharm. from arsenic compds.
K085	10	Distillation or fractionation column bottoms in production of chlorobenzenes
K086	10	Wastes/sludges from production of inks from chromium and lead-containing substances
K087	100	Decanter tank tar sludge from coking operations
K088	10	Spent potliners from primary aluminum reduction
K090	10	Emission control dust/sludge from ferrochromiumsilicon production
K091	10	Emission control dust/sludge from ferrochromium production
K093	5,000	Dist. light ends from production of phthalic anhydride by ortho-xylene
K094	5,000	Dist. bottoms in production of phthalic anhydride by ortho-xylene
K095	100	Distillation bottoms in production of 1,1,1-trichloroethane
K096	100	Heavy ends from dist. column in production of 1,1,1-trichloroethane
K097	1	Vacuum stripper discharge from the chlordane chlorinator in production of chlordane
K098	1	Untreated process wastewater from the production of toxaphene
K099	10	Untreated wastewater from the production of 2,4-D
K100	10	Waste leaching soln from emission control dust/sludge in secondary lead smelting
K101	1	Dist. tar residue from aniline in production of veterinary pharm. from arsenic compd.
K102	1	Residue from activated carbon in production of veterinary pharm. from arsenic compds.
K103	100	Process residues from aniline extraction from the production of aniline
K104	10	Combined wastewater streams generated from production of nitrobenzene/aniline
K105	10	Aqueous stream from washing in production of chlorobenzenes
K106	1	Wastewater treatment sludge from mercury cell process in chlorine production
K107	10	Column bottoms from separation in production of UDMH from carboxylic acid hydrazides
K108	10	Condensed column overheads and vent gas from production of UDMH from -COOH hydrazides
K109	10	Spent filter cartridges from purif. of UDMH production from carboxylic acid hydrazides
K110	10	Condensed column overheads from separation in UDMH production from -COOH hydrazides
K111	10	Product washwaters from production of dinitrotoluene via nitration of toluene
K112	10	Reaction by-product water from drying in toluenediamine prod from dinitrotoluene
K113	10	Condensed liquid light ends from purification of toluenediamine during its production
K114	10	Vicinals from purification of toluenediamine during its production from dinitrotoluene
K115	10	Heavy ends from toluenediamine purification during production from dinitrotoluene
K116	10	Organic condensate from solvent recovery system in production of toluene diisocyanate
K117	1	Wastewater from vent gas scrubber in ethylene bromide prod by ethene bromination
K118	1	Spent absorbent solids in purification of ethylene dibromide in its production
K123	10	Process wastewater from the production of ethylenebisdithiocarbamic acid and salts
K124	10	Reactor vent scrubber water from prod of ethylenebisdithiocarbamic acid and salts
K125	10	Filtration/other solids from production of ethylenebisdithiocarbamic acid and salts
K126	10	Dust/sweepings from the production of ethylenebisdithiocarbamic acid and salts
K131	100	Wastewater and spent sulfuric acid from the production of methyl bromide
K132	1,000	Spent absorbent and wastewater solids from the production of methyl bromide
K136	1	Still bottoms from ethylene dibromide purif. in production by ethene bromination
K141	1	Process residues from coal tar recovery in coking

RCRA CODE	RQ	NAME
K142	1	Tar storage tank residues from coke production from coal or recovery of coke by-prods
K143	1	Process residues from recovery of light oil in coking
K144	1	Wastewater residues from light oil refining in coking
K145	1	Residues from naphthalene collection and recovery from coke by-products
K147	1	Tar storage tank residues from coal tar refining in coking
K148	1	Residues from coal tar distillation, including still bottoms, in coking
K149	10	Distillation bottoms from the production of chlorinated toluenes/benzoyl chlorides
K150	10	Organic residuals from Cl gas and HCl recovery from chlorinated toluene production
K151	10	Wastewater treatment sludge from production of chlorotoluenes/benzoyl chlorides
K156	10	Organic waste from production of carbamates and carbamoyl oximes
K157	10	Wastewaters from production of carbamates and carbamoyl oximes (not sludges)
K158	10	Bag house dusts & filter/separation solids from prod of carbamates, carb oximes
K159	10	Organics from treatment of thiocarbamate waste
K161	1	Purif. solids/bag house dust/sweepings from prod of dithiocarbamate acids/salts
K169	10	Crude oil storage tank sediment from refining operations
K170	1	Clarified slurry oil tank sediment of in-line filter/separation solids
K171	1	Spent hydrotreating catalyst
K172	1	Spent hydrorefining catalyst
K174	1	Wastewater treatment sludges from the production of ethylene dichloride or vinyl chloride monomer, (including sludges that result from commingled EDC or VCM wastewater and other wastewater), unless the sludges meet certain disposal conditions. (See 40 CFR 261.32)
K175	1	Wastewater treatment sludges from the production vinyl chloride monomer using mercuric chloride catalyst in an acetylene-based process (See 40 CFR 261.32)
K176	1	Baghouse filters from the production of antimony oxide, including filters from the production of intermediates (e.g., antimony metal or crude antimony oxide)
K177	5000	Slag from the production of antimony oxide that is speculatively accumulated or disposed, including slag from the production of intermediates (e.g., antimony metal or crude antimony oxide)
K178	1000	Residues from manufacturing and manufacturing-site storage of ferric chloride from acids formed during the production of titanium dioxide using the chloride-ilmenite process
K181	1*	Non-wastewaters generated from the production of certain dyes, pigments, and FD&C colorants, exceeding constituent mass loading levels, subject to disposal exceptions in 40 CFR 261.32
D001	100	Unlisted hazardous wastes characteristic of ignitability
D002	100	Unlisted hazardous wastes characteristic of corrosivity
D003	100	Unlisted hazardous wastes characteristic of reactivity
		Unlisted hazardous wastes characteristic of toxicity:
D004	1	Arsenic
D005	1,000	Barium
D006	10	Cadmium
D007	10	Chromium
D008	10	Lead
D009	1	Mercury
D010	10	Selenium
D011	1	Silver

RCRA CODE	RQ	NAME
D012	1	Endrin
D013	1	Lindane
D014	1	Methoxychlor
D015	1	Toxaphene
D016	100	2,4-D
D017	100	2,4,5-TP
D018	10	Benzene
D019	10	Carbon tetrachloride
D020	1	Chlordane
D021	100	Chlorobenzene
D022	10	Chloroform
D023	100	o-Cresol
D024	100	m-Cresol
D025	100	p-Cresol
D026	100	Cresol
D027	100	1,4-Dichlorobenzene
D028	100	1,2-Dichloroethane
D029	100	1,1-Dichloroethylene
D030	10	2,4-Dinitrotoluene
D031	1	Heptachlor (and epoxide)
D032	10	Hexachlorobenzene
D033	1	Hexachlorobutadiene
D034	100	Hexachloroethane
D035	5,000	Methyl ethyl ketone
D036	1,000	Nitrobenzene
D037	10	Pentachlorophenol
D038	1,000	Pyridine
D039	100	Tetrachloroethylene
D040	100	Trichloroethylene
D041	10	2,4,5-Trichlorophenol
D042	10	2,4,6-Trichlorophenol
D043	1	Vinyl chloride

APPENDIX D

EPCRA SECTION 313, TOXIC RELEASE INVENTORY (TRI) CHEMICAL CATEGORIES

The EPCRA Section 313, Toxic Release Inventory (TRI) has 31 chemical categories (including four categories containing 68 specifically-listed chemicals). Each chemical category is listed below with its category code and category name.

Source: http://www2.epa.gov/toxics-release-inventory-tri-program/tri-listed-chemicals
Also see 40 CFR 372.65.

N010 Antimony Compounds. *Includes any unique chemical substance that contains antimony as part of that chemical's infrastructure.*

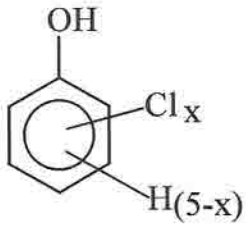
N020 Arsenic Compounds. *Includes any unique chemical substance that contains arsenic as part of that chemical's infrastructure.*

N040 Barium Compounds. *Includes any unique chemical substance that contains barium as part of that chemical's infrastructure. This category does not include: Barium sulfate CAS Number 7727-43-7*

N050 Beryllium Compounds. *Includes any unique chemical substance that contains beryllium as part of that chemical's infrastructure.*

N078 Cadmium Compounds. *Includes any unique chemical substance that contains cadmium as part of that chemical's infrastructure.*

N084 Chlorophenols. *Includes any chemical substance with the following chemical formula:*



Where x = 1 to 5

N090 Chromium Compounds. *Includes any unique chemical substance that contains chromium as part of that chemical's infrastructure* **(except for chromite ore mined in the Transvaal Region of South Africa and the unreacted ore component of the chromite ore processing residue (COPR). COPR is the solid waste remaining after aqueous extraction of oxidized chromite ore that has been combined with soda ash and kiln roasted at approximately 2,000 deg.F.)**

N096 Cobalt Compounds. *Includes any unique chemical substance that contains cobalt as part of that chemical's infrastructure.*

N100 Copper Compounds. *Includes any unique chemical substance that contains copper as part of that chemical's infrastructure. This category does not include copper phthalocyanine compounds that are substituted with only hydrogen, and/or chlorine, and/or bromine.*

N106 Cyanide Compounds. *Includes any chemical substance with the following chemical formula:*

$X^+ CN^-$ *where* $X = H^+$ *or any other group where a formal dissociation can be made. For example* KCN *or* $Ca(CN)^2$.

N120 Diisocyanates *This category includes only those chemicals listed below.*

CAS Number	Diisocyanate Chemical Name
38661-72-2	1,3-Bis(methylisocyanate)-cyclohexane
10347-54-3	1,4-Bis(methylisocyanate)-cyclohexane
2556-36-7	1,4-Cyclohexanediisocyanate
134190-37-7	Diethyldiisocyanatobenzene
4128-73-8	4,4'-Diisocyanatodiphenyl ether
75790-87-3	2,4'-Diisocyanatodiphenyl sulfide
91-93-0	3,3'-Dimethoxybenzidine-4,4'-diisocyanate
91-97-4	3,3'-Dimethyl-4,4'-diphenylene diisocyanate
139-25-3	3,3'-Dimethyldiphenyl methane-4,4'-diisocyanate
822-06-0	Hexamethylene-1,6-diisocyanate
4098-71-9	Isophorone diisocyanate
75790-84-0	4-Methyldiphenylmethane-3,4-diisocyanate
5124-30-1	1,1-Methylenebis(4-isocyanatocyclohexane)
101-68-8	Methylenebis(phenylisocyanate) (MDI)
3173-72-6	1,5-Naphthalene diisocyanate

123-61-5	1,3-Phenylene diisocyanate
104-49-4	1,4-Phenylene diisocyanate
9016-87-9	Polymeric diphenylmethane diisocyanate
16938-22-0	2,2,4-Trimethylhexamethylenediisocyanate
15646-96-5	2,4,4-Trimethylhexamethylene diisocyanate

N150 Dioxin and Dioxin-Like Compounds
(Manufacturing; and the processing or otherwise use of dioxin and dioxin-like compounds if the dioxin and dioxin-like compounds are present as contaminants in a chemical and if they were created during the manufacturing of that chemical.) This category includes only those chemicals listed below.

CAS Number	Dioxin Chemical Name
1746-01-6	2,3,7,8- Tetrachlorodibenzo-*p*-dioxin
40321-76-4	1,2,3,7,8-Pentachlorodibenzo-*p*-dioxin
39227-28-6	1,2,3,4,7,8-Hexachlorodibenzo-*p*-dioxin
57653-85-7	1,2,3,6,7,8-Hexachlorodibenzo-*p*-dioxin
19408-74-3	1,2,3,7,8,9-Hexachlorodibenzo-*p*-dioxin
35822-46-9	1,2,3,4,6,7,8-Heptachlorodibenzo-*p*-dioxin
3268-87-9	1,2,3,4,6,7,8,9-Octachlorodibenzo-*p*-dioxin
51207-31-9	2,3,7,8-Tetrachlorodibenzofuran
57117-41-6	1,2,3,7,8-Pentachlorodibenzofuran
57117-31-4	2,3,4,7,8-Pentachlorodibenzofuran
70648-26-9	1,2,3,4,7,8-Hexachlorod-benzofuran
57117-44-9	1,2,3,6,7,8-Hexachlorodibenzofuran
72918-21-9	1,2,3,7,8,9-Hexachlorodibenzofuran
60851-34-5	2,3,4,6,7,8-Hexachlorodibenzofuran

67562-39-4	1,2,3,4,6,7,8-Heptachlorodibenzofuran
55673-89-7	1,2,3,4,7,8,9-Heptachlorodibenzofuran
39001-02-0	1,2,3,4,6,7,8,9-Octachlorodibenzofuran

N171 Ethylenebisdithiocarbamic acid, salts and esters (EBDCs). *Includes any unique chemical substance that contains an EBDC or an EBDC salt as part of that chemical's infrastructure.*

N230 Certain Glycol Ethers. *Includes any chemical substance with the following chemical formula:*

R-(OCH_2CH_2) n-OR'

where n = 1, 2, or 3
R = alkyl C7 or less; or
R = phenyl or alkyl substituted phenyl;
R' = H, or alkyl C7 or less; or
OR' = consisting of carboxylic acid ester, sulfate, phosphate, nitrate, or sulfonate.

N420 Lead Compounds. *Includes any unique chemical substance that contains lead as part of that chemical's infrastructure.*

N450 Manganese Compounds. *Includes any unique chemical substance that contains manganese as part of that chemical's infrastructure.*

N458 Mercury Compounds. *Includes any unique chemical substance that contains mercury as part of that chemical's infrastructure.*

N495 Nickel Compounds. *Includes any unique chemical substance that contains nickel as part of that chemical's infrastructure.*

N503 Nicotine and salts. *Includes any unique chemical substance that contains nicotine or a nicotine salt as part of that chemical's infrastructure.*

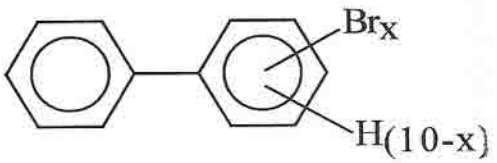
N511 Nitrate compounds (water dissociable; reportable only when in aqueous solution)

N530 Nonylphenyol. *This category includes only those chemicals listed below.*

This category was added to the TRI chemical list in September 2014. Facilities that meet TRI reporting thresholds for nonylphenol should begin collecting release information on January 1, 2015 (reporting forms due July 1, 2016).

CAS Number	Nonylphenol Name
104-40-5	4-Nonylphenol
11066-49-2	Isononylphenol
25154-52-3	Nonylphenol
26543-97-5	4-Isononylphenol
84852-15-3	4-Nonylphenol, branched
90481-04-2	Nonylphenol, branched

N575 Polybrominated Biphenyls (PBBs). *Includes any chemical substance with the following chemical formula:*



Where x = 1 to 10

N583 Polychlorinated alkanes (C10 to C13) (except for those members of the category that have an average chain length of 12 carbons and contain an average chlorine content of 60% by weight which are subject to the 0.1% *de minimis*). *Includes any chemical substance with the following chemical formula:*

$C_x H_{2x+2-y} Cl_y$
where x = 10 to 13;
y = 3 to 12; and
the average chlorine content ranges from 40-70% with the limiting molecular formulas C10H19Cl3 and C13H16Cl12.

N590 Polycyclic aromatic compounds (PACs). *This category includes the chemicals listed below.*

CAS Number	PAC Chemical Name
56-55-3	Benz(a)anthracene
205-99-2	Benzo(b)fluoranthene

205-82-3	Benzo(j)fluoranthene
207-08-9	Benzo(k)fluoranthene
206-44-0	Benzo(j,k)fluorene
189-55-9	Benzo(r,s,t)pentaphene
218-01-9	Benzo(a)phenanthrene
50-32-8	Benzo(a)pyrene
226-36-8	Dibenz(a,h)acridine
224-42-0	Dibenz(a,j)acridine
53-70-3	Dibenzo(a,h)anthracene
194-59-2	7H-Dibenzo(c,g)carbazole
5385-75-1	Dibenzo(a,e)fluoranthene
192-65-4	Dibenzo(a,e)pyrene
189-64-0	Dibenzo(a,h)pyrene
191-30-0	Dibenzo(a,l)pyrene
57-97-6	7,12-Dimethylbenz(a)-anthracene
42397-64-8	1,6-Dinitropyrene
42397-65-9	1,8-Dinitropyrene
193-39-5	Indeno(1,2,3-cd)pyrene
56-49-5	3-Methylcholanthrene
3697-24-3	5-Methylchrysene
7496-02-8	6-Nitrochrysene
5522-43-0	1-Nitropyrene
57835-92-4	4-Nitropyrene

N725 Selenium Compounds. *Includes any unique chemical substance that contains selenium as part of that chemical's infrastructure.*

N740 Silver Compounds. *Includes any unique chemical substance that contains silver as part of that chemical's infrastructure.*

N746 Strychnine and salts. *Includes any unique chemical substance that contains strychnine or a strychnine salt as part of that chemical's infrastructure.*

N760 Thallium Compounds. *Includes any unique chemical substance that contains thallium as part of that chemical's infrastructure.*

N770 Vanadium Compounds. *Includes any unique chemical substance that contains vanadium as part of that chemical's infrastructure.*

N874 Warfarin and salts. *Includes any unique chemical substance that contains warfarin or a warfarin salt as part of that chemical's infrastructure.*

N982 Zinc Compounds. *Includes any unique chemical substance that contains zinc as part of that chemical's infrastructure.*

For more details on how to report TRI chemicals and chemical categories, see http://www2.epa.gov/toxics-release-inventory-tri-program/reporting-tri-facilities

EPA has more detailed chemical-specific guidance documents for the EPCRA Section 313 chemical categories on its webpage http://www2.epa.gov/toxics-release-inventory-tri-program/guidance-documents-tri-reporting#chemical_sp. Documents are available for:

- Lead and Lead Compounds
- Mercury and Mercury Compounds
- Polycyclic Aromatic Compounds
- Pesticides and Other Persistent Bioaccumulative Toxic (PBT) Chemicals
- Dioxin and Dioxin-like Compounds Category
- Aqueous Ammonia
- Nitrate compounds
- Hydrochloric acid aerosols
- Sulfuric acid aerosols
- Certain glycol ethers
- Chlorophenols
- List of Toxic Chemicals within Ethylenebisdithiocarbamic Acid, Salts and Esters Category and List of Mixtures that Contain the Individually listed Chemicals Maneb, Metiram, Nabam, and Zineb
- Nicotine and salts
- Polychlorinated alkanes
- Strychnine and salts
- Warfarin and salts

APPENDIX E

CERCLA Hazardous Substances - Chemical Categories

This appendix provides further definition or clarification, where available, of CERCLA chemical categories that are listed with N.A. as the CAS Registry Number in the consolidated list. Dichlorobenzidine and diphenylhydrazine are also included in this appendix for completeness sake because they are listed on the consolidated list with CAS No. of N.A., although technically each is not considered a category containing several chemical substances. Many chemicals that are also members of a category may also be listed separately as a CERCLA chemical with its own RQ. For example, cobaltous bromide, CAS 7789-43-7, appears on the CERCLA list separately.

Radionuclides listed under CERCLA are provided in a separate list in Appendix B of this document, with RQs in Curies. EPCRA section 313 (TRI) Chemical Category definitions are found in Appendix C.

Each CERCLA chemical category in this appendix was designated as a CERCLA hazardous substance based on a statutory source (See NOTE following 40 CFR 302.4 (b)). The statutory Codes (1), (2), (3), or (4), shown after each category name, refers to a statutory source, listed in the table below.

Statutory Code	Statutory Source	Applicable CFR citation
(1)	Section 311(b)(2) of the Clean Water Act	Hazardous Substances 40 CFR 116.4
(2)	Section 307(a) of the Clean Water Act	Priority Toxic Pollutants 40 CFR 401.15
(3)	Section 112 of the Clean Air Act	Hazardous Air Pollutants List- Section 112(b)(1) of CAA Revisions to List 40 CFR 60.60-63
(4)	Section 3001 of RCRA	Hazardous Wastes 40 CFR 261.33(e) and (f) ("P" and "U" Haz. Waste chemicals)

Endnote reference letters refer to sources of information used to define or clarify the category. These endnote references appear at the end of the appendix.

Arsenic and Compounds (2), (3)

Unless otherwise specified, this listing is defined as including any unique chemical substance that contains arsenic as part of that chemical's infrastructure.[a]

Arsenic Compounds (inorganic including arsine)[b]

Antimony and Compounds (2), (3)

Unless otherwise specified, this listing is defined as including any unique chemical substance that contains antimony as part of that chemical's infrastructure.[a] For antimony and compounds, the term *compounds* shall include organic and inorganic compounds. [c]

Beryllium and Compounds (2), (3)

Unless otherwise specified, this listing is defined as including any unique chemical substance that contains beryllium as part of that chemical's infrastructure.[a]

Cadmium and Compounds (2), (3)

Unless otherwise specified, this listing is defined as including any unique chemical substance that contains cadmium as part of that chemical's infrastructure.[a]

Chromium and Compounds (2), (3)

Unless otherwise specified, this listing is defined as including any unique chemical substance that contains chromium as part of that chemical's infrastructure.[a]

Chlorinated Benzenes (2)

Chlorobenzene[d]
1,2-dichlorobenzene[d]
1,3-dichlorobenzene[d]
1,4-dichlorobenzene[d]
1,2,4-trichlorobenzene[d]
Hexachlorobenzene[d]

Chlorinated Ethanes (2)

Chloroethane[d]
l,l-dichloroethane[d]
1,2-dichloroethane[d]
l,l,l-trichloroethane[d]
1,1,2-trichloroethane[d]
1,1,2,2-tetrachloroethane[d]
Hexachloroethane[d]

Chlorinated Phenols (2)

2-chlorophenol[d]
2,4-dichlorophenol[d]
2,4,6-trichlorophenol[d]
Parametachlorocresol (4-chloro-3-methyl phenol)[d]

Chloroalkyl Ethers (2)

Bis(2-chloroethoxy)methane[d]
Bis(2-chloroethyl) ether[d]
2-chloroethyl vinyl ether (mixed)[d]

Cobalt and Compounds (3)

Unless otherwise specified, this listing is defined as including any unique chemical substance that contains cobalt as part of that chemical's infrastructure.[a]

Coke Oven Emissions (3)

Copper and Compounds (2)

Creosote (4)

RCRA Toxic hazardous waste code U051 40 CFR 261.33(f)

Creosote, as defined by the American Wood Preservers Association, is a distillate derived from coal tar, derived by the high temperature carbonization of bituminous coal. Creosote consists primarily of liquid, solid polycyclic aromatic hydrocarbons (PAHs), other heteronuclear aromatic substances, and some tar acids and bases. Creosote Oil (Common Name) has the following active ingredients:

Coal Tar	CAS Number 8007-45-2
Creosote Oil	CAS Number 61789-28-4
Coal Tar Creosote	CAS No. 8001-58-9

Currently there are thirteen creosote industrial wood preservative products registered as pesticides with USEPA under FIFRA. All have "creosote" as part of the product name.[e]

Cyanides (2), (3)

Cyanide and Compounds (2), (3)

X'CN where X = H' or any other group where a formal dissociation may occur. For example KCN or $Ca(CN)_2$.[f]

Cyanides (soluble salts and complexes, not otherwise specified) P030 Haz. Waste (4)

DDT and Metabolites (2)

4,4-DDT[d]
4.4-DDE (p,p-DDX)[d]
4,4-DDD (p,p-TDE)[d]

DDT means the compounds DDT, DDD, and DDE as identified by the chemical names:(DDT)-1,1,1-trichloro-2,2-bis(p-chlorophenyl) ethane and some o,p′-isomers; (DDD) or (TDE)-1,1-dichloro-2,2-bis(p-chlorophenyl) ethane and some o,p′-isomers; (DDE)-1,1-dichloro-2,2-bis(p-chlorophenyl) ethylene.[g]

Dichlorobenzidine (2)

3,3-dichlorobenzidine[d]

Diphenylhydrazine (2)

1,1-diphenylhydrazine[d]

Endosulfan and Metabolites (2)

Alpha-endosulfan[d]
Beta-endosulfan[d]
Endosulfan sulfate[d]

Endrin and metabolites (2)

Endrin[d]
Endrin aldehyde[d]

Endrin means the compound endrin as identified by the chemical name 1,2,3,4,10,10-hexachloro-6,7-epoxy-1,4,4a,5,6,7,8,8a-octahydro-1,4-endo-5,8-endodimethanonaphthalene.[g]

Fine Mineral Fibers (3)

Includes mineral fiber emissions from facilities manufacturing or processing glass, rock, or slag fibers (or other mineral derived fibers) of average diameter 1 micrometer or less.[f]

Glycol Ethers (3)

Glycol ethers include mono- and di-ethers of ethylene glycol, diethylene glycol, and triethylene glycol $R\text{-}(OCH_2CH_2)_n\text{-}OR'$. Where:

n = 1, 2, or 3;
R = alkyl C7 or less; or
R = phenyl or alkyl substituted phenyl;
R′= H or alkyl C7 or less; or
OR′ consisting of carboxylic acid ester, sulfate, phosphate, nitrate, or sulfonate.[h]

The substance ethylene glycol monobutyl ether (EGBE,2-Butoxyethanol) (CAS Number 111–76–2) is deleted from the list of hazardous air pollutants established by 42 U.S.C. 7412(b)(1)[Section 112(b)(1) of CAA].[i]

Haloethers (2)

4-chlorophenyl phenyl ether[d]
2-bromophenyl phenyl ether[d]
Bis(2-chloroisopropyl) ether[d]

Haloethers (other than those listed elsewhere; includes chlorophenylphenyl ethers, bromophenylphenyl ether, bis(dichloroisopropyl) ether, bis-(chloroethoxy) methane and polychlorinated diphenyl ethers).[j]

Halomethanes (2)

Methylene chloride (dichloromethane)[d]
Methyl chloride (chloromethane)[d]
Methyl Bromide (bromomethane)[d]
Bromoform (tribromomethane)[d]
Dichlorobromomethane[d]
Chlorodibromomethane[d]

Halomethanes (other than those listed elsewhere; includes methylene chloride, methylchloride, methylbromide, bromoform, dichlorobromomethane.[j]

Heptachlor and Metabolites (2)

Heptachlor[d]
Heptachlor epoxide (BHC-hexachlorocyclohexane)[d]

Lead and Compounds (2), (3)

Unless otherwise specified, this listing is defined as including any unique chemical substance that contains lead as part of that chemical's infrastructure.[a]

Manganese and Compounds (3)

Unless otherwise specified, this listing is defined as including any unique chemical substance that contains manganese as part of that chemical's infrastructure.[a]

Mercury and Compounds (2), (3)

Unless otherwise specified, this listing is defined as including any unique chemical substance that contains mercury as part of that chemical's infrastructure.[a]

Nickel and Compounds (2), (3)

Unless otherwise specified, this listing is defined as including any unique chemical substance that contains nickel as part of that chemical's infrastructure.[a]

Nitrosamines (2)

N-nitrosodimethylamine[d]
N-nitrosodiphenylamine[d]
N-nitrosodi-n-propylamine[d]

Nitrophenols (other than chlorinated) (2)

2-nitrophenol[d]
4-nitrophenol[d]
2,4-dinitrophenol[d]
4,6-dinitro-o-cresol (4,6-dinitro-2-methylphenol)[d]
Pentachlorophenol[d]
Phenol[d]
2,4-dimethylphenol[d] Nitrophenols (including 2,4-dinitrophenol, dinitrocresol).[j]

Phthalate Esters (2)

Bis(2-ethylhexyl)phthalate[d]
Butyl benzyl phthalate[d]
Di-N-butyl phthalate[d]
Di-n-octyl phthalate[d]
Diethyl phthalate[d]
Dimethyl phthalate[d]

Polychlorinated Biphenyls (PCBs) (1), (2), (3)

PCB-1242 (Arochlor 1242)[d]
PCB-1254 (Arochlor 1254)[d]
PCB-1221 (Arochlor 1221)[d]
PCB-1232 (Arochlor 1232)[d]
PCB-1248 (Arochlor 1248)[d]
PCB-1260 (Arochlor 1260)[d]
PCB-1016 (Arochlor 1016)[d]

Polychlorinated Biphenyls (PCBs) means a mixture of compounds composed of the biphenyl molecule which has been chlorinated to varying degrees.[g]

Polycyclic Organic Matter (3)

Includes organic compounds with more than one benzene ring, and which have a boiling point greater than or equal to 100º C.[f]

Polynuclear Aromatic Hydrocarbons (PAHs) (2)

Acenaphthene[d]
1,2-benzanthracene (benzo(a) anthracene)[d]
Benzo(a)pyrene (3,4-benzo-pyrene)[d]
3,4-benzofluoranthene (benzo(b) fluoranthene)[d]
11,12-benzofluoranthene (benzo(k) fluoranthene)[d]
Chrysene[d]
Acenaphthalene[d]
Anthracene[d]
1,12-benzoperylene (benzo (ghi) perylene)[d]
Fluorene[d]
Fluoranthene[d]
Phenanthrene[d]
1,2,5,6-bibenzanthracene (dibenzo(ah) anthracene)[d]
Indeno (1,2,3-cd) pyrene (2,3-o-phenylene pyrene)[d]
Pyrene[d]

Polynuclear aromatic hydrocarbons (including benzanthracenes, benzopyrenes, benzofluoranthene, chrysenes, dibenz-anthracenes, and indenopyrenes).[j]

Radionuclides (3) See Appendix B in this document.

A type of atom which spontaneously undergoes radioactive decay.[f]

Selenium and Compounds (2), (3)

Unless otherwise specified, this listing is defined as including any unique chemical substance that contains selenium as part of that chemical's infrastructure.[a]

Silver and Compounds (2), (3)

Unless otherwise specified, this listing is defined as including any unique chemical substance that contains silver as part of that chemical's infrastructure.[a]

Thallium and Compounds (2)

Zinc and Compounds (2)

Endnote References

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[a] 42 U.S.C. 7412(b)(1)-[Section 112(b)(1) of CAA] "NOTE" after the Initial List of Pollutants: *For all listings above which contain the word "compounds" … the following applies: Unless otherwise specified, these listings are defined as including any unique chemical substance that contains the named chemical (i.e., antimony, arsenic, etc.) as part of that chemical's infrastructure.*

[b] 42 U.S.C. 7412(b)(1)-[Section 112(b)(1) of CAA] Initial List of Pollutants.

[c] 40 CFR 401.15 footnote 2 (for antimony and compounds only).

[d] USEPA. 1994. Water Quality Standards Handbook, Second Edition, Appendix P- List of 126 CWA Section 307(a) Priority Toxic Pollutants. http://water.epa.gov/scitech/swguidance/standards/handbook/

[e] USEPA. Sept 2008. Reregistration Eligibility Decision for Creosote (Case 0139). http://www.epa.gov/oppsrrd1/reregistration/REDs/creosote_red.pdf

[f] 42 U.S.C. 7412(b)(1)-[Section 112(b)(1) of CAA] Footnotes after Initial List of Pollutants.

[g] 40 CFR 129.4 Toxic Pollutants.

[h] 40 CFR 63.62 Redefinition of glycol ethers.

[i] 40 CFR 63.63 Hazardous Air Pollutants.

[j] 40 CFR 401.15 Toxic Pollutants List.

Wildfire Response Plan

Unit Name: Bandon Marsh National Wildlife Refuge, and the units of Coquille Point and Crook Point of the Oregon Islands National Wildlife Refuge; Oregon Coast National Wildlife Refuge Complex.

Effective Date: 03/01/2018

Prepared by: Molly Cox; Fire Planner; USFWS Pacific Region

Reviewed By: Daniel C Eddy **/s/ Daniel Eddy** **Date** 3/5/2018
Zone Fire Management Duty Officer; Oregon Coast National Wildlife Refuge Complex

Reviewed By: _____**/s/ Brian Gales** **Date**_____
Regional Fire Management Coordinator; USFWS Pacific Region

Approved by: _____**/s/ Kelly Moroney** **Date**_____
Project Leader; Oregon Coast National Wildlife Refuge Complex

Annual Review History:

Review Date	Reviewers

Wildfire Response Procedure

Upon Fire Report

- ✓ Document and report accurate location of fire to dispatch - call 911.
- ✓ "Is everyone safe?" Take a headcount of all personnel on site, including family members, and the public.
- ✓ Call Eugene Interagency Communication Center (541.225.6400) and request the Siuslaw National Forest Duty Officer. "This is_____at Bandon Marsh National Wildlife Refuge. We have a wildfire located at__. I have requested resources through 911 but need to contact the interagency Duty Officer. Can you please contact them and have them call me back at_."

- ✓ Ensure that the Project Leader, Refuge Manager, and Regional Fire Management Duty Officer are notified at earliest convenience.
- ✓ Secure the area and manage access into and out of the Refuge.
- ✓ Protect or document point of origin, if possible.

During Incident:

- ✓ Refuge personnel need to be available for support to assist incoming resources with power supplies, location of hazardous materials, access/gates/locks, the identification of water sources and safety considerations, etc.
- ✓ Work with Sheriff to manage traffic and smoke management control.

After Incident:

- ✓ Request specialists to conduct damage assessment and burned area rehabilitation requirements (if needed).
- ✓ Work with Servicing Fire Management staff (Siuslaw Forest) to file fire report and map the fire.
- ✓ Work with Servicing Fire Management staff (Siuslaw Forest) to conduct fire review and/or after action review (AAR) with all responders and key management; revise or amend response procedures if warranted.

Overview

The Department of Interior (DOI) Fire Management Plan (FMP) Framework (2014) allows greater flexibility in fire management planning and addresses the wide range of complexity associated with individual units. This FMP Framework aligns with the U.S. Fish and Wildlife Service strategic planning efforts to allow plans to be both functionally effective and efficient. Therefore, this document known as a Wildfire Emergency Response Procedure (WERP) represents Bandon Marsh National Wildlife Refuge (NWR or Refuge), as well as the Coquille Point and Crook Point Units of the Oregon Islands NWR where wildfire occurrence is low and the response objective is solely protection based. All units, including Bandon Marsh NWR and two headland units of the Oregon Islands NWR, Coquille Point and Crook Point are a part of the Oregon Coast National Wildlife Refuge Complex.

Bandon Marsh NWR

Bandon Marsh NWR consists of the 307-acre Bandon Marsh Unit and the 582-acre Ni-les'tun Unit (Figure 1-2). The total approved refuge boundary includes 1,000 acres. The Bandon Marsh Unit was established in 1983 and is located near the mouth of the Coquille River with approximately 25% of the Unit within the city limits of Bandon. The Ni-les'tun Unit was established in 2000 and is located on the east side of Highway 101 on the north bank of the Coquille River. The primary purpose for establishing the Bandon Marsh Unit was to protect the physical and biological integrity of the tidal salt marsh, and to conserve the last substantial tract of salt marsh in the Coquille River estuary. The Ni-les'tun Unit was established to protect and restore intertidal marsh, freshwater marsh, and riparian areas to provide a diversity of habitats for migratory birds including waterfowl, shorebirds, wading birds and songbirds, and to restore intertidal marsh habitat for anadromous fish such as Chinook and chum salmon, steelhead, cutthroat trout, and the threatened coho salmon.

Coquille Point Unit of Oregon Islands NWR

The nineteen-acre Coquille Point Unit was the first mainland addition to Oregon Islands NWR. It was acquired in 1991-1992 and is located on the western edge of the City of Bandon. The intent of this mainland unit is to protect seabird nesting colonies on adjacent rocks, restore native habitat, and provide a highly visible public use area for environmental education and interpretation. Coquille Point is the only unit of the Oregon Islands NWR that is open to the public. Although Coquille Point has limited wildlife use, its primary values are providing a buffer zone between mainland development and the islands, and serving as an important interpretive site for Oregon Islands NWR. The adjacent rocks contain substantial and observable populations of seabirds that are easily viewable from the headland. Coquille Point Unit consists of a headland jutting toward the ocean and overlooking part of the Islands unit of Oregon Islands NWR. A beach stretches to the north and another to the south from the point. The bluff portion of the headland is covered with native and non-native vegetation. The northern portion of the unit is a low-lying stabilizing dune with invasive beachgrass and a mixture of native plants. There is a 1 acre emergent wetland between the north ends of the Coquille Point Unit, formed from groundwater seepage from the base of the bluff.

Crook Point Unit of Oregon Islands NWR

The Crook Point Unit was added in 1999 to "provide permanent protection to one of the few remaining undisturbed headlands on the Oregon coast, resulting in increased protection to major nearshore seabird breeding colonies and pinniped pupping and haul-out sites within the Oregon Islands NWR, unique geological formations, rare plants and cultural resource sites on the mainland, and a relatively undisturbed intertidal zone." The 134 acre unit is on the southern coast of Oregon approximately 12 miles south of Gold Beach. Crook Point contains one mile of pristine beach with interspersed rocky intertidal habitat, and it serves to protect major seabird colonies. Crook Point consists of a mosaic of habitats including grassland, meadows, coniferous forest, rock formations,

and barren ground. It is one of the windiest locations on the Pacific Coast. Geologic formations and the presence of numerous landslides indicate that the area is highly unstable, and much of the area is naturally devoid of vegetation. The extreme western tip of Crook Point consists of a rock outcrop that forms a large rock pinnacle. Numerous seeps and springs can be found throughout.

FMP Direction

This FMP is an operational plan that implements the direction found in the Comprehensive Conservation Plans (CCPs) for Bandon Marsh National Wildlife Refuge (2012) and the Oregon Islands NWR (2009). Overarching resource management strategies and objectives are delineated in each CCP and their corresponding Environmental Assessments.

Bandon Marsh Refuge management goals include:

- Restore, protect, and maintain upland forests characteristic of the North Pacific Coastal Ecosystem.
- Restore, protect, and maintain forested wetlands and stream-riparian habitat characteristic of the North Pacific Coastal Ecosystem.
- Enhance, protect, and maintain estuarine habitats characteristic of the North Pacific Coastal Ecosystem.
- Enhance, protect, and maintain instream aquatic habitat for all dependent species including anadromous fish.
- Research and monitoring. Gather scientific information (surveys, research, and assessments) to support adaptive management decisions.
- Provide and manage quality opportunities for visitors of all abilities to spend time outdoors observing and/or photographing freshwater wetland and estuary-dependent wildlife thus fostering an appreciation of and understanding for coastal wildlife and habitat.
- In cooperation with our friends and partners, offer scientifically based environmental education and place-based interpretation for all ages that advances a connection with and an appreciation of fish and wildlife that use tidal and freshwater marshes.
- Provide and manage safe, enjoyable, and high quality hunting and fishing opportunities for people of all ages that furthers the tradition of wildlife conservation and stewardship.
- Provide facilities and materials that welcome and orient children and adults to the natural wonders of the fish and wildlife that use tidal and freshwater marshes, Sitka spruce forest, and riparian habitats.

Oregon Islands Refuge goals that pertain to the Coquille Point and Crook Point Units include:

- Preserve and protect all rocks, reefs, and islands within Oregon Islands and Three Arch Rocks NWRs for the benefit of seabirds, shorebirds, waterfowl, other migratory birds, pinnipeds, and native plants.
- Maintain and protect native coastal habitats within the Crook Point Unit of Oregon Islands NWR for the benefit of rare plants, migratory birds, and other native wildlife.
- Protect rocks and islands within Oregon Islands NWR by maintaining a mainland buffer zone at Coquille Point Unit for the benefit of seabirds, shorebirds, waterfowl, other migratory birds, pinnipeds, and native plants.

- Collect scientific information (inventories, monitoring, feasibility studies, assessments, and research) to support adaptive management decisions (Goals 1–3) on Oregon Islands and Three Arch Rocks NWRs.
- Promote protection, stewardship and enjoyment of Oregon's seabirds and pinnipeds and their wilderness habitats by providing opportunities for wildlife observation, photography, interpretation, and environmental education on appropriate mainland areas of the Oregon Islands NWR.
- Preserve and protect the wilderness character of Oregon Islands Wilderness and Three Arch Rocks Wilderness including their untrammeled nature, naturalness, and undeveloped condition.
- Promote conservation of cultural resources on refuge lands through effective coordination and cooperation with Tribes having adjoining ownership or management responsibilities.

Fire Response

The Refuge Complex has entered into a Memorandum of Understanding (MOU) and Service First Agreement with the U.S. Forest Service, Siuslaw National Forest (Forest), which state that the Forest will designate a delegated Fire Duty Officer who is responsible for fire related activities on the Oregon Coast National Wildlife Refuge Complex. The Servicing Duty Officer, otherwise referred to as the Fire Management Officer (FMO) will be the point of contact for wildland fire management between the FWS Pacific Region Branch of Fire Management and the Oregon Coast NWRC Project Leader, and ensure resources are available to provide for wildland fire prevention, detection, initial attack response, severity requests through FWS Regional Office, and incident management for all wildland fires that occur on the Refuge Complex. In the event of a wildfire, the Forest will provide coordination for initial attack and extended response for fires, including oversight and supervision for interagency personnel and resources. Dispatch support will be provided by the Forest through its existing organization structure with the Eugene Interagency Communication Center. A MOU with Bandon Rural Fire District will be updated to provide additional support.

Initial attack fire response for the Crook Point Unit of the Oregon Islands NWR will also be coordinated by the Complex's Servicing FMO. It is expected that most fires would be reported through 911 to the Pistol River Rural Fire Protection District (where a suppression MOU exists). Once notification to the FWS FMO occurs, he or she will contact both the U.S. Forest Service (USFS) Gold Beach Ranger District FMO/Fire Duty Officer, and the Bureau of Land Management (BLM) Coos Bay District FMO/Fire Duty Officer. Both the USFS and the BLM will respond with available resources as needed per request from the Complex's Servicing FMO (Siuslaw National Forest). All resource orders and requests should be tracked through ROSS. Direct communication with situation updates will be provided to the Oregon Coast NWRC Project Leader, from the FWS Servicing FMO. Annual communication between the Complex's Servicing FMO, Gold Beach FMO, and the Coos Bay FMO should occur to ensure correct contact information and fire suppression response procedures.

This plan shall be reviewed and updated annually.

Wildfire Incident Objectives

- Protect life and property with an emphasis on employee and public safety.
- Contain wildfires at smallest size consistent with firefighter and public safety.
- Protect critical resources from fire and suppression damage. Critical resources on Bandon Marsh NWR include:
  - Important archaeological resources such as the Osprey Weir site on Ni-les'tun Unit;
  - Smith Tract Fahys Creek riparian habitat and stream; and
  - 20 acre Upper Field/Forest north of Office.
- Utilize existing roads and natural barriers as control lines where practical.
- Ensure responding resources understand safety considerations and fire suppression expectations.
- Protect infrastructure which includes
  - An office, bunkhouse, maintenance shop, RV volunteer facilities and equipment storage building on the Bandon Marsh NWR;
  - A privately-owned Bed and Breakfast motel and private residence located within the approved Refuge boundary on Coquille Point Unit; and
  - Residence and outbuildings leased by Doyle family on the Crook Point Unit.

Safety Considerations

Primary safety considerations include employee accountability/evacuation and protection of onsite hazardous materials and sensitive facilities. The access and egress to the main facility is one way in/out and may be compromised. The following conditions help mitigate safety concerns:

- On site safety zones, where there is no burnable vegetation, should be identified and communicated to employees.
- Natural features that may pose a safety concern should be identified and communicated to local responders.
- Hazardous materials stored onsite should be properly signed and communicated to local responders (see map attached).
- Annual pre-season safety reviews should be conducted with all Refuge personnel to ensure emergency protocols are understood.
- Evaluation of hazard fuel accumulations and maintenance of adequate defensible space around facilities will assist with employee and public safety.

Operational Constraints and Requirements

The following operational constraints are required for the protection of sensitive resources:

- Mechanical control of fire will be allowed only along Refuge boundaries and on established roadways, unless otherwise specified by the Agency Administrator or Incident Commander. Mechanical control is defined as construction of a fire line using a bulldozer or other heavy equipment.
- No vehicular traffic or mechanical equipment is permitted in Refuge tidal marshes, freshwater marshes, riparian areas, or mudflats
- Manual control of fire is allowed in all Refuge areas, and will be accomplished with methods such as standard hand tools (shovel, flapper, Pulaski, etc.), backpack water sprayers, engine hose lays, and chainsaws.

- Aerial suppression efforts by helicopters and/or fixed wing aircraft may be utilized on the Refuges. Water drops will be allowed in all Refuge areas.
- In sensitive areas such as wetland and riparian habitats, fire chemicals will be cautiously and conservatively used to protect structures and to reinforce fire lines within 20 feet from road edges. Fire-trol® retardant will not be used on Refuge lands due to its cyanide component and toxicity to aquatic organisms. Silv-ex® and Phos-chek® wildland fire foams will not be used on Refuge lands, since they are more toxic to aquatic organisms than other types of fire foams. Other foam suppressant chemicals may be used judiciously on refuge lands. Retardant use is prohibited within 300 feet of any water resource.
- Unburned snags will not be felled along fire lines, except where necessary to protect human life and property. When possible, the use of water and/or fire chemicals should be used to protect snags from burning.
- In addition, the following tactics will also reduce impacts to wetland and riparian areas:
    - To minimize disturbance, sedimentation, turbidity, and actions that will result in increased water temperature, stream courses will not be utilized as transportation corridors for suppression activities.
    - Fireline and mop-up through riparian areas should consider long-term damage to vegetation.
    - Back-fires and burn-out operations should consider head fire intensities and attempt to avoid damaging the soil or running fire into riparian areas.
    - The use of chemical retardant and foam will be prohibited, unless human safety and structures are at risk. When chemicals must be used as a last resort, their use will be avoided where there is potential for contamination of waterways.
    - Prevent oil and fuel contamination by using spill pads and/or containment units.
- Since it is a management objective to allow natural wetland processes to continue unaltered by human activities, mechanical control of fire on the Bandon Marsh Unit should utilize existing roads and natural barriers wherever possible.
- On the Ni-les'tun Unit of Bandon Marsh NWR, vehicular access to control the spread of fire will be allowed as necessary on the trails and roads around residences and structures north of North Bank Lane, and on the interior trail running north-south through the restored tidal wetlands.
- The mature laurel groves located within the upland forest/grassland area north of the Bandon Marsh Refuge residence and shop should be considered sensitive resources. When possible, the use of water and/or fire chemicals should be used to protect the Upper Field/Forest area north of the office from burning.
- No mechanical control (fireline construction by bulldozer) is permitted on the Ni-les'tun Unit due to cultural resource concerns.
- No vehicular traffic or mechanical equipment is permitted within the marsh areas of the Ni- les'tun Unit, outside of the interior road (trail). Control efforts within the marsh areas or the lowland pastures will be by manual methods such as standard hand tools (shovel, flapper, pulaski etc.) and backpack water sprayers, or by aerial water control. Retardant use is prohibited within 300 feet of any water source, including Fahys Creek, as well as the marsh areas. There are no restrictions on salt water vs. fresh water drops. Crook Point Unit: Mechanical ground disturbance, including construction of dozer line, will be allowed only at refuge boundaries and on the road leading northwest toward the point.

The following operational constraints are required for the protection of cultural resources:

- Minimum impact fire suppression tactics will be used to the fullest extent possible.
- Resource Advisors will inform fire suppression personnel of any areas with cultural resources. The Resource Advisor should contact the Regional Archaeologist for more detailed information.
- Foam use will be minimized in areas known to harbor surface artifacts.
- Mechanized equipment should not be used in areas of known cultural significance.
- The location of any "new" sites discovered as the result of fire management activities will be reported to the Regional Archaeologist.
- Rehabilitation plans will address cultural resources impacts and will be submitted to the Regional Archaeologist using the "Request for Cultural Resource Compliance."
- For wildfires occurring on or near the Ni-les'tun Unit of Bandon Marsh NWR, the Coquille Cultural Program will be notified concurrent with the Regional Archaeologist. This unit contains two sites on the National Register of Historic Places, but other known important cultural resource sites to the Coquille Indian Tribe are scattered throughout the area.
- Mechanical control with bulldozers is not allowed on any part of the Coquille Point Unit due to the presence of archaeological sites. Hand crews, off-road driving, hoselays, and use of aircraft (water drops only) are permitted in all areas of the unit and may be approved by the Incident Commander.
- No vehicular traffic of any kind is permitted on highly eroded and un-vegetated areas of Crook Point Unit due to the presence of extensive cultural resources on the ground surface.

The following operational constraints are required for the protection of other sensitive infrastructure resources:

- A boardwalk / viewing deck is located along Riverside Drive of the Bandon Marsh Unit, and there are several scattered residences on the opposite side of Riverside Drive.
- The boundaries of the Ni-les'tun Unit are adjacent to privately owned forested land and there is high potential for a fire to spread rapidly off refuge and threaten privately owned structures, so these areas should receive special protection. There is a Refuge office with garage, bunkhouse with garage, and an equipment storage building just north of North Bank Lane, a viewing deck just south of North Bank Lane, and maintenance shop and volunteer RV facilities on the Smith Tract, which are considered sensitive resources. The Refuge structures are critical to the Refuge mission in terms of facility, equipment and material support.

Table 1. Fire Management Plan wildland fire suppression guidelines.

Wildland Fire Suppression Guidelines					
NOTE: If human life and/or property is threatened, the Incident Commander has the authority to order any suppression strategy or tactic at his/her disposal to mitigate the threat, regardless of FMU.					
	FIRE MANAGEMENT UNITS				
	BANDON MARSH	**NI-LES'TUN LOWLANDS**	**NI-LES'TUN UPLANDS**	**COQUILLE POINT**	**CROOK POINT**
Fire Management Unit Description	Intertidal estuarine wetlands, tidal mudflats, immature high marsh.	Restored tidal wetlands, and forested wetlands south of North Bank Lane.	Upland pasture and forest; forested wetlands, abandoned cranberry bogs, refuge-owned structures.	Coquille Point Headland Unit adjacent to the City of Bandon.	Crook Point Headland Unit south of Gold Beach.
Special Considerations	Sensitive marsh/mudflat substrate. Boardwalk & viewing deck on Riverside Drive. Private residences east of Riverside Drive.	Significant cultural resources present. Threatened coho salmon throughout the unit. Viewing deck just off North Bank Lane. Privately owned RV park at west edge of unit.	Structures: refuge office, bunkhouse, maintenance shop, viewing deck on main tract; RV faciltiies; and shop on Smith tract. Upper Field/Forest Area. Potential for buried cultural resources. Adjacent privately owned forestland.	Heavy residential development adjacent to refuge lands.	Cultural resources present; adjacent private residences and forested lands.
Preferred Suppression Strategies	Aggressively suppress the fire, holding it to the fewest burned acres as possible within safety constraints.				
Tactics	**Must be approved by:**				
Handline/Chainsaws	Incident Commander	Incident Commander	Resource Advisor	Incident Commander	Prohibited on un-vegetated areas; Incident Commander approval otherwise.
Dozer Line	Agency Administrator	Agency Administrator	Agency Administrator	Agency Administrator	Agency Administrator
Foam/Retardant	Prohibited	Resource Advisor	Resource Advisor	Retardant prohibited; Incident Commander approval for foam.	Retardant prohibited; Resource Advisor approval for foam >20 feet from roads.
Water drops	Incident Commander	Incident Commander	Incident Commander	Incident Commander	Incident Commander
Off-Road Travel	Prohibited	Prohibited	Resource Advisor	Incident Commander	Prohibited on un-vegetated areas; Incident Commander approval otherwise.
Safety Considerations	Very soft, wet substrate	Highway 101 immediately to the west (smoke)			

Notification List (Emergency Always Call 911)

Contact Name	Contact Position	Office / Cell Phone
Eugene Interagency Communication Center	Dispatch	541-225-6400/911
Dan Eddy	**Interagency FMO for the Oregon Coast NWRC; and the Siuslaw Fire Duty Officer**	**541-750-7026 work** (b)(6)
Bandon Rural Fire Department Bandon Police Department	555 Highway 101, P.O. Box 67 Bandon, OR 97411	**Emergency: 911** Phone: 541-347-2231
Pistol River Rural Fire District	24686 Pistol River Loop, Gold Beach, OR 97444	**Emergency: 911** Phone: 541-247-6765
Coos Bay District Bureau of Land Management	1300 Airport Ln, North Bend, OR 97459	541-756-0100 work
Gold Beach Ranger District U.S. Forest Service	29279 Ellensburg Ave, Gold Beach, OR 97444	541-247-3600 work
Nikia Hernandez	Siuslaw Fire Duty Officer (backup)	541-563-8440 work (b)(6)
Kelly Moroney	Oregon Coast NWRC Project Leader	541-867-4550 work (b)(6)
Rebecca Chuck	Oregon Coast NWRC Deputy Project Leader	541-867-4550 work (b)(6)
Scott Neumann	Oregon Coast NWRC Maintenance Federal Wildlife Officer	541-867-4550 office (b)(6)
Josh O'Connor	Regional Fire Duty Officer	503-872-2756 work (b)(6)
Brian Gales	Regional Fire Duty Officer (backup)	503-231-6769 office (b)(6)
Shawn Stephensen	Oregon Coast NWRC Fish and Wildlife Biologist	541-867-4550 office (b)(6)
Pam Johnson	Oregon Coast NWRC Administrative Officer	541-867-4550 office (b)(6)
Eric Mruz	Oregon Coast NWRC Refuge Manager, South Coast Refuges	541-347-1470 office (b)(6)
Dawn Harris	Oregon Coast NWRC Visitor Service Manager	541-867-4550 office (b)(6)

Response Organization & Roles

The Project Leader is responsible for planning and implementing the fire management program on the Refuge. Per the MOU and Service First Agreement with the Siuslaw National Forest, the Servicing Fire Duty Officer, otherwise referred to as the Fire Management Officer (FMO) for the Oregon Coast Complex is responsible for fire management program oversight. If necessary, the Project Leader will assign fire management responsibilities as collateral duties to staff who possess appropriate training, experience, and incident qualifications. Pre-suppression planning and work is accomplished by Refuge staff in accordance with national and regional fire management direction under guidance from the Servicing Fire Duty Officer. Emergency fire management actions will be handled by Refuge staff according to training and incident qualifications. The Servicing Fire Duty Officer will be immediately notified of all emergency actions.

Siuslaw National Forest would have initial attack responsibility for lands within the Oregon Coast NWRC. The Refuges will enter into a formal Memorandum of Understanding (MOU) with Bandon Rural Fire Department, as well at Coos Bay Fire and Rescue (near the Crook Point Unit), for additional support as needed. It is expected that most fires near the Crook Point Unit would be reported through 911 to the Pistol River Rural Fire Protection District (where a suppression MOU exists). Once notification to the FWS FMO occurs, he or she will contact both the Gold Beach Ranger District FMO/Fire Duty Officer, and the Coos Bay BLM FMO/Fire Duty Officer. Both the U.S. Forest Service and the Bureau of Land Management will respond with available resources as needed per request from the Complex's Servicing FMO (Siuslaw National Forest). Annual communication between the Complex's Servicing FMO, Gold Beach FMO, and the Coos Bay FMO should occur to ensure correct contact information and fire suppression response procedures.

Project Leader Responsibilities

Wildfire Preparedness

- Annually review and update this plan with your Servicing Fire Duty Officer (Siuslaw Forest).
- Brief your staff on what to do if you have a wildland fire on Refuge- managed lands.

Wildfire Response

- Call 911 when fire is detected.
- Make sure all employees are accounted for on the Refuge.
- Contact Eugene Interagency Communication Center.
- Serve as an initial liaison/point of contact for suppression response resources.

Servicing Fire Duty Officer (Siuslaw Forest) Responsibilities

Wildfire Preparedness

- Contact Project Leader to coordinate annual update of this plan.
- Maintain and update agreements with Eugene Interagency Communication Center.
- Manage and maintain appropriate fire response MOUs, such as Bandon Rural Fire Department.
- Consider and request severity resources to the FWS Regional Office, as appropriate.
- Provide opportunities for wildland fire training; including annual fire and chainsaw refresher for 2-3 FWS employees identified in the fire management zone.

Wildfire Response

- Upon notification of a fire at the Refuge, coordinate delegations of authority with appropriate agencies.

- Provide coordination for initial attack and extended response for fires including oversight and supervision for interagency personnel and resources.
- Provide for on-site fire management by coordinating with cooperators to provide support to the Refuge Project Leader.
- Comply with Interagency Standards for Fire and Fire Aviation (Red Book) and FWS Fire Management Handbook when engaged in fire management activities on FWS lands.
- Initiate and coordinate fire investigations.
- Inform the FWS Regional Office Duty Officer.
- Initiate cost share agreements as appropriate.

Post Wildfire

- Coordinate Burned Area Rehabilitation and Emergency Stabilization planning with RO
- Provide coordination for payment of fire response resources
- Complete fire report in FMIS

Appendices

Appendix A: Maps

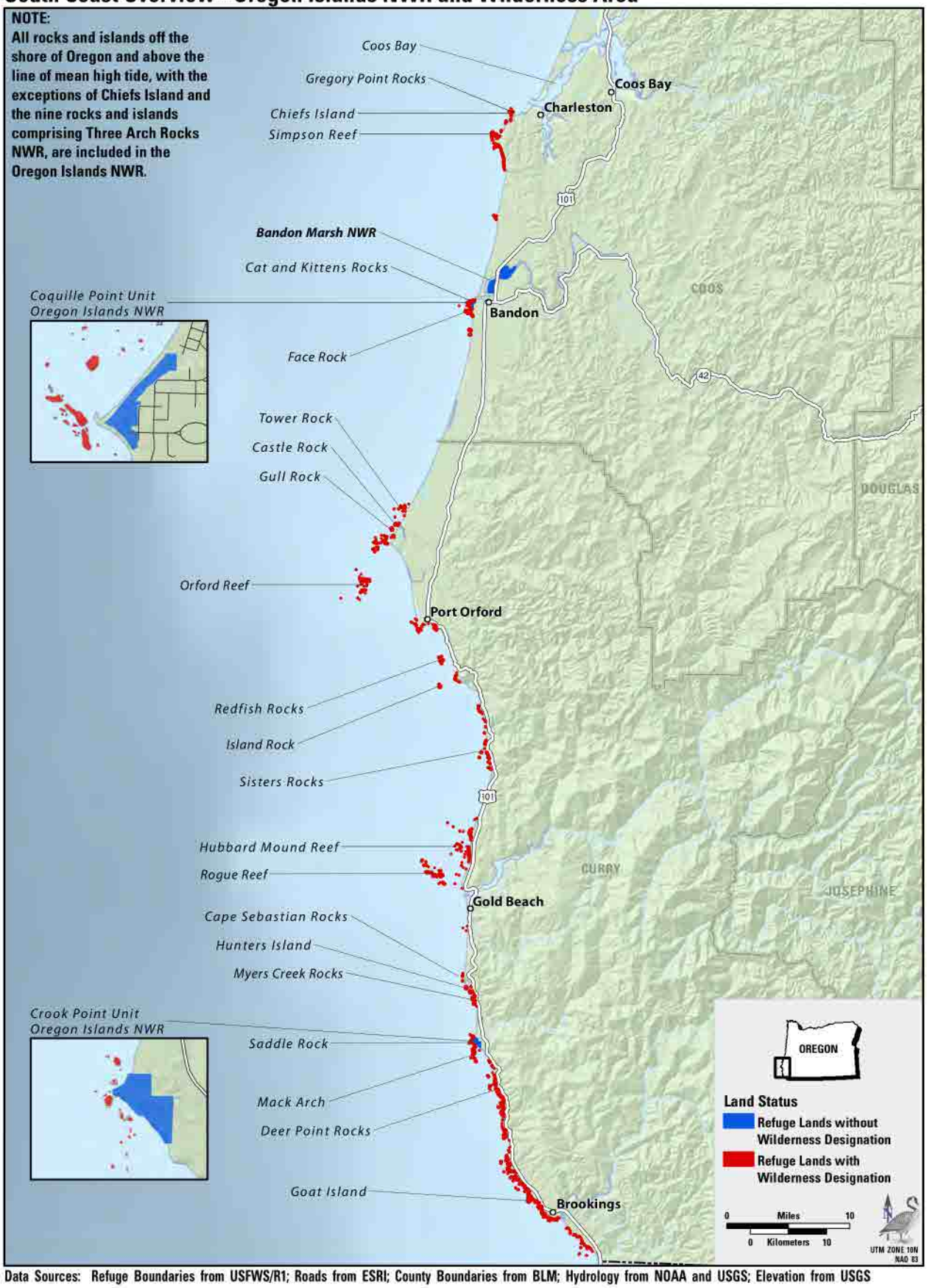
Appendix B: Service First Agreement

Appendix C: Memorandums of Agreement

Appendices

Appendix A: Maps

South Coast Overview - Oregon Islands NWR and Wilderness Area

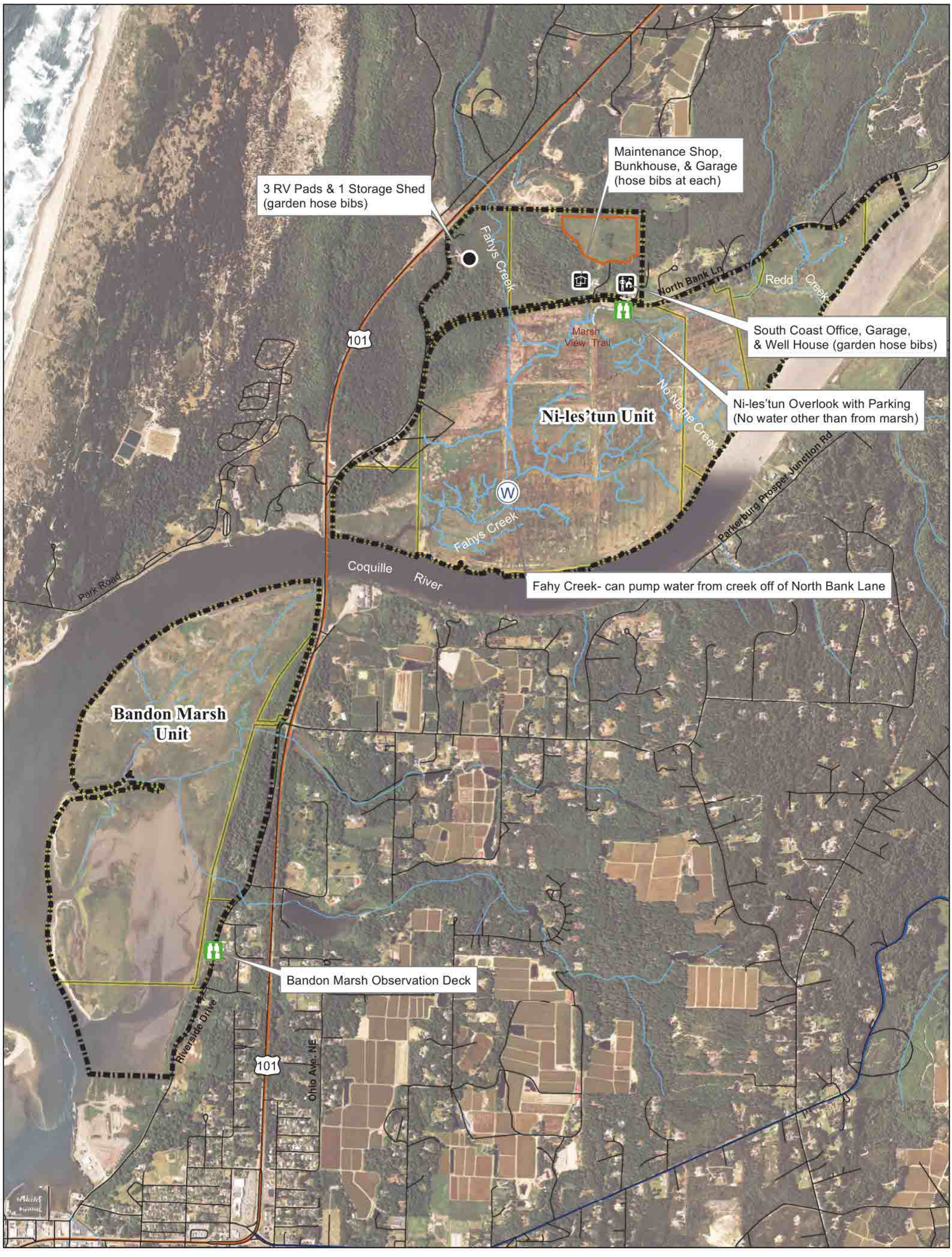


Data Sources: Refuge Boundaries from USFWS/R1; Roads from ESRI; County Boundaries from BLM; Hydrology from NOAA and USGS; Elevation from USGS

U.S. Fish & Wildlife Service

Bandon Marsh National Wildlife Refuge

Wildfire Emergency Fire Response Map



Refuge Managed Lands | Approved Boundary | Rt# 902, Office Parking | Other Refuge Assets | Trails

South Coast Office Complex | Bunkhouse and Equipment Shop | Observation Deck/ Overlooks and Parking | Fuelbreak

0 0.125 0.25 0.5 0.75 1 Miles

PRODUCED IN THE DIVISION OF FIRE MANAGEMENT
PORTLAND, OREGON
MAP DATE: 07/20/2017
BandonMarshNWR_FireResponseMap_2017.MXD

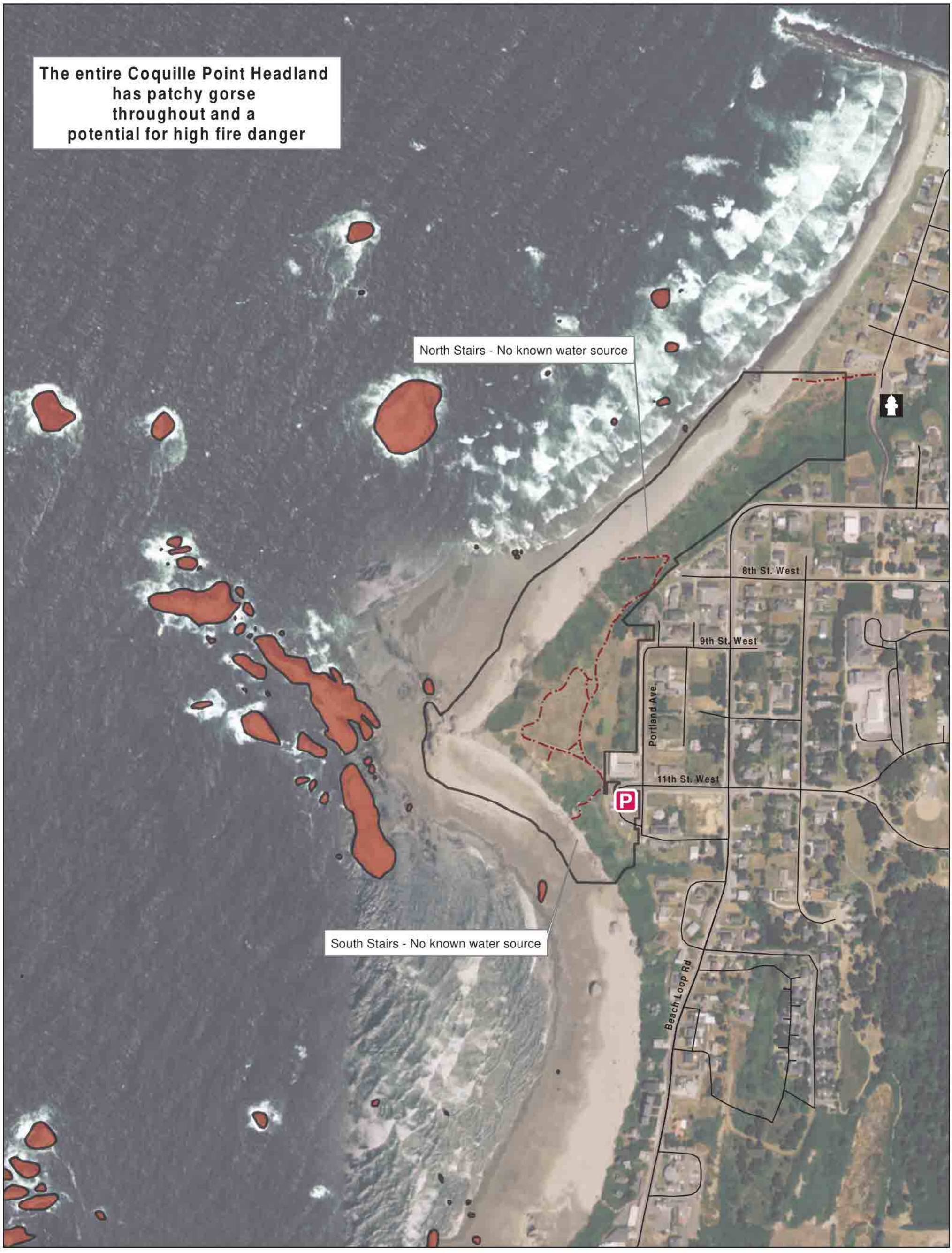
UTM ZONE 10
NAD 83

U.S. Fish & Wildlife Service

Oregon Islands National Wildlife Refuge

Coquille Point Unit

Wildfire Emergency Fire Response Map



PRODUCED IN THE DIVISION OF FIRE MANAGEMENT
PORTLAND, OREGON
MAP DATE: 07/20/2017
BandonMarshNWR_FireResponseMap_2017.MXD

0 625 1,250 1,875 2,500 Feet

UTM ZONE 10
NAD 83

U.S. Fish & Wildlife Service

Oregon Islands National Wildlife Refuge

Crook Point Unit

Wildfire Emergency Response Plan

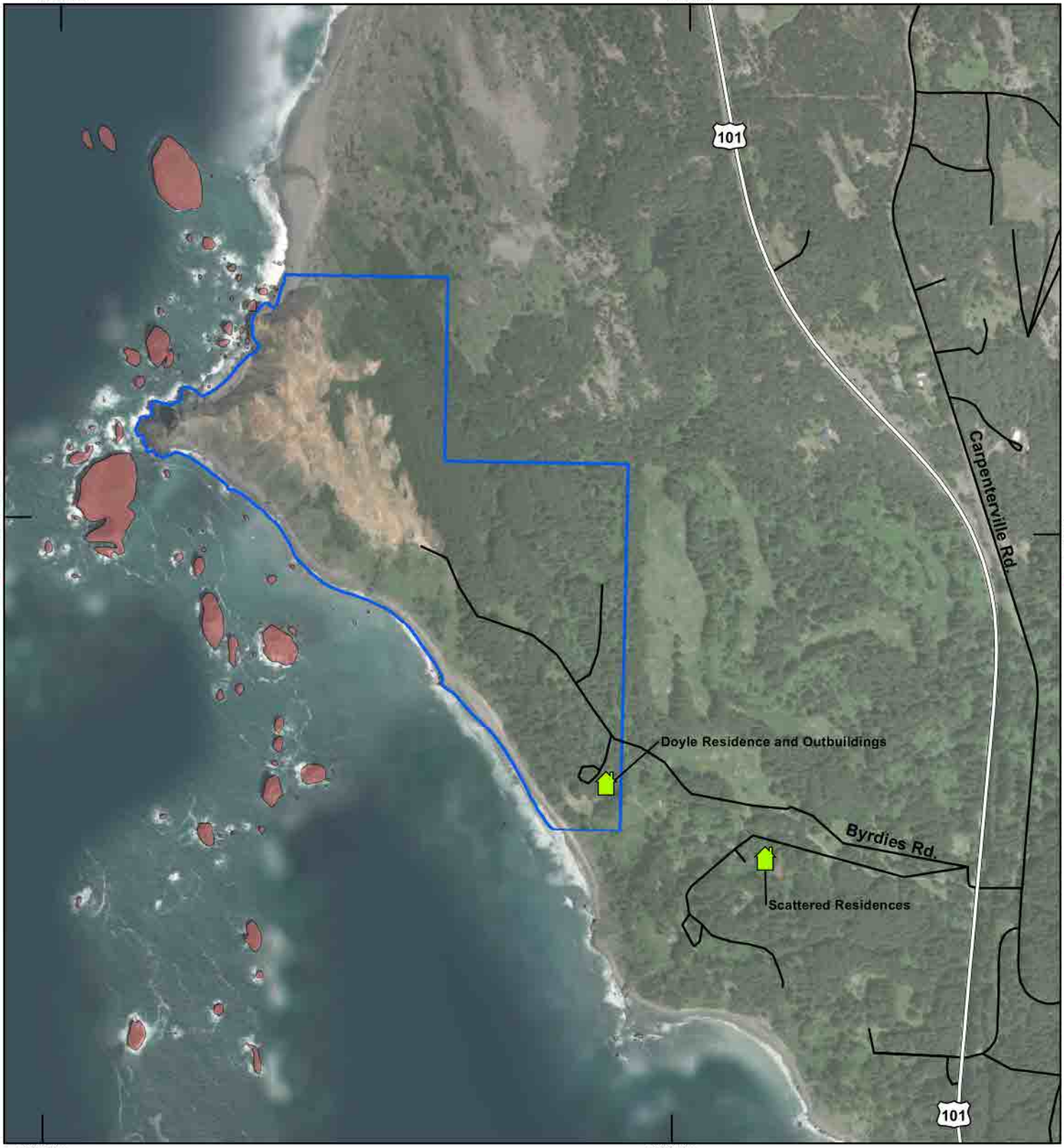
R 15 W

124°25'0"W

124°24'0"W

42°15'0"N

T 28 S



Crook Point Unit

Oregon Islands- Wilderness

0 475 950 1,900 Feet

UTM ZONE 10N
NAD 83

Produced by Fire Management
Portland, Oregon
Map Date: 02/22/2018
File: ORBDM_SFMP_WERP_CrookPoint.mxd

Appendices

Appendix B: Service First Agreement

5/01/2017

INTERAGENCY FIRE MANAGEMENT
SERVICE FIRST PROJECT OPERATING PLAN
Between
U.S. FISH AND WILDLIFE SERVICE, OREGON COAST NATIONAL WILDLIFE REFUGE COMPLEX
And the
U.S. FOREST SERVICE, SIUSLAW NATIONAL FOREST

A. INTRODUCTION

Federal land management agencies have an obligation to provide wildland fire planning and response for their jurisdictional lands. The U.S Fish and Wildlife Service Pacific Region (FWS) and U.S. Forest Service, Siuslaw National Forest (FS) have identified an opportunity to share fire management resources to meet the need of both agencies most effectively.

B. PURPOSE

The purpose of this Project Operating Plan is to outline a cooperative fire management relationship which intends to provide fire management leadership, incident supervision, fire training, fire management planning and fire business support to FWS and FS administrative units in western Oregon. This relationship will provide for the exchange of resources and funds in support of fire suppression, pre-suppression, severity, fire training certification activities and potential vegetation projects thereby increasing efficiencies and safety on lands managed by the U.S. Forest Service and the U.S. Fish and Wildlife Service. Sections "E" and "F' describe the mechanics of this Service First Project Plan.

This plan will outline fire management responsibilities of the U.S. Fish and Wildlife Service and U.S. Forest Service for managing wildland fire and implementing small scale vegetation projects on FWS managed lands within the scope of this plan.

C. AUTHORITY

The Service First Project Operating Plan was developed to meet the intent of the following Agreement and Memorandum of Understanding:

1. Master Interagency Agreement on General Terms and Conditions for Implementing Service First Interagency Funding Agreements (2012)
   U.S. Fish and Wildlife Service Agreement # - F12PG00000
   U.S. Forest Service Agreement # - 12-IA-11132400-094

2. Memorandum Of Understanding on implementing the Service First Authority
   U.S. Fish & Wildlife Service: 98210-6-N035
   U.S. Forest Service: 13-MU-11132420-337

D. SCOPE OF THIS PLAN

The following U.S. Fish and Wildlife Service managed Units are subject to this agreement:

The Oregon Coast National Wildlife Refuge Complex is comprised of six National Wildlife Refuges and 3 Satellite Units.

Refuges include:

1. Oregon Islands (non-burnable) Three Arch Rocks (non-burnable)
2. Cape Meares (0 fires last 10 years)
3. Nestucca Bay
4. Siletz Bay (0 fires last 10 years)
5. Bandon Marsh

Satellite Units of Oregon Island include:

1. Crook Point (134 ac.) 10 miles south of Gold Beach (vegetation work only)
2. Coquille Point (22 ac.) located in the City of Bandon
3. Whale Cove (14 ac.) 2 miles south of Depoe Bay

E. RESPONSIBLITIES – FWS PACIFIC REGION

1. Coordinate information on the plan with the Siuslaw National Forest.

2. Coordinate with and provide the FS with information on FWS and fire management policy.

3. Transfer funds associated to the Service First Agreement as indicated in section "H" financial plan.

4. Identify vegetation treatment projects and preparation for project implementation on FWS managed lands.

5. Serve as a coordinator resolving issues, updating the terms of this Project Plan, maintain official records and interaction between Agency Administrators for FS and FWS.

6. In the rare event of an extended attack incident on Refuge lands, FWS will work with the FS to complete WFDSS entry. FWS will be responsible for WFDSS decision; real time support from FS for the ongoing incident will be provided to formulate decision.

F. RESPONSIBILITIES – SIUSLAW NATIONAL FOREST

Wildland Fire Pre-suppression and Suppression

1. Designate a delegated Fire Duty Officer who is responsible for fire related activities (see bullets below) on FWS managed lands within the scope of this agreement.

2. Serve as the Point of Contact for wildland fire between the FWS Pacific Region Branch of Fire Management and the Oregon Coast NWRC Project Leader. In coordination with the Pacific Regional Office, the Siuslaw NF fire program is the subject matter expert for fire management in support of FWS lands within the Zone.

3. As wildland fire conditions dictate; ensure resources are available to provide wildland fire prevention, detection, initial attack response, severity requests through FWS regional office and incident management for all wildland fires on FWS managed lands.

4. In the event of a wildfire, provide coordination for initial attack and extended response for fires including oversight and supervision for interagency personnel and resources. Utilize FMP for appropriate response.

5. Comply with Interagency Standards for Fire and Fire Aviation (Red Book) and FWS Fire Management Handbook when engaged in fire management activities on FWS lands.

6. Provide opportunities for wildland fire training; including annual fire and chainsaw refresher for 2-3 FWS employees identified in the zone.

7. Through coordination with Oregon Coast NWRC Project Leader, update or establish fire suppression MOU's with neighboring Rural Fire Districts (Lincoln City, Nestucca RFD and Bandon Fire). FWS will provide expired agreement in new template. FS will coordinate signature process, FWS is responsible signatory party.

8. Annually review Fire Management Plans (Bandon Marsh, Siletz Bay and Nestucca Bay NWR's) with Oregon Coast NWRC Project Leader and provide annual update form to the Pacific Region Branch of Fire Management.

9. Interagency FMO or acting will participate on monthly one hour FWS FMO calls.

10. Identify and manage necessary wildland fire dispatch support for the units within this plan. Dispatch support for suppression and prescribed fire activities will be provide by Siuslaw National Forest through its existing organization structure with Eugene Interagency Communication Center.

11. Specific tasks are identified in Appendix A (Workload Estimate Table).

Habitat Management (may include cutting, piling and burning)

1. Provide personnel, equipment, and supplies to implement at the direction of the Oregon Coast NWRC Project Leader one vegetation treatment per year. Annually plan and implement .5 to 10 acres of prescribed burning (local thinning project option if prescribed fire windows do not occur) at Nestucca Bay NWR as conditions allow (2 work days for 3-4 persons, preferably prior to burn ban beginning on or near July 4). Unit site prep (mow lines) will be accomplished by FWS staff. Burn plan for project area is complete, however the burn plan will require annual review and update.

G. EXCHANGE OF OTHER RESOURCES

The parties agree to exchange services and other resources involving both planning and implementation of RX fire, vegetation management and other associated projects. These exchanges of resources will occur based on opportunities/availability to provide services of equal or near equal financial value which promote efficiencies in managing the public lands. Any further exchange of "other resources" beyond what is identified in this Project Operating Plan will be negotiated between the Agency Administrators. Additional vegetation work will be funded through 126x monies outlined in item H "Financial Plan" and not an annual requirement of the FS.

H. FINANCIAL PLAN

It is estimated based on the Workload Estimate Table (Appendix A) and responsibilities in section "F" the following funding will be provided to the FS to implement this Project Plan:

Process	Amount
Annually obligate to the FS (Siuslaw N.F.) through an Interagency Agreement from the U.S. Fish and Wildlife Service Pacific Region Branch of Fire Management FF01R03000 FFF1000001BASE0 17X	$12,000/year
5 year period of performance	$60,000
Oregon Coast NWRC 126X vegetative treatment (reference exchange of other resources).	TBD as necessary
Total Fund Obligation	**$60,000**

Funds will be made available to the FS through an Interagency Agency Agreement prior to February 1st annually (with consideration to congressional appropriations).

Funding to meet the responsibilities is considered an annual fixed cost to the FWS.

I. DURATION AND PROCESS TO TERMINATE THIS PROJECT PLAN

This Project Plan will remain effective for five years from the approval dates in section "K". If the terms on this Service First Project Plan become unacceptable to either party they may terminate this Plan with a 30 day written notice.

J. PRINCIPAL CONTACTS

Principal contacts are responsible for implementation of this plan and annual review of effectiveness. Principal contacts are responsible to the agency administrators approving this plan.

BRIAN GALES Digitally signed by BRIAN GALES Date: 2017.05.01 11:52:21 -07'00'

Brian Gales Date
Pacific Region Deputy RFMC
U.S. Fish and Wildlife, Pacific Region

Daniel C. Eddy 5-3-2017

Dan Eddy Date
Forest Fire Staff Officer
U.S. Forest Service, Siuslaw National Forest

K. SERVICE FIRST PROJECT OPERATING PLAN – AGENCY ADMINISTRATOR APPROVAL

The U.S. Fish and Wildlife Service, Oregon Coast National Wildlife Refuge Complex and U.S. Forest Service, Siuslaw National Forest agrees to support the responsibilities of both parties listed in this Project Operating Plan. This plan is valid for five years from the signature date, but will be reviewed and validated by the "principal contacts" before January 30th annually.

5-16-17

Kelly Moroney Date
Project Leader
U.S. Fish and Wildlife, Oregon Coast NWRC

5/03/17

Jeremiah Ingersoll Date
Forest Supervisor
U.S. Forest Service, Siuslaw National Forest

5/01/2017

APPENDIX A – Workload Estimate Table

Tasks	**Estimated time commitment (Days)**	**Notes**
FMO Conference Calls	1.5	Monthly
WCT and Annual Refresher Training	1	Estimated 2-3 FWS staff annually
Facilitate access to basic fire training	.5	Estimated 1 FWS staff annually
Annual review Local Fire MOU's	2	Estimated 3 MOU's annually
Annual update of FMP's	2	Estimated 3 FMP's annually
Project planning support (vegetation treatments)	2	Estimated 1 project annually (1 prescribed burn plan)
Project Implementation	2 (3 individuals) =6	Estimated 1 project annually with 3 crewmembers
Project Leader Interaction (annual Refuge site visits)	2	Estimated 2 visits annually
Dispatch center coordination	.5	Minimal communication. Rx ops and preparedness simulations
Reporting – FMIS, NFPORS	.5	Estimated 2 reports annually
Total Days Annually	**18**	

Wildfire Response Plan

Unit Name: Cape Meares National Wildlife Refuge of the Oregon Coast National Wildlife Refuge Complex.

Effective Date: 03/01/2018

Prepared by: Molly Cox; Fire Planner; USFWS Pacific Region

Reviewed By: Daniel C Eddy **/s/ Daniel Eddy** **Date** 3/5/2018
Zone Fire Management Duty Officer; Oregon Coast National Wildlife Refuge Complex

Reviewed By: _____**/s/ Brian Gales** **Date**_____
Regional Fire Management Coordinator; USFWS Pacific Region

Approved by: _____**/s/ Kelly Moroney** **Date**_____
Project Leader; Oregon Coast National Wildlife Refuge Complex

Annual Review History:

Review Date	Reviewers

Wildfire Response Procedure

Upon Fire Report

- ✓ Document and report accurate location of fire to dispatch - call 911.
- ✓ "Is everyone safe?" Take a headcount of all personnel on site, including family members, and the public.
- ✓ Call Eugene Interagency Communication Center (541.225.6400) and request the Siuslaw National Forest Duty Officer. "This is _____ at Cape Meares National Wildlife Refuge. We have a wildfire located at _____. I have requested resources through 911 but need to contact the interagency Duty Officer. Can you please contact them and have them call me back at _____."
- ✓ Ensure that the Project Leader, Refuge Manager, and the Regional Fire Management Duty Officer are notified at earliest convenience.
- ✓ Secure the area and manage access into and out of the Refuge.
- ✓ Protect or document point of origin, if possible.

During Incident:

- ✓ Refuge personnel need to be available for support to assist incoming resources with power supplies, location of hazardous materials, access/gates/locks, the identification of water sources and safety considerations, etc.
- ✓ Work with Sheriff to manage traffic and smoke management control.

After Incident:

- ✓ Request specialists to conduct damage assessment and burned area rehabilitation requirements (if needed).
- ✓ Work with Servicing Fire Management staff (Siuslaw Forest) to file fire report and map the fire.
- ✓ Work with Servicing Fire Management staff (Siuslaw Forest) to conduct fire review and/or after action review (AAR) with all responders and key management; revise or amend response procedures if warranted.

Overview

The Department of Interior (DOI) Fire Management Plan (FMP) Framework (2014) allows greater flexibility in fire management planning and addresses the wide range of complexity associated with individual units. This FMP Framework aligns with the U.S. Fish and Wildlife Service strategic planning efforts to allow plans to be both functionally effective and efficient. Therefore, this document known as a Wildfire Emergency Response Procedure (WERP) represents Cape Meares National Wildlife Refuge (Refuge), where wildfire occurrence is low and the response objective is solely protection based.

Cape Meares NWR is located on Oregon's Pacific Coast between Tillamook Bay and Netarts Bay, approximately 1.75 miles north of Oceanside and 6 miles west of Tillamook. The Refuge was established in 1938 "as a refuge and breeding ground for migratory birds and other wildlife." The Refuge includes two units separated by Cape Meares State Scenic Viewpoint. The Refuge is made up of vertical coastal cliffs, rock outcroppings, and rolling headlands with old growth forest dominated by Sitka spruce and western hemlock. A 20-acre section east of the Three Capes Scenic Route consists of early seral stage forest adjacent to a clearcut forested area. This section is undergoing natural regeneration following a blowdown event in the old-growth. This small refuge protects one of the last stands of old-growth coastal forest in Oregon and is in effect an island ecosystem. The vertical sea cliffs provide nesting habitat for peregrine falcons, pelagic and Brandt's cormorants, common murres, tufted puffins, pigeon guillemots, western gulls, black oystercatchers, and rhinocerous auklets. Peregrine falcons nest on the cliffs and bald eagles forage on the headland.

This FMP is an operational plan that implements the direction found in the 2009 Oregon Islands, Three Arch Rocks and Cape Meares National Wildlife Refuges' Final Comprehensive Conservation Plan (CCP). Overarching resource management strategies and objectives are delineated in the CCP and its corresponding Environmental Assessment. Refuge management goals include:

- At Cape Meares NWR, protect and maintain coastal habitats characteristic of Pacific Northwest old-growth Sitka spruce forest to allow natural succession to occur consistent with Research Natural Area designation, for the benefit of these habitat types and the plant and animal species associated with them.
- Collect scientific information (inventories, monitoring, feasibility studies, assessments, and research) to support adaptive management decisions (Goal 8) on Cape Meares NWR and RNA.
- In cooperation with OPRD, provide on- and off-site opportunities for visitors to enjoy wildlife observation, photography, and environmental education and interpretation while limiting disturbance to wildlife. Visitors will be able to gain an understanding of the basic ecological concepts of the coastal cliffs and old-growth Sitka spruce and western hemlock forests of Cape Meares and appreciate wildlife and wildlands that are being protected.
- Promote conservation of cultural resources on refuge lands through effective coordination and cooperation with Tribes having adjoining ownership or management responsibilities.

The Refuge has entered into a Memorandum of Understanding (MOU) and Service First Agreement with the U.S. Forest Service, Siuslaw National Forest (Forest), which state that the Forest will designate a delegated Fire Duty Officer who is responsible for fire related activities on the Oregon Coast National Wildlife Refuge Complex, including Cape Meares Refuge. The Duty Officer will be the point of contact for wildland fire management between the FWS Pacific Region Branch of Fire Management and the Oregon Coast NWRC Project Leader, and ensure resources are available to provide for wildland fire prevention, detection, initial attack response, severity requests through FWS Regional Office, and incident management for all wildland fires that occur on the Refuge Complex. In the event of a wildfire, the Forest will provide coordination for initial attack and extended response for fires, including oversight and supervision for interagency personnel and resources. Dispatch support will be provided by the Forest

through its existing organization structure with the Eugene Interagency Communication Center. A MOU with Netarts-Oceanside Rural Fire Protection District (Netarts-Oceanside Fire and Rescue 61) will be updated to provide additional support. This rural fire district would respond to any structure fire within Cape Meares State Scenic Viewpoint and assist as needed with a wildland fire.

Cape Lookout State Park, which also administers Cape Meares State Scenic Viewpoint, does not have a fire management plan, relying instead on ODF for wildland fire protection and response. Oregon State Parks pays an annual fire patrol assessment fee to ODF.

This plan shall be reviewed and updated annually.

Wildfire Incident Objectives

- Protect life and property with an emphasis on employee and public safety.
- Contain wildfires at the smallest size consistent with firefighter and public safety.
- Protect critical resources from fire and suppression damage. Critical resources include:
    - Threatened and Endangered species that may occur on or near the Refuge (Marbled murrelet.
- Utilize existing roads and natural barriers as control lines where practical.
- Ensure responding resources understand safety considerations and fire suppression expectations.
- Protect infrastructure which includes viewing and observation decks located on Cape Lookout State Park's property.

Safety Considerations

Primary safety considerations include employee accountability/evacuation and protection of onsite hazardous materials and sensitive facilities. The access and egress to the main facility is one way in/out and may be compromised due to highway traffic. The following conditions help mitigate safety concerns:

- On site safety zones should be identified and communicated to employees.
- Natural features that may pose a safety concern should be identified and communicated to local responders.
- Hazardous materials stored onsite should be properly signed and communicated to local responders.
- Annual pre-season safety reviews should be conducted with all Refuge personnel to ensure emergency protocols are understood.
- Evaluation of hazard fuel accumulations and maintenance of adequate defensible space around facilities will assist with employee and public safety.

Operational Constraints and Requirements

The Refuge itself contains no structures or facilities. However, there are interpretive facilities and structures co-managed by the Service and Oregon Parks Recreation Department but located on State Park land between the two units of Cape Meares NWR. These include kiosks, interpretive panels, and two wildlife viewing decks. The State Scenic Viewpoint itself houses a historic lighthouse, as well as a gift shop and restrooms. There are no privately-owned structures immediately adjacent to Refuge lands. The following operational constraints are required for the protection of sensitive natural resources:

- It is a management objective to maintain the Refuge's old growth stands in an unaltered condition. Therefore, the use of mechanized equipment and fire suppression chemicals are restricted. If human life and/or property are threatened, fire personnel may utilize any suppression tactic at their disposal to mitigate the threat. In this case, emergency ESA Section 7 consultation will be initiated if necessary.
- Minimum impact fire suppression tactics will be used to the fullest extent possible.

- Mechanical control (i.e., dozer line) of fire will be allowed only at the Refuge boundary and at established roadways (which include the entrance road and Three Capes Scenic Route in the northern parcel), and within a 20-foot buffer zone from these features, unless otherwise specified by the Agency Administrator or Incident Commander.
- No vehicular traffic or mechanical equipment is permitted in the interior of the Refuge.
- Manual control of fire is allowed in all areas of the Refuge, and will be accomplished with methods such as standard hand tools (shovel, flapper, Pulaski, etc.), backpack water sprayers, engine hose lays, and chainsaws. In the interior of the Refuge, chainsaws may be used only to clear small-diameter vegetation around firelines.
- Aerial suppression efforts by helicopters and/or fixed wing aircraft may be utilized on the refuge. Water drops will be allowed in all areas of the refuge). Retardant drops are allowed at the Refuge boundary and at established roadways, and within the 20-foot buffer zone, but are prohibited in the interior of the refuge (see additional restrictions below).
- Fire chemicals will be cautiously and conservatively used on the Refuge. Fire retardant may be used only at the Refuge boundary, established roadways, and 20-foot buffer zone, and is prohibited in the interior of the refuge. Additionally, Fire-trol® retardant will not be used on the Refuge due to its cyanide component and toxicity to aquatic organisms. Foam may be used to reinforce firelines at the refuge boundary, established roadways, and the 20-foot buffer zone. In the interior of the Refuge, foam may be used only to protect very high value wildlife habitats (e.g., old growth, large snags used for cavity nesters). Silv-ex® and Phos-chek® wildland fire foams will not be used on the Refuge, since they are more toxic to aquatic organisms than other types of fire foams.
- Unburned snags will not be felled along fire lines, except where necessary to protect human life and property. When possible, the use of water and/or fire chemicals should be used to protect snags from burning.

No archaeological or historic sites have been identified on the Refuge. However, the Oregon coastal area is known to have been heavily used by Native American tribes prior to European settlement and the potential exists for cultural sites to occur. The Cape Meares Lighthouse was established in 1890 and staffed until 1938, then automated and used until decommissioned in 1963. The lighthouse was listed on National Register of Historic Places in 1993 and currently sits on State Park lands. The following operational constraints are required for the protection of cultural resources:

- Minimum impact fire suppression tactics (MIST) will be used to the fullest extent possible.
- Resource Advisors will inform fire suppression personnel of any areas with cultural resources. The Resource Advisor should contact the Regional Archaeologist and/or his/her staff for more detailed information.
- Foam use will be minimized in areas known to harbor surface artifacts.
- Mechanized equipment should not be used in areas of known cultural significance.
- The location of any "new" sites discovered as the result of fire management activities will be reported to the Regional Archaeologist.
- Rehabilitation plans will address cultural resources impacts and will be submitted to the Regional Archaeologist using "Request for Cultural Resource Compliance" form.

Wildland Fire Suppression Guidelines		
NOTE: If human life and/or property is threatened, the Incident Commander has the authority to order any suppression strategy or tactic at his/her disposal to mitigate the threat, regardless of FMU.		
	FIRE MANAGEMENT UNITS	
	Roads and Refuge Boundaries (up to 20 feet off of feature)	**Interior of Refuge**
Fire Management Unit Description	Roads and Refuge Boundaries (up to 20 feet off of feature)	Interior of Refuge
Special Considerations		
Preferred Suppression Strategies	Aggressively suppress the fire, holding it to the fewest burned acres as possible within safety constraints.	
Tactics	**Must be approved by:**	
Handline/Chainsaws	Incident Commander	Approved; use wetline whenever possible.
Dozer Line	Agency Administrator	Prohibited; unless life/property threatened
Foam/Retardant	Incident Commander	Prohibited; unless life/property threatened
Water drops	Approved; utilize designated dips	Approved; utilize designated dips. Prohibited in north unit March 1-August 31 unless life or property is threatened.
Off-Road Travel	Incident Commander	Prohibited; unless life/property threatened
Safety Considerations		

Notification List (Emergency Always Call 911)

Contact Name	Contact Position	Office / Cell Phone
Eugene Interagency Communication Center	Dispatch	541-225-6400/911
Netarts-Oceanside Fire District- Station 61	1235 5th St. Loop W, Tillamook, OR 97141	**Emergency: 911** Phone: (503) 842-5900
Dan Eddy	Interagency FMO for the Oregon Coast NWRC; and the Siuslaw Fire Duty Officer	541-750-7026 work (b)(6)
Nikia Hernandez	Siuslaw Fire Duty Officer (backup)	541-563-8440 work (b)(6)
Kelly Moroney	Oregon Coast NWRC Project Leader	541-867-4550 work (b)(6)
Rebecca Chuck	Oregon Coast NWRC Deputy Project Leader	541-867-4550 work (b)(6)
Josh O'Connor	Regional Fire Duty Officer	503-872-2756 work (b)(6)
Brian Gales	Regional Fire Duty Officer (backup)	503-231-6769 office (b)(6)
Kirk Barham	OPRD Site Manager; Cape Lookout Management Unit	503-842-3182 office (b)(6)
Scott Neumann	Oregon Coast NWRC Fish and Wildlife Officer	541-867-4550 office (b)(6)
Eric Mruz	Oregon Coast NWRC Refuge Manager, South Coast Refuges	541-347-1470 office (b)(6)
Dawn Harris	Oregon Coast NWRC Refuge Operations Specialist	541-867-4550 office (b)(6)
Shawn Stephensen	Oregon Coast NWRC Fish and Wildlife Biologist	541-867-4550 office (b)(6)
Pam Johnson	Oregon Coast NWRC Administrative Officer	541-867-4550 office (b)(6)

Response Organization & Roles

The Project Leader is responsible for planning and implementing the fire management program on the Refuge. Per the MOU and Service First Agreement with the Siuslaw National Forest, the Servicing Fire Duty Officer, otherwise referred to as the Fire Management Officer (FMO) for the Oregon Coast Complex is responsible for fire management program oversight. If necessary, the Project Leader will assign fire management responsibilities as collateral duties to staff who possess appropriate training, experience, and incident qualifications. Pre-suppression planning and work is accomplished by Refuge staff in accordance with national and regional fire management direction under guidance from the Servicing Fire Duty Officer. Emergency fire management actions will be handled by Refuge staff according to training and incident qualifications. The Servicing Fire Duty Officer will be immediately notified of all emergency actions.

Siuslaw National Forest would have initial attack responsibility for lands within Cape Meares NWR. The Refuge will enter into a formal Memorandum of Understanding (MOU) with Netarts-Oceanside Rural Fire Protection District (Netarts-Oceanside Fire and Rescue 61) for additional support as needed.

Project Leader Responsibilities

Wildfire Preparedness

- Annually review and update this plan with your Servicing Fire Duty Officer (Siuslaw Forest).
- Brief your staff on what to do if you have a wildland fire on Refuge- managed lands.

Wildfire Response

- Call 911 when fire is detected.
- Make sure all employees are accounted for on the Refuge.
- Contact Eugene Interagency Communication Center.
- Serve as an initial liaison/point of contact for suppression response resources.

Servicing Fire Duty Officer (Siuslaw Forest) Responsibilities

Wildfire Preparedness

- Contact Project Leader to coordinate annual update of this plan.
- Maintain and update agreements with Eugene Interagency Communication Center.
- Manage and maintain appropriate fire response MOUs, such as Rural Fire Departments.
- Consider and request severity resources to the FWS Regional Office, as appropriate.
- Provide opportunities for wildland fire training; including annual fire and chainsaw refresher for 2-3 FWS employees identified in the fire management zone.

Wildfire Response

- Upon notification of a fire at the Refuge, coordinate delegations of authority with appropriate agencies.
- Provide coordination for initial attack and extended response for fires including oversight and supervision for interagency personnel and resources.
- Provide for on-site fire management by coordinating with cooperators to provide support to the Refuge Project Leader.
- Comply with Interagency Standards for Fire and Fire Aviation (Red Book) and FWS Fire Management Handbook when engaged in fire management activities on FWS lands.
- Initiate and coordinate fire investigations.
- Inform the FWS Regional Office Duty Officer.
- Initiate cost share agreements as appropriate.

Post Wildfire

- Coordinate Burned Area Rehabilitation and Emergency Stabilization planning with RO.
- Provide coordination for payment of fire response resources.
- Complete fire report in FMIS.

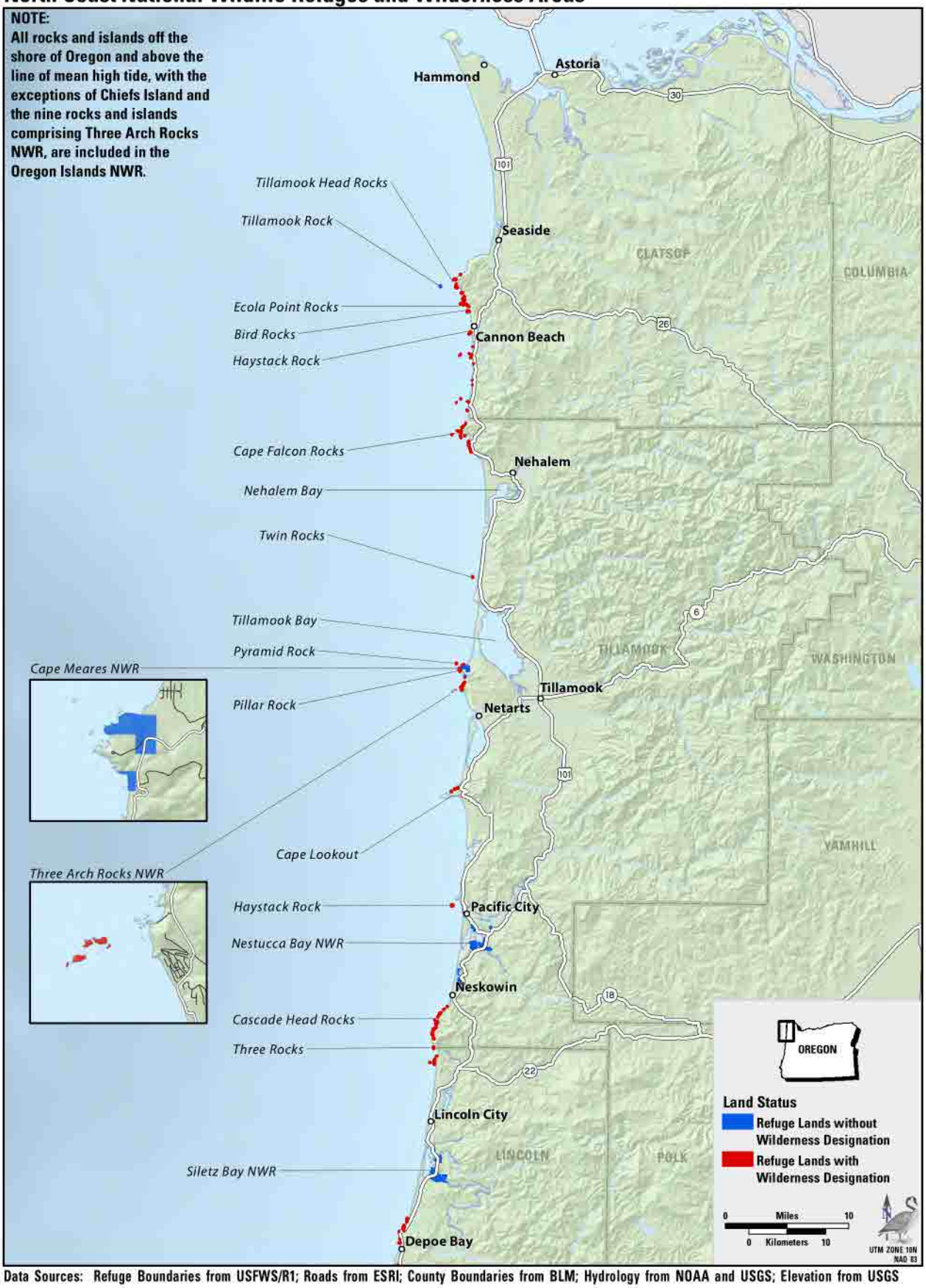
Appendices

Appendix A: Maps

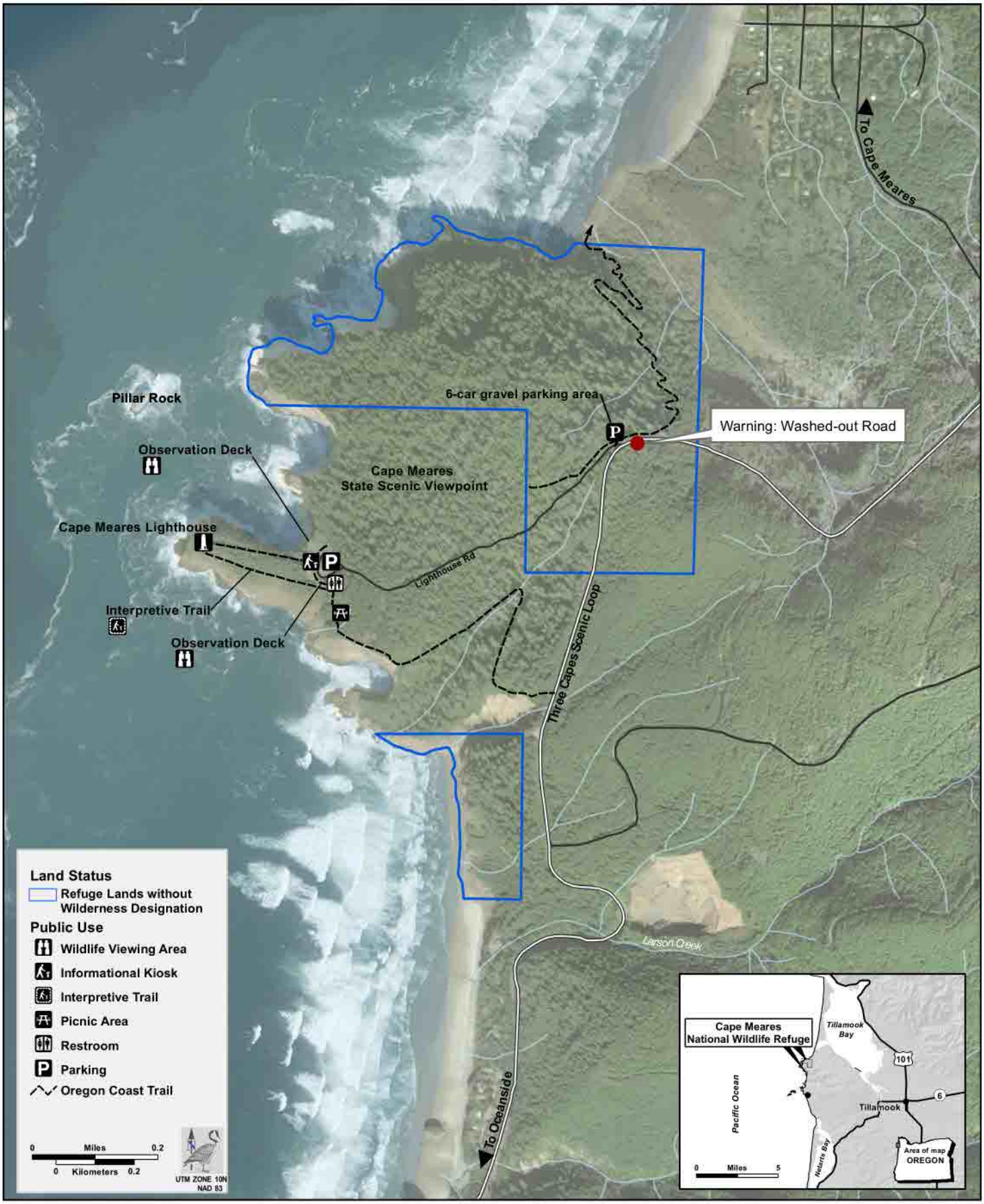
Appendix B: Service First Agreement

Appendix C: Memorandums of Understanding

North Coast National Wildlife Refuges and Wilderness Areas



Data Sources: Refuge Boundaries from USFWS/R1; Roads from ESRI; County Boundaries from BLM; Hydrology from NOAA and USGS; Elevation from USGS


To Cape Meares
6-car gravel parking area
Warning: Washed-out Road
Pillar Rock
Observation Deck
Cape Meares
State Scenic Viewpoint
Cape Meares Lighthouse
Lighthouse Rd
Interpretive Trail
Observation Deck
Three Capes Scenic Loop
Larson Creek
To Oceanside
Land Status
Refuge Lands without Wilderness Designation
Public Use
Wildlife Viewing Area
Informational Kiosk
Interpretive Trail
Picnic Area
Restroom
Parking
Oregon Coast Trail
0 Miles 0.2
0 Kilometers 0.2
UTM ZONE 10N
NAD 83
Cape Meares National Wildlife Refuge
Tillamook Bay
101
6
Tillamook
Pacific Ocean
Netarts Bay
0 Miles 5
Area of map
OREGON

Appendices

Appendix B: Service First Agreement

5/01/2017

INTERAGENCY FIRE MANAGEMENT
SERVICE FIRST PROJECT OPERATING PLAN
Between
U.S. FISH AND WILDLIFE SERVICE, OREGON COAST NATIONAL WILDLIFE REFUGE COMPLEX
And the
U.S. FOREST SERVICE, SIUSLAW NATIONAL FOREST

A. INTRODUCTION

Federal land management agencies have an obligation to provide wildland fire planning and response for their jurisdictional lands. The U.S Fish and Wildlife Service Pacific Region (FWS) and U.S. Forest Service, Siuslaw National Forest (FS) have identified an opportunity to share fire management resources to meet the need of both agencies most effectively.

B. PURPOSE

The purpose of this Project Operating Plan is to outline a cooperative fire management relationship which intends to provide fire management leadership, incident supervision, fire training, fire management planning and fire business support to FWS and FS administrative units in western Oregon. This relationship will provide for the exchange of resources and funds in support of fire suppression, pre-suppression, severity, fire training certification activities and potential vegetation projects thereby increasing efficiencies and safety on lands managed by the U.S. Forest Service and the U.S. Fish and Wildlife Service. Sections "E" and "F' describe the mechanics of this Service First Project Plan.

This plan will outline fire management responsibilities of the U.S. Fish and Wildlife Service and U.S. Forest Service for managing wildland fire and implementing small scale vegetation projects on FWS managed lands within the scope of this plan.

C. AUTHORITY

The Service First Project Operating Plan was developed to meet the intent of the following Agreement and Memorandum of Understanding:

1. Master Interagency Agreement on General Terms and Conditions for Implementing Service First Interagency Funding Agreements (2012)
   U.S. Fish and Wildlife Service Agreement # - F12PG00000
   U.S. Forest Service Agreement # - 12-IA-11132400-094

2. Memorandum Of Understanding on implementing the Service First Authority
   U.S. Fish & Wildlife Service: 98210-6-N035
   U.S. Forest Service: 13-MU-11132420-337

D. SCOPE OF THIS PLAN

The following U.S. Fish and Wildlife Service managed Units are subject to this agreement:

The Oregon Coast National Wildlife Refuge Complex is comprised of six National Wildlife Refuges and 3 Satellite Units.

Refuges include:

1. Oregon Islands (non-burnable) Three Arch Rocks (non-burnable)
2. Cape Meares (0 fires last 10 years)
3. Nestucca Bay
4. Siletz Bay (0 fires last 10 years)
5. Bandon Marsh

Satellite Units of Oregon Island include:

1. Crook Point (134 ac.) 10 miles south of Gold Beach (vegetation work only)
2. Coquille Point (22 ac.) located in the City of Bandon
3. Whale Cove (14 ac.) 2 miles south of Depoe Bay

E. RESPONSIBLITIES – FWS PACIFIC REGION

1. Coordinate information on the plan with the Siuslaw National Forest.

2. Coordinate with and provide the FS with information on FWS and fire management policy.

3. Transfer funds associated to the Service First Agreement as indicated in section "H" financial plan.

4. Identify vegetation treatment projects and preparation for project implementation on FWS managed lands.

5. Serve as a coordinator resolving issues, updating the terms of this Project Plan, maintain official records and interaction between Agency Administrators for FS and FWS.

6. In the rare event of an extended attack incident on Refuge lands, FWS will work with the FS to complete WFDSS entry. FWS will be responsible for WFDSS decision; real time support from FS for the ongoing incident will be provided to formulate decision.

F. RESPONSIBILITIES – SIUSLAW NATIONAL FOREST

Wildland Fire Pre-suppression and Suppression

1. Designate a delegated Fire Duty Officer who is responsible for fire related activities (see bullets below) on FWS managed lands within the scope of this agreement.

2. Serve as the Point of Contact for wildland fire between the FWS Pacific Region Branch of Fire Management and the Oregon Coast NWRC Project Leader. In coordination with the Pacific Regional Office, the Siuslaw NF fire program is the subject matter expert for fire management in support of FWS lands within the Zone.

3. As wildland fire conditions dictate; ensure resources are available to provide wildland fire prevention, detection, initial attack response, severity requests through FWS regional office and incident management for all wildland fires on FWS managed lands.

4. In the event of a wildfire, provide coordination for initial attack and extended response for fires including oversight and supervision for interagency personnel and resources. Utilize FMP for appropriate response.

5. Comply with Interagency Standards for Fire and Fire Aviation (Red Book) and FWS Fire Management Handbook when engaged in fire management activities on FWS lands.

6. Provide opportunities for wildland fire training; including annual fire and chainsaw refresher for 2-3 FWS employees identified in the zone.

7. Through coordination with Oregon Coast NWRC Project Leader, update or establish fire suppression MOU's with neighboring Rural Fire Districts (Lincoln City, Nestucca RFD and Bandon Fire). FWS will provide expired agreement in new template. FS will coordinate signature process, FWS is responsible signatory party.

8. Annually review Fire Management Plans (Bandon Marsh, Siletz Bay and Nestucca Bay NWR's) with Oregon Coast NWRC Project Leader and provide annual update form to the Pacific Region Branch of Fire Management.

9. Interagency FMO or acting will participate on monthly one hour FWS FMO calls.

10. Identify and manage necessary wildland fire dispatch support for the units within this plan. Dispatch support for suppression and prescribed fire activities will be provide by Siuslaw National Forest through its existing organization structure with Eugene Interagency Communication Center.

11. Specific tasks are identified in Appendix A (Workload Estimate Table).

Habitat Management (may include cutting, piling and burning)

1. Provide personnel, equipment, and supplies to implement at the direction of the Oregon Coast NWRC Project Leader one vegetation treatment per year. Annually plan and implement .5 to 10 acres of prescribed burning (local thinning project option if prescribed fire windows do not occur) at Nestucca Bay NWR as conditions allow (2 work days for 3-4 persons, preferably prior to burn ban beginning on or near July 4). Unit site prep (mow lines) will be accomplished by FWS staff. Burn plan for project area is complete, however the burn plan will require annual review and update.

G. EXCHANGE OF OTHER RESOURCES

The parties agree to exchange services and other resources involving both planning and implementation of RX fire, vegetation management and other associated projects. These exchanges of resources will occur based on opportunities/availability to provide services of equal or near equal financial value which promote efficiencies in managing the public lands. Any further exchange of "other resources" beyond what is identified in this Project Operating Plan will be negotiated between the Agency Administrators. Additional vegetation work will be funded through 126x monies outlined in item H "Financial Plan" and not an annual requirement of the FS.

H. FINANCIAL PLAN

It is estimated based on the Workload Estimate Table (Appendix A) and responsibilities in section "F" the following funding will be provided to the FS to implement this Project Plan:

Process	Amount
Annually obligate to the FS (Siuslaw N.F.) through an Interagency Agreement from the U.S. Fish and Wildlife Service Pacific Region Branch of Fire Management FF01R03000 FFF1000001BASE0 17X	$12,000/year
5 year period of performance	$60,000
Oregon Coast NWRC 126X vegetative treatment (reference exchange of other resources).	TBD as necessary
Total Fund Obligation	**$60,000**

Funds will be made available to the FS through an Interagency Agency Agreement prior to February 1st annually (with consideration to congressional appropriations).

Funding to meet the responsibilities is considered an annual fixed cost to the FWS.

I. DURATION AND PROCESS TO TERMINATE THIS PROJECT PLAN

This Project Plan will remain effective for five years from the approval dates in section "K". If the terms on this Service First Project Plan become unacceptable to either party they may terminate this Plan with a 30 day written notice.

J. PRINCIPAL CONTACTS

Principal contacts are responsible for implementation of this plan and annual review of effectiveness. Principal contacts are responsible to the agency administrators approving this plan.

BRIAN GALES Digitally signed by BRIAN GALES Date: 2017.05.01 11:52:21 -07'00'

Brian Gales Date
Pacific Region Deputy RFMC
U.S. Fish and Wildlife, Pacific Region

Daniel C. Eddy 5-3-2017

Dan Eddy Date
Forest Fire Staff Officer
U.S. Forest Service, Siuslaw National Forest

K. SERVICE FIRST PROJECT OPERATING PLAN – AGENCY ADMINISTRATOR APPROVAL

The U.S. Fish and Wildlife Service, Oregon Coast National Wildlife Refuge Complex and U.S. Forest Service, Siuslaw National Forest agrees to support the responsibilities of both parties listed in this Project Operating Plan. This plan is valid for five years from the signature date, but will be reviewed and validated by the "principal contacts" before January 30th annually.

5-16-17

Kelly Moroney Date
Project Leader
U.S. Fish and Wildlife, Oregon Coast NWRC

5/03/17

Jeremiah Ingersoll Date
Forest Supervisor
U.S. Forest Service, Siuslaw National Forest

5/01/2017

APPENDIX A – Workload Estimate Table

Tasks	**Estimated time commitment (Days)**	**Notes**
FMO Conference Calls	1.5	Monthly
WCT and Annual Refresher Training	1	Estimated 2-3 FWS staff annually
Facilitate access to basic fire training	.5	Estimated 1 FWS staff annually
Annual review Local Fire MOU's	2	Estimated 3 MOU's annually
Annual update of FMP's	2	Estimated 3 FMP's annually
Project planning support (vegetation treatments)	2	Estimated 1 project annually (1 prescribed burn plan)
Project Implementation	2 (3 individuals) =6	Estimated 1 project annually with 3 crewmembers
Project Leader Interaction (annual Refuge site visits)	2	Estimated 2 visits annually
Dispatch center coordination	.5	Minimal communication. Rx ops and preparedness simulations
Reporting – FMIS, NFPORS	.5	Estimated 2 reports annually
Total Days Annually	**18**	

FIRE DISPATCH PLAN 2019
WILLAMETTE VALLEY NATIONAL WILDLIFE REFUGE COMPLEX

To comply with Service policy these procedures should be followed for wildland fire initial response on our Refuges.

- If you have a fire you cannot control call 911 and call Fire Management Officer (FMO) or acting as soon as possible.
- To report non-emergency fire call Eugene Interagency Communications Center (EICC) **541-225-6400**. (this number will be forwarded to 911 after hours.) If calling on radio EICC goes by "Eugene Dispatch" Then call FMO or acting as soon as possible.
- Provide initial fire size-up info (Use Northwest Incident Organizer attached).
- Contact- Fire Management Officer and Refuge Project Leader or Deputy.
- Engines require 2 qualified firefighters to operate.
- If responding alone, scout fire (if qualified FF), complete fire size-up documentation, and wait for assistance.
- Utilize qualified responders from interagency partners to supervise suppression activities.
- Be safe. No fire is worth risking your safety and well being.

You cannot legally participate in any extended attack or prescribed fire activities until you have cleared the work capacity process and fire refresher for 2018.

1. Willamette Valley National Wildlife Refuge Fire and Emergency Management Staff

Fire Management Officer/ICT3
1) Jeremiah Maghan WVNWRC (b)(6)

Fuels Tech/ICT 4
2) Silas Baffa WVNWRC

ICT 4
3) Russ Macal WVNWRC

2. Refuge Administrators

Project Leader:
Damien Miller WVNWRC (b)(6)
Office (541) 757-7236 ext.213

Deputy Project Leader:
Vacant

Refuge Manager Ankeny and Baskett Slough:
Graham Evans-Peters WVNWRC Office (503) 623-2749
C (b)(6)

3. USFWS Law Enforcement

Scott Neumann WVNWRC Office (541) 757 7236 ext. 212
(b)(6)

4. Resource Advisor:

Jerod Jebousek	WVNWRC	Home	(541)-752-3574
		Cell	(b)(6)
Nate Richardson	WVNWRC	Work Cell	(b)(6)

5. USFWS Regional Office Contacts:

Josh OConnor	Regional Fire Director, Portland	Office	(503) 872-2756
		Cell	(b)(6)
Brian Gales	Fire Operations Specialist, Portland	Office	(503) 231-6769
		Cell	(b)(6)

Spot Weather Forecast:

NWS Portland Office (503) 326-2420

http://spot.nws.noaa.gov/cgi-bin/spot/spotmon?site=pqr

Willamette Valley NWRC Employee Fire Qualifications/Training Experience

Employee	Fully qualified for/ Expires[1]	Trainee postion/*Re-qualify*	Contact Info
Jeremiah Maghan	(b)(6)	(b)(6)	Cell (w) (b)(6) Cell (P)
Silas Baffa			Cell (w) (b)(6) Cell (P)
Russ Macal			Cell (W) (b)(6) Home
Jeremy DePiero			Work Cell (b)(6)
Chris Seal			Work Cell (b)(6)
Graham Evans-Peters			Office (503) 623-2749 Work Cell (b)(6)
Nate Richardson			Work Cell (b)(6)
Jarod Jebousek			Work Cell (b)(6)
Cameron King			Cell (W) (b)(6)
Tyrone Asencio			Cell (W)

Willamette Valley NWRC Fire Resources

Resource	Type
Jeremiah Maghan	Division 9
Silas Baffa	
Engine 6191	Type 6 engine 4x4 400 Gal
Engine 2	Type 5 engine 4x4 500 Gal
Tender T932	Type 2 3500 Gal

Established Suppression Guidelines for the Refuge:

Table 1. Suppression Tactics

	Agricultural Lands	RNAs	Oak Creek	Other Lands
Water/ Foam	IC	IC	IC	IC
Hand line	IC	RA	RA	IC
Dozer Line	IC	RA	RA	RA
Off road travel	IC	RA	IC	IC

IC = Incident Commander Discretion

RA = Resource Advisor Approval, unless there are threats to life/ property

A full suppression alternative was selected for this refuge which requires aggressive containment and control of all wildland fires. In some refuge locations, attempts to suppress a wildland fire could potentially have greater ecological impacts than the fire. There are three Research Natural Areas encompassed by W. L. Finley NWR: Willamette Flood plain, Pigeon Butte, and Maple Knoll RNA's. These three RNAs comprise one Fire Management Unit. A Resource Advisor will be requested immediately from the refuge upon notification of a wildland fire in an RNA. Unless life or property is at imminent risk, the use of heavy equipment requires resource advisor approval on all areas of the refuge EXCEPT agricultural lands. All fires will be suppressed, but Minimal Impact Suppression Tactics should be utilized whenever possible due to the sensitive nature of the resources in the RNAs. Off-road travel is not permitted in RNAs without Resource Advisor approval.

Occupied residences, administrative buildings, and maintenance buildings are first priority. Adjacent private structures should also be protected with whatever tactics are necessary. Second priority areas are refuge historical sites. Third priority is the protection of permittee cattle, equipment, and crops.

Most of the fuels on the refuge are light and volatile grasses. Given low fuel moisture and moderate winds fires will travel very quickly. **Safety is the first concern when suppressing fires**. Wetland areas can generally burn without resource damage, and then be suppressed at roadsides or other appropriate locations.

Remember direct attack is not always the best approach to suppressing a fire on the refuge, pay close attention to roads, existing fire/mow lines, plowed or harvested fields, and natural barriers.

NORTHWEST INCIDENT ORGANIZER

Initial Attack Size Up / Risk Analysis (MUST BE COMPLETED PRIOR TO BRIEFING)

Date:

Time of Dispatch:

Time of Arrival on Scene: | Time Suppression Strategy Attained:

1. Fire Name: | Incident Number: | Charge Code:

2. Incident Commander:

3. Fire Location: (degrees - minutes- seconds)
T. R. Sec.
LAT: LONG:
Elevation:
Access & Travel Time:
Land Ownership:
4. Size:

5. Fuels Burning: ☐ Grass ☐ Brush ☐ Slash ☐ Re-prod ☐ Timber (light, heavy) ☐ Snag ☐ Logs ☐ Duff ☐ Hardwood

Adjacent fuels: ☐ Grass ☐ Brush ☐ Slash ☐ Re-prod ☐ Timber (light, heavy) ☐ Snag ☐ Logs ☐ Duff ☐ Hardwood

6. Character of Fire: | Fuel model:
☐ Smoldering ☐ Creeping ☐ Running
☐ Torching ☐ Crowning ☐ Spotting

7. Flame Length:
☐ under 2' ☐ 2' - 4' ☐ 4' - 8' ☐ 8' - 11'
☐ 11' plus

8. Position On Slope:
☐ Bottom 1/3 ☐ Middle 1/3
☐ Top 1/3

9. Percent Slope:
☐ 0 - 30 ☐ 30 - 45
☐ 45 - 60 ☐ 60 plus

10. Aspect:
☐ North ☐ East ☐ South
☐ West ☐ Flat ridge top

11. Wind: Speed: _____
Direction: ☐ N ☐ E ☐ S ☐ W ☐ Upslope
☐ Up canyon ☐ Down slope ☐ Down canyon

Wind Indicators:
☐ Cumulus ☐ Lenticular
☐ Cold fronts ☐ Other

Weather Station:

12. Spread Potential:
☐ None ☐ Low ☐ Moderate ☐ High ☐ Very High

13. Values at Risk: (Check all that apply)
☐ Houses ☐ T&E Species ☐ Water Quality ☐ Other:
☐ Improvements ☐ Cultural/Historical ☐ Public Safety ☐ Closures Needed

14. Hazards: (Check all that apply)
☐ Snags ☐ Hazmat ☐ Urban Interface ☐ Other:
☐ Power Lines (Call for utilities?) ☐ Mine Shafts ☐ Evacuation Concerns (Call Sheriff or other LE?)

15. Cause: ☐ Lightning ☐ Human Caused (protect origin/consider Fire Investigator) ☐ Other

16. Additional Resources Needed:

Personnel:	Equipment:	Supplies:	Aircraft:

Safety Analysis (MUST BE COMPLETED PRIOR TO BRIEFING)

(If you answer NO to any of the questions, take corrective action immediately!)

YES	NO	Are the Standard Fire Orders being followed and the 18 Watchout Situations being mitigated?
YES	NO	Do you have a current forecast? If not, obtain through dispatch.
YES	NO	Is observed weather consistent with forecast? (Consider spot forecast)
YES	NO	Can you control the fire with resources available under expected conditions?
YES	NO	Have you developed a plan to attack the fire? (Direct or indirect, anchor points, escape routes, head or flank attack, priority areas)
YES	NO	Have you communicated your plan to everyone on the incident?
YES	NO	Has the command structure been identified to all resources and dispatch?
YES	NO	Are lookouts in place or can you see the entire fire area?
YES	NO	Can you communicate with everyone on the fire and with dispatch?
YES	NO	Are escape routes and safety zones established and identified? If you are using the black, is it a clean burn with no re-burn potential?
YES	NO	Have you reported the status of the fire to dispatch?
YES	NO	Will the fire be controlled before the next operational period?
YES	NO	Do you have a complete list of assigned and ordered resources?
YES	NO	If the fire will not be controlled before the next operation period or the size of the organization exceeds the IC's capability to manage, have you informed dispatch?
YES	NO	Are you still comfortable managing this fire? Use incident complexity analysis.
YES	NO	Do all Fire Line Supervisors have the local pocket card and Incident Response Pocket Guide? If not order through dispatch, have delivered.

Comment:
Establish staging/briefing area