

**Forest Service Manual  
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Washington, DC**

**Forest Service Manual 1500 – External Relations  
Chapter 1530 - Interdepartmental**

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**Approved by:** F. DALE ROBERTSON, Chief

**Date approved:**

**Responsible Staff:**

**NEW POSTING NOTICE:** This amendment is the first in a new numbering series corresponding to the year in which material was amended. Since this amendment replaces all text except Interim Directives (ID), do not check for the last transmittal received for this title. Replace the entire title text except ID's. Place this transmittal sheet at the front of the title and retain until the first transmittal of the next calendar year is received.

**Explanation of changes:**

1500 - Please read the new posting notice carefully. These directions apply to this transmittal only. Entire text, except ID's, is replaced. New text corresponds with text located in the National Information Center. The electronic document names are shown above for ease in accessing them from the National Information Center. Direction has not been changed. Some minor typographical and technical errors were corrected. Amendment numbers and dates noted above are listed for historical purposes only. All subsequent amendments will be issued by document.

## Table of Contents

1531.42d - Interagency Agreement on Authority to Enter Into Water-DataCollection Agreement and Provide for Fund Transfer to Pay Project Costs .....	3
1531.42e - Memorandum of Understanding Pertaining to the National Water Data Exchange.....	6
1531.42f - Cooperative Agreement for Operations Within Solid Mineral Permits and Leases .....	8
1531.42g - Work-Share 7.5-Minute Map Revision Program .....	15
1531.42h - Cooperative Management of Joint Projects Related to Remote Sensing and Geologic Information Systems Technology.....	23

**1531.42d - Interagency Agreement on Authority to Enter Into Water-DataCollection Agreement and Provide for Fund Transfer to Pay Project Costs**

No. 81-SIE-004

INTERAGENCY AGREEMENT  
between  
U.S. Geological Survey, USDI  
and  
U.S. Forest Service, USDA

THIS INTERAGENCY AGREEMENT, made and entered into by and between the U.S. Department of the Interior, Geological Survey, hereinafter referred to as Geological Survey, and the U.S. Department of Agriculture, Forest Service, herein-after referred to as Forest Service, under the provisions of section 601, Economy Act of 1932 (31 USC 686).

WITNESSETH:

WHEREAS, the management of National Forest System lands requires water resource information for the formulation of land management plans and the design of resource management activities; and

WHEREAS, it is imperative to have an efficient and cost-effective data collection and analysis program because of: increasing costs of data collection and analysis; increased demand for quantified water resource information; more complex laws and regulations relating to land management; and

WHEREAS, the Water Resources Division of the Geological Survey is the recognized expert in the field of water data collection and analysis.

NOW, THEREFORE, in consideration of the above premises, the parties hereto agree as follow:

A. The Geological Survey, through the appropriate Regional Hydrologist, shall:

1. Collect, analyze, interpret, and report water resource data for the Forest Service on a cost-reimbursable basis.

2. Develop an annual work plan for each Forest Service Region outlining the work to be performed by the Geological Survey, and the cost by Region to the Forest Service. The work plan will be of sufficient detail as to be mutually agreeable between the Regional Forester, Forest Service, and the Regional Hydrologist, Geological Survey, and shall include all appropriate billing data including applicable addresses.

3. Agree to perform work for the Forest Service as set forth in the annual Regional work plans.

4. Bill the Forest Service through the Regional Office address as indicated in each Regional work plan on a quarterly basis. Where Geological Survey Districts lie within two or more Forest Service Regions, separate billings will be submitted to each FS Region pursuant to the work plan.

B. The Forest Service, through the appropriate Regional Forester shall:

1. Develop a Statement of Work to be performed by the Geological Survey for each Forest Service Region.

2. Reimburse the Geological Survey for work performed by the Geological Survey for amounts set forth in annual work plans.

C. It is mutually agreed and understood by and between the said parties that:

1. This Agreement will serve as the authority for the Regional Foresters, under FSM, 2560.42 (4), to develop annual work plans with the Water Resources Division of the Geological Survey. The primary purpose of this Agreement is to authorize the Regional Foresters, Forest Service, and the Regional Hydrologists, Geological Survey, to develop and approve annual work plans without any additional authorization documents.

2. The Regional Forester may delegate the development and approval of the Statement of Work to the appropriate Forest Supervisor.

3. The District Chief may delegate the development and approval of the annual work plan to the appropriate Subdistrict Chief.

4. All data generated under this Agreement will be available to either agency for publication or use in other studies. In all cases, proper credit will be given to agency participation.

5. Nothing in this Agreement shall be construed as obligating the Forest Service or the Geological Survey to the expenditure of funds or for the future payment of money in excess of appropriations authorized by law.

6. This Agreement may be modified at any time by amendment duly executed by authorized officials of both the Geological Survey and the Forest Service.

7. The primary Forest Service contact for this Agreement is the Director, Watershed and Air Management, Washington Office, P.O. Box 2417, Room 810 RP-E, Washington, D.C. 20013, FTS-235-8096.

8. The primary Geological Survey contact for this Agreement is the Administrative Officer, Office of the Assistant Chief Hydrologist for Operations, 442 National Center, Reston, Virginia, 22092.

9. Copies of this Agreement and any amendments thereto shall be filed with the Geological Survey, Finance and Fiscal Analysis Section, 443 National Center, Reston, Virginia 22092, and with the Forest Service, Fiscal and Accounting Management Staff, P.O. Box 2417, Room 701 RP-E, Washington, D.C. 20013.

10. Either party may terminate this Agreement by providing 60 days written notice. Unless terminated by written notice, this agreement will remain in force indefinitely.

IN WITNESS THEREOF, the parties hereto have executed this Agreement as of the last date signed below.

U.S. DEPARTMENT OF THE  
INTERIOR  
GEOLOGICAL SURVEY  
WATER RESOURCES DIVISION

U.S. DEPARTMENT OF  
AGRICULTURE  
FOREST SERVICE  
NATIONAL FOREST SYSTEMS

BY: /s/ Thomas J. Buchanan  
Thomas J. Buchanan  
Assistant Chief Hydrologist/  
Operations

BY: /s/ J.B. Hilmon  
J.B. Hilmon  
Associate Deputy  
Chief

DATE: September 24, 1981

DATE: November 2, 1981

## 1531.42e - Memorandum of Understanding Pertaining to the National Water Data Exchange

79-SIE-004

### MEMORANDUM OF UNDERSTANDING UNITED STATES FOREST SERVICE AND THE UNITED STATES GEOLOGICAL SURVEY PERTAINING TO THE NATIONAL WATER DATA EXCHANGE

The National Water Data Exchange (NAWDEX) is comprised of water-oriented organizations working together to provide convenient access to water data. The NAWDEX mission is to identify sources of water data, to index data holdings to those who acquire and those who use water data.

This memorandum recognizes the Forest Service (USDA) as a participating member of the National Water Data Exchange (NAWDEX). This membership will continue in effect until terminated by mutual agreement or by either agency providing sixty days written notice to the other agency.

The U.S. Geological Survey (USGS), through its NAWDEX Program Office, will provide the central management of NAWDEX, and will serve as a coordinating facility for all NAWDEX facilities.

The NAWDEX Program Office will be responsible for:

- - - Establishing response and referral mechanisms for handling requests for water data in the files of NAWDEX members.
- - - Establishing and maintaining a Master Water Data Index of data holding of the NAWDEX members and making the index available to all.
- - - Establishing and maintaining a Water Data Sources Directory and making this directory available to all.
- - - Establishing a nationwide network of Local Assistance Centers that will provide data search assistance to requestors and aid them in accessing water data held by NAWDEX members.

The Forest Service will be responsible for:

- - - Taking an active role in the formulation of NAWDEX policies, procedures, and standards and implementing them within its organization to the extent practicable.

- - - Participating in the development of standard techniques and methodologies for handling of water data and using them within its organization to the extent practicable.
- - - Providing information on internally held water data for inclusion in the Master Water Data Index and, as requested, providing current information to update the Master Water Data Index to reflect additions, changes, and corrections to the index.
- - - Providing data from its internal holdings either in response to a referral from the NAWDEX Program Office or a Local Assistance Center, or in response to a direct request for water data.
- - - Designating a representative of its organization to function as the primary contact for all NAWDEX matters.

It is mutually understood that membership in NAWDEX is voluntary and that all members will participate on an equal basis, and consent to be listed as a source of water data in the Water Data Sources Directory. There will be an open exchange of information among NAWDEX members and every effort will be made to provide water data to the user community in a timely and equitable manner.

<u>Associate Deputy Chief, NFS</u>	<u>/s/</u> _____ Signature, Title
Date <u>August 26, 1979</u>	Date <u>August 26, 1979</u>

/s/  
 Melvin D. Edwards, Program Manager  
National Water Data Exchange  
 Signature, Title  
  
 Date September 4, 1979

## **1531.42f - Cooperative Agreement for Operations Within Solid Mineral Permits and Leases**

See FSM 1531.12d for agreement which supersedes parts III IV and V of this agreement.

80-SIE-003

### **COOPERATIVE AGREEMENT**

Between Forest Service (USDA) and the Geological Survey (USDI)  
for Operations Within Solid Mineral Permits and Leases  
on National Forest System Lands

This agreement provides for the framework of cooperation between the Geological Survey and the Forest Service concerning Bureau of Land Management (BLM) prospecting permits and leases for solid minerals (excluding geothermal, oil and gas, and coal) operations on National Forest System lands under the provisions of the Mineral Leasing Act (MLA) of February 25, 1920 (41 Stat. 437; 30 U.S.C. 181, et seq.), as amended and supplemented; the MLA for Acquired Lands of August 7, 1947 (61 Stat. 913; 30 U.S.C. 351-359); President's Reorganization Plan No. 3, May 16, 1946; the Act of September 1, 1949 (62 Stat. 683; 30 U.S.C. (192c); the National Environmental Policy Act of 1969 (83 Stat. 852; 42 U.S.C. 4321-4347); the Act of June 30, 1950 (64 Stat. 311; 16 U.S.C. 508b); the Act of June 12, 1960 (74 Stat. 215; 16 U.S.C. 528-531); the Mining and Minerals Policy Act of 1970 (84 Stat. 1876; 30 U.S.C. 21a); and all other applicable laws and regulations in accordance with the authorities, responsibilities, and duties of each Agency thereunder. Permits to conduct preliminary exploration are obtained from the Forest Service and therefore are not a part of this Cooperative Agreement.

#### **I. DEFINITIONS**

A. AO means the area of operations on permits and leases needed for "operations" as defined herein. The AO shall be established by agreement between the GS and FS and shall be delineated on a map that is made part of an approved exploration or mining plan or a modification thereof. An AO may include one or more permits or leases or a combination of both.

B. Conceptual Mining Plan means a plan that is somewhat general because additional drilling and planning will be required before a detailed mining plan can be completed. The conceptual plan will identify the anticipated mining method (underground or surface), the likely rate of production, the approximate location of the mine and processing methods.

C. Exploration Plan means a detailed plan showing location and type of exploration work to be conducted, access roads to be built, measures for environmental protection and procedures for reclamation.



D. Mining Plan means a detailed plan showing proposed location, method and extent of mining and all related activities necessary and incidental to such operation, including steps to reclaim disturbed areas and to mitigate adverse effects.

E. Environmental Analysis is a general term for the process required under the National Environmental Policy Act of 1969. Proposals for surface disturbing activities will be analyzed for alternative actions and the predictable short- and long-term environmental effects including physical, biological, economic, and social factors, and their interactions. Depending on the findings, the analysis will be documented in a Categorical Exclusion Review (CER), an Environmental Assessment (EA), or Environmental Impact Statement (EIS).

F. FS means the Forest Service authorized officer.

G. GS means the Geological Survey District Mining Supervisor.

H. Operations means all those activities, including surface protection and reclamation, and an AO directly related to and necessary for access to sites of exploration or mining, processing, and transportation of mineral commodities, except certain supportive facilities as indicated in II.

## II. RESPONSIBILITIES

The GS has the responsibility for approval of exploration and mining plans and the modification of previously approved plans, but only after consultation with and consent of the FS as to surface resource protection and reclamation requirements.

The GS is responsible for the supervision on permits and leases of prospecting, mining, processing, access roads, and all facilities directly related thereto, within an AO, including supervision and enforcement of surface resource protection and reclamation requirements related to these activities.

The above operations and activities are included in an AO which is delineated on a map to establish a division of authority between Agencies and to define responsibilities for contacts with the operator.

Uses within the permits and leases other than those related to operations being conducted under an approved plan must be approved by the FS. The FS will consult with the GS to prevent or reduce any surface use conflicts, such as with recreationists or special use permittees, and will not approved any such use within a permit or lease which is contrary to GS recommendations without further discussions with GS.

Activities on permits and leases that are supportive to the operations, such as aircraft landing sites, camps, residences, and facilities directly related thereto are the responsibility of the FS

and will not be included in the AO. The FS will consult the GS concerning potential conflicts with subsequent mineral operations and will not approve or issue special use permits for such supportive uses without further discussions with the GS.

Disagreements between the FS and the GS concerning administration of permitted or leased lands and operations covered by this Agreement will be referred to successively higher levels of management within the two Agencies, and, if necessary, to the appropriate Assistant Secretaries for resolution.

III. PROSPECTING PERMIT APPLICATIONS 1/

IV. PREFERENCE RIGHT LEASE APPLICATIONS 1/

V. COMPETITIVE LEASE PROPOSALS 1/

VI. DURING TERMS OF PERMITS AND LEASES

A. Prior to Operations

1. GS will:

- a. Send permittee or lessee a copy of the operating regulations requiring that no operations may be undertaken on permitted or leased lands without prior GS approval.
- b. Furnish FS recommendations on applications for other surface uses of leased lands that might conflict with subsequent operations. Normally, such recommendations will be furnished within 10 working days from receipt of the FS request.
- c. Coordinate and communicate with permittees or lessees and the FS concerning exploration and mining plans and other information requirements or request FS to communicate with permittees or lessees regarding preparation of the proposed plan in order to expedite FS input concerning surface resource protection and reclamation requirements.
- d. Furnish FS copies of proposed exploration or mining plans for review and recommendations for surface resource protection and reclamation requirements, except in cases where this has already been prepared under III.A. or IV.A. (see Procedures in FSM 1531.12d).
- e. Arrange for joint field inspection (technical examination) by the FS, the GS, the operator, and other interested parties, including appropriate State officials, when such an inspection involving the proposed plan is deemed necessary by either the FS or the GS in order to properly review the plan and determine surface resource protection and reclamation requirements.

- f. Make an environmental analysis and record the evidence of such analysis in a CER or prepare an EA when an EA is needed on a proposed exploration and mining plan or modification of a previously approved plan after considering FS stipulations for surface resource protection and reclamation. The FS will be furnished a copy of the EA for review and comment prior to the acceptance of the final version.
- g. Act as lead Agency and, with FS participation, prepare an EIS when needed for a proposed operation.
- h. Delineate, with FS concurrence, the AO on the maps provided by the operator and make such map a part of the approved plan.
- i. Approve plans or modifications thereto, but will do so only after consent of the FS pertaining to surface resource protection and reclamation requirements.
- j. Schedule, if appropriate, public meetings or hearings on proposed exploration or mining plans, EA's, or EIS's. Request FS to participate when necessary and appropriate.
- k. Furnish FS immediate notification of plan approval, with copy of approval if different than the plan that was received.

2. FS will:

- a. Retain jurisdiction over all activities on permits and leases, except for rights granted by permits and leases.
- b. Consult with the GS and request its recommendations before approving or permitting other surface uses on permits or leases which might conflict with subsequent operations. No such uses will be approved by FS until any differences with GS have been resolved.
- c. Advise the GS whether or not a joint field inspection of the lands included in the proposal is required within 10 working days after receipt of a proposed exploration or mining plan for the GS.
- d. Furnish the GS a report and stipulations supported by adequate explanation on the surface resource protection and reclamation aspects of the proposed plan within 30 working days following a joint inspection or receipt of a proposed plan, if a joint inspection is deemed unnecessary.
- e. Provide assistance to GS in preparation of the draft EA, if requested.
- f. Review the GS's EA on a proposed operation prior to its acceptance. Normally, the FS will furnish its comments within 20 working days.

g. Participate in preparing an EIS covering a proposed operation when one is determined to be required, with the GS as the lead Agency and participate in public meetings or hearings as requested by GS.

B. During Operations

1. GS will:

a. Be the point of contact and sole representative in dealing with the permittee or lessee concerning operations and compliance with lease terms, regulations, and approved plans, including surface resource protection and reclamation requirements, except in emergency situations as specified in the following item VI.B.2.b.

b. Inspect operations to insure that the operator is in compliance with terms and conditions of the lease and is conducting operations in accordance with the applicable regulations and the approved plan.

c. Report to the FS infractions of surface resource protection and reclamation requirements.

d. Take the appropriate administrative action upon receiving FS reports of operator's unauthorized activities outside the AO on permitted or leased lands.

e. Furnish FS with the name, address, and both the office and home telephone numbers of the District Mining Supervisor to contact in case of emergencies or incidents of noncompliance with the surface use and reclamation requirements of the lease or approved plan.

f. Seek all available help, including FS, on major accidents which might result in damage to other resources. Seek FS expertise in rehabilitation and clean-up operations.

g. Specify abandonment procedures to protect subsurface resources and public health and safety and approve the abandonment of drill holes, adits, shafts, and trenches.

h. Approve final abandonment of operations and recommend release of the operator's bond only upon FS confirmation of satisfactory reclamation of affected lands.

2. FS will:

a. Retain surface management jurisdiction over the permitted or leased lands outside the AO.

(1) Where activities not included in an approved plan constitute unauthorized activity on such lands by the operator, these activities will be reported to GS for the appropriate administrative action.

(2) Request and obtain the recommendations of the GS before approving other surface uses on permits and leases which might conflict with operations. No such uses will be approved unless FS and GS agree.

b. Exercise jurisdiction over activities within the AO only in emergency situations, and may issue orders to the operator only under the following circumstances and conditions:

(1) The emergency situations shall be such as to clearly constitute or threaten immediate and serious damage to the environment, surface resource, or the health and safety of the public and the GS District Mining Supervisor is not available to take the necessary immediate action.

(2) Order, in such emergency situations, immediate cessation of activities responsible for the emergency situation, such orders to be followed by prompt notification to the GS, who will take over jurisdiction and order immediate remedial action.

c. Report to the GS for appropriate action any observed infraction of surface resource protection and reclamation requirements when such infractions do not involve emergencies as described in VI.B.2.b. above.

C. Abandonment

Abandonment applications may cover the entire operation or a portion of operations.

1. GS will:

a. Arrange joint inspection with the FS and the permittee or lessee upon receipt of an application to abandon from permittee or lessee.

b. Approve application for abandonment only after written notification from FS that reclamation requirements have been met.

2. FS will:

- a. Participate with the GS and the permittee or lessee in inspection of the area under application for abandonment.
- b. Notify GS in writing that reclamation requirements have been met.

D. Coordination

FS and GS will:

1. Make joint inspections or hold joint meetings periodically with lessees, operators, contractors, and other involved parties to discuss problems, stipulations, working agreements, and other items of common concern.
2. Make an annual joint inspection of the leased lands on which operations are active to evaluate whether surface protection stipulations and reclamation plan are being adhered to. The boundary of the AO may be revised at this time.
3. Meet together periodically to discuss past and future procedures under these instructions.

This agreement shall become effective upon its execution by the Chief, Forest Service, and the Director, Geological Survey. At least 3 months prior to the first and subsequent anniversary dates hereof, Regional offices of the FS and GS shall apprise their respective Headquarters' offices of suggested modifications, if any, in this agreement which would improve its workability, reduce duplication of effort, and enhance the ability of the two Agencies to perform their assigned functions relating to the approval and supervision of mining operations on National Forest System lands.

1/ See new procedures in FSM 1531.12d.

/s/ \_\_\_\_\_  
Chief, Forest Service

November 6, 1980  
Date

/s/ \_\_\_\_\_  
Director, Geological Survey

November 26, 1980  
Date

## 1531.42g - Work-Share 7.5-Minute Map Revision Program

79-SIE-005

### INTERAGENCY AGREEMENT BETWEEN U.S. GEOLOGICAL SURVEY AND U.S. FOREST SERVICE WORK-SHARE 7.5-MINUTE MAP REVISION PROGRAM

A. Authority: Agricultural Organic Act of May 15, 1862 (7 U.S.C. 2201) - Organic Act of March 3, 1879 (43 U.S.C. 31).

B. Objective

The objective of this interagency agreement is to delineate the policies and procedures to be used by the Geological Survey, Topographic Division (GS), and the Forest Service, Geomtronics Service Center (FS), with respect to revising selected 7.5-minute maps on a work-share basis. Work-share, in the instance, means that there will be trade-offs between GS and FS on the work to be done. Generally, work will be accomplished through a production exchange rather than an exchange of funds.

C. Scope

This agreement deals with 7.5-minute topographic maps covering selected areas in and adjacent to the various national forests of the United States. Only those features normally shown on published GS maps will be revised. Additional features required by FS will be compiled by FS on a separate overlay for its use.

D. Background

The Geological Survey, as the principal U.S. national mapping agency, has as one of its missions the responsibility to produce and maintain a 7.5-minute series of base topographic maps to support the requirements of Federal agencies, States, and other map users. The Forest Service has a requirement for currently maintained map data including data unique to the Forest Service to support its land management activities. FS has an ongoing program to produce and maintain this additional data as part of its 1:24,000-scale Primary Series mapping program. These maps, derived from the GS base maps, are compiled and maintained by the FS Geomtronics Service Center, Salt Lake City. FS requires the USGS base category data to be revised and updated more frequently than overall national priorities and GS revision capacity will currently allow. Through the work-share arrangements outlined in this agreement, the capacities of the FS and GS will jointly contribute toward a more timely response to the mapping needs of both agencies.

## E. Policies

Revision work will be authorized in projects containing all or part of a national forest. Some quadrangles in a project will be entirely within a national forest and other quadrangles will be partially within and partially outside a national forest. In certain instances, in order to complete a project area, some quadrangles may be entirely outside a national forest. It is the intent to trade off responsibility for the revision of partial forest and partial nonforest maps in a manner whereby an entire given project is authorized to one agency. Accordingly, the following policies will apply:

1. Maps authorized under the work-share revision program will be jointly selected by GS and FS.
2. The type of revision, i.e., interim revision, standard revision, or complete revision, will be jointly determined by GS and FS.
3. The extent of each agency's participation in a given map revision project will be jointly agreed upon prior to work authorization.
4. Schedules and priorities for work-share revision projects will be jointly determined by GS and FS.
5. Normally, mapping aerial photography will be furnished on a project basis by the agency performing the majority of the work on the project. When special circumstances warrant, either agency may furnish the photography for a project when it is mutually agreed upon.
6. Revision work will be performed in compliance with GS standards and specifications for accuracy, content, and symbolization. Regarding content, the intent is to compile and publish all roads and trails that are part of the national forest transportation system and are maintained on a continuing basis for use by the general public. Revised data will be either stereoscopically or monoscopically compiled as appropriate from recent aerial photography or other appropriate data, field checked where applicable, and final scribed by the designated agency. GS will perform the map edit phase.
7. When field operations are required, they will normally be done by the agency to whom the revision project is assigned. On FS projects, GS will designate personnel to act in a liaison or consulting capacity and, when agreed, will furnish field assistance to FS. Conversely, when mutually agreed, FS will furnish field assistance to GS.
8. GS will furnish FS the available map source data and cartographic materials necessary to complete the revision compilation and map finishing operations performed by FS.



9. The end product to be supplied to or retained by GS will, for each map revised, be a complete set of original color separation negatives suitable for lithographic reproduction by GS.

10. The end product to be supplied to or retained by FS will, for each map revised, be a film composite or a set of duplicate color-separation film reproducibles suitable as a base for the preparation of FS Primary Series maps.

F. Procedures

1. Procedures for implementing aspects of this work-share agreement relating to the planning, programming, and related activities are contained in Supplement 1, Part A, of this document.

2. Procedures for implementing aspects of this work-share agreement relating to the technical requirement are contained in Supplement 1, Part B, of this document.

G. General Provision

This interagency agreement is effective on the date of the last signature. The agreement may be modified at any time upon joint approval, or may be terminated by either agency upon 1 year's notice, or at any time by mutual consent.

/s/ R.B. Southard  
R.B. Southard  
Acting Chief, Topographic  
Division  
U.S. Geological Survey

July 25, 1977  
Date

/s/  
for T.C. Nelson  
Deputy Chief, National  
Forest System  
U.S. Forest Service

August 9, 1979  
Date

## **Supplement 1**

### **U.S. Geological Survey and U.S. Forest Service Work-Share Map Revision Program**

#### **Part A. Planning/Programing**

##### **1. Planning**

a. GS headquarters staff and FS will develop a long-range plan (LRP) covering a 7-year period for the revision program for 7.5-minute quadrangle maps of national forest areas.

b. Preliminary planning and coordination meetings will be conducted between the GS Mapping Centers and FS at least 1 month before the annual meeting described in item c below. At these meetings, new revision projects will be considered and recommendations will be developed for:

- (1) Project area.
- (2) Type of revision.
- (3) Extent of each agency's participation.
- (4) General project schedule.

c. GS headquarters staff and FS will meet annually to:

- (1) Review the LRP.
- (2) Review the accomplishments of the past year and format plans for the next year.
- (3) Modify the LRP as required.
- (4) Review the preliminary revision project selections and change as necessary.
- (5) Recommend final revision project areas for authorization by the GS and FS.

##### **2. Programing**

a. GS will authorize projects identified at the annual GS/FS planning and coordination meeting.

b. Project schedules and progress operations will be exchanged quarterly. Format and content will be determined mutually by GS/FS. Graphics and/or tabulations will be included as appropriate.

## Part B. Technical Requirements

The technical requirements and procedures contained below provide general guidelines for implementing the work to be accomplished under the GS/FS work-share revision program. The guidelines will, of necessity, be subject to modifications, to accommodate requirements that vary depending on the type of revision and the scope of work to be performed.

### 1. Technical Liaison

Technical liaison will be coordinated between the GS Mapping Center responsible for the area being revised and the FS Geometronics Service Center. This coordination will include the furnishing and exchanging of technical specifications, map source data, color-separation drawings and other cartographic materials, and the resolution of technical problems encountered at the operations level.

### 2. Aerial Photography

After it is determined which agency is responsible for procuring the aerial photography for a given project, the appropriate current specifications shall apply. For the Forest Service it shall be "Specifications for Aerial Photography, United States Department of Agriculture, USDA-AP-300," and for the Geological Survey it shall be "Standard Specifications for Aerial Photography for Photogrammetric Mapping."

### 3. Revision Compilation

Revision compilation will be performed from recent aerial photography using either monoscopic or stereoscopic procedures depending on the amount of local as well as general relief. Monoscopic revision will be performed either from simple or differentially rectified aerial photographs. When possible, the method of compilation to be used will be determined prior to project authorization.

### 4. Technical Specifications

GS will furnish FS appropriate chapters of the Manual of topographic instructions and other instructions relative to the revision compilation and map finishing phases of the work. These include:

- a. 1:24,000-scale style sheet (May 8, 1976).
- b. Symbols for standard topographic maps published at the scale 1:63,360 and larger (May 1958).
- c. Color-separation scribing (48-1961).
- d. Geographic names (3A9-1961).

- e. Interim map revision (Revised Instructions, September 1969).
- f. Map editing and checking (4C-1963).
- g. Map revision (3A11-1954).
- h. Miscellaneous features (3A5-1961).
- i. Public-land subdivisions (3A4-1969).
- j. Field completion surveys (Draft-3H2-1962).
- k. Hydrographic features (3A6-1971).
- l. Topographic map lettering (4A-1961).
- m. Features shown on topographic maps (1B3-1956).
- n. Relief treatment (3A7-1956).
- o. Roads and railroads (3A1-1967).
- p. Woodland (3A8-1967).
- q. Boundaries (3A3-1962).
- r. Buildings and urban areas (3A2-1961).

##### 5. Field Operations

When field operations are required, they will normally be done by the agency to whom the revision project is assigned. GS will designate liaison personnel to serve FS in a consulting capacity for a specified project or projects, as appropriate.

When it is mutually agreed, GS will furnish field personnel to assist FS. Arrangements for such assistance will be made between the appropriate GS Mapping Center and FS. Generally, when field assistance is required, it will consist of performing conventional field verification operations using GS personnel, field equipment, and vehicles. Conversely, when it is mutually agreed, FS will furnish similar field assistance to GS.

##### 6. Source Data

Available source data pertinent to each revision project will be exchanged between the two agencies. Included are latest copies of the maps to be revised, new road class information, national forest maps, county maps, boundary data, correction file data, edge join strips, BGN decisions, and other similar data useful in the revision process.

## 7. Cartographic Materials

GS will furnish FS the cartographic materials required to complete each revision project. Included are original scribed or film separates, scribe-coated sheets, peel-coat sheets, and other similar material as required.

## 8. Final Scribing and Map Editing

For maps revised by the FS, FS will complete the work through the final scribing phase and GS will perform the edit (map lettering) phase. For maps revised by GS, GS will complete the work through the edit phase.

FS will be responsible for all phases of the preparation of FS thematic overlays.

## 9. Composites

For maps revised by FS, FS will send a color composite to the Mapping Center for prepublication review. The Mapping Center will return the composite to FS with annotated correction calls. After the corrections are made, FS will send a final color composite and the reproduction materials to Mapping Center for transmittal for publication.

For maps revised by GS, GS will furnish FS a prepublication color composite for review. FS will return annotated composite to the Mapping Center where corrections, as appropriate, will be made prior to transmittal for publication.

A monochrome composite (paper print) of all map separate compilations of each agency will be exchanged.

## 10. Reproduction Materials Prepared by FS

For maps revised by FS, FS will duplicate and retain a set of film reproducibles for FS use and return all original color-separation drawings and revised color-separation drawings to the appropriate GS Mapping Center. Such materials will be suitable for GS publication. FS will also return to GS source data and related materials used in the revision project. Features required by FS and not standard on GS maps will be shown on separate drawings for retention by FS.

## 11. Reproduction Materials Prepared by GS

For maps revised by GS, GS will furnish FS a duplicate set of film reproducibles, or film composite, as required for retention by FS. GS will be responsible for sending the revised reproducibles to the GS Branch of Printing for standard GS publication and distribution. Features required by GS but not standard on FS maps will be shown on separate drawings for retention by GS.

## 12. Correction File

79-SIE-005-01

USDA Forest Service  
Page 22 of 26

**1531.42h - Cooperative Management of Joint Projects Related to Remote Sensing and  
Geologic Information Systems Technology**

86-SIE-002

INTERAGENCY AGREEMENT NUMBER  
between  
U.S. Department of the Interior (USDI)  
Geological Survey  
and  
U.S. Department of Agriculture (USDA)  
Forest Service

This INTERAGENCY AGREEMENT, made and entered into by and between the USDI Geological Survey, hereinafter referred to as USGS, and the USDA Forest Service, hereinafter referred to as the FOREST SERVICE, under the provisions of 31 USC 1535, the Economy Act of 1932, as amended.

WITNESSETH:

WHEREAS, the Organic Act of 1879 established the USGS and directs it to investigate and classify public lands, and examine geologic structure, mineral resources, and products of the national domain; and,

WHEREAS, the Organic Act of 1897 established the FOREST SERVICE for the purpose and intent to protect and manage lands set aside and reserved as National Forests; and,

WHEREAS, the USGS's National Mapping Division has responsibility for topographic and land use/land cover mapping of the United States; and,

WHEREAS, the Forest and Rangeland Renewable Resources Planning Act (RPA) of 1974, and the National Forest Management Act (NFMA) of 1976 provide for new timber management authorities and a coordinated land management planning process that requires the development and revision of land management plans for the National Forest System; and,

WHEREAS, the Earth Resources Observation Systems (EROS) Program of the USGS was established in 1966 by Secretarial Order (Department of the Interior) to stimulate and promote utilization of remote sensing and geo-data processing technology within the Department of the Interior and to develop, demonstrate, and encourage cooperative projects with State and Federal Government agencies; and,

WHEREAS, the USGS and the FOREST SERVICE, through the 5-agency Ad Hoc Committee and Interagency Agreement of 1978, are committed to cooperate in the exchange of resource information; and,

WHEREAS, the FOREST SERVICE is mandated by RPA and NFMA to provide national multi-resource inventories; and,

WHEREAS, the FOREST SERVICE and USGS desire to cooperate in efforts associated with such inventories using remotely sensed data, topographic data, digitized thematic data, and computer-assisted image and spatial resource data processing, and to reduce or share costs associated with the use of such data in the inventory of national renewable resources; and,

WHEREAS, it is advantageous to the parties herein that the work required be accomplished cooperatively to eliminate duplication of effort and provide for more comprehensive and consistent data files while simultaneously satisfying the legislative mandates for the FOREST SERVICE and USGS;

NOW THEREFORE, in consideration of the above premises, both parties hereto agree as follows:

1. All cooperative project work between USGS and the FOREST SERVICE related to remote sensing and geographic information systems shall be completed under this Agreement.
2. Project approvals shall be signed as follows:  
USGS - Chief, National Mapping Division (or designate) FOREST SERVICE - WO Staff Director, Engineering (or designate)
3. Responsibilities for individual projects will be outlined and agreed to by both parties prior to beginning work. Project work plans shall contain, at a minimum, the items shown in Appendix A.
4. Funding responsibilities shall be an integral part of each project work plan.

IT IS MUTUALLY AGREED THAT:

1. Nothing herein shall obligate the FOREST SERVICE or USGS to expend money in excess of appropriations by law and administratively allocated for this work.
2. This Agreement shall be effective upon signature by both Agencies and shall continue until either party terminates the Agreement, or any part thereof, by providing 60 days' written notice to the other party. If terminated by either party, all work in progress will be completed and paid for to effect the cancellation of the Agreement.



IN WITNESS WHEREOF, the parties hereto have executed this Agreement.

March 11, 1986

Date

                    /s/

DALLAS L. PECK, Director  
Geological Survey, USDI

March 28, 1986

Date

                    /s/

R. MAX PETERSON, Chief  
Forest Service, USDA

## APPENDIX A

### Project Work Plan Outline

This project is being executed under Interagency Agreement Number 86-SIE-002 between the USDA Forest Service and the USDI Geological Survey.

- A. Project Name and Description
- B. Project Objective
- C. USGS Responsibilities (USGS shall:)
- D. Forest Service Responsibilities (Forest Service shall:)
- E. Technical Contacts
- F. Billing Procedures

#### PROJECT APPROVAL:

Chief, National Mapping Division

Director, Washington Office  
Engineering Staff