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Volume 2

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Appendix J – Cumulative Effects

Appendix K – Watershed Strategies for FS/EPA/ODEQ Non-Point Source Pollution Strategy, BMP Implementation, and TMDL/WQRP Requirements

Appendix L – Review of Water Quality Restoration Plan (WQRP) Components

List of Changes Made Between Draft EIS and Final EIS (summaries also located on the backside of section divider sheets)

A number of changes, corrections, and clarifications to the Flagtail Fire Recovery Project Draft Environmental Impact Statement have been made based on public comments and further analysis. The most notable changes are summarized by chapter below and on the backside of section divider sheets. Minor edits and corrections are not included in this list.

Chapter 1

- The document structure description was updated to reflect the division of the document into two volumes. Volume 1 contains Chapters 1 through 6, the index and the Map Section; Volume 2 contains the appendices.
- The results of monitoring of Flagtail Fire rehabilitation efforts was added under Background.
- The Upper Silvies Watershed Analysis was referred to for existing conditions pre-fire and some desired conditions.
- Existing condition summaries were updated from new information incorporated into Chapter 3. The Fuels section clarified that parts of the Flagtail Project Area are a Wildland Urban Interface. Figure 3 (Map Section) was modified to display the location of 303(d) listed streams in the vicinity of the Flagtail Project area.
- The purpose and design of the proposed action (Alternative 2) was corrected to match the purpose and design of the alternative as described in Chapter 2.
- The proposed action (Alternative 2) was adjusted to incorporate new data – some units were dropped out of the proposal because they were economically unviable.
- In Chapter 3 the DEIS acknowledged that to implement Alternative 2 a second non-significant Forest Plan Amendment would be required allowing a short-term reduction in Visual Quality Objective. A description of this amendment was added to Alternative 2 to highlight the need for this amendment.
- Fire recovery projects originally listed in “Actions Outside of this EIS to Address Recovery Needs” that have begun have been updated and moved from that section to the Background- Additional Fire Recovery Projects Ongoing or Completed Section, to reflect their change in status.
- The Public Involvement and Coordination with Other Governments and Agencies sections were updated to reflect recent scoping efforts.
- Visual Quality was elevated from Other Analysis Issues to a Key Issue based on analysis conducted between Draft and Final EIS, and to be responsive to public involvement. The soils issue was reworded to be more descriptive.
- Issues and responses relating to Special Uses/Forest Road Development Agreement and Plant Diversity were added to the Other Analysis Issues section; other responses were updated.
- The National Fire Plan, and a discussion of related strategies and plans was added to the Laws and Regulations section

Chapter 2

- Four potential alternatives were added to Alternatives Considered but Eliminated from Detailed Study, and two alternatives were combined (harvest in aspen and harvest in RHCA); the reasons for elimination are discussed there.
- Alternative 5 was added to be responsive to comments about dead wood habitats.
- Action Alternatives 2 and 3 were adjusted to incorporate new data – some units in both alternatives were dropped out because they were economically unviable; in Alternative 3 the areas designated for black-backed woodpecker were shifted to provide the highest quality habitat, and were exchanged for units that were originally analyzed under Alternative 2. Planting methods (spacing and species to plant) was clarified. Fuels treatment inside and outside harvest units was adjusted based on new data. Temporary road building was reduced in Alternative 2 and 3 due to dropped units. Timber volumes were recalculated and expressed as net volume instead of gross volume. Tables 2-1, 2-2, and 2-3 were updated.
- Minor changes were made to action alternatives: post and pole removal of fuels in 4 units (Alts. 2, 3), and fuels reduction of non-commercial sized hazard trees (Alts 2, 3, 4); descriptions of these activities and clarification of utilization standards and snag distribution have been added to the alternatives.
- In Chapter 3 the DEIS acknowledged that to implement Alternative 2 a second non-significant Forest Plan Amendment would be required allowing a short-term reduction in Visual Quality Objective. A description of this amendment was added to Alternative 2 to highlight the need for this amendment.
- The Management Requirements, Constraints, and Mitigation Measures section was updated to be responsive to external and internal comments. Many Management Requirements and Mitigation Measures were added, modified, or replaced.
- In the descriptions of alternatives and Table 2-1, access information was reported only in the Flagtail Fire area (to better reflect that most of the access changes are occurring within the Flagtail Fire boundary).
- Noxious weed monitoring will be continued as described by BAER (Appendix I), but was removed from the monitoring section because it is not considered to be implementation monitoring; seed monitoring and goshawk monitoring were added to the monitoring section.
- A Project Schedule was added (Table 2-4).
- The Preferred Alternative was identified as Alternative 5; this is a change from the DEIS which identified Alternative 3 as the Preferred Alternative.

Chapter 3

- Existing conditions were updated with additional information: in Fire and Fuels, fire hazard and fire risk descriptions were added; in Wildlife, additional stand exams were conducted to provide more accurate snag data, and details on wildlife species presence/absence was added; additional information on roads was added to the Watershed Sediment discussion; the visual corridor discussion in Scenery was expanded; in Botany the weed data and analysis was updated based on recent monitoring; Heritage data was updated based on recent surveys.
- In the Roads/Access section, haul route information and analysis was supplemented with access information inside the Flagtail Fire area (to better reflect that most access changes are occurring in the Flagtail Fire boundary).
- The Malheur mottled sculpin, was inadvertently described in the DEIS as an MIS species. It is not an MIS, but it is a sensitive species. In the FEIS the Malheur mottled sculpin is analyzed as a sensitive not a MIS species.
- All resources effects analyses (Environmental Consequences sections) were updated to include the effects of adjustments in Alternatives 2, 3, and 4, the effects of adjustments in Management Requirements and Mitigation Measures, and the effects of Alternative 5.
- In Fire and Fuels, fire regime and condition class discussions were updated with additional information and refined. Percent of area within Fire Regimes was updated due to updated information.
- Information was added to the Soils Section: 2003 field observations (also in Chapter 4 response to comments) and a paragraph about effects on nitrogen fixation.
- Water Erosion Prediction Project (WEPP) modeling was completed to quantify the effects of all alternatives. Results of WEPP are displayed in the Soils section and considered in Soils, Watershed, and Fisheries sections.
- In Wildlife, DecAID inventory data was used in addition to woodpecker use levels to compare effects of alternatives on woodpeckers. Large down wood has been evaluated based on DecAID snag distributions instead of tolerance levels and snag gap discussion was reviewed and updated
- Additional alternative comparison tables were added to the Wildlife, Fisheries, and Scenery Environmental Consequences sections.
- Resource effects of roads and road use were added, updated, or expanded in the Wildlife, Soils, Watershed, and Fisheries sections. Road information in the project area and entire subwatersheds was recalculated and clarified in Fisheries and Watershed sections.
- The Botany and Heritage analyses were updated based on monitoring and surveys done in 2003. “Unavailable Information” was deleted in Botany because the BE has been completed and is incorporated into Appendix I.
- The values in Socio-economics were recalculated due to errors in the original analysis and to reflect more accurate field information. Present net values now reflect negative dollar values.
- All resources cumulative effects analyses were updated and now refer to activities described in the Cumulative Effects Appendix (Appendix J).
- The Issues Relating to the Beschta Report (1995) in Other Disclosures was modified.
- A section titled “Unroaded” was added to Other Disclosures in response to comments on roadless areas.

Chapter 4

- The List of Preparers was updated and additional information about EIS preparers was added.
- The distribution list for the FEIS was updated.
- The Public Involvement Summary was added to this section from Chapter 1.
- Comments received on the DEIS and Agency response were added.

Chapter 5

- Citations for additional references used in the FEIS were added to the Bibliography. Some citations were revised.

Chapter 6

- Additional words and their definitions were added to the Glossary.

Map Section

- Maps added for Alternative 5 and to provide additional resource information.
- Maps renumbered to allow Alternative 5 maps to follow other alternatives.

Index

- Page numbers of topics have been updated.

Appendices

App. A - Units in Alternatives 2 and 3 were adjusted to incorporate new data – some units in both alternatives were dropped out because they were economically unviable; in Alternative 3 the areas designated for black-backed woodpecker were shifted to provide the highest quality habitat.

- Unit data for Alternative 5 was added.
- Net volumes were added to Alternatives 2 and 3, and are displayed for Alternative 5.

App. B – The paper Scott et al. 2002 has been replaced with the Marking Guide from the silvicultural prescription. Marking Guide is based on Scott et al. 2002 as modified by their field research in 2003.

App. C – Roads analyzed in Roads Analysis, but inadvertently left out of the road table were added to Table C-1.

App. D – The Wildlife Biological Evaluation was updated, including adding the effects of Alternative 5, and updating cumulative effects.

App. E – The remainder of the draft Summit sediment report was added. The table of Expected Soil Conditions After Proposed Activities was updated to reflect revised mitigation measures and Alternative 5 was added; proposed temporary roads were added to the estimate

of effects; estimates of effects in Alternatives 2 and 3 were corrected – since these were minor corrections, no conclusions were changed. Four sections were added to Appendix E- soil hazard ratings, concise soil descriptions, soil types and burn severity by unit, and subsoiling suitability.

App. G – The Biological Evaluation for Threatened, Endangered, and Sensitive (PETS) Fish was updated, including adding the effects of Alternative 5. Changes made in Chapter 3 were incorporated into the BE (see list of Changes at the beginning of Chapter 3).

App. H – Appendix H was updated to reflect revised post-fire grazing guidelines.

App. I – One section was added to this appendix the Sensitive Plant Biological Evaluation (BE).

App. J – Appendix J (Cumulative Effects) was added to the document.

App. K - Appendix K (Watershed Strategies) was added to the document.

App. L - Appendix L (Review of Water Quality Restoration Plan (WQRP) Components) was added to the document.