

**Resolution Copper Project and Land Exchange
Environmental Impact Statement**

USDA Forest Service
Tonto National Forest
Arizona

June 3, 2019

Process Memorandum to File

Forest Plan Consistency Review

This document is deliberative and is prepared by the third-party contractor in compliance with the National Environmental Policy Act and other laws, regulations, and policies to document ongoing process and analysis steps. This document does not take the place of any Line Officer's decision space related to this project.

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Purpose of Process Memorandum

The Tonto National Forest Land and Resource Management Plan (forest plan; 1985) as amended through 2017, contains a variety of components that, in their entirety, provide overarching direction for managing resources and lands on the Tonto National Forest (TNF). Some plan components are aspirational in nature, describing concepts towards which management should strive. Other plan components provide specific direction with which compliance is non-discretionary. Failure to comply with these non-discretionary components requires that the plan be amended, or the project modified.

The purpose of this process memorandum is to describe the process by which the proposed project and alternatives were reviewed for consistency with the 1985 forest plan. The following sections provide a background on the forest plan components, forest plan and proposed project assumptions made prior to completing the consistency review, and the review methodology. Appendix A to this memorandum contains the full forest plan review, including applicable forest plan components and the rationale for requiring or not requiring a plan amendment.

Key Process Steps

Assumptions

Prior to completing the consistency review, several assumptions were made regarding the applicability of the forest plan to the proposed project:

- By the time the Final Record of Decision (ROD) is signed that would finalize a forest plan amendment, the Oak Flat Federal Parcel will no longer be part of the TNF. Therefore, future activities on the Oak Flat Federal Parcel do not need to be considered.
- However, the overall loss of 2,422 acres from the TNF would need to be considered.
- The offered lands going to the Tonto National Forest need to be considered. The offered lands going to the Coconino National Forest do not need to be considered, and the offered lands going to the Bureau of Land Management do not need to be considered.
- The potential requirements for an amendment would differ by alternative, and the specific project components considered for the amendment would differ substantially (see “Project Components Considered” below).
- The forest plan guides management of forest resources. The proposed project components were considered over the short term (construction) and long term (operations and maintenance, closure and reclamation, and post-closure).

Plan Components

Following are descriptions of various plan components considered in this review and whether they are considered to be discretionary or non-discretionary for the purposes of determining forest plan compliance. Each one is accompanied by the questions to be asked to determine the need for an amendment.

Mission Statement

- A mission is a guiding principle toward which all activities focus and contribute. These mission statements are forest-wide in concept.
 - *Does the project preclude achieving the mission statement on a forest-wide basis (i.e., the project would change conditions or outcomes to the degree that the mission statement would no longer be achievable across the Forest as a whole)?*
 - *If the answer is no, an amendment is not needed.*

Forest-Wide Goals

- Goals are a “concise statement of the state or condition that a land and resource management plan is designed to achieve. A goal is usually not quantifiable and may not have a specific date for completion” (36 Code of Federal Regulations [CFR] 219.3). These goal statements are forest-wide in concept.
 - *Does the project preclude achieving the goal statement on a forest-wide basis?*
 - *If the answer is no, an amendment is not needed.*

Forest-Wide Objectives

- An objective is a “specific statement of measurable results to be achieved within a stated time period” (36 CFR 219.3(w)). Forest objectives are quantitative. They are time-oriented outputs associated with a given budget level. Objectives are needed to meet missions and goals.
 - *Does the project preclude the ability to meet missions and goals on a forest-wide basis?*
 - *If the answer is no, an amendment is not needed.*
 - *If the answer is yes, what specific change to the objective is needed to allow the project to comply with the objective?*
 - *Does changing the objective to address this project have consequences for future projects?*

Forest-Wide Standards and Guidelines

- Standards and guidelines are typically non-discretionary in nature. They typically provide management direction that must be met. However, for standards and guidelines that are applicable on a forest-wide basis, one must consider whether a noncompliant project would result in a change or impact that is great enough to render the standard and guideline moot on a forest-wide basis.
 - *Does the project bring into question the applicability of the standard and guideline on a forest-wide basis?*
 - *If the answer is no, an amendment is not needed.*
 - *If the answer is yes:*
 - *Is there a way to change the project itself, through design or mitigation, to recover the forest-wide applicability of the standard and guideline?*
 - *What specific change to the standard and guideline is needed to allow the project to comply with the standard and guideline?*
 - *Does changing the forest-wide standard and guideline to address this project have consequences for future projects?*

Management Area Standards and Guidelines

- Management area standards and guidelines are nondiscretionary for all activities within the boundaries of the management area.
 - *Does the project bring into question the applicability of the standard and guideline within the entire management area?*
 - *If the answer is no, an amendment is not needed.*
 - *If the answer is yes:*
 - *Is there a way to change the project itself, through design or mitigation, to recover the forest-wide applicability of the standard and guideline?*
 - *What specific change to the standard and guideline is needed to allow the project to comply with the standard and guideline?*
 - *Does changing the forest-wide standard and guideline to address this project have consequences for future projects?*

Project Components Considered

Alternatives 2 and 3 (Near West)

- Power line upgrades [Management Area (MA) 2F]
- Magma Arizona Railroad Company (MARRCO) corridor upgrades [MA 2F and 3I]
- Slurry pipelines to tailings facility [MA 2F]
- Tailings facility at Near West [MA 2F and 3I]
- Loss of 2,422 acres from TNF [MA 2F]
- U.S. Forest Service (Forest Service) road upgrades and decommissioning [MA 2F and 3I]
- Borrow pit [MA 2F]
- Addition of Cave Creek (TNF), Tangle Creek (TNF), and Turkey Creek (TNF) parcels. [Specific management areas yet to be determined]

Alternative 4 (Silver King)

- Power line upgrades [MA 2F]
- MARRCO corridor upgrades [MA 2F and 3I]
- Tailings facility at Silver King [MA 2F]
- Slurry pipelines [MA 2F]
- Forest Service road upgrades and decommissioning [MA 2F and 3I]
- Borrow pit [MA 2F]
- Loss of 2,422 acres from TNF [MA 2F]
- Addition of Cave Creek (TNF), Tangle Creek (TNF), and Turkey Creek (TNF) parcels. [Specific management areas yet to be determined]

Alternative 5 (Peg Leg)

- Power line upgrades [MA 2F]
- MARRCO corridor upgrades [MA 2F and 3I]
- Pipeline corridor (west or east) [MA 2F]
- Forest Service road upgrades and decommissioning [MA 2F and 3I]
- Loss of 2,422 acres from TNF [MA 2F]
- Addition of Cave Creek (TNF), Tangle Creek (TNF), and Turkey Creek (TNF) parcels. [Specific management areas yet to be determined]

Alternative 6 (Skunk Camp)

- Power line upgrades [MA 2F]
- MARRCO corridor upgrades [MA 2F and 3I]
- Pipeline corridor (north or south) [MA 2F]
- Forest Service road upgrades and decommissioning [MA 2F and 3I]
- Loss of 2,422 acres from TNF [MA 2F]
- Addition of Cave Creek (TNF), Tangle Creek (TNF), and Turkey Creek (TNF) parcels. [Specific management areas yet to be determined]

Methodology

The forest plan consistency review was completed in a multi-step process:

1. Identification of applicable forest plan components
 - The 1985 forest plan, as amended through 2017, was reviewed to identify any mission, objectives, forest-wide standards and guidelines, and management area-specific standards and guidelines that are applicable to the proposed project components (see “Project Components Considered” above).
2. Review of project components to determine if a project-specific amendment would be required
 - The applicable forest plan components were reviewed to identify inconsistencies with the proposed project components (see “Plan Components” above).
3. Determine how each inconsistent forest plan component would need to change
 - Where inconsistencies are identified, determine how the forest plan component would need to change and provide proposed amendment language.

Key Findings

- The full text of the forest plan consistency review is provided in Appendix A.

- The TNF mission, goals, and objectives are discretionary in nature. Approval of the proposed project components would not preclude the ability of the TNF to meet the forest plan's missions, goals, and objectives on a forest-wide basis.
- A total of 184 forest plan components were identified as applicable to the proposed project components. The number of applicable forest plan components for each environmental impact statement (EIS) resource section is listed below (note that one forest plan component may apply to more than one EIS resource section):
 - Geology, Minerals, and Subsidence: 5
 - Soils and Vegetation: 48
 - Soils: 15
 - Vegetation: 33
 - Noise and Vibration: 0
 - Transportation and Access: 12
 - Air Quality: 1
 - Water: 38
 - Groundwater: 16
 - Surface Water: 22
 - Wildlife: 37
 - Recreation: 18
 - Public Health and Safety: 30
 - Tailings and Pipeline Safety: 0
 - Fuels and Fire Management: 30
 - Hazardous Materials: 0
 - Scenic Resources: 6
 - Cultural Resources: 10
 - Socioeconomics: 0
 - Tribal Values and Concerns: 0
 - Environmental Justice: 0
 - Livestock and Grazing: 13
- Some project components, as originally proposed, would be inconsistent with several applicable forest plan components. These include, but are not limited to, forest-wide and management area standards and guidelines for cultural resources, vegetation, wildlife, surface water and groundwater, engineering, recreation, and scenery. With the implementation of proposed mitigation and monitoring plan actions (see EIS appendix J), the proposed project components would be consistent with nearly all applicable forest-wide and management area standards and guidelines.
- Under any alternative, the project would result in a degradation of portions of the existing Visual Quality Objective (VQO) and recreation opportunity spectrum (ROS) classes within the project area. A project-specific forest plan amendment is required to adjust the desired proportion by VQO and ROS class that should be managed for within each management area.

Summary and Conclusions

The outcomes of the 1985 forest plan consistency review indicate that a project-specific forest plan amendment is required under all alternatives to reconcile the VQO and ROS management classes for two standards and guidelines in MA 2F and two standards and guidelines in MA 3I. Table 1 summarizes the required forest plan amendments.

Table 1. Forest Plan Amendments for the Resolution Copper Project and Land Exchange

Forest Plan Section	Page Number	Existing Forest Plan	Proposed Forest Plan Amendment
Section 4. Management Direction Management Prescriptions – Globe Ranger District (Management Area 2F)	85	Manage for the VQOs ranging from "Retention" to "Maximum Modification" according to the following guidelines: Retention = 8%, Partial Retention = 24%, Modification = 34%, and Maximum Modification = 34%.	Manage for the VQOs ranging from "Retention" to "Maximum Modification" according to the following guidelines: Retention = 9%, Partial Retention = 35%, Modification = 31%, Maximum Modification = 21%, and Not Rated = 4%.
Section 4. Management Direction Management Prescriptions – Globe Ranger District (Management Area 2F)	86	Manage ROS Classes (see Appendix E) according to existing inventory as follows: Semi-Primitive = 35%, Semi-Primitive Motorized = 39%, Roaded Natural = 24%, Rural = 1%, and Urban = 1%.	Manage ROS Classes (see Appendix E) according to existing inventory as follows: Semi-Primitive = 17%, Semi-Primitive Motorized = 55%, Roaded Natural = 23%, Rural = 2%, and Urban = 3%.
Section 4. Management Direction Management Prescriptions – Mesa Ranger District (Management Area 3I)	112	Manage for VQOs ranging from "Retention" to "Maximum Modification" according to the following guidelines: Retention = 15%, Partial Retention = 40%, Modification = 35%, and Maximum Modification = 10%.	Manage for VQOs ranging from "Retention" to "Maximum Modification" according to the following guidelines: Retention = 23%, Partial Retention = 45%, Modification = 27%, Maximum Modification = 2%, and Not Rated = 3%.
Section 4. Management Direction Management Prescriptions – Mesa Ranger District (Management Area 3I)	113	Manage ROS Classes (see Appendix E) according to existing inventory as follows: Primitive = 1%, Semi-Primitive = 42%, Semi-Primitive Motorized = 36%, Roaded Natural = 21%.	Manage ROS Classes (see Appendix E) according to existing inventory as follows: Semi-Primitive = 26%, Semi-Primitive Motorized = 48%, Roaded Natural = 26%, Rural = 0%, and Urban = 0%.

Appendix A – Detailed Review of Forest Plan

Forest-Wide Mission and Goals

Forest Plan Section	Page Number	Resource	Forest Plan Text	Applicable? (Y/N)	Requires Amendment? (Y/N)	Rationale
Section 4. Management Direction Mission	19	Multiple	The mission of the Tonto National Forest is to meet recurring stewardship responsibilities for National Forest lands and resources by: Providing a continuing supply of quality water for National Forest and downstream needs; providing a quality mix of year-round outdoor recreation experience opportunities for personal enjoyment ranging from develop recreation sites to wilderness experiences; archaeological investigation and interpretation; promoting quality wildlife and fish habitat, including preserving habitat for known Threatened and Endangered species; providing for grazing of domestic livestock; providing for the utilization of timber, minerals, and special land uses in a manner that is compatible with other resource production and use, while assuring wise management of cultural and visual resources; expanding public understanding of the environment and resource programs; and coordinating activities with interested City, County, State, and other Federal agencies as well as with individuals and groups.	Yes	No	Missions, goals, and objectives of the forest plan are aspirational in nature and applied on a forest-wide basis. The land exchange (removal of the 2,400-acre Oak Flat Federal Parcel from the National Forest System) amounts to less than 0.1 percent of the 2.8 million acres of the Tonto National Forest. When combined with acreage impacted by the various tailings alternatives that involve Tonto National Forest lands (Alternatives 2, 3, and 4), the change still amounts to less than 0.2 percent of the Tonto National Forest. The magnitude of potential effects would not affect the overall management direction on a forest-wide basis.
Section 4. Management Direction Goals	19	Multiple	By the end of Period 5, the Tonto National Forest is attempting to achieve a management situation that can respond to local or national demands for wood products, livestock production, water yield and a wide mix of recreation opportunities, including wildlife-related uses, that range from the primitive to the urban end of the spectrum. The goal is to produce these outputs and opportunities on a sustained basis while maintaining air, soil, and water resources at or above minimum local, State, or Federal standards. Levels of output and use opportunities would be adjusted so they are within long-term supply potentials, and to ensure the impact on cultural, visual, wildlife, and vegetative resources can be mitigated to protect these resources for future management options. Activities related to mineral development and public utility needs would be permitted within the framework of existing laws and environmental concerns.	Yes	No	
Section 4. Management Direction Goals	19	Multiple	The intent of management is to promote dependent user stability through direct supply of products such as wood and forage and to provide community stability and enjoyment through the direct or indirect supply of products and other opportunities.	Yes	No	
Section 4. Management Direction Goals	19 / 20	Soil, Water, and Air Quality	Provide direction and support to all resource management activities to (1) meet minimum air and water quality standards, (2) emphasize improvement of soil productivity, air and water quality, (3) augment water supplies when compatible with other resources, (4) enhance riparian ecosystems, by improved management. All major riparian areas under intensive management by 1995, (5) obtain water rights necessary to ensure orderly resource development, and (6) inventory and interpret soil, air and water resources. Resource planning and management activities within the desert zone must fully recognize the limitations this unique ecosystem has to the impacts of man's uses and activities.	Yes	No	
Section 4. Management Direction Goals	20	Soil and Water	The standards and guidelines for conservation of soil and water resources; protection and treatment of streams, streambanks, shorelines, lakes, wetlands, and other water bodies are found in the Regional Guide; Region 3 TE Note 23 and Hydrology Notes 11 and 14; and individual management prescriptions. The majority of the specific standards and guidelines are in the forest-wide prescription decision units 33, 34, 63, 45, 48, 62, 51 and activities F01, F02, F03, F04, F05, K01, K03, K04, K05, K06. Some individual management area prescriptions contain additional specific standards and guidelines in these decision units and activities.	Yes	No	

Forest Plan Section	Page Number	Resource	Forest Plan Text	Applicable? (Y/N)	Requires Amendment? (Y/N)	Rationale
Section 4. Management Direction Goals	20	Air Quality	Standards and guidelines for air quality are found in the Regional Guide, and individual management prescriptions under decision units 2 and 3 and activities A03, P16, and P17.	Yes	No	
Section 4. Management Direction Goals Section 4. Management Direction Goals	20	Protection (Fire)	<u>Fire Management</u> - Fire will be recognized as a resource management tool and will be included within a management prescription where it can effectively accomplish resource management objectives. The long term goal of fire management is to re-introduce fire back into fire dependent ecosystems, and allow it to resume its natural role. The priorities for managing wildland fire will be the protection of public and firefighter safety, property, natural and cultural resources to minimize negative impacts. Fire management, including suppression activities, will be commensurate with resource values and objectives. The criteria for determining and managing Wildland and Prescribed Fires must meet agency direction.	No	No	
Section 4. Management Direction Goals	20	Protection (Fire)	<u>Wildland Fire</u> - Wildland Fire will be managed regardless of Wilderness area and agency boundaries as determined by resource and/or Wilderness objectives identified in a Wildland Fire Implementation Plan.	No	No	
Section 4. Management Direction Goals	20	Protection (Fire)	<u>Prescribed Fire</u> - In areas where it is not possible to allow fire to fully resume its natural role within an ecosystem, Prescribed Fire will be applied to meet management objectives.	Yes	No	
Section 4. Management Direction Goals	20	Protection (Fire)	<u>Wildland/Urban Interface</u> - Wildland Fires in the Interface pose an immediate threat to life, property, and adjacent resources.	Yes	No	
Section 4. Management Direction Goals	20	Protection (Fire)	Actively participate with all interested and potentially affected parties to develop strategic Interface management measures to reduce Wildland Fire threats to life, property and resources, address issues of Forest health, and provide for community partnerships including treatments of vegetation and fuels, and access needs.	Yes	No	
Section 4. Management Direction Goals	20	Protection (Fire)	Wildland Fires threatening the Wildland/Urban Interface will have high suppression priority.	Yes	No	
Section 4. Management Direction Goals	20	Protection (Pest Management)	<u>Pest Management</u> - Through Integrated Pest Management (IPM), manage resources to prevent a build-up of insects and diseases to prevent or reduce serious, long lasting hazards.	Yes	No	
Section 4. Management Direction Goals	20	Protection (Fire and Pests)	Specific standards and guidelines can be found in the prescriptions in decision units 56, 61 and activities P08, P09, P11, P12, P13, P14, P15, P34, P35, and P39.	Yes	No	
Section 4. Management Direction Goals	21	Wildlife and Fish	Wildlife and fish habitat elements will be recognized in all resource planning and management activities to assure coordination that provides for species diversity and greater wildlife and fish populations through improvement of habitat. Ensure that fish and wildlife habitats are managed to maintain viable populations of existing native vertebrate species. Improve habitat for selected species. Cooperate with appropriate State Fish and Wildlife agencies. Prevent destruction or adverse modification of critical habitats for Threatened and Endangered species and manage for a goal of increasing population levels that will remove them from the lists.	Yes	No	

Forest Plan Section	Page Number	Resource	Forest Plan Text	Applicable? (Y/N)	Requires Amendment? (Y/N)	Rationale
Section 4. Management Direction	21	Transportation and Utility	Provide that rights-of-way grants are confined to designated corridors to the extent practicable.	Yes	No	
Goals						
Section 4. Management Direction	20-1	Wildlife and Fish	Specific standards and guidelines are found in individual management area prescriptions under decision units 11, 12, 14, 14, 61, 19, 20 and activities C01, C02, C06, C09, C12, C03, E00, and E03.	Yes	No	
Goals						
Section 4. Management Direction	21	Transportation and Administrative Facilities	Provide a serviceable road and trail transportation system to meet public access, land management, and resource protection needs. Provide administrative facilities to meet resource and activity needs and which meet pollution abatement standards where applicable.	Yes	No	
Goals						
Section 4. Management Direction	20-1	Transportation and Utility Corridors	Specific standards and guidelines are found in the Regional Guide, and in the forest-wide prescriptions and prescription 28 under decision units 39, 40, 41, 42, 43, 44 and activities J01, J02.	Yes	No	
Goals						
Section 4. Management Direction	20-1	Transportation and Utility Corridors	Specific standards and guidelines are found in the Regional Guide, and in the forest-wide prescriptions and prescription 28 under decision units 39, 40, 41, 42, 43, 44 and activities J01, J02.	Yes	No	
Goals						
Section 4. Management Direction	21	Transportation and Administrative Facilities	Specific standards and guidelines are found in the Regional Guide, and individual management area prescriptions under decision units 48, 51, 50, 52, 53 and activities L01, L02, L03, L04, L05, L06, L07, L08, L09, L10, L11, L12, L13, L16, L17, L18, L19, L20, L23, L24, L25	Yes	No	
Goals						
Section 4. Management Direction	21	Timber	On forested lands identified as suitable for commercial timber production, manage the timber resource to provide the full potential yield of quality timber on an sustained yield basis. Design of timber management activities will integrate considerations for water quality, soils, wildlife habitat, recreation opportunities, visual, and other values. Develop and implement a fuelwood management program for the Tonto National Forest.	No	No	
Goals						
Section 4. Management Direction	21	Timber	Specific standards and guidelines for utilization, restocking, openings, and coordination of manipulation of the vegetative resource are found in the Regional Guide, and individual management area prescriptions under decision units 12, 16, 17, 18, 19, 20, 21 and activities E00, E06, E07, C01, D03, E03, E05.	No	No	
Goals						
Section 4. Management Direction	21	Outdoor Recreation	Maintain and enhance visual resource values by emphasizing recreation resource management which will increase opportunities for a variety of developed and dispersed experiences. Provide those developed sites needed to meet most of the public demand and to support dispersed visitor use.	Yes	No	
Goals						
Section 4. Management Direction	21	Outdoor Recreation	Emphasize visual quality objectives in all resource planning and management activities.	Yes	No	
Goals						
Section 4. Management Direction	21	Outdoor Recreation	Conduct inventory, evaluation, nomination, management protection, scientific study, public interpretation, and enhancement of cultural resources in accordance with the management prescriptions, and objectives and priorities identified in Appendix H. Coordinate planning for these activities with the State Cultural Resource Plan, and planning activities of the State Historic Preservation Office, and with other State and Federal agencies.	Yes	No	
Goals						

Forest Plan Section	Page Number	Resource	Forest Plan Text	Applicable? (Y/N)	Requires Amendment? (Y/N)	Rationale
Section 4. Management Direction Goals	21	Outdoor Recreation	Specific standards and guidelines are found in individual management area prescriptions under decision units 1, 2, 3, 5, 6 and activities A01, A02, A03, A04, A05, A06, A07, A08, A10, A14, A16, A18, A21.	Yes	No	
Section 4. Management Direction Goals	21	Caves	Preserve and protect cave ecosystems as nonrenewable resources to maintain their geological, scenic, educational, cultural, biological, hydrological, paleontological, and recreational values.	Yes	No	
Section 4. Management Direction Goals	21	Caves	Specific standards and guidelines for cave management are found in management area prescriptions under decision units 1, 11, 36, 41 and activities A01, C01, C09, D01, E00, F01, G01, G02, J01, L04.	Yes	No	
Section 4. Management Direction Goals	21	Wilderness and Wild and Scenic Rivers	Emphasize a wilderness management program which is interdisciplinary in approach, and which is directed towards achieving the intent of the Wilderness Act of 1964 and FSM 2320.	No	No	
Section 4. Management Direction Goals	22	Wilderness and Wild and Scenic Rivers	Work cooperatively with the Coconino and Prescott National Forests to protect and enhance the specific outstandingly remarkable values within the designated Wild and Scenic segments of the Verde River. Protect its free-flowing condition and water quality.	No	No	
Section 4. Management Direction Goals	22	Wilderness and Wild and Scenic Rivers	Specific standards and guidelines are found in prescriptions for individual wilderness areas under decision units 2, 8 and activities A03, B01, B02. Specific standards and guidelines are found in prescriptions 3, 4, and 25 and the Comprehensive River Management Plan.	No	No	
Section 4. Management Direction Goals	22	Wilderness and Wild and Scenic Rivers	Specific standards and guidelines are found in prescriptions for individual wilderness areas under decision units 2, 8 and activities A03, B01, B02. Specific standards and guidelines are found in prescriptions 3, 4, and 25 and the Comprehensive River Management Plan.	No	No	
Section 4. Management Direction Goals	24	Range	The goal of the Forest Range Management Program is to bring the permitted grazing use in balance with the forage allocated for use by domestic livestock, and to have all allotments under appropriate levels of management during the third time period. This program recognizes the need for range analyses and production utilization studies to determine this balance, as well as opportunities to negotiate livestock number adjustments and range management strategies with permittees. Also incorporated into the process of balancing permitted grazing use with capacity are the social and economic needs of permittees. Scheduling of livestock adjustments must recognize the economic viability of each ranching operation. The time frame of actual accomplishment depends considerably on permittee willingness to implement proper management systems and level of range management funding for both operation and maintenance and range improvements.	No	No	
Section 4. Management Direction Goals	22	Range	Emphasize a program of range administration which will bring the range resource under proper management and improve range forage conditions. Investigate, control, minimize, and eliminate unauthorized livestock use as a priority range management job.	Yes	No	
Section 4. Management Direction Goals	22	Range	The recognizable benefit of this emphasis will be improved watershed condition, range forage improvement, wildlife habitat improvement, and visual quality enhancement.	Yes	No	

Forest Plan Section	Page Number	Resource	Forest Plan Text	Applicable? (Y/N)	Requires Amendment? (Y/N)	Rationale
Section 4. Management Direction	22	Range	Specific standards and guidelines are found in the prescriptions under decision units 16, 17, 18 and activities D01, D02, D03, D04, D05, D06.	Yes	No	
Goals						
Section 4. Management Direction	22	Lands	Use land ownership adjustment to accomplish resource management objectives. Post identifiable property boundaries.	Yes	No	
Goals						
Section 4. Management Direction	22	Lands	Allow the use of available National Forest lands for appropriate public or private interests consistent with National Forest policies.	No	No	
Goals						
Section 4. Management Direction	22	Lands	Resolve unauthorized occupancy and obtain needed rights-of-way.	No	No	
Goals						
Section 4. Management Direction	22	Lands	Specific standards and guidelines are found in the prescriptions under decision units 39, 40, 41, 42, 43, 44 and activities J01, J02, J03, J04, J05, J06, J07, J10, J11, J12, J13, J14, J15, J18, J29.	Yes	No	
Goals						
Section 4. Management Direction	22	Minerals	Support environmentally sound energy and minerals development.	Yes	No	
Goals						
Section 4. Management Direction	22	Minerals	Specific standards and guidelines are found in the Regional Guide and in the prescriptions under decision units 35, 36, 37, 42 and activities J04, G01, G05, G06, G02, G07, G08, G09.	Yes	No	
Goals						
Section 4. Management Direction	22	Law Enforcement	Cooperate with State and local law enforcement agencies in the protection of visitors and their property. Emphasize a high level of Forest Service law enforcement activities in areas of high recreation use and fuelwood production.	No	No	
Goals						
Section 4. Management Direction	22	Law Enforcement	Specific standards and guidelines are found in the prescriptions under decision unit 58, and activities P24, P25, P27.	No	No	
Goals						

Forest-Wide Objectives

Objectives for the Tonto National Forest are shown in the following tables. All tables are located in Appendix K.

Forest Plan Section	Page Number	Forest Plan Text (Appendix K)	Applicable? (Y/N)	Requires Amendment? (Y/N)	Rationale
Section 4. Management Direction Objectives (Appendix K)	Appendix K / 259	Table 2 - Lists program outputs, activities, and costs for the Tonto National Forest over the first fifty years. A comparison of RPA targets with Period 1 and 5 outputs can be found in Table 65 of the EIS.	Yes	No	Missions, goals, and objectives of the forest plan are aspirational in nature and applied on a forest-wide basis. The land exchange (removal of the 2,400-acre Oak Flat Federal Parcel from the National Forest System) amounts to less than 0.1 percent of the 2.8 million acres of the Tonto National Forest. When combined with acreage impacted by the various tailings alternatives that involve Tonto National Forest lands (Alternatives 2, 3, and 4), the change still amounts to less than 0.2 percent of the Tonto National Forest. The magnitude of potential effects would not affect the overall management direction on a forest-wide basis
Section 4. Management Direction Objectives (Appendix K)	Appendix K / 260	Table 3 - Existing Recreation Site Rehabilitation - Periods 1 and 2.	Yes	No	
Section 4. Management Direction Objectives (Appendix K)	Appendix K / 261	Table 4 - Schedule for Recreation Site Construction - Periods 3, 4, 5, and 6.	Yes	No	
Section 4. Management Direction Objectives (Appendix K)	Appendix K / 264	Table 5 - Trail Construction/Reconstruction Schedule - Periods 1 and 2.	No	No	
Section 4. Management Direction Objectives (Appendix K)	Appendix K / 265	Table 6 - Administrative Facilities Construction Schedule - Period 1.	No	No	
Section 4. Management Direction Objectives (Appendix K)	Appendix K / 266	Table 7 - Standard Vegetation Treatment Table	Yes	No	
Section 4. Management Direction Objectives (Appendix K)	Appendix K / 267	Table 8 - Timber Offering Schedule - Period 1.	No	No	
Section 4. Management Direction Objectives (Appendix K)	Appendix K / 268	Table 9 - Special Area Designations - Period 1.	No	No	
Section 4. Management Direction Objectives (Appendix K)	Appendix K / 268	Table 10 - Desired Vegetative Conditions - Period 5.	Yes	No	
Section 4. Management Direction Objectives (Appendix K)	Appendix K / 269	Table 11 - Predicted Population Trends of Management Indicator Species – Period 5.	Yes	No	
Section 4. Management Direction Objectives (Appendix K)	Appendix K / 270	Table 12 - Cultural Resources Management - Period 5.	Yes	No	

Forest-Wide Standards and Guidelines (Mexican Spotted Owl, Goshawk, Old Growth)

Forest-wide standards and guidelines specific to Mexican Spotted Owl (MSO), Goshawk, and old growth are grouped together below.

Forest Plan Section	Page Number	Resource	Forest Plan Text	Applicable? (Y/N)	Requires Amendment? (Y/N)	Rationale
Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	40	Vegetation	Until the forest plan is revised, allocate no less than 20 percent of each forested ecosystem management area to old growth as depicted in the table in Appendix L, page 271.	No	No	No old growth habitat or MSO habitat exists or would be impacted by the proposed project. Five raptor surveys have been conducted for portions of the proposed project area and alternatives, including survey of the Oak Flat Federal Parcel (2004), Oak Flat Federal Parcel and Devil's Canyon (2008), Oak Flat Federal Parcel, Devil's Canyon, and Mineral Creek (2011), Near West (2013), and Devil's Canyon, Mineral Creek, and Whitlow Ranch Dam (2016). Species specific surveys for goshawk were not determined to be necessary. No active goshawk nests occur within the project area, the nearest nests are located between 3 and 4 kilometers from the closest project component (depending on project alternative selected). Alternatives 2, 3, and 5 would not impact modeled habitat for goshawk, see section 3.8 in the EIS. Under Alternative 4, a small amount (545 acres) of modeled goshawk habitat would be impacted. Alternative 6 south pipeline option and north pipeline options would both impact a larger area of modeled goshawk habitat (9,962 acres). Within Alternatives 4 and 6, goshawk habitat is marginal. In Arizona, goshawks prefer mature forest habitats for breeding at elevations above 6,000 feet amsl. There are no mature forests in the project area, and generally, elevations are less than those described.
Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	40	Vegetation	In the long term, manage old growth in patterns that provide for a flow of functions and interactions at multiple scales across the landscape through time.	No	No	
Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	40	Vegetation	Allocations will consist of landscape percentages meeting old growth conditions and not specific acres.	No	No	
Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	40	Vegetation	All analyses should be at multiple scales - one scale above and one scale below the ecosystem management areas. The amount of old growth that can be provided and maintained will be evaluated at the ecosystem management area level and be based on forest type, site capability, and disturbance regimes.	No	No	
Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	40	Vegetation	Strive to create or sustain as much old growth compositional, structural, and functional flow as possible over time at multiple area scales. Seek to develop or retain old growth function on at least 20 percent of the naturally forested area by forest type in any landscape.	No	No	
Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	40	Vegetation	Use information about pre-European settlement conditions at the appropriate scales when considering the importance of various factors.	No	No	
Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	40	Vegetation & Wildlife	Consider the effects of spatial arrangement on old growth function, from groups to landscapes, including de facto allocations to old growth such as goshawk nest sites, Mexican spotted owl protected activity centers, sites protected for species behavior associated with old growth, wilderness, research natural areas, and other forest structures managed for old growth function.	No	No	
Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	40-1	Vegetation	In allocating old growth and making decisions about old growth management, use appropriate information about the relative risks to sustaining old growth function at the appropriate scales, due to natural and human-caused events.	No	No	

Forest Plan Section	Page Number	Resource	Forest Plan Text	Applicable? (Y/N)	Requires Amendment? (Y/N)	Rationale
Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	40-1	Vegetation	Use quantitative models at the appropriate scales when considering the importance of various factors. These models may include, but are not limited to: Forest Vegetation Simulator, BEHAVE, and FARSITE.	No	No	
Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	40-1	Vegetation	Forested sites should meet or exceed the structural attributes to be considered old growth in the five primary forest cover types in the southwest as depicted in the table in Appendix L, page 271.	No	No	
Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	40-1	Wildlife	(MSO) Provide three levels of habitat management: protected, restricted, and other forest and woodland types to achieve a diversity of habitat conditions across the landscape.	No	No	
Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	40-2	Vegetation & Wildlife	(MSO) Other forest and woodland types include all ponderosa pine, spruce-fir, woodland, and aspen forests outside protected and restricted areas.	No	No	
Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	40-2	Wildlife	(MSO) Breeding season is March 1 to August 31.	No	No	
Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	40-2	Wildlife	(MSO) Conduct surveys following Region 3 survey protocol	No	No	
Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	40-2	Wildlife	(MSO) Establish a protected activity center at all Mexican spotted owl sites located during surveys and all management territories established since 1989.	No	No	
Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	40-2	Wildlife	(MSO) In protected and restricted areas, when activities conducted in conformance with these standards and guidelines may adversely affect other threatened, endangered, or sensitive species or may conflict with other established recovery plans or conservation agreements; consult with the US Fish and Wildlife Service to resolve the conflict.	No	No	

Forest Plan Section	Page Number	Resource	Forest Plan Text	Applicable? (Y/N)	Requires Amendment? (Y/N)	Rationale
Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	40-2	Wildlife	(MSO) Limit human activity in protected activity centers during the breeding season.	No	No	
Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	40-2	Wildlife	(MSO) Monitor changes in owl populations and habitat needed for delisting.	No	No	
Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	40-2	Wildlife	(MSO) Protected Activity Centers: Delineate an area of not less than 600 acres around the activity center using boundaries of known habitat polygons and/or topographic features. Written justification for boundary delineation should be provided.	No	No	
Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	40-2	Wildlife	(MSO) Protected areas include delineated protected activity centers; mixed conifer and pine-oak forests with slopes greater than 40% where timber harvest has not occurred in the last 20 years; and reserved lands which include wilderness, research natural areas, wild and scenic rivers, and congressionally recognized wilderness study areas.	No	No	
Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	40-2	Wildlife	(MSO) Restricted areas include all mixed-conifer, pine-oak, and riparian-forests outside of protected areas.	No	No	
Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	40-2	Wildlife	(MSO) Survey all potential spotted owl areas including protected, restricted, and other forest and woodland types within an analysis area plus the area ½ mile beyond the perimeter of the proposed treatment area.	No	No	
Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	40-2	Timber, Vegetation & Wildlife	(MSO) Allow no timber harvest except for fire risk abatement in mixed conifer and pine-oak forests on slopes greater than 40% where timber harvest has not occurred in the last 20 years.	No	No	
Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	40-2	Timber, Vegetation & Wildlife	(MSO) Allow no timber harvest except for fuelwood and fire risk abatement in established protected activity centers. For protected activity centers destroyed by fire, windstorm, or other natural disaster, salvage timber harvest or declassification may be allowed after evaluation on a case-by- case basis in consultation with the US Fish and Wildlife Service.	No	No	

Forest Plan Section	Page Number	Resource	Forest Plan Text	Applicable? (Y/N)	Requires Amendment? (Y/N)	Rationale
Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	40-3	Fire and Fuels	(MSO) Treat fuel accumulations to abate fire risk: (1) Select for treatment 10% of the protected activity centers where nest sites are known in each recovery unit having high fire risk conditions. Also select another 10% of the protected activity centers where nest sites are known as a paired sample to serve as control areas. (2) Designate a 100-acre "no treatment" area around the known nest site of each selected protected activity center. Habitat in the no treatment area should be as similar as possible in structure and composition as that found in the activity center.	No	No	
Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	40-3	Wildlife	(MSO) Harvest fuelwood when it can be done in such a way that effects on the owl are minimized. Manage within the following limitations to minimize effects on the owl: (1) retain key forest species such as oak, (2) retain key habitat components such as snags and large downed logs, and (3) harvest conifers less than 9 inches in diameter only within those protected activity centers treated to abate fire risk as described below.	No	No	
Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	40-3	Wildlife	(MSO) Protected Activity Center boundaries should not overlap.	No	No	
Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	40-3	Wildlife	(MSO) Require bird guides to apply for and obtain a special use permit. A condition of the permit shall be that they obtain a subpermit under the U.S. Fish and Wildlife Service Master endangered species permit. The permit should stipulate the sites, dates, number of visits and maximum group size permissible.	No	No	
Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	40-3	Wildlife	(MSO) Submit protected activity center maps and descriptions to the recovery unit working group for comment as soon as possible after completion of surveys.	No	No	
Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	40-3	Wildlife	(MSO) The activity center is defined as the nest site. In the absence of a known nest, the activity center should be defined as a roost grove commonly used during breeding. In the absence of a known nest or roost, the activity center should be defined as the best nest/roost habitat.	No	No	
Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	40-3	Wildlife	(MSO) The Protected Activity Center boundary should enclose the best possible owl habitat configured in as compact a unit as possible, with the nest or activity center located near the center.	No	No	
Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	40-4	Vegetation & Wildlife	(MSO) Steep Slopes (Mixed conifer and pine-oak forests outside protected activity centers with slopes greater than 40% that have not been logged within the past 20 years): No seasonal restrictions apply.	No	No	

Forest Plan Section	Page Number	Resource	Forest Plan Text	Applicable? (Y/N)	Requires Amendment? (Y/N)	Rationale
Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	40-4	Fire and Fuels	(MSO) Continued from previous page. Treat fuel accumulations to abate fire risk: (3) Use combinations of thinning trees less than 9 inches in diameter, mechanical fuel treatment and prescribed fire to abate fire risk in the remainder of the selected protected activity center outside the 100-acre "no treatment" area. (4) Retain woody debris larger than 12 inches in diameter, snags, clumps of broad-leaved woody vegetation, and hardwood trees larger than 10 inches in diameter at the root collar. (5) Select and treat additional protected activity centers in 10% increments if monitoring of the initial sample shows there were no negative impacts or there were negative impacts which can be mitigated by modifying treatment methods. (6) Use light prescribed burns in nonselected protected activity centers on a case-by-case basis. Burning should avoid a 100-acre "no treatment" area around the activity center. Large woody debris, snags, clumps of broad-leaved woody vegetation should be retained and hardwood trees larger than 10 inches in diameter at the root collar. (7) Pre- and post-treatment monitoring should be conducted in all protected activity centers treated for fire risk abatement (See monitoring guidelines).	No	No	
Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	40-4	Fire and Fuels	(MSO) Treat fuel accumulations to abate fire risk: (1) Use combinations of thinning trees less than 9 inches in diameter, mechanical fuel removal, and prescribed fire. (2) Retain woody debris larger than 12 inches in diameter, snags, clumps of broad-leaved woody vegetation, and hardwood trees larger than 10 inches in diameter at the root collar. (3) Pre- and post-treatment monitoring should occur within all steep slopes treated for fire risk abatement (see monitoring guidelines).	No	No	
Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	40-4	Fire and Fuels	(MSO) Reserved Lands (Wilderness, Research Natural Areas, Wild and Scenic Rivers, and Congressionally Recognized Wilderness Study Areas): Allow prescribed fire where appropriate.	No	No	
Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	40-5	Vegetation & Wildlife	(MSO) Allow natural canopy gap processes to occur, thus producing horizontal variation in stand structure.	No	No	
Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	40-5	Vegetation & Wildlife	(MSO) Maintain all species of native trees in the landscape including early seral species.	No	No	
Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	40-5	Vegetation & Wildlife	(MSO) Mixed Conifer and Pine-oak Forests (See glossary definition): Manage to ensure a sustained level of owl nest/roost habitat well distributed across the landscape. Create replacement owl nest/roost habitat where appropriate while providing a diversity of stand conditions across the landscape to ensure habitat for a diversity of prey species.	No	No	

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Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	40-5	Wildlife	(MSO) Attempt to mimic natural disturbance patterns by incorporating natural variation, such as irregular tree spacing and various patch sizes, into management prescriptions.	No	No	
Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	40-5	Wildlife	(MSO) The following table displays the minimum percentage of restricted area which should be managed to have nest/roost characteristics. The minimum mixed conifer restricted area includes 10% at 170 basal area and an additional amount of area at 150 basal area. The additional area of 150 basal area is +10% in BR-E and +15% in all other recovery units. The variables are for stand averages and are minimum threshold values and must be met simultaneously. In project design, no stands simultaneously meeting or exceeding the minimum threshold values should be reduced below the threshold values unless a district-wide or larger landscape analysis of restricted areas shows that there is a surplus of restricted area acres simultaneously meeting the threshold values. Management should be designed to create minimum threshold conditions on project areas where there is a deficit of stands simultaneously meeting minimum threshold conditions unless the district-wide or larger landscape analysis shows there is a surplus.	No	No	
Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	40-5	Timber, Vegetation & Wildlife	(MSO) Emphasize uneven-aged management systems. However, both even-aged and uneven-aged systems may be used where appropriate to provide variation in existing stand structure and species diversity. Existing stand conditions will determine which system is appropriate.	No	No	
Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	40-6	Vegetation & Wildlife	(MSO) In pine-oak forests, retain existing large oaks and promote growth of additional large oaks.	No	No	
Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	40-6	Vegetation & Wildlife	(MSO) Old Growth: Except where otherwise noted, implement forest plan old growth standards and guidelines to maintain and promote development of owl habitat.	No	No	
Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	40-6	Vegetation & Wildlife	(MSO) Retain substantive amounts of key habitat components: (1) Snags 18 inches in diameter and larger. (2) Down logs over 12 inches midpoint diameter. (3) Hardwoods for retention, recruitment, and replacement of large hardwoods.	No	No	

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Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	40-6	Fire and Fuels	(MSO) Encourage prescribed and prescribed natural fire to reduce hazardous fuel accumulation. Thinning from below may be desirable or necessary before burning to reduce ladder fuels and the risk of crown fire.	No	No	
Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	40-6	Range	(MSO) Domestic Livestock Grazing: Implement forest plan forage utilization standards and guidelines to maintain owl prey availability, maintain potential for beneficial fire while inhibiting potential destructive fire, maintain and restore riparian ecosystems, and promote development of owl habitat. Strive to attain good to excellent range conditions.	No	No	
Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	40-6	Wildlife	(MSO) Basin and Range - West: Emphasize restoration of lowland riparian habitats.	No	No	
Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	40-6	Wildlife	(MSO) Upper Gila Mountains: No special additional guidelines apply.	No	No	
Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	40-6	Riparian Areas	(MSO) Riparian Areas: Emphasize maintenance and restoration of healthy riparian ecosystems through conformance with forest plan riparian standards and guidelines. Management strategies should move degraded riparian vegetation toward good condition as soon as possible. Damage to riparian vegetation, stream banks, and channels should be prevented.	No	No	
Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	40-6	Timber, Vegetation & Wildlife	(MSO) Extend rotation ages for even-aged stands to greater than 200 years. Silvicultural prescriptions should explicitly state when vegetative manipulation will cease until rotation age is reached.	No	No	
Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	40-6	Timber, Vegetation & Wildlife	(MSO) Save all trees greater than 24 inches dbh.	No	No	
Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	40-6	Vegetation	(MSO) Apply ecosystem approaches to manage for landscape diversity mimicking natural disturbance patterns, incorporating natural variation in stand conditions and retaining special features such as snags and large trees, utilizing appropriate fires, and retention of existing old growth in accordance with forest plan old growth standards and guidelines.	No	No	

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Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	40-7	Vegetation & Wildlife	(MSO) Rangewide: Track gross changes in acres of owl habitat resulting from natural and human caused disturbances. Acreage changes in vegetation composition, structure, and density should be tracked, evaluated, and reported. Remote sensing techniques should provide an adequate level of accuracy.	No	No	
Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	40-7	Wildlife	(MSO) Habitat monitoring of gross habitat changes should be a collaborative effort of all appropriate resource agencies.	No	No	
Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	40-7	Wildlife	(MSO) Habitat monitoring of treatment effects (pre- and post-treatment) should be done by the agency conducting the treatment.	No	No	
Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	40-7	Wildlife	(MSO) In protected and restricted areas where silvicultural or fire abatement treatments are planned, monitor treated stands pre- and post-treatment to determine changes and trajectories in fuel levels; snag basal areas; live tree basal areas; volume of down logs over 12 inches in diameter; and basal area of hardwood trees over 10 inches in diameter at the root crown.	No	No	
Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	40-7	Wildlife	(MSO) Management activities necessary to implement the Sacramento Mountain thistle recovery plan, which may conflict with standards and guidelines for Mexican spotted owl, will take precedence and will be exempt from the conflicting Mexican spotted owl standards and guidelines.	No	No	
Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	40-7	Wildlife	(MSO) Monitoring and evaluation should be collaboratively planned and coordinated with involvement from each National Forest, USFWS Ecological Services Field Office, USFWS Regional Office, USDA Forest Service Regional Office, Rocky Mountain Research Station, recovery team, and recovery unit working groups.	No	No	
Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	40-7	Wildlife	(MSO) Population monitoring should be a collaborative effort with participation of all appropriate resource agencies.	No	No	
Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	40-7	Wildlife	(MSO) Prepare an annual monitoring and evaluation report covering all levels of monitoring done in the previous year. The annual report should be forwarded to the Regional Forester with copies provided to the recovery unit working groups, USFWS Ecological Services field offices, and the USFWS Regional Office.	No	No	

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Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	40-7	Wildlife	(MSO) Upper Gila Mountain, Basin and Range East, and Basin and Range West Recovery Units: Assist the recovery team and recovery unit working groups to establish sampling units consisting of 19 to 39 square mile quadrants randomly allocated to habitat strata. Quadrats should be defined based on ecological boundaries such as ridgelines and watersheds. Quadrat boundaries should not traverse owl territories. Twenty percent of the quadrats will be replaced each year at random.	No	No	
Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	40-8	Wildlife	Establish, and delineate on a map, a post-fledgling family area that includes 6 nesting areas per pair of nesting goshawks for known nest sites, old nest sites, areas where historical data indicates goshawks have nested there in the past, and where goshawks have been repeatedly sighted over a 2 year or greater time period but no nest sites have been located. Manage for uneven- age stand conditions for live trees and retain live reserve trees, snags, downed logs, and woody debris levels throughout woodland, ponderosa pine, mixed conifer and spruce-fir forest cover types. Manage for old age trees such that as much old forest structure as possible is sustained over time across the landscape. Sustain a mosaic of vegetation densities (overstory and understory), age classes and species composition across the landscape. Provide foods and cover for goshawk prey.	No	No	
Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	40-8	Wildlife	Limit human activity in nesting areas during the breeding season.	No	No	
Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	40-8	Wildlife	(MSO) Using the sample quadrats, monitor the number of territorial individuals and pairs per quadrat; reproduction; apparent survival; recruitment; and age structure. Track population density both per quadrat and habitat stratum.	No	No	
Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	40-8	Wildlife	The northern goshawk standards and guidelines apply to the forest wood- land communities described below that are outside of Mexican spotted owl protected and restricted areas. Within Mexican spotted owl protected and restricted areas, the Mexican spotted owl standards and guidelines take precedence over the northern goshawk standards and guidelines. One or the other set of standards and guidelines apply to all forest and woodland communities but the Mexican spotted owl standards always take precedence in areas of overlap.	No	No	
Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	40-8	Wildlife	Survey the management analysis area prior to habitat modifying activities including 1/2 mile beyond the boundary.	No	No	

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Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	40-8	Wildlife	When activities conducted in conformance with these standards and guide- lines may adversely affect other threatened, endangered, or sensitive species or may conflict with other established recovery plans or conservation agreements; consult with US Fish and Wildlife Service to resolve the conflict.	No	No	
Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	40-9	Vegetation & Wildlife	For areas where complete inventories cannot be done, use aerial photographs to locate vegetative structural stages (VSS) 4-6 within the project area and inventory just those sites for goshawk nest areas using R3 inventory protocol. All uninventoried areas (VSS 1-3) will be managed to post-fledgling family area (PFA) specifications while in that stage. If while using this inventory option evidence suggests goshawks are present (such as finding plucking perches or molted goshawk feathers), conduct a complete inventory as outlined above.	No	No	
Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	40-9	Wildlife	Within the ranges of the Kaibab pincushion cactus, <i>Pediocactus paradinei</i> , the Arizona leatherflower, <i>Clematis hirsutissima arizonica</i> , management activities needed for the conservation of these two species that may conflict with northern goshawk standards and guidelines will be exempt from the conflicting northern goshawk standards and guidelines until conservation strategies or recovery plans (if listed) are developed for the two species.	No	No	
Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	40-9	Wildlife	Refer to USDA Forest Service General Technical Report RM-217 entitled "Management Recommendations for the Northern Goshawk in the Southwestern United States" for scientific information on goshawk ecology and management which provide the basis for the management guidelines. Supplemental information on goshawk ecology and management may be found in "The Northern Goshawk: Ecology and Management" published by the Cooper Ornithological Society as Studies in Avian Biology No. 16. In woodland forest cover types, use empirical data to determine desired habitat conditions.	No	No	
Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	40-9	Wildlife	Complete at least 1 year of survey, but 2 years of survey should be done to verify questionable sightings, unconfirmed nest sites, etc. If nesting goshawks are found during the first year of inventory, a second year of inventory is not needed in that territory.	No	No	
Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	40-9	Wildlife	Use the R3 survey protocol to get complete coverage of the management analysis area (Kennedy and Stahlecker 1993, as modified by Joy, Reynolds, and Leslie 1994). Management analysis areas should be entire ecosystem management areas if possible.	No	No	
Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	40-10	Vegetation & Wildlife	(Landscapes Outside Goshawk Post-fledgling Family Areas) Snags are 18" or larger dbh and 30 feet or larger in height, downed logs are 12 inches in diameter and at least 8 feet long, woody debris is 3 inches or larger on the forest floor, canopy cover is measured with vertical crown projection on average across the landscape.	No	No	

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Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	40-10	Vegetation & Wildlife	(Landscapes Outside Goshawk Post-fledgling Family Areas) The distribution of vegetation structural stages for ponderosa pine, mixed conifer and spruce-fir forests is 10% grass/forb/shrub (VSS 1), 10% seedling-sapling (VSS 2), 20% young forest (VSS 3), 20% mid-aged forest (VSS 4), 20% mature forest (VSS 5), 20% old forest (VSS 6). NOTE: The specified percentages are a guide and actual percentages are expected to vary + or - up to 3%.	No	No	
Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	40-10	Vegetation & Wildlife	(Landscapes Outside Goshawk Post-fledgling Family Areas) The distribution of VSS, tree density, and tree age are a product of site quality in the ecosystem management area. Use site quality to guide in the distribution of VSS, tree density and tree ages. Use site quality to identify and manage dispersal PFA and nest habitat at 2 to 2.5 mile spacing across the landscape.	No	No	
Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	40-10	Vegetation & Wildlife	Distribution of habitat structures (tree size and age classes, tree groups of different densities, snags, dead and down woody material, etc.) should be evaluated at the ecosystem management area level, at the mid-scale such as drainage, and at the small scale site.	No	No	
Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	40-10	Wildlife	Establish a minimum of 3 nest areas and 3 replacement nest areas per post-fledgling family area. The nest areas and replacement nest areas should be approximately 30 acres in size. A minimum total of 180 acres of nest areas should be identified within each post-fledgling family area.	No	No	
Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	40-10	Wildlife	If forests have goshawks commonly nesting in stands classified as VSS 1-3, use the complete inventory methods for those areas. There may be situations where an area is classified as a VSS 3, based on the predominant VSS class, but in actuality a combination of VSS 4 & 5 predominate the area. For those situations, use the complete inventory methods.	No	No	
Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	40-10	Wildlife	Manage for nest replacement sites to attain sufficient quality and size to replace the three suitable nest sites.	No	No	
Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	40-10	Wildlife	Post-fledgling family areas (PFA) will be approximately 600 acres in size. Post-fledgling family areas will include the nest sites and consist of the habitat most likely to be used by the fledglings during their early development.	No	No	
Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	40-10	Wildlife	Nest site selection will be based first on using active nest sites followed by the most recently used historical nest areas. When possible, all historical nest areas should be maintained.	No	No	

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Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	40-11	Vegetation & Wildlife	(Landscapes Outside Goshawk Post-fledgling Family Acres) Mixed Conifer: Canopy cover for mid-aged forest (VSS 4) should average 1/3 60+% and 2/3 40+%, mature forest (VSS 5) should average 50+%, and old forest(VSS 6) should average 60+%. Maximum opening size is up to 4 acres with a maximum width of up to 200 feet. Retain one group of reserve trees per acre of 3-5 trees per group for openings greater than 1 acre in size. Leave at least 3 snags, 5 downed logs, and 10-15 tons of woody debris per acre.	No	No	
Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	40-11	Vegetation & Wildlife	(Landscapes Outside Goshawk Post-fledgling Family Acres) Ponderosa Pine: Canopy cover for mid-aged forest (VSS 4) should average 40+%, mature forest (VSS 5) should average 40+%, and old forest (VSS 6) should average 40+%. Opening size is up to 4 acres with a maximum width of up to 200 feet. One group of reserve trees, 3-5 trees per group, will be left if the opening is greater than an acre in size. Leave at least 2 snags per acre, 3 downed logs per acre, and 5-7 tons of woody debris per acre.	No	No	
Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	40-11	Vegetation & Wildlife	(Landscapes Outside Goshawk Post-fledgling Family Areas) Spruce-Fir: Canopy cover for mid-aged forest (VSS 4) should average 1/3 60% and 2/3 40%, mature forest (VSS 5) should average 60+%, and old forest (VSS 6) should average 60+%. Maximum opening size is 1 acre with a maximum width of 125 feet. Provide two groups of reserve trees per acre with 6 trees per group when opening size exceeds 0.5. Leave at least 3 snags, 5 downed logs, and 10-15 tons of woody debris per acre.	No	No	
Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	40-11	Vegetation & Wildlife	(Landscapes Outside Goshawk Post-fledgling Family Areas) The order of preferred treatment for woody debris is: (1) prescribed burning, (2) lopping & scattering, (3) hand piling or machine grapple piling, and 4) dozer piling.	No	No	
Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	40-11	Vegetation & Wildlife	(Landscapes Outside Goshawks Post-fledgling Family Acres) Woodland: Manage for uneven age conditions to sustain a mosaic of vegetation densities (overstory and understory), age classes, and species composition well distributed across the landscape. Provide for reserve trees, snags, and down woody debris.	No	No	
Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	40-11	Vegetation & Wildlife	(Landscapes Within Post-fledgling Family Areas) Mixed Conifer: Canopy cover for mid-aged (VSS 4) to old forest (VSS 6) should average 60+%.	No	No	
Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	40-11	Vegetation & Wildlife	(Landscapes Within Post-fledgling Family Areas) Provide for a healthy sustainable forest environment for the post- fledgling family needs of goshawks. The principle difference between "within the post-fledgling family area" and "outside the post-fledgling family area" is the higher canopy cover within the post-fledgling family area and smaller opening size within the post-fledgling family area. Vegetative structural stage distribution and structural conditions are the same within and outside the post-fledgling family area.	No	No	

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Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	40-11	Vegetation & Wildlife	(Landscapes Within Post-fledgling Family Areas) Spruce-Fir: Canopy cover for mid-aged forest (VSS 4) should average 60+% and for mature (VSS 5) and old forest (VSS 6) should average 70+%.	No	No	
Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	40-11	Vegetation	(Landscapes Outside Goshawk Post-fledgling Family Areas) Canopy Cover: Canopy cover guidelines apply only to mid-aged to old forest structural stages (VSS 4, VSS 5, and VSS 6) and not to grass/forb/ shrub to young forest structural stages (VSS 1, VSS 2, and VSS 3).	No	No	
Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	40-12	Vegetation & Wildlife	(Landscapes Within Nesting Areas) Spruce-fir, Mixed Conifer and Ponderosa Pine Cover Types: The nesting area contains only mature to old forest (VSS 5 & 6) having a canopy cover (measured vertically) between 50%-70% with mid-aged VSS 6 trees 200-300 years old. Non-uniform spacing of trees and clumpiness is desirable.	No	No	
Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	40-12	Vegetation & Wildlife	(Landscapes Within Nesting Areas) The structure of the vegetation within nest areas is associated with the forest type, and tree age, size, and density, and the developmental history of the stand. Table 5 of RM-217 presents attributes required for goshawks on locations with "low" and "high" site productivity.	No	No	
Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	40-12	Vegetation & Wildlife	(Landscapes Within Nesting Areas) Woodland: Maintain existing canopy cover levels.	No	No	
Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	40-12	Vegetation & Wildlife	(Landscapes Within Post-fledgling Family Areas) Ponderosa Pine: Canopy cover for mid-aged forest (VSS 4) should average 1/3 60+% and 2/3 50+%. Mature (VSS 5) and old forest (VSS 6) should average 50+%.	No	No	
Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	40-12	Vegetation & Wildlife	(Landscapes Within Post-fledgling Family Areas) Woodland: Maintain existing canopy cover levels.	No	No	
Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	40-12	Wildlife	(Landscapes Within Nesting Areas) Provide unique nesting habitat conditions for goshawks. Important features include trees of mature to old age with high canopy cover.	No	No	

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Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	40-12	Wildlife	(Human Disturbance Guidelines) Limit human activities in or near nest sites and post-fledgling family areas during the breeding season so that goshawk reproductive success is not affected by human activities.	No	No	
Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	40-12	Wildlife	(Human Disturbance Guidelines) The breeding season extends from March 1 through September 30.	No	No	
Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	40-12	Timber, Vegetation & Wildlife	(Landscapes Within Nesting Areas) Preferred treatments to maintain the desired structure are to thin from below with non-uniform spacing and use of hand tools and fire to reduce fuel loads. Lopping and scattering of thinning debris is preferred if prescribed fire cannot be used. Piling of debris should be limited. When necessary, hand piling should be used to minimize compaction within piles and to minimize displacement and destruction of the forest floor and the herbaceous layer. Do not grapple or dozer pile debris. Manage road densities at the lowest level possible to minimize disturbance in the nest area. Use small, permanent skid trails in lieu of roads for timber harvesting.	No	No	
Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	40-12	Vegetation & Wildlife	(Human Disturbance Guidelines) Low-intensity ground fires are allowed at any time in all forested cover types, but high-intensity crown fires are not acceptable in the post-fledgling family area or nest areas. Avoid burning the entire home range of a goshawk pair in a single year. For fires planned in the occupied nest area, a fire management plan should be prepared. The fire management plan should minimize the risk of goshawk abandonment while low-intensity ground fire burns in the nesting area. Prescribed fire within nesting areas should be planned to move with prevailing winds away from the nest tree to minimize smoke and risk of crown fire developing and driving the adults off or consuming the nest tree.	No	No	
Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	40-12	Fire and Fuels / Vegetation & Wildlife	(Human Disturbance Guidelines) Low-intensity ground fires are allowed at any time in all forested cover types, but high-intensity crown fires are not acceptable in the post-fledgling family area or nest areas. Avoid burning the entire home range of a goshawk pair in a single year. For fires planned in the occupied nest area, a fire management plan should be prepared. The fire management plan should minimize the risk of goshawk abandonment while low-intensity ground fire burns in the nesting area. Prescribed fire within nesting areas should be planned to move with prevailing winds away from the nest tree to minimize smoke and risk of crown fire developing and driving the adults off or consuming the nest tree.	No	No	
Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	40-13	Timber & Wildlife	(Ground Surface Layer Guidelines) Limit dozer use for piling or scattering of logging debris so that the forest floor and herbaceous layer is not displaced or destroyed.	No	No	

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Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	40-13	Timber & Wildlife	(Ground Surface Layer Guidelines) Manage road densities at the lowest level possible. Where timber harvesting has been prescribed to achieve desired forest condition, use small skid trails in lieu of roads.	No	No	
Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	40-13	Timber & Wildlife	(Ground Surface Layer Guidelines) Piling of debris should be limited. When necessary, hand or grapple piling should be used to minimize soil compaction within piles and to minimize forest floor and herbaceous layer displacement and destruction.	No	No	
Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	40-13	Wildlife	(Ground Surface Layer Guidelines) Analyze all pronghorn and big horn sheep habitat and continue stocking program in suitable areas in cooperation with Region 6 of the Arizona Game and Fish Department.	No	No	

Forest-Wide Standards and Guidelines

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Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	50	Air Quality	Management activities will be planned so that air quality will equal to or better than that required by applicable federal, State, and local standards or regulations.	Yes	No	The proposed action would comply with all applicable federal, state, and local air quality standards.
Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	51	Air Quality	[Not applicable to 3I and 2F] Perform in-depth review of Prevention of Significant Deterioration (PSD) permit applications, to determine the potential effect that increased emissions from the involved major stationary source(s) would have on Air Quality Related Values (AQRV's) on the Superstition, Mazatzal, and/or Sierra Ancha Class 1 areas.	No	No	The standard and guideline is not applicable to Management Areas 3I and 2F where the proposed project would be located.
Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	38	Cultural Resources	The Forest will comply with the National Historic Preservation Act (NHPA) and with Executive Order (EO) 11593, and will undertake active management that recognizes heritage (cultural) resources as equal in importance to other multiple uses. Heritage resources will be managed in coordination with the State Historic Preservation Officer (SHPO) in accordance with the Programmatic Agreement regarding cultural property protection and responsibilities among New Mexico Historic Preservation Division, Arizona State Historic Preservation Office, Texas State Historic Preservation Office, Oklahoma State Historic Preservation Office, the Advisory Council on Historic Preservation and USDA Forest Service, Southwestern Region, signed in 1990 (hereafter referred to as the Programmatic Agreement or PA).	Yes	No*	The Forest will comply with the applicable laws, regulations, and policies regarding National Historic Preservation Act Section 106 consultation and tribal consultation (Government-to-Government).
Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	38-1	Cultural Resources	<p>A cultural resources overview has been prepared that covers all Forest lands. It is available at the Forest Supervisor's and Regional Offices. A Forest-wide Cultural Resources Assessment and Management Plan (CRAMP) has also been prepared in consultation with the SHPO. The overview and CRAMP will be updated as required by new data and scientific research, by the management situation, and/or by planning needs.</p> <p>Information from the overview and from other sources will be used to develop a framework for the identification, classification, and evaluation of known and predicted properties in the cultural resources management assessment, as provided for in the PA.</p> <p>Interactions among cultural and other resources are considered in detail in the CRAMP, prepared in 1989. The interaction between cultural and other resources for any specific undertaking will be evaluated in project-level analysis.</p>	Yes	No	The Forest will comply with the applicable laws, regulations, and policies regarding National Historic Preservation Act Section 106 consultation and tribal consultation (Government-to-Government). A project-specific programmatic agreement is being drafted with the Tonto National Forest, Arizona SHPO, ACHP, Resolution Copper, ASLD, BLM, and Tribes. A historic properties treatment plan is also being prepared.

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Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	38-1	Cultural Resources	<p>For any proposed surface disturbing activity, the following standards will apply:</p> <ol style="list-style-type: none"> 1. The Forest Service will comply with the National Historic Preservation Act (as amended) and the PA. 2. The standards specified in the PA will be followed. Where the settlement document does not specify standards, those in the Forest Service Manual and Handbook will apply. 3. During the conduct of undertakings, the preferred management of sites listed in, nominated to, eligible for, or potentially eligible for the National Register is avoidance and protection. Exceptions may occur in specific cases where consultation with the SHPO indicates that the best use of the resource is data recovery and interpretation. 5. Where resource management conflicts occur, the desirability of in-place preservation of cultural resources will be weighed against the values of the proposed land use. Preservation of heritage resources in place will become increasingly important under the following conditions: (a) where present methods of investigation and data recovery cannot realize the current research potential of the sites; (b) where the sites are likely to have greater importance for addressing future research questions than current ones; (c) where the cultural values derive primarily from the qualities other than research potential, and where those values are fully realized only when the cultural remains exist undisturbed in their original context(s) (e.g., association with significant historical persons or events, special ethnic or religious values, or unique interpretive values); (d) where heritage resources are important primarily for the quality of their architecture and the integrity of their setting. (e) where site density would make data recovery economically infeasible, or require unattainable operating conditions. <p>Where preservation in place is important under these conditions, the Forest Service will give serious consideration to such options as project redesign, relocation, or cancellation. The procedures specified in the PA, 36 CFR 800, the Native American Grave Protection and Repatriation Act of 1990 (NAGPRA), and National Register Bulletin 38 will be followed in reaching a management decision.</p> <ol style="list-style-type: none"> 6. Surface disturbing undertakings will be managed to comply with 36 CFR 800, the PA, NAGPRA, and Bulletin 38. All consultation responsibilities to the SHPO and Tribes, before, during, and after an undertaking, will be followed. The area of an undertaking's potential environmental impact will be surveyed for cultural resources and areas of traditional and/or religious use by Indian Tribes. Inventory standards will be as specified in the settlement document and in the Forest Service Handbook, and will be determined in consultation with the SHPO. Tribes will be consulted as appropriate. 	Yes	No *	<p>The Forest will comply with the applicable laws, regulations, and policies regarding National Historic Preservation Act Section 106 consultation and tribal consultation (Government-to-Government).</p> <p>All areas of the proposed project, including the pipelines and tailings facility, will be surveyed for cultural resources with 100% pedestrian survey coverage. Additionally, tribal monitors will participate in the cultural resource surveys.</p> <p>A project-specific programmatic agreement is being drafted with the Tonto National Forest, Arizona SHPO, ACHP, Resolution Copper, ASLD, BLM, and Tribes. A historic properties treatment plan is also being prepared.</p>

Forest Plan Section	Page Number	Resource	Forest Plan Text	Applicable? (Y/N)	Requires Amendment? (Y/N)	Rationale
Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	38-2	Cultural Resources	Heritage resource management, including the formulation and evaluation of alternatives, will be coordinated to the extent feasible with the planning activities of the SHPO and with other State and Federal agencies and Tribes. This will be accomplished as follows: (a) consultation and meetings with such parties, (b) sharing of data, reports, plans, interpretations, and other documents, (c) coordination on National Register nominations, and (d) participation in the State cultural resources planning process.	Yes	No	The Tonto National Forest will comply with the applicable laws, regulations, and policies regarding National Historic Preservation Act Section 106 consultation and tribal consultation (Government-to-Government). A project-specific programmatic agreement is being drafted with the Tonto National Forest, Arizona SHPO, Advisory Council on Historic Preservation (ACHP), Resolution Copper, Arizona State Land Department (ASLD), BLM, and Tribes. A historic properties treatment plan is also being prepared.
Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	38-2	Cultural Resources	<p>All parts of the Forest not surveyed at the 100 percent level, and on which there is a likelihood that cultural resources exist, require more intensive inventory. Areas rated as highest priority for survey will be those that either (a) are expected to have high site densities, and/or (b) are important to understanding the historical or prehistoric occupations of the Forest. Such areas are identified in the CRAMP. At a minimum, survey of such areas will be undertaken in conjunction with annual update training for para-professional archeologists.</p> <p>The Forest Service, through the CRAMP, has developed a prioritized list and schedule for nominating eligible properties to the National Register of Historic Places (National Register).</p> <p>In consultation with the SHPO, identified sites will be evaluated for eligibility for the National Register. Sites considered eligible will be assigned a priority for nomination. Sites not yet evaluated will be managed as if eligible, unless consultation with the SHPO indicates otherwise.</p> <p>The National Register nominating criteria are contained in 36 CFR 60.4. These are further refined through the identification of historic contexts in the CRAMP and overview.</p> <p>The Forest Service will nominate at least two individual sites per year for every full- time professional employed in the Forest's cultural resources management program.</p> <p>Alternatively, the Forest Service will submit at least one District, thematic, or multiple property nomination per year, or may cooperate with other Forests in producing such a nomination. A different submission schedule for specific multiple property nominations may be proposed to the SHPO. Any nomination returned by the Keeper of the National Register for reasons of technical inadequacy will be revised and resubmitted within 90 days, weather permitting.</p>	Yes	No	<p>All areas of the proposed project, including the pipelines and tailings facility, will be surveyed for cultural resources with 100% pedestrian survey coverage. Additionally, tribal monitors will participate in the cultural resource surveys</p> <p>A project-specific programmatic agreement is being drafted with the Tonto National Forest, Arizona SHPO, ACHP, Resolution Copper, ASLD, BLM, and Tribes. A historic properties treatment plan is also being prepared.</p>
Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	38-3	Cultural Resources	Measures for the protection of cultural resources from vandalism and natural destruction will include regular inspection and, where necessary, electronic monitoring. Sites listed in or nominated to the National Register will be inspected biennially. Sites determined eligible for the National Register will be inspected periodically, unless previous data recovery has fully documented the characteristics that qualify the site for the Register. All other sites, except those formally determined ineligible for the National Register, will be inspected on a need or opportunity basis. Sites susceptible to rapid deterioration and/or human disturbance will be inspected most frequently.	Yes	No	<p>All areas of the proposed project, including the pipelines and tailings facility, will be surveyed for cultural resources with 100% pedestrian survey coverage. Additionally, tribal monitors will participate in the cultural resource surveys</p> <p>A project-specific programmatic agreement is being drafted with the Tonto National Forest, Arizona SHPO, ACHP, Resolution Copper, ASLD, BLM, and Tribes. A historic properties treatment plan is also being prepared.</p>

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Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	38-3	Cultural Resources	Sites known to have sustained unusual damage, beyond minimal levels that normally occur from natural forces, will be listed in priority order for stabilization. This listing appears in the CRAMP.	No	No	The standard and guideline is not applicable to the proposed project.
Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	38-3	Cultural Resources	Rapid natural deterioration, or susceptibility to this, will require planning for appropriate measures, such as stabilization and/or data recovery. Vandalism, collecting, or illicit excavation will require planning for protective measures, such as signing, fencing, administrative closure, remote sensing, increased patrolling, investigations, interpretive signs, District displays, media communications, and stabilization and/or data recovery. Specific sties or areas may be closed to OHV use and withdrawn from mineral entry. Parties known to have damaged cultural resources willfully or through negligence will be held legally and financially liable for the costs of stabilization and repair.	No	No	The standard and guideline is not applicable to the proposed project.
Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	38-3	Cultural Resources	A cultural resources professional will inspect each site that may be affected by an undertaking, and each undertaking with the potential to affect cultural resources. At least one site, and not less than 20 percent of the sites, designated for protection within each undertaking will be inspected by a cultural resources specialist, sale administrator, contracting officer's representative, or project inspector. All sites listed in, nominated to, or formally determined eligible for the National Register will be inspected. Inspection will occur during the course of the undertaking, or at the close of undertakings with total duration of less than 72 hours. Inspection records will be provided to the SHPO.	Yes	No	All areas of the proposed project, including the pipelines and tailings facility, will be surveyed for cultural resources with 100% pedestrian survey coverage. Additionally, tribal monitors will participate in the cultural resource surveys A project-specific programmatic agreement is being drafted with the Tonto National Forest, Arizona SHPO, ACHP, Resolution Copper, ASLD, BLM, and Tribes. A historic properties treatment plan is also being prepared.
Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	38-3	Cultural Resources	Each Forest contract, permit, or lease that has the potential to affect cultural resources will contain a clause specifying site protection responsibilities and liability for damage. If damage to a cultural resource is found, the procedures specified in the PA and in the Forest Service Manual and Handbook, will be followed.	Yes	No	All areas of the proposed project, including the pipelines and tailings facility, will be surveyed for cultural resources with 100% pedestrian survey coverage. Additionally, tribal monitors will participate in the cultural resource surveys A project-specific programmatic agreement is being drafted with the Tonto National Forest, Arizona SHPO, ACHP, Resolution Copper, ASLD, BLM, and Tribes. A historic properties treatment plan is also being prepared.
Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	38-4	Cultural Resources	Sites listed in or eligible for the National Register that need maintenance and/or stabilization are described in the CRAMP. Stabilization and/or maintenance plans will be developed for these sites and additional sites evaluated and given priority as the proposed work is accomplished. Sites recommended for interpretive development (along with target audiences and objectives) are identified in the CRAMP. This listing of interpretive opportunities will be reviewed and updated as appropriate. Planning and implementation of onsite or other interpretive facilities will be scheduled as interpretive plans and designs can be prepared. Most of these sites have a long history of popular interest and high current levels of recreational visitation and they possess a number of qualities which make them especially attractive for developed interpretations. As these sites be- come developed, additional ones will be evaluated and priorities assigned for future accomplishments.	Yes	No	All areas of the proposed project, including the pipelines and tailings facility, will be surveyed for cultural resources with 100% pedestrian survey coverage. Additionally, tribal monitors will participate in the cultural resource surveys A project-specific programmatic agreement is being drafted with the Tonto National Forest, Arizona SHPO, ACHP, Resolution Copper, ASLD, BLM, and Tribes. A historic properties treatment plan is also being prepared.

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Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	38-4	Cultural Resources	Other interpretive opportunities, that should be pursued as a high priority when opportunities arise, are: (1) cultural resources displays in the Supervisor's Office and in District Offices, (2) trails and interpretive signs at less frequently visited sites. (3) Preparation of popular literature, brochures, and films regarding the Forest's cultural resources. (4) Presentation of popular talks regarding the Forest's cultural resources. (5) Professional cultural resource interpretation for presentation at meetings and/or dissemination through professional publications.	No	No	The standard and guideline is not applicable to the proposed project.
Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	43	Engineering / Roads	Where possible, locate roads on natural benches, ridges, flat slopes near ridges or valley bottoms, and away from stream channels.	Yes	No	Roads developed as part of the proposed project would be built to Forest Service and/or Mine Safety and Health Administration standards. The Forest would review all construction and engineering documentation prior to approving the final general plan of operations. Additionally, construction best management practices and design features would be implemented to minimize soil erosion as part of the project's stormwater and grading plans.
Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	43	Engineering / Roads	Roads should be located on well-drained and stable ground, avoiding seeps and other unstable areas.	Yes	No	
Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	43	Engineering / Roads	Reduced road dimensions to that which will adequately fulfill anticipated needs and avoid large road cuts and fills.	Yes	No	
Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	43	Engineering / Roads & Water	Stream crossing approaches should avoid steep pitches and grades in order to prevent sedimentation.	Yes	No	
Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	43	Engineering / Roads & Water	Where channel crossings are necessary, select an area where the channel is straight and cross the channel at right angles.	Yes	No	
Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	43	Engineering / Roads & Water	Provide necessary water drainage structures as road construction proceeds.	Yes	No	
Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	44	Engineering / Roads	Minimize excavation with a balanced earthwork design; the area of cut slopes should be minimized in order to reduce erosion and slope instability.	Yes	No	

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Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	44	Engineering / Roads & Water	Road runoff should not be discharged directly into streams, but should be diverted over stable vegetated areas or riprap.	Yes	No	
Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	44	Engineering / Soil & Water	Minimize impacts on soil and water resources from all ground disturbing activities.	Yes	No	
Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	44	Engineering	Construction should take place only when soil conditions are not too wet.	Yes	No	
Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	44	Engineering	Large cut and fill slopes should be stabilized.	Yes	No	
Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	44	Engineering /	Bridges and culverts should be installed in a way that prevents stream sedimentation and channel changes and provides for fish migration.	Yes	No	
Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	47	Engineering / Roads	Respond to requests for right-of-way grants for roads and trails.	No	No	The standard and guideline is not applicable to the proposed project.
Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	48	Engineering / Roads	Reconstruct arterial roads as needed to provide for public safety.	Yes	No	Roads developed as part of the proposed project would be built to Forest Service and/or Mine Safety and Health Administration standards. The Forest would review all construction and engineering documentation prior to approving the final general plan of operations, including the road use plan (Appendix K). The Forest would confirm that measures are in place to provide for public safety on roads open to public travel.
Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	48	Engineering / Roads	New roads will be designed and constructed by the Forest Service only as a determined necessary by transportation planning.	No	No	The standard and guideline is not applicable to the proposed project.

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Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	48	Engineering / Roads	Maintain roads to provide for public safety, community haul, and resource protection in accordance with FSM 7700 and 7730.	Yes	No *	Roads developed as part of the proposed project would be built to Forest Service and/or Mine Safety and Health Administration standards. The Forest would review all construction and engineering documentation prior to approving the final general plan of operations, including the road use plan (Appendix K). The Forest would confirm that measures are in place to provide for public safety on roads open to public travel.
Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	48	Engineering / Roads	Negotiate with local governments to finance their share of the road maintenance activity on roads not needed for Forest administration.	No	No	The standard and guideline is not applicable to the proposed project.
Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	47	Engineering / Facilities	Maintain existing land lines, corners, and accessories.	Yes	No	The proposed project would not impact these existing facilities.
Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	45	Engineering / Facilities & Special Uses	Electronic sites will be managed to the following standards: (1) maximize point use of existing facilities, (2) lot plans as presently established will be eliminated. Sites allocated on a total required facility basis, (3) maintenance of individual site roads and trails will be carried out jointly through cooperative maintenance proportionate payments to the amount of use or will be maintained by the users, (4) clearing of vegetation will be limited to that which poses a hazard to facilities and operational efficiency, (5) Commercial broadcasting and constant carriers, will be allowed where compatible. These sites must be physically separated by at least one mile from sites designated for two-way user, i.e., land mobile and microwave. Any potential electromagnetic interference must be resolved before construction can proceed. Microwave corridors will be protected.	No	No	The standard and guideline is not applicable to the proposed project.
Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	46	Engineering / Facilities & Special Uses	Continued from previous page. Electronic sites will be managed to the following additional standards: (6) VHF transmitters will be permitted if frequencies are compatible with those of previous users. (Authorize only specified frequencies and not wide range bands on 2700-10 Technical Data Sheets.), (7) All new and replacement towers must be self-supporting, (8) antennas and towers will be below the height for which the FAA requires lights because of the interference with the fire lookout tower and aesthetics, (9) all utility lines serving the site will be placed underground for new sites where VQO would be degraded by conventional above ground construction. Above ground utilities within existing sites will be placed below ground at the earliest opportunity, (10) any prospective permittee desiring a site shall furnish detailed plans for building and antenna support structure to the District Ranger for approval. All towers will meet Electronic Industries Association standard RS-222-C, structural standards for steel antenna towers. These plans will show the relationship of the proposed building and antenna to other facilities in the area, along with manufacturer's specifications for equipment to be used, and (11) all buildings will be colored to blend with the background.	No	No	The standard and guideline is not applicable to the proposed project.

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Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	47	Engineering / Facilities & Special Uses	Update land line location atlas as additional corners are found and boundary is posted.	No	No	The standard and guideline is not applicable to the proposed project.
Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	47	Engineering / Facilities & Special Uses	Locate and post all land line needed for outputs two-to-three years in advance of resource output production years.	No	No	The standard and guideline is not applicable to the proposed project.
Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	48	Fire and Fuels / BAR	On all Class E or bigger fires, an interdisciplinary (ID) team will determine need for fire rehabilitation and resource protection, including the option for as- signing a Burned Area Rehabilitation Team (BAR Team).	No	No	The standard and guideline is not applicable to the proposed project.
Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	50	Fire and Fuels / Fuels	Forest activities, primarily prescribed burning, will be conducted within Arizona State Air Quality standards which require less air pollution that the following baseline quantities: (1) 24-hour secondary (non-health) standard - 150 micrograms per cubic meter, (2) 24-hour primary (health) standard - 260 micrograms per cubic meter, and (3) annual/standard - 75 micrograms per cubic meter.	No	No	The standard and guideline is not applicable to the proposed project.
Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	48	Fire and Fuels / Riparian Areas	Suppression strategy on fires which threaten Riparian areas or Sonoran Desert from the outside will utilize tactics that minimize damage within these areas.	No	No	The standard and guideline is not applicable to the proposed project.
Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	48	Fire and Fuels	Wildland Fires starting within these analysis areas will receive appropriate and Management response. If the initial response is no longer consistent with fire management direction, or is expected to exceed the initial action, the fire must be considered an escaped fire, and a Wildland Fire Situation Analysis (WFSA) must be prepared and implemented.	No	No	The standard and guideline is not applicable to the proposed project.
Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	48	Fire and Fuels	[Not applicable to 3I and 2F] Wildland Fires occurring in these areas will receive an appropriate management response based on previous, current and projected climatological, and existing fuel conditions. Additional considerations for seasonal differences and fire management resources availability will be addressed. All suppression decisions will be through the development of a Wildland Fire Situation Analysis (WFSA).	No	No	The standard and guideline is not applicable to the proposed project.
Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	48	Fire and Fuels	All suppression efforts will emphasize minimum impact strategies. Use of mechanized equipment for fireline construction is discouraged. Where use is necessary, rehabilitation will be implemented.	No	No	The standard and guideline is not applicable to the proposed project.

Forest Plan Section	Page Number	Resource	Forest Plan Text	Applicable? (Y/N)	Requires Amendment? (Y/N)	Rationale
Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	49	Fire and Fuels	Consideration should be given the following in development of the Wildland Fire Situation Analysis (WFSA). (1) Cost containment: Fires are suppressed at minimum cost, considering firefighter and public safety, benefits, and values to be protected, consistent with resource objectives. (2) Can the fire be contained within established parameters (3) Effects on the environment: (a) air quality/smoke, (b) noise/motorized equipment and helicopter use, (c) visual/burned area vs. recreational use-intrusion of suppression forces, and (d) water quality/downstream contamination, (e) T&E, and (f) flood control. (4) Social acceptance: (a) Burn area size (b) Differences in suppression action between wilderness/non-wilderness. (c) Differences in suppression or monitoring. (d) Media, (e) Political. (5) Economic: (a) Infrastructure, (b) Residential and Commercial Property, (c) finance. (6) Cultural and Historical. (7) Commitment of Resources: Will suppression action on this fire unreasonably impair our ability to respond to other needs regionally and/or nationally? If the initial response is no longer consistent with fire management direction, or is anticipated to become inappropriate, the fire must be considered a Wildland Fire and a WFSA must be prepared and implemented. (8) Safety: (a) Firefighter, (b) Public, (c) Aviation.	No	No	The standard and guideline is not applicable to the proposed project.
Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	50	Fire and Fuels	Consideration should be given the following in development of the WFSA. (2) Can the fire be contained within established parameters, (3) Effects on the environment: (a) air quality/smoke, (b) noise/motorized equipment and helicopter use, (c) visual/burned area vs. recreational use - intrusion of suppression forces, and (d) water quality/downstream contamination, (4) social acceptance: (a) will size of burned area that results be accepted socially, (b) will the public accept the difference in suppression action within the wilderness vs. outside the wilderness, (c) if direct attack is selected, will the public accept that, and (d) if appropriate indirect attack or monitoring is selected, will the public accept that, and (5) Commitment of Resources: (a) will suppression action on this fire unreasonably impair our ability to respond to other needs regionally and/or nationally, (b) if the initial response is no longer consistent with fire management direction, it is anticipated to become inappropriate, the fire must be considered an escaped fire and an Escape Fire Situation Analysis (EFSA) prepared and implemented.	No	No	The standard and guideline is not applicable to the proposed project.
Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	45	General / NEPA	Process notices of intent and operating plans as needed.	No	No	The standard and guideline is not applicable to the proposed project.
Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	45	General / NEPA	Protect Forest Service surface rights as needed, including preparation of EA/EIS, title searches, litigation, etc.	No	No	The standard and guideline is not applicable to the proposed project.
Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	51	General / Partnerships	Increase level of close coordination between Forest Service and other agency law enforcement officers.	No	No	The standard and guideline is not applicable to the proposed project.

Forest Plan Section	Page Number	Resource	Forest Plan Text	Applicable? (Y/N)	Requires Amendment? (Y/N)	Rationale
Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	39	General / Signs	[Not applicable to 3I or 2F] Install interpretive signs at selected locations throughout the Forest, keyed to crucial and/or interesting aspects of multiple use management.	No	No	The standard and guideline is not applicable to the proposed project.
Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	51	General	All Tonto National Forest Special Orders in effect on date of Forest Plan implementation will remain in effect until modified or rescinded.	No	No	The standard and guideline is not applicable to the proposed project.
Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	51	General	Staffing to process minimum business management needs and provide support to line officers for decision-making. Add support staffs as needed to efficiently handle an intensive level of resource management.	No	No	The standard and guideline is not applicable to the proposed project.
Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	51	General	Monitor implementation of management prescriptions as defined in Monitoring Plan, Chapter 5.	No	No	The standard and guideline is not applicable to the proposed project.
Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	47	Lands / Exchanges	Respond to land exchange proposals as presented. Seek to acquire all private holdings within designated wilderness and other lands where resource management objectives can be met by public ownership.	Yes	No	The Forest Service is responding the Southeast Arizona Land Exchange, a congressionally mandated exchange of land between Resolution Copper and the United States. Under the exchange, approximately 2,400 acres of National Forest System lands would be exchanged for approximately 5,300 acres of private land on eight parcels located elsewhere in eastern Arizona. The offered private lands will be transferred from Resolution Copper to the Forest Service and the U.S. Department of the Interior BLM.
Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	45	Lands / Leasing	Recommend no surface occupancy to BLM for leasing when the NEPA process indicates areas to be so sensitive as to preclude surface disturbance. Incorporate appropriate stipulations identified in the Southwestern Regional Guide.	No	No	The standard and guideline is not applicable to the proposed project.
Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	47	Lands / Right of Way	Acquire rights-of-way as needed to meet resource outputs or resolve legal status deficiencies.	Yes	No	The proposed project would establish rights-of-way as needed to implement the proposed project.
Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	47	Lands / Trespass	Continue to take action on occupancy trespass.	No	No	The standard and guideline is not applicable to the proposed project.

Forest Plan Section	Page Number	Resource	Forest Plan Text	Applicable? (Y/N)	Requires Amendment? (Y/N)	Rationale
Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	47	Lands	Maintain land status records by updating annually.	No	No	The standard and guideline is not applicable to the proposed project.
Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	47	Lands	Review land classification and determine the need for land adjustment to meet management objectives of providing for community expansion and logical boundary adjustments.	No	No	The standard and guideline is not applicable to the proposed project.
Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	47	Lands	Prohibit encumbrances on lands identified for exchange, which will reduce future disposal opportunities.	Yes	No	The Forest Service is responding the Southeast Arizona Land Exchange, a congressionally mandated exchange of land between Resolution Copper and the United States. Under the exchange, approximately 2,400 acres of National Forest System lands would be exchanged for approximately 5,300 acres of private land on eight parcels located elsewhere in eastern Arizona. The offered private lands will be transferred from Resolution Copper to the Forest Service and the U.S. Department of the Interior BLM. No other lands within the proposed project area have been identified for exchange.
Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	51	Law Enforcement	Maintain Forest law enforcement O&M Plan.	No	No	The standard and guideline is not applicable to the proposed project.
Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	51	Law Enforcement	Provide for at least one Level IV Investigator at each Ranger District.	No	No	The standard and guideline is not applicable to the proposed project.
Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	51	Law Enforcement	Maintain cooperative law enforcement agreements and increasing funding levels with Gila, Maricopa, Pinal, and Yavapai Counties.	No	No	The standard and guideline is not applicable to the proposed project.
Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	51	Law Enforcement	Continue search and rescue cooperatively with County Sheriffs.	No	No	The standard and guideline is not applicable to the proposed project.

Forest Plan Section	Page Number	Resource	Forest Plan Text	Applicable? (Y/N)	Requires Amendment? (Y/N)	Rationale
Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	38	Minerals / Caves	All surface-disturbing activities planned near or within a known cave area will be examined for potential impacts to the cave(s) and the area around each cave entrance(s), (plus feeder drainages and surface areas immediately over cave passages). The cave area will also be evaluated to determine protection measures needed.	Yes	No	An analysis of potential project impacts to caves was completed as part of the EIS (see Section 3.8). Mitigation measures will be applied for project impacts to caves as described in the mitigation and monitoring plan.
Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	38	Minerals / Caves	Protection measures for caves will be incorporated into project planning, and may include (but not be limited to) education, seasonal closures, and installation of entrance gates	Yes	No	An analysis of potential project impacts to caves was completed as part of the EIS (see Section 3.8). Mitigation measures will be applied for project impacts to caves as described in the mitigation and monitoring plan (EIS Appendix J).
Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	38	Minerals / Caves	Develop a Forest-wide Cave Implementation Plan and use it as a basis for preparation of prescriptions for significant caves and any other selected cave. Evaluate appropriateness of recreation activities as a part of the Cave Implementation Plan.	Yes	No	A Forest-wide Cave Implementation Plan has not been developed. An analysis of potential project impacts to caves was completed as part of the EIS (see Section 3.8). Mitigation measures will be applied for project impacts to caves as described in the mitigation and monitoring plan (EIS Appendix J).
Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	42	Caves	Bat roosts and other sensitive biological resources within caves will be managed using all appropriate means identified in the Cave Implementation Plan.	Yes	No	
Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	45	Minerals / Caves	Potential impacts to cave resources will be considered in reviewing all proposed Notices of Intent/Plans of Operation. Appropriate land will be withdrawn from mineral entry when necessary to provide cave protection.	Yes	No	
Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	46	Minerals / Caves	When compatible with identified resource values, research activity within caves will be permitted.	No	No	The standard and guideline is not applicable to the proposed project.
Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	45	Minerals / Oils and Gas	Respond to oil and gas Lease applications including EA if needed.	No	No	The standard and guideline is not applicable to the proposed project.
Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	45	Minerals	Conduct mineral examinations and initiate requests for contest hearings as needed.	No	No	The standard and guideline is not applicable to the proposed project.

Forest Plan Section	Page Number	Resource	Forest Plan Text	Applicable? (Y/N)	Requires Amendment? (Y/N)	Rationale
Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	45	Minerals	Prepare and administer small sales of mineral materials from previously designated areas.	No	No	The standard and guideline is not applicable to the proposed project.
Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	45	Minerals	Respond to requests for large quantities of common variety mineral materials through the NEPA process, advertise sale (if appropriate), and permit administration.	No	No	The standard and guideline is not applicable to the proposed project.
Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	45	Minerals	Annual reclamation of mineral areas to protect the public and restoration of resource damage and public safety hazards as needed. Accomplish all backlog work as funding is made available.	No	No	The standard and guideline is not applicable to the proposed project.
Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	47	Minerals	Review mineral withdrawal needs in Fiscal Year 1988.	No	No	The standard and guideline is not applicable to the proposed project.
Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	47	Minerals	Obtain mineral withdrawals for locatable minerals and appropriate surface protection stipulations for leasable minerals on all proposed developed recreation sites and administrative sites two years ahead of construction.	Yes	No	The proposed project includes development of new recreation sites, the locations of which are still being evaluated. If determined necessary by the Forest, mineral withdrawals would be obtained prior to construction.
Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	47	Minerals	Administer existing Federal Energy Regulatory Commission licenses and permits.	No	No	The standard and guideline is not applicable to the proposed project.
Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	39	Recreation / Safety	[Not applicable to 3I] Visitor information and interpretive service programs will be at a level that encourages basic user safety. This would entail primarily issuance of Forest and recreation maps only and office receptionist service to the public.	No	No	The standard and guideline is not applicable to the proposed project.
Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	39	Scenery	Prepare viewshed corridor plans for all sensitivity Level 1 travel routes, use areas, and water bodies by 1995.	No	No	The standard and guideline is not applicable to the proposed project.

Forest Plan Section	Page Number	Resource	Forest Plan Text	Applicable? (Y/N)	Requires Amendment? (Y/N)	Rationale
Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	39	Scenery	Inventory existing visual condition of landscape.	No	No	The standard and guideline is not applicable to the proposed project.
Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	39	Scenery	Coordinate visual quality objectives (VQO) on lands adjacent to other Forests.	No	No	The standard and guideline is not applicable to the proposed project.
Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	39	Scenery	Carry out actual rehabilitation to restore facilities, lands, and/or resources to meet VQO's.	Yes	No	The project would result in the degradation of portions existing VQO classes within the project area. A Forest Plan Amendment is required to amend the desired VQO class proportion for each management area. The management direction of this forest-wide standard and guideline would not be impacted.
Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	39	Scenery	Prepare interpretive services O&M plan for year-long project work activities and programs.	No	No	The standard and guideline is not applicable to the proposed project.
Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	39	Scenery	Coordinate interpretive services with adjacent Forests.	No	No	The standard and guideline is not applicable to the proposed project.
Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	39	Scenery	[Not applicable to 2F] Maintain a full service level for visitor information services (VIS).	No	No	The standard and guideline is not applicable to the proposed project.
Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	40	Scenery	Develop and administer O&M plans for visual resource projects. Full participation in all project EA's for all proposals having a potential impact on the visual resource.	No	No	The standard and guideline is not applicable to the proposed project.
Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	40	Scenery	All EA's will analyze the potential impact the proposed action may have on the visual resources. Landscape architecture input is required on all projects affecting visual resource.	Yes	No	The standard and guideline is not applicable to the proposed project.

Forest Plan Section	Page Number	Resource	Forest Plan Text	Applicable? (Y/N)	Requires Amendment? (Y/N)	Rationale
Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	51	Scenery	[Not applicable to 3I and 2F] Maintain high quality visual conditions. The form, line, texture and color of characteristic landscapes will be clearly distinguishable when viewed as "middle ground" (per the VQO system). Ecosystem and cultural resources will remain unmodified by air pollutants.	No	No	The standard and guideline is not applicable to the proposed project.
Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	38-4	Scenery	Manage for Visual Quality Objectives (VQO's) ranging from Preservation to Maximum Modification as defined for each prescription and delineated in the Forest Visual Resource Inventory. Apply design guidelines found in USDA Handbooks and/or National Forest Landscape Management Series.	Yes	No	The project would result in the degradation of portions existing VQO classes within the project area. A Forest Plan Amendment is required to amend the desired VQO class proportion for each management area. The management direction of this forest-wide standard and guideline would not be impacted.
Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	38-4	Scenery	Refine variety classes, sensitivity levels, and visual quality objectives when needed for project-level planning.	Yes	No	The project would result in the degradation of portions existing VQO classes within the project area. A Forest Plan Amendment is required to amend the desired VQO class proportion for each management area. The management direction of this forest-wide standard and guideline would not be impacted.
Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	38-4	Scenery	Prepare comprehensive inventory of Visual Absorption Capacity (VAC).	No	No	The standard and guideline is not applicable to the proposed project.
Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	38	Recreation / Site Design	Allow for handicap use in developed and VIS site design	No	No	The standard and guideline is not applicable to the proposed project.
Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	39	Recreation / Special Uses	Commercial recreation special use permits may be issued to qualified applicants whose services are available to all members of the public when the proposed use (a) fulfills a demonstrated public need without unduly infringing on the use by the general public, (b) is identified in and is in accordance with an approved implementation plan (where called for), and will not cause the carrying capacity of the involved area to be exceeded, (c) does not serve a function that can logically be provided by private enterprise off National Forest System lands and will provide a type of recreation activity naturally associated with a National Forest, and (d) in complementary to Forest Service and Management Area objectives, programs, and purposes.	No	No	The standard and guideline is not applicable to the proposed project.
Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	39	Recreation / Special Uses	Continue administration of existing recreation special use permits to assure compliance, and to assure that a quality public service is provided consistent with Forest Service and Management Area objectives.	No	No	The standard and guideline is not applicable to the proposed project.

Forest Plan Section	Page Number	Resource	Forest Plan Text	Applicable? (Y/N)	Requires Amendment? (Y/N)	Rationale
Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	40	Recreation / Special Uses	Use established outfitter/guide allocations contained in the Standards and Guidelines for each Management Area as the basis for all decisions/recommendations (except for the category of "fishing guide" which is unlimited at this time). When unused service days are available, the maximum number of service days per permit may be temporarily increased, so long as the maximum number of permits and total service days per year are not exceeded (this is not allowed with "pool" service days).	No	No	The standard and guideline is not applicable to the proposed project.
Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	40	Recreation / Special Uses	[Not applicable to 2F] Establish a Forest wide Total Service Day allocation for hunting as shown in table below [See Forest Plan for Table]. Issue priority and temporary permits from this allocation. Require permittees to submit an annual operating plan identifying the desired service days and Management Areas for hunting services.	No	No	The standard and guideline is not applicable to the proposed project.
Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	46	Recreation / Special Uses	Respond to applications for new permits, amendments, documents and leases within 30 days of receipt. Administer all existing permits.	No	No	The standard and guideline is not applicable to the proposed project.
Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	46	Recreation / Special Uses	Efforts will be made to consolidate new electronic site proposals on currently approved sites. Recommendations to the Regional Forester on new electronic site classifications will be made after a comprehensive environmental analysis indicates such occupancy will not compromise other National Forest management objectives.	No	No	The standard and guideline is not applicable to the proposed project.
Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	46	Recreation / Special Uses	Requests for utility corridors will be coordinated to locate needed facilities within existing corridors where feasible. Design and construction practices will meet the standards defined in National Forest Landscape Management Volume 2, Chapter 2, U.S.D.A. Handbook 478.	Yes	No	Utility corridors were located within existing corridors where feasible. Utilities will be built to Forest Service standards, including referenced Forest Service Handbook. The Forest would review all construction and engineering documentation prior to approving the final general plan of operations.
Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	46	Recreation / Special Uses	Authorizations for special uses may be issued to qualified applicants when the proposed use (a) fulfills a demonstrated special need without unduly infringing on the use by the general public, (b) is in accordance with an approved implementation plan (where called for) and will not cause adverse impacts on the National Forest and its resources which cannot be fully mitigated, (c) does not serve a function that can be provided by private enterprise off National Forest lands, and (d) is complementary to Forest Service and Management Area objectives, programs, and purposes.	Yes	No	A special use permit would be obtained for the proposed powerline. Mitigations for impacts resulting from the powerline will be implemented as described in the mitigation and monitoring plan (EIS Appendix J). All other proposed project components are incidental to mining and are being approved under a mine general plan of operations.
Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	47	Recreation / Special Uses	Authorize new utility corridors only after full compliance with the NEPA process.	Yes	No	The NEPA process is being completed for the proposed project.

Forest Plan Section	Page Number	Resource	Forest Plan Text	Applicable? (Y/N)	Requires Amendment? (Y/N)	Rationale
Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	48	Recreation / Trails	Forest-wide review of trail transportation planning to identify existing conditions and need for additional trails. Develop Trail Transportation Action Plan.	No	No	The standard and guideline is not applicable to the proposed project.
Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	48	Recreation / Trails	Maintain all trails with numbers from 500 to 999 to maintenance Level 1 (except those which are to be closed or are under permit) after all other trails have been maintained to their called-for maintenance level.	Yes	No	An analysis of project EIS (see Section 3.9) process. The proposed project would implement mitigation for impacts to trails as described in the mitigation and monitoring plan (EIS Appendix J). The proposed project would not impact the Forest's ability to continue maintain trails to their called-for maintenance levels.
Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	47	Recreation / Wild and Scenic Rivers	Initiate and complete evaluation of upper Tonto Creek and East Verde for Wild and Scenic River designation as directed by Congress.	No	No	The standard and guideline is not applicable to the proposed project.
Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	38	Recreation	[Not applicable to 2F] Update an upgrade RIM database using double-sample techniques to determine use at developed recreation sites.	No	No	The standard and guideline is not applicable to the proposed project.
Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	38	Recreation	Continue cooperative planning with other Forests and Federal, State, County, and local governments to coordinate Forest recreation management.	Yes	No	The Forest is coordinating with federal, state, county, and local governments on the proposed project through the NEPA process.
Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	38	Recreation	Initiate Code-A-Site Inventories at dispersed recreation sites.	No	No	The standard and guideline is not applicable to the proposed project.
Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	38	Recreation	Prepare comprehensive operation and maintenance (O&M) plan annually to ensure most effective use of dollars and manpower	No	No	The standard and guideline is not applicable to the proposed project.
Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	38	Recreation	Annually revise and review off-highway vehicle (OHV) maps. Inform the public to ensure maximum volunteer compliance of motorized vehicle restrictions.	No	No	The standard and guideline is not applicable to the proposed project.

Forest Plan Section	Page Number	Resource	Forest Plan Text	Applicable? (Y/N)	Requires Amendment? (Y/N)	Rationale
Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	39	Recreation	Recreation Opportunity Spectrum (ROS) classes will be managed according to the existing inventory (See Appendix E).	Yes	No	The project would result in the degradation of portions existing ROS classes within the project area. A Forest Plan Amendment is required to amend the desired ROS class proportion for each management area. The management direction of this forest-wide standard and guideline would not be impacted.
Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	40	Recreation	Continue to cooperate with other agencies and governments to coordinate recreation management.	Yes	No	The Forest is coordinating with federal, state, county, and local governments on the proposed project through the NEPA process.
Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	45	Recreation / Engineering	Electronic sites will be managed to the following standards: (1) maximize point use of existing facilities, (2) lot plans as presently established will be eliminated. Sites allocated on a total required facility basis, (3) maintenance of individual site roads and trails will be carried out jointly through cooperative maintenance proportionate payments to the amount of use or will be maintained by the users, (4) clearing of vegetation will be limited to that which poses a hazard to facilities and operational efficiency, (5) Commercial broadcasting and constant carriers, will be allowed where compatible. These sites must be physically separated by at least one mile from sites designated for two-way user, i.e., land mobile and microwave. Any potential electromagnetic interference must be resolved before construction can proceed. Microwave corridors will be protected. (6) VHF transmitters will be permitted if frequencies are compatible with those of previous users. (Authorize only specified frequencies and not wide range bands on 2700-10 Technical Data Sheets.), (7) All new and replacement towers must be self-supporting, (8) antennas and towers will be below the height for which the FAA requires lights because of the interference with the fire lookout tower and aesthetics, (9) all utility lines serving the site will be placed underground for new sites where VQO would be degraded by conventional above ground construction. Above ground utilities within existing sites will be placed below ground at the earliest opportunity, (10) any prospective permittee desiring a site shall furnish detailed plans for building and antenna support structure to the District Ranger for approval. All towers will meet Electronic Industries Association standard RS-222-C, structural standards for steel antenna towers. These plans will show the relationship of the proposed building and antenna to other facilities in the area, along with manufacturer's specifications for equipment to be used, and (11) all buildings will be colored to blend with the background.	No	No	The standard and guideline is not applicable to the proposed project.
Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	47	Recreation / Engineering	Update land line location atlas as additional corners are found and boundary is posted.	No	No	The standard and guideline is not applicable to the proposed project.
Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	47	Recreation / Engineering	Locate and post all land line needed for outputs two-to-three years in advance of resource output production years.	No	No	The standard and guideline is not applicable to the proposed project.

Forest Plan Section	Page Number	Resource	Forest Plan Text	Applicable? (Y/N)	Requires Amendment? (Y/N)	Rationale
Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	43	Fish	In streams inhabited by fish, structures need to provide for fish passage. In addition, structures containing natural stream bottoms are preferred over culverts.	Yes	No	No structures would be constructed within steams.
Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	41	Fish	Manage the warm water non-game type streams to support Gila sucker and longfin dace.	Yes	No	An analysis of project impacts to groundwater-dependent ecosystems (GDEs), groundwater quantity and changes to groundwater and surface water quality was completed as part of the EIS (see Section 3.7). Impacts to GDEs and groundwater and surface water quality would be monitored as described in Section 3.7 of the EIS and as per Resolution Copper's "Monitoring and Mitigation Plan for Groundwater Dependent Ecosystems and Water Wells", dated April 12, 2019. If monitoring identifies real-world impacts that were not predicted by the modeling, mitigation actions can potentially be developed and implemented.
Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	43	Pesticides	Pesticide proposals will be handled through additional environmental analysis and documentation to ensure project objectivity and public safety.	No	No	The standard and guideline is not applicable to the proposed project.
Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	51	Pesticides	When pesticides are used, project plans will contain appropriate and necessary monitoring procedures and mitigation measures.	No	No	The standard and guideline is not applicable to the proposed project.
Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	42	Range	Allotment analysis, to an appropriate level, on 10 year cycles in Level D management areas, 15-25 years for extensive Levels B & C.	No	No	The standard and guideline is not applicable to the proposed project.

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Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	42-1	Range	<p>Allowable Use Guide (Percent) By Range Condition and Management Strategy is shown in a table on this page [See Forest Plan for table]. Site-specific data may show that the numbers in this table are substantially high or low. These numbers are purposefully conservative to assure protection in the event that site-specific data is not available. Range Condition as evaluated and ranked by the Forest Service is a subjective expression of the status or health of the vegetation and soil relative to their combined potential to produce a sound and stable biotic community. Soundness and stability are evaluated relative to a standard that encompasses the composition, density, and vigor of the vegetation and physical characteristics of the soil.</p> <p>In consultation with the US Fish and Wildlife Service, develop site-specific forage use levels. In the event that site-specific information is not available, average key species forage utilization in key forage monitoring areas by domestic livestock and wildlife should not exceed levels in the above table during the forage growing season.</p> <p>The above table is based on composition and climatic conditions typical of sites below the Mogollon Rim. On sites with higher precipitation and vegetation similar to sites above the Mogollon Rim, allowable use for ranges in poor to excellent condition under deferment or rest strategies may be increased by 5%. The guidelines established in the above table are applicable only during the growing season for the identified key species with-in key areas. Allowable use for key forage species during the dormant season is not covered in the above table. These guidelines are to be applied in the absence of more specific guidelines currently established through site specific NEPA analysis for individual allotments.</p> <p>Guidelines for allowable use for specific allotment(s) management or for grazing strategies not covered in the above table will vary on a site-specific basis when determined through the NEPA process [See Forest Plan for table].</p> <p>Allowable use guidelines may be adjusted through the land management planning revision or amendment process. Guidelines established through this process to meet specific ecosystem objectives, will also employ the key species and key area concept and will be monitored in this manner.</p>	Yes	No	The proposed project could impact some grazing allotments. Grazing management is subject to a specific management process separate from the Forest Plan, allowing for periodic review and updates to balance productivity with grazing pressure. Changes in allotments would be accommodated through the normal grazing management process to reflect changes in suitability for grazing.
Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	43	Range	Assure permittee maintenance of existing structural improvements on an annual basis to assure full life of project.	Yes	No	The proposed project could impact some grazing allotments. Grazing management is subject to a specific management process separate from the Forest Plan, allowing for periodic review and updates to balance productivity with grazing pressure. Changes in allotments would be accommodated through the normal grazing management process to reflect changes in suitability for grazing.
Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	42	Range	Forage use by grazing ungulates will be maintained at or above a condition which assures recovery and continued existence of threatened and endangered species.	Yes	No	The proposed project could impact some grazing allotments. Grazing management is subject to a specific management process separate from the Forest Plan, allowing for periodic review and updates to balance productivity with grazing pressure. Changes in allotments would be accommodated through the normal grazing management process to reflect changes in suitability for grazing.

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Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	42-1	Range	Identify key ungulate forage monitoring areas. These key areas will normally be 1/4 to 1 mile from water, located on productive soils on level to intermediate slopes, and be readily accessible for grazing. Size of the key forage monitoring areas could be 20 to 500 acres. In some situations such as high mountain meadows with perennial streams, key areas may be closer than 1/4 mile from water and less than 20 acres. Within key forage monitoring areas, select appropriate key species to monitor average allowable use.	No	No	The standard and guideline is not applicable to the proposed project.
Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	42-2	Range	General administration of grazing permits, including annual validations, annual permittee plans, permit waivers, and permit modifications.	Yes	No	The proposed project could impact some grazing allotments. Grazing management is subject to a specific management process separate from the Forest Plan, allowing for periodic review and updates to balance productivity with grazing pressure. Changes in allotments would be accommodated through the normal grazing management process to reflect changes in suitability for grazing.
Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	43	Range	Specific allotment goals and objectives, utilization guidelines, grazing systems or methods, structural and non-structural improvement needs, and specific monitoring methods will be documented in allotment management plans for each allotment. Specific objectives documented in allotment management plans will be attainable within a period of 5 to 10 years. Allotment management plans will be updated revised, or amended on 5 to 10 year increments to ensure they accurately reflect allotment goals and objectives and the method of grazing management being employed on the allotments. Prescribed monitoring will be sufficient to determine if allotment management objectives are being met at a reasonable level. If it is determined through allotment monitoring that objectives are not being achieved, necessary changes in permitted numbers and/or management will then be made. In extreme cases, exclusion of livestock by fencing may be necessary.	Yes	No	The proposed project could impact some grazing allotments. Grazing management is subject to a specific management process separate from the Forest Plan, allowing for periodic review and updates to balance productivity with grazing pressure. Changes in allotments would be accommodated through the normal grazing management process to reflect changes in suitability for grazing.
Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	42-2	Range & Riparian Areas	Negotiated agreements with permittees is the primary means for achieving needed permit adjustments. Range analyses and Production Utilization studies will be used to document needed adjustments especially when negotiated agreements cannot be reached. Manage riparian areas to the level needed to provide protection and improvement.	Yes	No	The proposed project could impact some grazing allotments. Grazing management is subject to a specific management process separate from the Forest Plan, allowing for periodic review and updates to balance productivity with grazing pressure. Changes in allotments would be accommodated through the normal grazing management process to reflect changes in suitability for grazing.
Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	41	Range	Conduct surveys and write reports on allotments scheduled for re-analysis and possible stocking adjustments. Allow for forage to maximize Threatened and Endangered (T&E) species, management indicator species, and emphasis harvest species.	Yes	No	The proposed project could impact some grazing allotments. Grazing management is subject to a specific management process separate from the Forest Plan, allowing for periodic review and updates to balance productivity with grazing pressure. Changes in allotments would be accommodated through the normal grazing management process to reflect changes in suitability for grazing.
Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	43	Riparian Areas	An interdisciplinary (I.D.) team will evaluate the need for buffer strips between proposed roads and adjacent water bodies. Where a buffer strip is deemed necessary, the I.D. team will recommend the width of strip needed to achieve adequate protection of aquatic and riparian resources.	Yes	No	The Forest would review all construction and engineering documentation prior to approving the final general plan of operations. A determination of the need for buffer strips will be made at that time.

Forest Plan Section	Page Number	Resource	Forest Plan Text	Applicable? (Y/N)	Requires Amendment? (Y/N)	Rationale
Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	41	Riparian Areas / Range	<p>Coordinate with range to achieve utilization in the riparian areas that will not exceed 20% of the current annual growth by volume of woody species.</p> <p>Coordinate with range to achieve at least 80% of the potential riparian overstory crown coverage.</p> <p>Coordinate with range to achieve at least 50% of the cottonwood-willow and mixed broadleaf acres in structural Type 1 by 2030.</p> <p>Rehabilitate at least 80% of the potential shrub cover in riparian areas through the use of appropriate grazing systems and methods.</p>	Yes	No	The proposed project could impact some grazing allotments. Grazing management is subject to a specific management process separate from the Forest Plan, allowing for periodic review and updates to balance productivity with grazing pressure. Changes in allotments would be accommodated through the normal grazing management process to reflect changes in suitability for grazing.
Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	41	Riparian Areas	Any surface or vegetation disturbing projects in riparian areas will be coordinated and will specify protection or rehabilitation of riparian-dependent resources. For example, the required planting of large cottonwood poles in 7 Mile Wash by Arizona Department of Transportation (ADOT).	Yes	No	Perennial water sources with associated riparian vegetation that are impacted by groundwater dewatering are subject to mitigation, as per Resolution Copper's "Monitoring and Mitigation Plan for Groundwater Dependent Ecosystems and Water Wells", dated April 12, 2019. Replacement of water sources would prevent loss of riparian vegetation or potentially replace riparian vegetation.
Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	40-9	Riparian Areas	Emphasize maintenance and restoration of healthy riparian ecosystems through conformance with Forest Plan riparian standards and guidelines. Management strategies should restore degraded riparian areas to good condition as soon as possible. Damage to riparian vegetation, stream banks, and channels should be prevented.	Yes	No	There are a number of perennial springs/GDEs that would be directly lost by either the subsidence crater (Rancho Rio Spring, The Grotto), Alternative 2/3 (Benson Spring, Bear Tank Spring, Perlite Spring), or Alternative 4 (Iberri Spring, McGinnel Spring). The amount of riparian vegetation lost by these springs is minimal (likely less than 1-acre total), based on Montgomery & Associates "Spring and Seep Catalog, Version 2", dated June 15, 2018:
Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	41	Riparian Areas	<p>Rehabilitate and maintain through improved management practices, mixed broadleaf riparian to achieve 80% of the potential overstory crown coverage. Natural regeneration is anticipated to achieve most of this goal. Artificial regeneration may be necessary in some areas.</p> <p>Re-establish riparian vegetation in severely degraded but potentially productive riparian areas. Natural regeneration is anticipated to achieve this goal, but artificial regeneration may be necessary in some areas.</p> <p>Rehabilitate cottonwood willow Type 11 to achieve conversion to Type 1 by the year 2030. Natural regeneration is anticipated to achieve most of this goal, but artificial regeneration may be necessary in some areas</p>	Yes	No	<ul style="list-style-type: none"> • The Grotto – Small pools, highly seasonal presence of waters. Riparian vegetation is primarily some rushes, ferns, and oaks limited around the pool. (est. 0.10 acres) • Rancho Rio Spring – Series of bedrock tinajas. Riparian vegetation is some grasses, cattail, saltcedar, hackberry, willow, cottonwood. (est. 0.15 acres) • Benson Spring – 20 meter x 20 meter tinaja, and seeps for another 50 meters. Riparian vegetation is mostly small vegetation, not trees. (est. 0.15 acres) • Bear Tank Spring- 10 meter x 10 meter pool. Riparian vegetation is a lone willow and an understory of annual forbs and grasses are present. (est. 0.05 acres) • Perlite Spring – 15 meter x 20 meter pool. Riparian vegetation restricted to grasses. (est. 0.10 acres) • Iberri Spring - Series of pools over about 15 meters. One large seepwillow present, no riparian overstory. (est. 0.05 acres) • McGinnel Spring - Vertical culvert forming shallow well. No understory vegetation, but seepwillow present.(est. 0.05 acres)
Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	43	Riparian Areas & Water	Avoid channel changes or disturbance of stream channels and minimize impacts to riparian vegetation.	Yes	No	

Forest Plan Section	Page Number	Resource	Forest Plan Text	Applicable? (Y/N)	Requires Amendment? (Y/N)	Rationale
Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	47	Soil	Implement and maintain soil resource improvement projects as needed.	No	No	The standard and guideline is not applicable to the proposed project.
Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	47	Soil	Lands which require erosion control measures will be identified, mapped, and cataloged.	Yes	No	The proposed project will include construction best management practices for soil erosion in the mitigation and monitoring plan (EIS Appendix J).
Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	47	Soil	Soil Terrestrial Ecosystem Surveys are conducted as required by the National Cooperative Soil Survey. Work is to be conducted progressively to ensure a quality data base for Forest-wide multiple use management. Emphasis may be placed on specific work areas or management needs when personnel and funding are adequate.	No	No	The standard and guideline is not applicable to the proposed project.
Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	40-8	Soil & Water	Manage the ground surface layer to maintain satisfactory soil conditions i.e., to minimize soil compaction; and to maintain hydrologic and nutrient cycles.	Yes	No	Project impacts to soil resources as described in Section 3.3 of the EIS and include direct loss where soils are covered or removed, exposure to accelerated wind and water erosion, and sediment delivery to downstream washes and streams. During construction, best management practices for soil resources would be employed to minimize soil compaction and erosion. Over the long-term, reclamation treatments would be applied to soils to reestablish soil stability.
Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	44	Soil & Water	Mitigate the adverse effects of planned activities on the soil and water resources through the use of Best Management Practices.	Yes	No	The proposed project will include best management practices for soil and water resources in the mitigation and monitoring plan (EIS Appendix J).
Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	44	Vegetation & Water	Manage vegetation to achieve satisfactory or better watershed conditions.	Yes	No	Project impacts to vegetation, vegetation communities, and special status plan species are described in Section 3.3 of the EIS and include impacts from vegetation removal, spread of noxious and invasive weeds, and community fragmentation. The proposed project would implement minimization measures for impacts to vegetation as described in the mitigation and monitoring plan (EIS Appendix J). Over the long-term, revegetation treatments would be applied to increase vegetative cover in areas of disturbance.
Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	42	Vegetation & Wildlife	Maintain all habitat improvements to condition Level 2 on a five-year schedule.	No	No	The standard and guideline is not applicable to the proposed project.

Forest Plan Section	Page Number	Resource	Forest Plan Text	Applicable? (Y/N)	Requires Amendment? (Y/N)	Rationale
Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	42	Vegetation & Wildlife	Initiate informal or formal consultation, as required by the Endangered Species Act, with the U.S. Fish and Wildlife Service on all actions that effect T&E plant and animal species. Maximize coordination with U.S. Fish and Wildlife Service regarding federal T&E plant and animal species and their habitats.	Yes	No	The Forest has initiated consultation with the U.S. Fish and Wildlife Service for the proposed project. The Forest will continue to coordinate with the U.S. Fish and Wildlife Service
Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	40-1	Vegetation & Wildlife	Maintain a minimum of 30% effective ground cover for watershed protection and forage production, especially in primary wildlife forage producing areas. Where less than 30% exists, it will be the management goal to obtain a minimum of 30% effective ground cover.	Yes	No	Depending on the alternative selected, between 4,000 and 8,600 acres of Forest Service lands could be disturbed by the proposed project. Project impacts to vegetation, vegetation communities, and special status plant species are described in Section 3.3 of the EIS and include impacts from vegetation removal, spread of noxious and invasive weeds, and community fragmentation. The proposed project would implement minimization measures for impacts to vegetation as described in the mitigation and monitoring plan (EIS Appendix J). Over the long-term, revegetation treatments would be applied to increase vegetative cover in areas of disturbance.
Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	44	Water	When developing water for National Forest purposes, preference should be given to those types of developments that waste the least amount of water.	Yes	No	An analysis of project impacts to groundwater-dependent ecosystems (GDEs), groundwater quantity and changes to groundwater and surface water quality was completed as part of the EIS (see Section 3.7). Impacts to GDEs and groundwater and surface water quality would be monitored as described in Section 3.7 of the EIS and as per Resolution Copper's "Monitoring and Mitigation Plan for Groundwater Dependent Ecosystems and Water Wells", dated April 12, 2019. If monitoring identifies real-world impacts that were not predicted by the modeling, mitigation actions can potentially be developed and implemented.
Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	44	Water	Administer portions of three non-point source water pollution plans as defined in Section 208 of Public Law 92-500.	No	No	The standard and guideline is not applicable to the proposed project.
Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	44	Water	As needed, prepare water resource improvement plans for high priority watersheds and problem areas.	Yes	No	An analysis of project impacts to groundwater-dependent ecosystems (GDEs), groundwater quantity and changes to groundwater and surface water quality was completed as part of the EIS (see Section 3.7). Impacts to GDEs and groundwater and surface water quality would be monitored as described in Section 3.7 of the EIS and as per Resolution Copper's "Monitoring and Mitigation Plan for Groundwater Dependent Ecosystems and Water Wells", dated April 12, 2019. If monitoring identifies real-world impacts that were not predicted by the modeling, mitigation actions can potentially be developed and implemented.
Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	45	Water	Comply with State of Arizona's Ground Water Management Act.	Yes	No	The proposed project would comply with the State of Arizona's Ground Water Management Act.

Forest Plan Section	Page Number	Resource	Forest Plan Text	Applicable? (Y/N)	Requires Amendment? (Y/N)	Rationale
Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	44	Water	Inventory watershed condition. This will include an assessment of the Forest once per decade, and smaller areas on an as needed basis.	Yes	No	Watershed condition was analyzed as part of the EIS, please refer to Section 3.7.
Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	44	Water	Obtain the water rights needed to construct future water developments and maintain instream flows. This includes coordination with the Department of Water Resources, Salt River Project and others.	?		
Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	44	Water	Prepare flood hazard analyses on proposed projects in flood prone areas per Executive Order 11988.	No	No	The standard and guideline is not applicable to the proposed project.
Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	44	Water Resources	Prepare for the Gila River Adjudication by the identification and quantification of all existing uses and future needs that will be claimed under State Statutes and the Federal Reservations Doctrine.	No	No	The standard and guideline is not applicable to the proposed project.
Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	44	Water	Resolve water right disputes by participating in State administrative hearings, negotiation, litigation, etc.	Yes	No	The Forest would participate in State administrative hearings, negotiations, litigation, etc. if needed.
Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	44	Water	Water quality will be monitored in key locations to aid in the identification and correction of resource problems.	Yes	No	The proposed project would implement a water quality monitoring program as described in the mitigation and monitoring plan (EIS Appendix J).
Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	45	Water	Water resource improvement projects to be implemented as needed.	No	No	The standard and guideline is not applicable to the proposed project.
Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	42	Water & Wildlife	Provide a minimum of four waters per section in small game and one water per section in big game key areas.	Yes	No	Perennial water sources with associated riparian vegetation that are impacted by groundwater dewatering are subject to mitigation, as per Resolution Copper's "Monitoring and Mitigation Plan for Groundwater Dependent Ecosystems and Water Wells", dated April 12, 2019. Replacement of water sources would prevent loss of riparian vegetation or potentially replace riparian vegetation.

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Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	42	Water & Wildlife	Provide wildlife access and escape ramps on all livestock and wildlife water developments.	Yes	No	Replaced water sources would be designed to applicable forest standards.
Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	42	Wildlife	Continue close coordination with State and other federal agencies for the benefit of plant and animal species.	Yes	No	The Forest is coordinating with federal, state, county, and local governments on the proposed project through the NEPA process.
Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	40-1	Wildlife	Continue to clear all projects for threatened, endangered, proposed, and candidate plant and animal species. Clearances will be done by a Wildlife Biologist and reviewed by the Forest Biologist.	Yes	No	An analysis of project impacts to threatened, endangered, proposed, and candidate plant and animal species was completed as part of the EIS (see Sections 3.3 and 3.8) and as required by the Endangered Species Act. The Forest ID team includes wildlife and biology specialists.
Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	42	Wildlife	Cooperate and consult with the Arizona Game and Fish Department, U.S. Fish and Wildlife Service, State universities, professional societies, and various conservation organizations regarding proposals and programs concerned with management of wildlife habitat.	Yes	No	The Forest is coordinating with federal, state, county, and local governments on the proposed project through the NEPA process. The Forest has also received comments from various conservation organizations through the NEPA process.
Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	40-1	Wildlife	Habitat requirements for endangered species will have precedence over threatened species. Habitat requirements for threatened, endangered, and sensitive species will take precedence over requirements for other species and habitat requirements for sensitive species will take precedence over nonsensitive species.	Yes	No	An analysis of project impacts to threatened, endangered, proposed, and candidate plant and animal species was completed as part of the EIS (see Sections 3.3 and 3.8) and as required by the Endangered Species Act. The proposed project would implement mitigation for impacts to threatened, endangered and sensitive species as described in the mitigation and monitoring plan (EIS Appendix J). Mitigation requirements would be determined through the ESA Section 7 consultation process.
Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	41	Wildlife	Identify and delineate the home range of all bald eagle breeding areas. Document and correct any resource conflicts and disturbances to bald eagles and their habitat. During portions of any year that a bald eagle's nest site is active, an appropriate area of land surrounding the nest will be closed to public entry if such closure is necessary.	No	No	The standard and guideline is not applicable to the proposed project.
Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	40-1	Wildlife	Identify, survey, map, and analyze habitat for all Federally-listed species. Identify management conflicts and enhancement opportunities. Correct any management conflicts or problems.	Yes	No	An analysis of project impacts to threatened, endangered, proposed, and candidate plant and animal species was completed as part of the EIS (see Sections 3.3 and 3.8) and as required by the Endangered Species Act. The proposed project would implement mitigation for impacts to threatened, endangered and sensitive species as described in the mitigation and monitoring plan (EIS Appendix J).
Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	40-1	Wildlife	Identify, survey, map, and analyze habitat for all state species as listed in Threatened Native Wildlife in Arizona. Correct any management conflicts or problems.	Yes	No	An analysis of project impacts to sensitive plant and animal species was completed as part of the EIS (see Sections 3.3 and 3.8), including coordination with AGFD on state listed species. The proposed project would implement mitigation for impacts to sensitive species as described in the mitigation and monitoring plan (EIS Appendix J).

Forest Plan Section	Page Number	Resource	Forest Plan Text	Applicable? (Y/N)	Requires Amendment? (Y/N)	Rationale
Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	40-1	Wildlife	Locate and survey all potential Gila Topminnow sites. Where feasible stock sites, monitor for success, and restock if necessary.	No	No	An analysis of project impacts to threatened, endangered, proposed, and candidate plant and animal species was completed as part of the EIS (see Sections 3.3 and 3.8) and as required by the Endangered Species Act. The proposed project would implement mitigation for impacts to threatened, endangered and sensitive species as described in the mitigation and monitoring plan (EIS Appendix J).
Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	42	Wildlife	Maximize coordination with the Arizona Game and Fish Department regarding State listed species and their habitats.	Yes	No	The Forest is coordinating with federal, state, county, and local governments on the proposed project through the NEPA process.
Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	41	Wildlife	Monitor habitat diversity, animal species composition and density and management indicator species as per the Forest Monitoring Plan (Chapter 5).	Yes	No	An analysis of project impacts to sensitive plant and animal species, including management indicator species, was completed as part of the EIS (see Sections 3.3 and 3.8). The proposed project would implement mitigation for impacts to sensitive species as described in the mitigation and monitoring plan (EIS Appendix J).
Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	40-1	Wildlife	New additions of listed, proposed or candidate species by the US Fish and Wildlife Service will be protected.	Yes	No	An analysis of project impacts to threatened, endangered, proposed, and candidate plant and animal species was completed as part of the EIS (see Sections 3.3 and 3.8) and as required by the Endangered Species Act. The proposed project would implement mitigation for impacts to threatened, endangered and sensitive species as described in the mitigation and monitoring plan (EIS Appendix J).
Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	40	Wildlife	Study and refine the wildlife habitat management prescriptions for the different vegetative types.	No	No	The standard and guideline is not applicable to the proposed project.
Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	42	Wildlife	Survey, study and assess the status of candidate species on a priority basis. Identify, document and correct any management conflicts to the species or their habitats.	Yes	No	An analysis of project impacts to threatened, endangered, proposed, and candidate plant and animal species was completed as part of the EIS (see Sections 3.3 and 3.8) and as required by the Endangered Species Act. The proposed project would implement mitigation for impacts to threatened, endangered and sensitive species as described in the mitigation and monitoring plan (EIS Appendix J).
Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	40-1	Wildlife	Survey, study, and assess the status of Desert Tortoise habitat on the Forest. Identify, document, and correct any management conflicts with Tortoises or their habitat.	Yes	No	An analysis of project impacts to Sonoran Desert Tortoise habitat was completed as part of the EIS (see Section 3.8). The proposed project would implement mitigation for impacts to sensitive species as described in the mitigation and monitoring plan (EIS Appendix J).

Forest Plan Section	Page Number	Resource	Forest Plan Text	Applicable? (Y/N)	Requires Amendment? (Y/N)	Rationale
Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	41	Wildlife	Using Desired Future Condition as a guide, optimize wildlife outputs in all management units by coordination of other resource activities and direct habitat improvement projects. The goal will be to meet projected future demand for consumptive and non-consumptive wildlife use.	Yes	No	An analysis of project impacts to wildlife and wildlife habitat was completed as part of the EIS (see Section 3.8). The proposed project would implement mitigation for impacts to sensitive species as described in the mitigation and monitoring plan (EIS Appendix J).
Section 4. Management Direction Management Prescriptions Applicable to All Forest Areas	40-1	Wildlife	Where appropriate and feasible, culture and stock candidate plants such as Chiricahua Dock (<i>Rumex osthoneurus</i>) into suitable habitats to eliminate the need for formal listing by the US Fish and Wildlife Service.	Yes	No	An analysis of project impacts to threatened, endangered, proposed, and candidate plant and animal species was completed as part of the EIS (see Sections 3.3 and 3.8) and as required by the Endangered Species Act. The proposed project would implement mitigation for impacts to threatened, endangered and sensitive species as described in the mitigation and monitoring plan (EIS Appendix J).

MA 2F Standards and Guidelines

Forest Plan Section	Page Number	Resource	Forest Plan Text	Applicable? (Y/N)	Requires Amendment? (Y/N)	Rationale
Section 4. Management Direction Management Prescriptions - Globe Ranger District (MA 2F)	86	Cultural Resources	Archeological survey of 100% of all Globe base-in-exchange lands with mitigation as funds become available.	Yes	No	All areas of the proposed project, including the pipelines and tailings facility, will be surveyed for cultural resources with 100% pedestrian survey coverage. Additionally, tribal monitors will participate in the cultural resource surveys.
Section 4. Management Direction Management Prescriptions - Globe Ranger District (MA 2F)	85	Cultural Resources	Develop and document feasibility study/EA's for interpretive development of Pinal City Historical Site. Carry out development plan from site surveys through design and contract preparation. Complete excavation, stabilization, and actual construction (including preparation of display materials and publications) according to schedules identified in the development plan.	No	No	The standard and guideline is not applicable to the proposed project.
Section 4. Management Direction Management Prescriptions - Globe Ranger District (MA 2F)	87-1	Fire/Fuels & Range	Continue monitoring of existing range study plots, and revegetation and brush treatment projects.	No	No	The standard and guideline is not applicable to the proposed project.
Section 4. Management Direction Management Prescriptions - Globe Ranger District (MA 2F)	87-1	Fire/Fuels & Vegetation	Integrate habitat needs through prescribed fires within fire suppression objectives.	Yes	No	Mine operations would include activities that would change fuel loads in the area or increase the possibility of accidental ignition of a wildfire, which would result in increased risk of fire and would change the severity and extent of fires that occur. The proposed project would implement mitigation for fuels and fire management as described in the mitigation and monitoring plan (EIS Appendix J).
Section 4. Management Direction Management Prescriptions - Globe Ranger District (MA 2F)	88	Fire/Fuels & Vegetation	Manage the chaparral type on a 30 year prescribed fire rotation on those sites managed for forage production and water yield.	Yes	No	Mine operations would include activities that would change fuel loads in the area or increase the possibility of accidental ignition of a wildfire, which would result in increased risk of fire and would change the severity and extent of fires that occur. The proposed project would implement mitigation for fuels and fire management as described in the mitigation and monitoring plan (EIS Appendix J). While mine operations would not preclude the use of prescribed fire to manage fuel loads and achieve vegetation management objectives on lands surrounding the project area, additional safety considerations would be required to mitigate potential risks to mine operations.
Section 4. Management Direction Management Prescriptions - Globe Ranger District (MA 2F)	88	Fire/Fuels, Range, Vegetation, & Timber	Maintenance performed on revegetation acres as determined in Allotment Management Plan to retain optimum forage production. Methods will be appropriate to vegetation and terrain of treatment areas and could include prescribed fire, chemical and/or mechanical means.	Yes	No	Mine operations would include activities that would change fuel loads in the area or increase the possibility of accidental ignition of a wildfire, which would result in increased risk of fire and would change the severity and extent of fires that occur. The proposed project would implement mitigation for fuels and fire management as described in the mitigation and monitoring plan (EIS Appendix J). While mine operations would not preclude the use of prescribed fire to manage fuel loads and achieve vegetation management objectives on lands surrounding the project area, additional safety considerations would be required to mitigate potential risks to mine operations.

Forest Plan Section	Page Number	Resource	Forest Plan Text	Applicable? (Y/N)	Requires Amendment? (Y/N)	Rationale
Section 4. Management Direction Management Prescriptions - Globe Ranger District (MA 2F)	89	Fuelwood	Administer commercial and personal use of fuelwood from slash, dead and down wood, and noncommercial species.	No	No	The standard and guideline is not applicable to the proposed project.
Section 4. Management Direction Management Prescriptions - Globe Ranger District (MA 2F)	87-1	Range	Continue present administration and utilization of Forest Service horse pastures.	No	No	The standard and guideline is not applicable to the proposed project.
Section 4. Management Direction Management Prescriptions - Globe Ranger District (MA 2F)	87-1	Range	Manage suitable rangelands at Level D. Rangeland in less than satisfactory condition will be treated with improved grazing management along with the installation of structural and non-structural improvements.	Yes	No	The proposed project could impact some grazing allotments. Grazing management is subject to a specific management process separate from the Forest Plan, allowing for periodic review and updates to balance productivity with grazing pressure. Changes in allotments would be accommodated through the normal grazing management process to reflect changes in suitability for grazing.
Section 4. Management Direction Management Prescriptions - Globe Ranger District (MA 2F)	88	Range	Develop structural improvements in association with AMP to maintain utilization at levels appropriate with management intensity and AMP objectives.	Yes	No	The proposed project could impact some grazing allotments. Grazing management is subject to a specific management process separate from the Forest Plan, allowing for periodic review and updates to balance productivity with grazing pressure. Changes in allotments would be accommodated through the normal grazing management process to reflect changes in suitability for grazing. Additionally, the Forest may require replacement of lost structure improvements and water sources as described the project mitigation and monitoring plan (EIS Appendix J).
Section 4. Management Direction Management Prescriptions - Globe Ranger District (MA 2F)	87	Range & Vegetation	Study and assess the effects of grazing on the endangered Arizona hedgehog cactus by fencing plots. Correct management conflicts within the range of Arizona hedgehog cactus.	No	No	The standard and guideline is not applicable to the proposed project.
Section 4. Management Direction Management Prescriptions - Globe Ranger District (MA 2F)	88	Range, Vegetation & Wildlife	Use of approved herbicides on a selective basis where brush encroachment is clearly inhibiting forage production for wildlife and domestic livestock. Possible treatment areas will be identified in Allotment Management Plans and will involve areas of limited size and extend where other management practices (i.e. prescribed burning) cannot be effectively or economically utilized to achieve management objectives. Projects of this nature will be subject to environmental assessment and public involvement to insure project objectivity and public safety.	No	No	The standard and guideline is not applicable to the proposed project.
Section 4. Management Direction Management Prescriptions - Globe Ranger District (MA 2F)	89	Special Uses	Issue small scale jojoba picking permits, and permits for other miscellaneous products.	No	No	The standard and guideline is not applicable to the proposed project.

Forest Plan Section	Page Number	Resource	Forest Plan Text	Applicable? (Y/N)	Requires Amendment? (Y/N)	Rationale
Section 4. Management Direction Management Prescriptions - Globe Ranger District (MA 2F)	85	Timber	All acres unsuitable for timber.	No	No	The standard and guideline is not applicable to the proposed project.
Section 4. Management Direction Management Prescriptions - Globe Ranger District (MA 2F)	89	Timber	Brush disposal will be consistent with wildlife objectives.	No	No	The standard and guideline is not applicable to the proposed project.
Section 4. Management Direction Management Prescriptions - Globe Ranger District (MA 2F)	89	Timber	Funds collected from fuelwood sales will be used in the following priorities: (1) stabilize roads, (2) reseed cut block with approved seeding mixture, (3) plant wildfire, browse species as needed.	No	No	The standard and guideline is not applicable to the proposed project.
Section 4. Management Direction Management Prescriptions - Globe Ranger District (MA 2F)	89	Timber	Sanitation and salvage wood sales will be administered as required to control disease and insects and to protect public health and safety.	No	No	The standard and guideline is not applicable to the proposed project.
Section 4. Management Direction Management Prescriptions - Globe Ranger District (MA 2F)	89	Timber	The silviculture prescription is even-aged management under the shelterwood method with pinyon uncut and 40 large juniper trees left per 40 acre cut block.	No	No	The standard and guideline is not applicable to the proposed project.
Section 4. Management Direction Management Prescriptions - Globe Ranger District (MA 2F)	90	Timber	Treat activity fuels to reduce fire hazard. Slash treatment will include removal for use as firewood, piling and burning, prescribed burning, etc.	Yes	No	<p>Mine operations would include activities that would change fuel loads in the area or increase the possibility of accidental ignition of a wildfire, which would result in increased risk of fire and would change the severity and extent of fires that occur. The proposed project would implement mitigation for fuels and fire management as described in the mitigation and monitoring plan (EIS Appendix J).</p> <p>While mine operations would not preclude the use of prescribed fire to manage fuel loads and achieve vegetation management objectives on lands surrounding the project area, additional safety considerations would be required to mitigate potential risks to mine operations.</p>

Forest Plan Section	Page Number	Resource	Forest Plan Text	Applicable? (Y/N)	Requires Amendment? (Y/N)	Rationale
Section 4. Management Direction Management Prescriptions - Globe Ranger District (MA 2F)	88	Timber & Wildlife	The following cover standards and guidelines will apply in areas where threatened, endangered, and sensitive habitat requirements do not conflict: (1) provide a ratio of 60%:40% forage to cover in pinyon-juniper for mule deer. Permanent openings, fresh cut areas, and immature stands qualify as forage producing areas. (2) Design the fuelwood harvest blocks in the woodland type in irregular shapes less than 40 acres and less than 600 feet across. (3) In the pinyon-juniper type, manage toward a goal of 25-50% cover of browse shrubs in key deer areas. Planting may be necessary in some areas to restore a seed source. (4) Achieve a savannah condition in the pinyon-juniper type by leaving a minimum of 40 mature trees per 40-acre block. (5) Maintain a minimum of 100 snags per 100 acres. A preferred snag is 12: dbh and 20 feet tall over at least 50% of the pinyon-juniper type.	Yes	No	Project impacts to vegetation, vegetation communities, and special status plan species are described in Section 3.3 of the EIS and include impacts from vegetation removal, spread of noxious and invasive weeds, and community fragmentation. Depending on the alternative selected, between 4,000 and 9,400 acres of Forest Service lands could be disturbed by the proposed project. In MA 2F, Alternatives 2, 3, 5 East and West, and 6 East and West would impact between 4,000 and 5,000 acres, whereas Alternative 4 would impact over 9,000 acres. The range of approximate project disturbance to vegetation communities in MA 2F is as follows: Human Dominated: 385 to 398 acres Chihuahuan Desertscrub: N/A Interior Chaparral: 1,179 to 1,906 acres Lower Sonoran Desertscrub: 955 to 2,932 acres Upland Sonoran Desertscrub: 787 to 3,028 acres Semidesert Grassland: 81 to 1,370 acres Mesquite: N/A Pine-Oak: 2 to 14 acres Pinyon-Juniper: 46 to 112 acres Riparian: 12 to 44 acres Xeroriparian: 87 to 135 acres Under the greatest impact scenario, impacts to the Lower Sonoran Desertscrub vegetation community comprise 20% of that vegetation community across the management area. Under the greatest impact scenario, impacts to the Upper Sonoran Desertscrub vegetation community comprise 8% of that vegetation community across the management area. Under the greatest impact scenario, impacts to the pinyon-juniper vegetation community comprise 3% of that vegetation community across the management area.
Section 4. Management Direction Management Prescriptions - Globe Ranger District (MA 2F)	88	Timber & Vegetation	Inventory fuelwood on the area every 10 years. Manage the pinyon-juniper type in a sustained yield evenflow basis. Horizontal diversity will be provided by a mix of successional stages within 5,000-acre wildfire management units. Ten percent of the type will be maintained as permanent openings with suitable ground cover for specific site conditions. Powerline corridors, natural openings, or meadows count toward the standard. Where natural openings or powerline corridors do not meet this standard, openings will be created. The scheduling of fuelwood harvest will produce a distribution of successional stages as follows: (1) Permanent Openings (2-40 acres) = 10%; (2) Fresh cut areas (0-20 years) = 10%; (3) Immature (20-100 years and 3-6" dbh) = 40%; and (4) Mature (100-175+ years and 6-11" dbh) = 40%.	Yes	No	Under the greatest impact scenario, impacts to the pinyon-juniper vegetation community comprise 3% of that vegetation community across the management area.
Section 4. Management Direction Management Prescriptions - Globe Ranger District (MA 2F)	87	Vegetation	Manage higher ecosystem extensions in the desert scrub type to emphasize cottontail production.	Yes	No	Under the greatest impact scenario, impacts to the interior chaparral vegetation community comprise 3% of that vegetation community across the management area.
Section 4. Management Direction Management Prescriptions - Globe Ranger District (MA 2F)	87	Vegetation & Wildlife	In the pinyon-juniper type manage toward a goal of 25%-50% cover of browse shrubs in key deer wintering areas. Planting may be necessary in some areas to restore a seed source.	Yes	No	The proposed project would implement minimization measures for impacts to vegetation as described in the mitigation and monitoring plan (EIS Appendix J). Over the long-term, revegetation treatments would be applied to increase vegetative cover in areas of disturbance.
Section 4. Management Direction Management Prescriptions - Globe Ranger District (MA 2F)	87	Vegetation & Wildlife	Manage the chaparral type to emphasize the production of whitetail deer.	Yes	No	
Section 4. Management Direction Management Prescriptions - Globe Ranger District (MA 2F)	87	Vegetation & Wildlife	Manage the desert scrub type to emphasize production of javelina, Gambel's quail, and mule deer.	Yes	No	

Forest Plan Section	Page Number	Resource	Forest Plan Text	Applicable? (Y/N)	Requires Amendment? (Y/N)	Rationale
Section 4. Management Direction Management Prescriptions - Globe Ranger District (MA 2F)	87	Vegetation & Wildlife	Manage the pinyon-juniper type to emphasize the production of mule deer.	Yes	No	
Section 4. Management Direction Management Prescriptions - Globe Ranger District (MA 2F)	87-1	Wildlife	Locate and analyze peregrine falcon habitat. Documents and correct disturbances to peregrine falcons and their habitat.	Yes	Yes	An analysis of project impacts to peregrine falcon habitat was completed as part of the EIS (see Section 3.8). The proposed project would implement mitigation for impacts to sensitive species as described in the mitigation and monitoring plan (EIS Appendix J).
Section 4. Management Direction Management Prescriptions - Globe Ranger District (MA 2F)	87	Wildlife	Continue periodic inspection and maintenance of existing wildlife exclosures and restoration projects. Develop reports as needed to describe results of studies. Improve the level of protection and maintenance at these sites to ensure their continued informational value for wildlife management.	No	No	The standard and guideline is not applicable to the proposed project.
Section 4. Management Direction Management Prescriptions - Globe Ranger District (MA 2F)	90	Prescribed Fire	Use prescribed fire to treat vegetation for water yield, forage, and wildfire habitat improvement.	Yes	No	Mine operations would include activities that would change fuel loads in the area or increase the possibility of accidental ignition of a wildfire, which would result in increased risk of fire and would change the severity and extent of fires that occur. The proposed project would implement mitigation for fuels and fire management as described in the mitigation and monitoring plan (EIS Appendix J).
Section 4. Management Direction Management Prescriptions - Globe Ranger District (MA 2F)	90	Timber & Prescribed Fire	Activity fuels and natural fuels will be reduced to manageable levels. Fuels management may include fuelwood harvest, chipping, piling, and/or prescribed broadcast burning.	Yes	No	While mine operations would not preclude the use of prescribed fire to manage fuel loads and achieve vegetation management objectives on lands surrounding the project area, additional safety considerations would be required to mitigate potential risks to mine operations.
Section 4. Management Direction Management Prescriptions - Globe Ranger District (MA 2F)	89	Engineering / Roads & Trails	Based on Transportation O&M Plans identified alternative routes for new trails near urban centers and/or main travel routes. Gather information for cost estimating and design criteria. Includes trail location and selection, survey design and field review.	Yes	No	An analysis of project impacts to trails was completed as part of the EIS (see Section 3.9). The proposed project would implement mitigation for impacts to trails as described in the mitigation and monitoring plan (EIS Appendix J). Trail reconstruction would meet Forest Service trail construction standards.
Section 4. Management Direction Management Prescriptions - Globe Ranger District (MA 2F)	89	Engineering / Trails	Construction of new trails identified in Transportation O&M Plan, including necessary inspections, pre-construction activities, and contract administration.	Yes	No	An analysis of project impacts to trails was completed as part of the EIS (see Section 3.9). The proposed project would implement mitigation for impacts to trails as described in the mitigation and monitoring plan (EIS Appendix J). Trail reconstruction would meet Forest Service trail construction standards.
Section 4. Management Direction Management Prescriptions - Globe Ranger District (MA 2F)	89-1	Fire / Fuels	Construct or reconstruct capital improvements to support fire, administrative, and other multifunctional activities in compliance with FSM 7310 and energy conservation requirements.	No	No	The standard and guideline is not applicable to the proposed project.

Forest Plan Section	Page Number	Resource	Forest Plan Text	Applicable? (Y/N)	Requires Amendment? (Y/N)	Rationale
Section 4. Management Direction Management Prescriptions - Globe Ranger District (MA 2F)	89-1	Fire / Fuels	Maintain or upgrade (minor betterment) capital improvements to support fire, administrative, and other multifunctional activities to share serious safety hazards. Additional funding is needed to allow for maintenance to prevent further deterioration and for abatement of health hazards.	No	No	The standard and guideline is not applicable to the proposed project.
Section 4. Management Direction Management Prescriptions - Globe Ranger District (MA 2F)	89-1	Fire / Fuels	All reported wildland fires will receive a strategic fire size-up. Wildland fires meeting locally developed operating guidelines listed below may be managed for resource benefit. (1) Fire cause is from a natural ignition. (2) Fire does not threaten life, property, public and firefighter safety. (3) Fire does not threaten fire sensitive cultural resources. (4) ADEQ, Air Quality Division procedures and guidelines for consultation and management of smoke will be implemented. (5) Wildland Fire managed for resource benefit must meet Tonto, Regional, and National fire situation parameters. (6) No site specific resource objective is threatened.	No	No	The standard and guideline is not applicable to the proposed project.
Section 4. Management Direction Management Prescriptions - Globe Ranger District (MA 2F)	89-1	Fire / Fuels	For each wildland fire located in an FMU approved for wildland fire use and naturally ignited, a decision criteria checklist will be prepared to determine whether or not it should be declared a Wildland Fire use candidate. If approved, a Wildland Fire Implementation Plan (WFIP) will be prepared that identifies specific resource concerns.	No	No	The standard and guideline is not applicable to the proposed project
Section 4. Management Direction Management Prescriptions - Globe Ranger District (MA 2F)	89-1	Fire / Fuels	Designated Wildland Fires managed for resource benefit will be monitored according to established guidelines.	No	No	The standard and guideline is not applicable to the proposed project
Section 4. Management Direction Management Prescriptions - Globe Ranger District (MA 2F)	89-1	Fire / Fuels	Wildland Fire suppression actions using accepted fire management tactics will be taken if any of the above parameters are not met. Suppression of fires, or portions thereof, will be undertaken where they adversely affect forest resources, endanger public safety and/or have a potential to damage private lands.	No	No	The standard and guideline is not applicable to the proposed project
Section 4. Management Direction Management Prescriptions - Globe Ranger District (MA 2F)	90	Fire / Fuels Prescribed Fire	Use prescribed fire to treat vegetation for water yield, forage, and wildfire habitat improvement.	No	No	The standard and guideline is not applicable to the proposed project
Section 4. Management Direction Management Prescriptions - Globe Ranger District (MA 2F)	90	Fire / Fuels Timber & Prescribed Fire	Activity fuels and natural fuels will be reduced to manageable levels. Fuels management may include fuelwood harvest, chipping, piling, and/or prescribed broadcast burning.	No	No	The standard and guideline is not applicable to the proposed project

Forest Plan Section	Page Number	Resource	Forest Plan Text	Applicable? (Y/N)	Requires Amendment? (Y/N)	Rationale
Section 4. Management Direction Management Prescriptions - Globe Ranger District (MA 2F)	85	Fire / Fuels	Wildland Fires will be managed consistent with resource objectives. Wildland Fires will be managed with an appropriate suppression response. Fire management objectives for this area include: providing a mosaic of age classes within the total type which will provide for a mix of successional stages, and to allow fire to resume its natural ecological role within ecosystems. Wildland Fires or portions of fires will be suppressed when they adversely affect forest resources, endanger public safety or have a potential to damage significant capital investments.	No	No	The standard and guideline is not applicable to the proposed project
Section 4. Management Direction Management Prescriptions - Globe Ranger District (MA 2F)	90	Fire / Fuels	If a wildfire that has escaped initial attack falls within the parameters listed below, least cost suppression methods will be initiated (i.e., maximum use of existing natural or man-made features as control lines; minimum use of direct attack method). (1) Burning Index ≤ to 52 with two day fluctuation. (2) Fire does not threaten life or property. (3) Fire will be consistent with resource objectives. (4) Fire will not interfere with overall Tonto, regional, or national fire situation.	No	No	The standard and guideline is not applicable to the proposed project
Section 4. Management Direction Management Prescriptions - Globe Ranger District (MA 2F)	85	General	Manage for a variety of renewable natural resources with primary emphasis on wildlife habitat improvement, water quality maintenance, livestock forage production, and dispersed recreation. Watersheds will be managed so as to improve them to a satisfactory or better condition. Improve and manage the included riparian areas (as defined by FSM 2526) the benefit riparian dependent resources.	Yes	No	The proposed project would impact a variety of natural resources as described in detail in Chapter 3 of the EIS. The proposed project would implement mitigation for impacts to resources as described in the mitigation and monitoring plan (EIS Appendix J).
Section 4. Management Direction Management Prescriptions - Globe Ranger District (MA 2F)	86	Recreation / Rec Sites	Develop and document feasibility study/EA's for recreation sites as scheduled for each decade (Appendix K, Table 4). Based on this scheduling, carry out development plan from site survey through design and contract preparation. Complete actual construction (including contract administration) of new developed sites, and rehabilitation of existing sites. Complete existing development site rehabilitation as discussed in Appendix K, Table 3.	Yes	No	The Oak Flat Campground is listed in Appendix K Table 4. After the land exchange is completed, the Oak Flat Campground would no longer be on National Forest System Lands. Several options are being considered by the Forest for campground replacement, including XXXX and XXXX.
Section 4. Management Direction Management Prescriptions - Globe Ranger District (MA 2F)	85	Scenery	Manage for the VQO's ranging from "Retention" to "Maximum Modification" according to the following guidelines: Retention = 8%, Partial Retention =24%, Modification = 34%, and Maximum Modification = 34%.	Yes	Yes	The project would result in a degradation of portions of existing VQO classes within the project area. A Forest Plan Amendment is required to amend the desired VQO class proportion for each management area.
Section 4. Management Direction Management Prescriptions - Globe Ranger District (MA 2F)	87	Recreation / Special Uses	Comprehensive administration of all recreation-related permitted use.	No	No	The standard and guideline is not applicable to the proposed project.

Forest Plan Section	Page Number	Resource	Forest Plan Text	Applicable? (Y/N)	Requires Amendment? (Y/N)	Rationale
Section 4. Management Direction Management Prescriptions - Globe Ranger District (MA 2F)	87	Recreation / Special Uses	The outfitter/guide service allocation for this Management Area is found on page 82 (Management Area 2D), except for river-running which is established as follows on the table shown which includes: type of service, class of permit, number of permits, and maximum service days per permit. Same permits as Management Area 2B and 2C. Same permits as Management Area 2C, i.e., those authorized by White Mountain Apache Tribe [See Forest Plan for table].	No	No	The standard and guideline is not applicable to the proposed project.
Section 4. Management Direction Management Prescriptions - Globe Ranger District (MA 2F)	89	Recreation / Trails	O&M of entire trail system to provide for a variety of user experience levels, resource protection and public safety. Includes trail condition surveys and maintenance plans.	Yes	No	An analysis of project impacts to trails was completed as part of the EIS (see Section 3.9). The proposed project would implement mitigation for impacts to trails as described in the mitigation and monitoring plan (EIS Appendix J). Trail reconstruction would meet Forest Service trail construction standards.
Section 4. Management Direction Management Prescriptions - Globe Ranger District (MA 2F)	89-1	Recreation / Trails	Maintain 20% of trail system at maintenance level 2 (using Forest brushing standards), 60% at maintenance level 3, and 20% at maintenance level 4.	Yes	No	An analysis of project impacts to trails was completed as part of the EIS (see Section 3.9). The proposed project would implement mitigation for impacts to trails as described in the mitigation and monitoring plan (EIS Appendix J). Trail reconstruction would meet Forest Service trail construction standards. The proposed project would not impact the Forest's ability to continue maintain trails to their called-for maintenance levels.
Section 4. Management Direction Management Prescriptions - Globe Ranger District (MA 2F)	85	Recreation	Develop Upper Salt River Implementation Plan. Review and revise annually by June 30.	No	No	The standard and guideline is not applicable to the proposed project.
Section 4. Management Direction Management Prescriptions - Globe Ranger District (MA 2F)	86	Recreation	Objective is to achieve full service level of management and administration. Fluctuations in Operation and Maintenance budgets may require less than full service level. The following table displays full and reduced service level standards at proposed budget and increments less than proposed. Implement user fee at sites which meet fee designation criteria. Budget at proposed = all sites at full service level. Budget at proposed -10% = all sites at 80% of full service level. Budget at proposed -25% = all sites at 50% of full service level.	No	No	The standard and guideline is not applicable to the proposed project.
Section 4. Management Direction Management Prescriptions - Globe Ranger District (MA 2F)	86	Recreation	OHV use prohibited unless posted open.	No	No	The standard and guideline is not applicable to the proposed project.
Section 4. Management Direction Management Prescriptions - Globe Ranger District (MA 2F)	86	Recreation	Manage ROS Classes (see Appendix E) according to existing inventory as follows: SP = 35%, SPM = 39%, RN = 24%, R = 1%, and U = 1%.	Yes	Yes	The project would result in a degradation of portions of existing ROS classes within the project area. A Forest Plan Amendment is required to amend the desired ROS class proportion for each management area.

Forest Plan Section	Page Number	Resource	Forest Plan Text	Applicable? (Y/N)	Requires Amendment? (Y/N)	Rationale
Section 4. Management Direction Management Prescriptions - Globe Ranger District (MA 2F)	87	Recreation	Implement pack-in, pack-out program. Encourage "no trace" camping ethic. Campfires must be contained in such a manner so as not to leave significant residues. Human waste must be carried out.	No	No	The standard and guideline is not applicable to the proposed project.
Section 4. Management Direction Management Prescriptions - Globe Ranger District (MA 2F)	87	Recreation	Soaps and detergents may not be introduced into side creeks.	No	No	The standard and guideline is not applicable to the proposed project.

MA 3I Standards and Guidelines

Forest Plan Section	Page Number	Resource	Forest Plan Text	Applicable? (Y/N)	Requires Amendment? (Y/N)	Rationale
Section 4. Management Direction Management Prescriptions - Mesa Ranger District (MA 3I)	116	Access / Roads and Trails	Based on Transportation O&M Plans, identify alternative routes for new trails near urban centers and/or main travel routes. Gather information for cost estimating and design criteria. Includes trail location and selection, survey, design, and field review.	Yes	No	An analysis of project impacts to trails was completed as part of the EIS (see Section 3.9)s. The proposed project would implement mitigation for impacts to trails as described in the mitigation and monitoring plan (EIS Appendix J). Trail reconstruction would meet Forest Service trail construction standards.
Section 4. Management Direction Management Prescriptions - Mesa Ranger District (MA 3I)	116	Access / Roads and Trails	Construction of new trails identified in transportation O&M Plan, including necessary inspections, preconstruction activities, and contract administration.	Yes	No	An analysis of project impacts to trails was completed as part of the EIS (see Section 3.9). The proposed project would implement mitigation for impacts to trails as described in the mitigation and monitoring plan (EIS Appendix J). Trail reconstruction would meet Forest Service trail construction standards.
Section 4. Management Direction Management Prescriptions - Mesa Ranger District (MA 3I)	114	Herbicides	Use of approved herbicides on a selective basis where brush encroachment is clearly inhibiting forage production for wildlife and domestic livestock. Possible treatment areas will be identified in Allotment Management Plans and will involve areas of limited size and extent where other management practices (i.e., prescribed burning) cannot be effectively or economically utilized to achieve management objectives. Projects of this nature will be subject to environmental assessment and public involvement to insure project objectivity and public safety.	No	No	The proposed project does not include the use of herbicides for the management of brush encroachment on wildlife and digestive livestock forage production. The management direction of this standard and guideline would not be affected by the proposed project.
Section 4. Management Direction Management Prescriptions - Mesa Ranger District (MA 3I)	115	Range	Continue existing management of wild burro area. Utilize biannual administrative check of burros to determine herd size, herd health, and extend of home range. Herd size objective will be 15 animals over their entire established range. Capture activities will not be initiated until inventories indicate a herd size of 25 animals. Excess animals will be removed in accordance with 36 CFR 222.29. Manage historic range identified in this plan to assure habitat and forage requirements for identified size herd are met in all resource activity objectives. Home range expansion will be monitored to prevent intrusion and conflicts in bighorn sheep habitat.	No	No	The standard and guideline is not applicable to the proposed project.
Section 4. Management Direction Management Prescriptions - Mesa Ranger District (MA 3I)	114	Range	Continue inspections of the existing range study plots, and revegetation and brush treatment projects.	No	No	The standard and guideline is not applicable to the proposed project.
Section 4. Management Direction Management Prescriptions - Mesa Ranger District (MA 3I)	114	Range	Manage suitable rangelands at Level D, except Goldfield Allotment which is managed at Level A. Rangeland is less than satisfactory condition along with the installation of structural and non-structural improvements.	Yes	No	The proposed project could impact some grazing allotments. Grazing management is subject to a specific management process separate from the Forest Plan, allowing for periodic review and updates to balance productivity with grazing pressure. Changes in allotments would be accommodated through the normal grazing management process to reflect changes in suitability for grazing.

Forest Plan Section	Page Number	Resource	Forest Plan Text	Applicable? (Y/N)	Requires Amendment? (Y/N)	Rationale
Section 4. Management Direction Management Prescriptions - Mesa Ranger District (MA 3I)	115	Range	Develop structural improvements in association with AMP to maintain utilization at levels appropriate with management intensity and AMP objectives.	Yes	No	The proposed project could impact some grazing allotments. Grazing management is subject to a specific management process separate from the Forest Plan, allowing for periodic review and updates to balance productivity with grazing pressure. Changes in allotments would be accommodated through the normal grazing management process to reflect changes in suitability for grazing. Additionally, the Forest may require replacement of lost structure improvements and water sources as described the project mitigation and monitoring plan (EIS Appendix J).
Section 4. Management Direction Management Prescriptions - Mesa Ranger District (MA 3I)	116	Special Uses	Issue small sale jojoba picking permits, and permits for other miscellaneous products.	No	No	The standard and guideline is not applicable to the proposed project.
Section 4. Management Direction Management Prescriptions - Mesa Ranger District (MA 3I)	112	Timber	All acres unsuitable for timber.	No	No	The standard and guideline is not applicable to the proposed project.
Section 4. Management Direction Management Prescriptions - Mesa Ranger District (MA 3I)	115	Timber	The silvicultural prescription in even-aged management under the clear cut method with pinyon uncut and 40 large juniper trees left per 40 acre cut block.	No	No	The standard and guideline is not applicable to the proposed project.
Section 4. Management Direction Management Prescriptions - Mesa Ranger District (MA 3I)	116	Timber	Sanitation and salvage wood sales will be administered as required to control disease and insects and to protect public health and safety.	No	No	The standard and guideline is not applicable to the proposed project.
Section 4. Management Direction Management Prescriptions - Mesa Ranger District (MA 3I)	114	Vegetation & Wildlife	Manage higher ecosystem extensions in the desert scrub type to emphasize cottontail production.	Yes	No	Project impacts to vegetation, vegetation communities, and special status plan species are described in Section 3.3 of the EIS and include impacts from vegetation removal, spread of noxious and invasive weeds, and community fragmentation. Depending on the alternative selected, between 4,000 and 9,400 acres of Forest Service lands could be disturbed by the proposed project. In MA 3I, Alternatives 2 and 3 would impact approximately 4,000 acres, whereas Alternatives 5 East, 5 West, 6 North and 6 South would impact 128 acres. The range of approximate project disturbance to vegetation communities in MA 3I is as follows:
Section 4. Management Direction Management Prescriptions - Mesa Ranger District (MA 3I)	113	Vegetation & Wildlife	In the pinyon-juniper type manage toward a goal of 25-50% cover of browse shrubs in key deer wintering areas. Planting may be necessary in some areas to restore a seed source.	Yes	No	Human Dominated: N/A Chihuahuan Desertscrub: N/A
Section 4. Management Direction Management Prescriptions - Mesa Ranger District (MA 3I)	114	Vegetation & Wildlife	Manage the desert scrub type to emphasize production of javelina and Gambel's quail.	Yes	No	Interior Chaparral: N/A Lower Sonoran Desertscrub: 5 acres Upland Sonoran Desertscrub: 125 to 3,945 acres Semidesert Grassland: 1 to 8 acres Mesquite: N/A Pine-Oak: N/A

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Section 4. Management Direction Management Prescriptions - Mesa Ranger District (MA 3I)	113	Vegetation & Wildlife	Manage the pinyon-juniper type to emphasize the production of mule deer.	Yes	No	Pinyon-Juniper: N/A Riparian: 2 to 46 acres Xeroriparian: N/A Under the greatest impact scenario, impacts to the Lower Sonoran Desertscrub vegetation community comprise less than 0.01% of that vegetation community across the management area.
Section 4. Management Direction Management Prescriptions - Mesa Ranger District (MA 3I)	114	Vegetation & Wildlife	Mange the chaparral type to emphasize the production of whitetail deer.	Yes	No	Under the greatest impact scenario, impacts to the Upper Sonoran Desertscrub vegetation community comprise 17% of that vegetation community across the management area.
Section 4. Management Direction Management Prescriptions - Mesa Ranger District (MA 3I)	115	Wildlife	The following cover standards and guidelines will apply in areas where threatened, endangered, and sensitive habitat requirements do not conflict: (1) provide a ratio of 60%:40% forage to cover in pinyon-juniper for mule deer. Permanent openings, fresh cut areas, and immature stands qualify as forage producing areas. (2) Design the fuelwood harvest blocks in the woodland type in irregular shapes less than 40 acres and less than 600 feet across. (3) In the pinyon-juniper type, manage toward a goal of 25-5-% cover of browse shrubs in key deer areas. Planting may be necessary in some areas to restore a seed source. (4) Achieve a savannah condition in the pinyon-juniper type by leaving a minimum of 40 mature trees per 40-acre block. (5) Maintain a minimum of 100 snags per 100 acres. A preferred snag is 12: dbh and 20 feet tall over at least 50% of the pinyon-juniper type..	Yes	No	No impacts to the pinyon-juniper or interior chaparral vegetation communities would occur in the management area. The proposed project would implement minimization measures for impacts to vegetation as described in the mitigation and monitoring plan (EIS Appendix J). Over the long-term, revegetation treatments would be applied to increase vegetative cover in areas of disturbance.
Section 4. Management Direction Management Prescriptions - Mesa Ranger District (MA 3I)	115	Fire / Fuelwood	Manage the pinyon-juniper type in a sustained yield evenflow basis. Horizontal diversity will be provided by a mix of successional stages within 5,000 acre wildlife management units. Ten percent of the type will be maintained as permanent openings with suitable ground cover for specific site conditions. Powerline corridors, natural openings or meadows count toward the standard. Where natural openings or powerline corridors do not meet this standard openings will be created. The scheduling of fuelwood harvest will produce a distribution of successional stages as follows: (1) Permanent openings, 2-40 acres = 10%, (2) Fresh cut areas, 0-20 years = 10%, (3) Immature, 20-100 years and 3-6" dbh = 40%, and (4) Mature, 100-175+ years and 6-11" dbh = 40%.	Yes	No	
Section 4. Management Direction Management Prescriptions - Mesa Ranger District (MA 3I)	114	Vegetation & Wildlife	Locate and analyze peregrine falcon habitat. Document and correct disturbances to peregrine falcons and their habitat.	Yes	Yes	An analysis of project impacts to peregrine falcon habitat was completed as part of the EIS (see Section 3.8). The proposed project would implement mitigation for impacts to sensitive species as described in the mitigation and monitoring plan (EIS Appendix J).
Section 4. Management Direction Management Prescriptions - Mesa Ranger District (MA 3I)	116	Vegetation & Wildlife	Brush disposal will be consistent with wildlife objectives.	No	No	The standard and guideline is not applicable to the proposed project.

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Section 4. Management Direction Management Prescriptions - Mesa Ranger District (MA 3I)	116	Vegetation, Timber, & Wildlife	KV funds collected from fuelwood sales will be used in the following priorities: (1) stabilize roads, (2) reseed cut block with approved seeding mixture, (3) plant wildlife browse species as needed.	No	No	The standard and guideline is not applicable to the proposed project.
Section 4. Management Direction Management Prescriptions - Mesa Ranger District (MA 3I)	114	Wildlife	Continue periodic inspection and maintenance of existing wildlife exclosures and restoration projects. Develop reports as needed to describe results of studies. Improve the level of protection and maintenance at these sites to ensure their continued informational value for wildlife.	No	No	The standard and guideline is not applicable to the proposed project.
Section 4. Management Direction Management Prescriptions - Mesa Ranger District (MA 3I)	116	Fuelwood	Administer commercial and personal use of fuelwood from slash, dead and down wood, and noncommercial species.	No	No	The standard and guideline is not applicable to the proposed project.
Section 4. Management Direction Management Prescriptions - Mesa Ranger District (MA 3I)	115	Fuelwood	Design the fuelwood harvest clocks in the woodland type in irregular shapes less than 40 acres and less than 600 feet across.	No	No	The standard and guideline is not applicable to the proposed project.
Section 4. Management Direction Management Prescriptions - Mesa Ranger District (MA 3I)	112	Engineering/ Rec Sites	Based on this scheduling, carry out development plan from site survey through design and contract preparation. Complete actual construction (including contract administration) of new developed sites, and rehabilitation of existing sites.	No	No	The standard and guideline is not applicable to the proposed project.
Section 4. Management Direction Management Prescriptions - Mesa Ranger District (MA 3I)	116	Fire / Energy	Construct or reconstruct capital improvements to support fire, administrative, and other multifunctional activities in compliance with FSM 7310 and energy conservation requirements.	No	No	The standard and guideline is not applicable to the proposed project.
Section 4. Management Direction Management Prescriptions - Mesa Ranger District (MA 3I)	117	Fire / Fuels	All reported wildland fires will receive a strategic fire size-up. Wildland fires meeting locally developed operating guidelines listed below may be managed for resource benefit. (1) Fire cause is from a natural ignition. (2) Fire does not threaten life, property, public and firefighter safety. (3) Fire does not threaten fire sensitive cultural resources. (4) ADEQ, Air Quality Division procedures and guidelines for consultation and management of smoke will be implemented. (5) Wildland Fire managed for resource benefit must meet Tonto, Regional, and National fire situation parameters. (6) No site specific resource objective is threatened.	No	No	The standard and guideline is not applicable to the proposed project.

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Section 4. Management Direction Management Prescriptions - Mesa Ranger District (MA 3I)	117	Fire / Fuels	For each wildland fire located in an FMU approved for wildland fire use and naturally ignited, a decision criteria checklist will be prepared to determine whether or not it should be declared a Wildland Fire use candidate. If approved, a Wildland Fire Implementation Plan (WFIP) will be prepared that identifies specific resource concerns.	No	No	The standard and guideline is not applicable to the proposed project.
Section 4. Management Direction Management Prescriptions - Mesa Ranger District (MA 3I)	116	Fire / Safety	Maintain or upgrade (minor betterment) capital improvements to support fire, administrative, ad other multifunctional activities to abate serious safety hazards. Additional funding is needed to allow for maintenance to prevent further deterioration and for abatement of health hazards.	No	No	The standard and guideline is not applicable to the proposed project.
Section 4. Management Direction Management Prescriptions - Mesa Ranger District (MA 3I)	117	Fire / Fuels	Designated Wildland Fires managed for resource benefit will be monitored according to established guidelines.	Yes	No	Mine operations would include activities that would change fuel loads in the area or increase the possibility of accidental ignition of a wildfire, which would result in increased risk of fire and would change the severity and extent of fires that occur. The proposed project would implement mitigation for fuels and fire management as described in the mitigation and monitoring plan (EIS Appendix J).
Section 4. Management Direction Management Prescriptions - Mesa Ranger District (MA 3I)	117	Fire / Fuels	Prevent Wildland Fire from destroying developed recreation improvements, including a five chain wide buffer surrounding them.	Yes	No	
Section 4. Management Direction Management Prescriptions - Mesa Ranger District (MA 3I)	117	Fire / Fuels	Treat activity fuels to reduce fire hazard. Slash treatment will include removal for use as firewood, piling and burning, prescribed burning, etc.	Yes	No	
Section 4. Management Direction Management Prescriptions - Mesa Ranger District (MA 3I)	117	Fire / Safety	Wildland Fire suppression actions using accepted fire management tactics will be taken if any of the above parameters are not met. Suppression of fires, or portions thereof, will be undertaken where they adversely affect forest resources, endanger public safety and/or have a potential to damage private lands.	Yes	No	
Section 4. Management Direction Management Prescriptions - Mesa Ranger District (MA 3I)	112	Fire / Fuels	Wildland Fires will be managed consistent with resource objectives. Wildland Fires will be managed with an appropriate suppression response. Fire management objectives for this area include: providing a mosaic of age classes within the total type which will provide for a mix of successional stages, and to allow fire to resume its natural ecological role within ecosystems. Wildland Fires or portions of fires will be suppressed when they adversely affect forest resources, endanger public safety, or have a potential to damage significant capital investments.	Yes	No	
Section 4. Management Direction Management Prescriptions - Mesa Ranger District (MA 3I)	115	Fire / Fuelwood	Design the fuelwood harvest clocks in the woodland type in irregular shapes less than 40 acres and less than 600 feet across.	Yes	No	

Forest Plan Section	Page Number	Resource	Forest Plan Text	Applicable? (Y/N)	Requires Amendment? (Y/N)	Rationale
Section 4. Management Direction Management Prescriptions - Mesa Ranger District (MA 3I)	117	Fire / Prescribed Fire	Use prescribed fire to treat vegetation for water yield, forage, and wildlife habitat improvement.	Yes	No	
Section 4. Management Direction Management Prescriptions - Mesa Ranger District (MA 3I)	117	Fire / Prescribed Fire	Activity fuels and natural fuels will be reduced to manageable levels. Fuels management may include fuelwood harvest, chipping, piling, and/or pre- scribed broadcast burning.	Yes	No	
Section 4. Management Direction Management Prescriptions - Mesa Ranger District (MA 3I)	114	Vegetation, Fire & Fuels	Integrate habitat needs through prescribed fires within fire suppression objectives.	Yes	No	
Section 4. Management Direction Management Prescriptions - Mesa Ranger District (MA 3I)	114	Vegetation, Fire & Fuels	Manage the chaparral type on a 30 year prescribed fire rotation on those sites managed intensively for forage production and water yield.	Yes	No	
Section 4. Management Direction Management Prescriptions - Mesa Ranger District (MA 3I)	112	Vegetation, Riparian Areas & Fire	Sonoran Desert and Riparian vegetative types will be protected from fire except where separate burn plans have identified an ecological need.	Yes	No	
Section 4. Management Direction Management Prescriptions - Mesa Ranger District (MA 3I)	114	Vegetation, Fire & Fuels	Maintenance performed on revegetation acres as determined in allotment management plans to retain optimum forage production. Methods will be appropriate to vegetation and terrain of treatment area and could include prescribed fire, chemical, and/or mechanical means.	Yes	No	
Section 4. Management Direction Management Prescriptions - Mesa Ranger District (MA 3I)	115	Fire / Fuelwood	Inventory fuelwood on the area every 10 years.	No	No	The standard and guideline is not applicable to the proposed project.
Section 4. Management Direction Management Prescriptions - Mesa Ranger District (MA 3I)	112	General	Manage for a variety of renewable natural resources with primary emphasis on improvement of wildlife habitat, livestock forage production, and dispersed recreation. Watersheds will be maintained so as to improve them to a satisfactory or better condition. Improve and manage the included riparian areas (as defined by FSM 2526) to benefit riparian dependent resources.	Yes	No	The proposed project would impact a variety of natural resources as described in detail in Chapter 3 of the EIS. The proposed project would implement mitigation for impacts to resources as described in the mitigation and monitoring plan (EIS Appendix J).

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Section 4. Management Direction Management Prescriptions - Mesa Ranger District (MA 3I)	112	Scenery	Manage for VQO ranging from retention to maximum modification according to the following guidelines: Retention = 15%, Partial Retention = 40%, Modification = 35%, and Maximum Modification = 10%.	Yes	Yes	The project would result in a degradation of portions of existing VQO classes within the project area. A Forest Plan Amendment is required to amend the desired VQO class proportion for each management area.
Section 4. Management Direction Management Prescriptions - Mesa Ranger District (MA 3I)	116	Recreation / Trails	O&M of entire trail system to provide for a variety of user experience levels, resource protection, and public safety. Includes trail condition surveys and maintenance plans.	Yes	No	An analysis of project impacts to trails was completed as part of the EIS (see Section 3.9). The proposed project would implement mitigation for impacts to trails as described in the mitigation and monitoring plan (EIS Appendix J). Trail reconstruction would meet Forest Service trail construction standards.
Section 4. Management Direction Management Prescriptions - Mesa Ranger District (MA 3I)	116	Trails & Wilderness	Trails accessing the Mazatzal Wilderness will be maintained at maintenance Level 3. Trails accessing the Superstition Wilderness in the Reeves corridor will be maintained at maintenance Level 3. Maintain 70% of remaining trail system at maintenance Level 2 (using Forest brushing standards) and 30% at maintenance Level 3. new trails constructed adjacent to metropolitan area will be maintained 100% at a minimum maintenance Level 3.	Yes	No	An analysis of project impacts to trails was completed as part of the (see Section 3.9). The proposed project would implement mitigation for impacts to trails as described in the mitigation and monitoring plan (EIS Appendix J). Trail reconstruction would meet Forest Service trail construction standards. The proposed project would not impact the Forest's ability to continue maintain trails to their called-for maintenance levels.
Section 4. Management Direction Management Prescriptions - Mesa Ranger District (MA 3I)	113	Recreation	OHV use prohibited unless posted as open.	No	No	The standard and guideline is not applicable to the proposed project.
Section 4. Management Direction Management Prescriptions - Mesa Ranger District (MA 3I)	113	Recreation	Manage ROS Classes (see Appendix E) according to existing inventory as follows: P = 1%, SP = 42%, SPM = 36%, RN = 21%.	Yes	Yes	The project would result in a degradation of portions of existing ROS classes within the project area. A Forest Plan Amendment is required to amend the desired ROS class proportion for each management area.
Section 4. Management Direction Management Prescriptions - Mesa Ranger District (MA 3I)	113	Recreation	Comprehensive administration of all recreation-related permitted use.	No	No	The standard and guideline is not applicable to the proposed project.
Section 4. Management Direction Management Prescriptions - Mesa Ranger District (MA 3I)	113	Recreation / Rec Sites	Complete existing developed site rehabilitation as scheduled in Appendix K, Table 3. Based on this scheduling, carry out development plan from site survey through design and contract preparation. Complete actual construction (including contract administration) of new developed sites, and rehabilitation of existing sites.	Yes	No	The Oak Flat Campground is listed in Appendix K Table 4. After the land exchange is completed, the Oak Flat Campground would no longer be on National Forest System Lands. Several options are being considered by the Forest for campground replacement, including XXXX and XXXX.
Section 4. Management Direction Management Prescriptions - Mesa Ranger District (MA 3I)	113	Recreation / Rec Sites	Complete existing developed site rehabilitation as scheduled in Appendix K, Table 3.	Yes	No	The Oak Flat Campground is listed in Appendix K Table 4. After the land exchange is completed, the Oak Flat Campground would no longer be on National Forest System Lands. Several options are being considered by the Forest for campground replacement, including XXXX and XXXX.

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Section 4. Management Direction Management Prescriptions - Mesa Ranger District (MA 3I)	116	Recreation / Permits	Provide for development of Superstition Mountain Museum by special-use permit.	No	No	The standard and guideline is not applicable to the proposed project.
Section 4. Management Direction Management Prescriptions - Mesa Ranger District (MA 3I)	113	Recreation / Rec Sites	Objective is to achieve full service level of management and administration. Fluctuations in Operation and Maintenance budgets may require less than full service level. The following table displays full and reduced service level standards at proposed. Budget at proposed = full service level. Budget at proposed -10% = all sites at 80% of full service level. Budget at proposed -25% = all sites at 50% of full service level.	No	No	The standard and guideline is not applicable to the proposed project.
Section 4. Management Direction Management Prescriptions - Mesa Ranger District (MA 3I)	113	Recreation / Special Uses	The allocation for outfitter/guide services assigned to this Management Area is found in a table on page 82 (Management Area 2d).	No	No	The standard and guideline is not applicable to the proposed project.

Other TNF - MA 1F (Cave Creek & Triangle Creek Parcels)

Other TNF - MA 5G and 5D (Turkey Creek Parcel)

Other COF (East Clear Creek Parcel)

Other BLM (Appleton Ranch, Dripping Springs, Lower San Pedro Parcels)