

## **CATEGORICAL EXCLUSION**

**Project Title: Tree Trimming for CVP#3 Comprehensive Specification 200101**

**Requestor: Ricardo Velarde**

**Date Submitted: 9/30/2020**

**Work Order Number: 100153025**

### **PROJECT DESCRIPTION:**

Western Area Power Administration (WAPA) Order 450.3A dictates the removal of hazardous vegetation in compliance with the North American Electric Reliability Council (NERC) Standard FAC-003-1. Hazardous vegetation has the potential to fall on, grow into, or otherwise compromise the integrity of the transmission lines. WAPA has limited discretion when it comes to the removal of hazardous vegetation.

WAPA's Sierra Nevada Region (SN) proposes to trim hazardous off right-of-way (ROW) vegetation encroaching upon transmission lines from late summer through winter 2020/2021. Conifers will be trimmed back to trunk for a minimum of 30-35 feet of clearance from electrical infrastructure. Any other directional pruning will be to appropriate laterals for a minimum of 30-35 feet of clearance from electrical infrastructure. In addition, all trees and brush within the ROW will be removed and towers cleared 30-feet from center. The vegetative debris will be chipped and broadcast into the ROW or chipped and hauled away depending upon landowner preference. Some areas may require vegetation to be lopped and scattered or masticated. Lop and scatter or masticated debris will not exceed 12-inches in height. Manually and mechanically cut stumps will be left no higher than four and eight inches above ground, respectively. All stumps will be treated following WAPA's herbicide application plan. A rubber tire/tracked skid steer and chipper may be used off-road in areas with no biological or cultural restrictions.

### **INTEGRAL ELEMENTS:**

**B1.3 ROUTINE MAINTENANCE.** Routine maintenance activities and custodial services for buildings, structures, rights-of-way, infrastructures (including, but not limited to, pathways, roads, and railroads), vehicles and equipment, and localized vegetation and pest control, during which operations may be suspended and resumed, provided that the activities would be conducted in a manner in accordance with applicable requirements. Custodial services are activities to preserve facility appearance, working conditions, and sanitation (such as cleaning, window washing, lawn mowing, trash collection, painting, and snow removal). Routine maintenance activities, corrective (that is, repair), preventive, and predictive, are required to maintain and preserve buildings, structures, infrastructures, and equipment in a condition suitable for a facility to be used for its designated purpose. Such maintenance may occur as a result of severe weather (such as hurricanes, floods, and tornados), wildfires, and other such events. Routine maintenance may result in replacement to the extent that replacement is in-kind and is not a substantial upgrade or improvement. In-kind replacement includes installation of new components to replace outmoded components, provided that the replacement does not result in a significant change in the expected useful life, design capacity, or function of the facility. Routine maintenance does not include replacement of a major component that significantly extends the originally intended useful life of a facility (for example, it does not include the replacement of a reactor vessel near the end of its useful life). Routine maintenance activities include, but are not limited to:

- a. Repair or replacement of facility equipment, such as lathes, mills, pumps, and presses;
- b. Door and window repair or replacement;
- c. Wall, ceiling, or floor repair or replacement;
- d. Reroofing;
- e. Plumbing, electrical utility, lighting, and telephone service repair or replacement;
- f. Routine replacement of high-efficiency particulate air filters;
- g. Inspection and/or treatment of currently installed utility poles;
- h. Repair of road embankments;
- i. Repair or replacement of fire protection sprinkler systems;
- j. Road and parking area resurfacing, including construction of temporary access to facilitate resurfacing, and scraping and grading of unpaved surfaces;
- k. Erosion control and soil stabilization measures (such as reseeded, gabions, grading, and revegetation);
- l. Surveillance and maintenance of surplus facilities in accordance with DOE Order 435.1, "Radioactive Waste Management," or its successor;
- m. Repair and maintenance of transmission facilities, such as replacement of conductors of the same nominal voltage, poles, circuit breakers, transformers, capacitors, crossarms, insulators, and downed powerlines, in accordance, where appropriate, with 40 CFR part 761 ("Polychlorinated Biphenyls Manufacturing, Processing, Distribution in Commerce, and Use Prohibitions") or its successor;
- n. Routine testing and calibration of facility components, subsystems, or portable equipment (such as control valves, in-core monitoring devices, transformers, capacitors, monitoring wells, lysimeters, weather stations, and flumes);
- o. Routine decontamination of the surfaces of equipment, rooms, hot cells, or other interior surfaces of buildings (by such activities as wiping with rags, using strippable latex, and minor vacuuming), and removal of contaminated intact equipment and other material (not including spent nuclear fuel or special nuclear material in nuclear reactors); and
- p. Removal of debris.

**Regulatory Requirements for a Categorical Exclusion Determination:** The Department of Energy (DOE), National Environmental Policy Act (NEPA) Implementing Procedures, 10 CFR 1021.410(b) require the following determinations be made in order for a proposed action to be categorically excluded (see full text in regulation).

1. The proposed action fits within a class of actions listed in Appendices A and B to Subpart D. For classes of actions listed in Appendix B, the following conditions are integral elements; i.e., to fit within a class, the proposal must not:
  - a. Threaten a violation of applicable statutory, regulatory, or permit requirements for environment, safety, and health, including requirements of DOE and/or Executive Orders;
  - b. Require siting and construction or major expansion of waste storage, disposal, recovery, or treatment facilities, but may include categorically excluded facilities;

- c. Disturb hazardous substances, pollutants, contaminants, or CERCLA-excluded petroleum and natural gas products that preexist in the environment such that there would be uncontrolled or un-permitted releases; or
  - d. Have the potential to cause significant impacts on environmentally sensitive resources, including, but not limited to, those listed in paragraph B(4) of 10 CFR Part 1021, Subpart D, Appendix B;
  - e. Involve genetically engineered organisms, synthetic biology, governmentally designated noxious weeds, or invasive species, unless the proposed activity would be contained or confined in a manner designed and operated to prevent unauthorized release into the environment and conducted in accordance with applicable requirements, such as those listed in paragraph B(5) of 10 CFR Part 1021, Subpart D, Appendix B.
2. There are no extraordinary circumstances related to the proposal which may affect the significance of the environmental effects of the proposal;
  3. The proposal has not been segmented to meet the definition of a categorical exclusion. The proposal is not connected to other actions with individually insignificant but cumulatively significant impacts (40 CFR 1508.27(b)(7)), and is not precluded by 40 CFR 1506.1 or 10 CFR 1021.211 concerning limitations on actions requiring preparation of an environmental impact statement.

**Results of Review:** In accordance with DOE environmental regulations (10 CFR 1021), WAPA has reviewed the proposed action in terms of the level of NEPA review needed. Based on this review, WAPA has determined the proposal is encompassed within a class of actions listed in Appendix B to Subpart D (10 CFR 1021.410) which do not require preparation of either an environmental impact statement (EIS) or an environmental assessment (EA).

The proposed action fits within the specified class(es) of action, the other regulatory requirements set forth above are met, and the proposed action is hereby categorically excluded from further NEPA review.

#### Action taken

Note: All Documentation is Attached

- |   |   |
|---|---|
| <input checked="" type="checkbox"/> Categorical Exclusion (CX)<br><input type="checkbox"/> Environmental Assessment (EA)<br><input type="checkbox"/> Environmental Impact Statement (EIS)<br><input type="checkbox"/> Other Determinations: Biological Assessment | <input checked="" type="checkbox"/> Integral Elements<br><input type="checkbox"/> NEPA Attachment Sheet<br><input type="checkbox"/> Environmental Requirements/Mitigation<br><input checked="" type="checkbox"/> Maps/Figures |
|---|---|

**Determination:** Based on my review of information provided to me concerning the proposed action as NEPA Compliance Officer, I have determined that the proposed action meets the requirements for the categorical exclusion listed above. Therefore, I have determined that the proposed action may be categorically excluded from further NEPA review and documentation.

Latisha M. Saare Digitally signed by Latisha M. Saare  
Date: 2020.09.22 13:12:38 -07'00'

LaTisha Saare, Environment Manager

9/22/20

Date Approved

### **AFFECTED ENVIRONMENT:**

The project occurs along 120 spans/sites across 18 transmission lines in the Northern California counties of Butte, Colusa, Contra Costa, Sacramento, San Joaquin, Shasta, Siskiyou, Solano, Tehama, Trinity, Tuolumne, and Yuba. Elevations range from 3,943 ft along the Malin-Round Mountain line to two feet below sea level along the Hurley-Tracy line. The vegetation is comprised of mixed conifer, oak woodland, grassland, and cultivated vegetation related to agricultural land use.

### **CULTURAL AND HISTORIC RESULTS:**

Most of the transmission line ROW spans in this document have been surveyed for cultural resources. Specification 200101 details the results of cultural resource surveys within the ROW of the transmission line spans and is included in this document. ROW spans that were surveyed and revealed no cultural sites (SNS) do not require restrictions for work performed within the ROW. Several spans, as indicated below, have sensitive cultural resource sites within the ROW or have not been surveyed. In these instances, hand clearing only is allowed. No mechanical methods of vegetation removal are allowed, and only rubber-tired vehicles are allowed.

All tree trimming activities occurring **outside** of the ROW will be conducted by hand only. No mechanical methods that disturb the ground surface is allowed. Only rubber-tired vehicles are allowed in these areas.

- This action will be included in WAPA's annual report for the Operation and Maintenance Programmatic Agreement, 2010.

If cultural resource sites are recorded but cannot be avoided to the extent that there would be no adverse effect to the sites, then consultation with the SHPO under the standard procedures for Section 106 of the NHPA will be required prior to any vegetation removal activities. Such consultation could take two to three months to complete.

- WAPA Environmental will be contacted immediately if archeological, paleontological, or historical evidence is found.

Cultural information by span:

Airport-Cottonwood (AIR-CW) 230-kV

16/1-16/2 Surveyed No Sites (SNS)

16/2-16/3 SNS

Captain Jack-Olinda (CPJ-ODA) 500-kV

466-467 SNS

467-468 SNS

468-469 SNS

502-503 SNS

503-504 SNS

504-505 CA-SHA-1720, Sensitive Prehistoric Site throughout Span. Hand clear only. Rubber-tired vehicle only allowed in ROW. Minimum foot traffic.

505-506 SNS

506-507 SNS

507-508 SNS

508-509 SNS

512-513 Hand clear only. Not surveyed.

515-516 CA-SHA-785, Sensitive Prehistoric Site. Rubber-tired vehicle only allowed in ROW. Minimum foot traffic.

517-518 SNS

518-519 Hand clear only. Not surveyed.

519-520 SNS

520-521 SNS

522-523 SNS

608-609 SNS

Cottonwood-Roseville (CW-RSC) 230-kV

28/1-28/2: SNS

31/3-31/4: SNS

32/1-32/2: SNS

36/2-36/3: SNS

38/4-38/5: SNS

51/3-51/4: SNS

56/4-56/5: SNS

59/5-59/6: SNS

67/2-67/3: SNS

67/3-67/4: SNS

69/6-70/1: SNS

70/3-70/4: SNS

70/4-70/5: SNS

70/5-71/1: SNS

71/1-71/2: SNS

111/4-112/1: SNS

112/1-112/2: SNS

112/2-112/3: SNS

Tower 113/2 Only: SNS

Flanagan-Keswick (FLN-KE) 230-kV

4/2-4/3 Historic mine tailing in ROW. Hand clear only. Rubber-tired vehicle only allowed in ROW. Minimum foot traffic.

4/3-4/4 Hand clear only. Not surveyed.

4/4-5/1 Hand clear only. Not surveyed.  
 5/1-5/2 Hand clear only. Not surveyed.  
 5/2-5/3 Hand clear only. Not surveyed.  
 5/3-5/4 Historic mining sites in ROW. Hand clear only.

Folsom-Roseville (FOL-RSC) 230-kV

TOS-0/1: SNS

Hurley-Tracy #1&2 (HUR-TRY1&2) 230-kV

30/1-30/2: SNS

33/4-34/1: SNS

34/3-34/4: SNS

Hurley-Tracy #1 (HUR-TRY1) 230-kV

53/1 Tower only: SNS

54/2 Tower only: SNS

58/2-58/3: Avoid historic building foundations and utility pole mid span.

60/2 Tower only: SNS

Hurley-Tracy #2 (HUR-TRY2) 230-kV

50/4-50/5: SNS

52/5 Tower only: SNS

54/4-55/1: Rice field (ok)

Keswick-O'Banion/Olinda-O'Banion (KE-OBN/ODA-OBN) 230-kV

110/1-110/2: Rice field (ok)

Keswick-Olinda#2/Keswick-O'Banion (KE-ODA#2/KE-OBN) 230-kV

4/2-4/3: SNS

Malin-Round Mountain 1 (MLN-RDM1) 500-kV

56/3-56/4: SNS

56/4-56/5: SNS

57/1-57/2: Historic railroad grade (berm) located in two separate section in span. Hand clear only.

57/2-57/3: SNS

57/3-57/4: Historic railroad grade (berm). Hand clear only.

78/1-78/2: SNS

78/2-78/3: Cultural site west of ROW border but unknow how far site extends into ROW. Hand clear only allowed.

Rubber-tired vehicles.

79/3-79/4: CA-SHA-2239, Sensitive prehistoric site east side of ROW border but may extend into ROW. Hand clear only allowed. Rubber-tired vehicles.

79/4-79/5: CA-SHA-2719, Sensitive prehistoric site. Hand clear only allowed. Rubber-tired vehicles.

79/5-80/1: SNS

80/1-80/2: SNS

80/2-80/3: SNS

80/3-80/4: SNS

82/4-82/5: SNS

84/1-84/2: SNS

New Melones-Tuttletown Tap (NMTTAP) 17.2-kV

18-19: Not surveyed. Sensitive for historic mining sites. Hand clear only allowed. Rubber-tired vehicles.

21-22: Not surveyed. Sensitive for historic mining sites. Hand clear only allowed. Rubber-tired vehicles.

26-27: Not surveyed. Sensitive for historic mining sites. Hand clear only allowed. Rubber-tired vehicles.

Olinda-Tracy (ODA-TCY) 500-kV

Tower 140/2 only: SNS  
 Tower 175/1-175/2: SNS  
 Tower 175/3 only: SNS  
 Tower 185/1 only: SNS

Round Mountain-Cottonwood #1 (RDM-CW#1) 230-kV

4/2-4/3: SNS  
 4/4-4/5: SNS in ROW. CA-SHA-2589 within access road on east side of ROW. Rubber-tired vehicles.  
 4/5-5/1: SNS  
 5/2-5/3: CA-SHA-1720. Sensitive prehistoric site. Hand clear only. Rubber-tired vehicles. Minimum foot traffic.  
 5/3-5/4: SNS  
 5/4-5/5: SNS  
 6/1-6/2: SNS  
 7/1-7/2: Not surveyed. Hand clear only.  
 7/2-7/3: Not surveyed. Hand clear only.  
 7/3-7/4: CA-SHA-785. Sensitive prehistoric site. Hand clear only. Rubber-tired vehicles. Minimum foot traffic.  
 7/5-8/1: SNS  
 8/2-8/3: SNS  
 8/3-8/4: SNS  
 8/5-9/1: SNS  
 19/1-19/2: SNS  
 19/2-19/3: SNS  
 22/1-22/2: SNS  
 26/3-26/4: SNS  
 26/4-26/5: SNS  
 27/2-27/3: SNS  
 28/4-28/5: SNS  
 32/2-32/3: SNS  
 32/3-32/4: CA-SHA-1755. Sensitive prehistoric site (north of tower 32/4). Hand clear only. Rubber-tired vehicles.  
 Minimum foot traffic.  
 32/4-32/5: SNS

Shasta-Cottonwood #1 (SHA-CW#1) and #2 (SHA-CW#2)230-kV

4/2-4/3: Historic mine tailings/mining sites within ROW. Hand clear only.  
 4/3-4/4: Not surveyed. Hand clear only.  
 4/4-5/1: Not surveyed. Hand clear only.  
 5/1-5/2: Historic mine tailings/mining sites within ROW. Hand clear only.  
 5/2-5/3: Not surveyed. Hand clear only.  
 5/3-5/4: Historic mine tailings/mining sites within ROW. Hand clear only.  
 19/1-19/2: SNS

Shasta-Cottonwood #2 (SHA-CW#2)230-kV

21/3-21/4: SNS

Trinity-Weaverville (TNI-WEA) 60kv

2/2-2/3: SNS  
 2/18-3/1: SNS. Cultural site within west access road below tower 2/18. Rubber-tired vehicle only.  
 4/16-5/1: SNS  
 6/6-6/7: SNS  
 10/7-10/8: SNS  
 10/8-10/9: SNS  
 13/14-13/15: SNS

Tracy-Contra Costa (TRY-CC) 69-kV  
20/4-20/5: SNS

**BIOLOGICAL RESULTS:**

Special status species were evaluated for their likelihood to occur within a span or site based upon occurrence, distribution, and habitat information available through the California Natural Diversity Database (CNDDB) and U.S. Fish and Wildlife Service Information for Planning and Conservation (IPaC) tool. The results listed below suggest several protected species and habitats may occur within the project footprint. However, with the implementation of the below described project conservation measures, the project is anticipated to have no effect on special status species or habitats. In-field biological surveys will be conducted in advance of vegetation work to ensure impacts to sensitive species and/or habitats are avoided. Depending upon survey results, biological monitoring may be required at the time of vegetation work.

Protected species and/or habitats by span/site:

Airport-Cottonwood (AIR-CW) 230-kV

16/1-16/2: MBTA (north), wetlands, waters, tricolored blackbird, VELB  
16/2-16/3: MBTA (north), wetlands, waters, fisheries, tricolored blackbird, VELB

Captain Jack-Olinda (CPI-ODA) 500-kV:

466-467: MBTA (north), VELB  
467-468: MBTA (north), VELB  
468-469: MBTA (north), VELB  
502-503: MBTA (north), VELB  
503-504: MBTA (north), VELB  
504-505: MBTA (north), wetlands, waters, VELB  
505-506: MBTA (north), wetlands, waters, VELB  
506-507: MBTA (north), wetlands, waters, VELB, red-tailed hawk nest near tower 506  
507-508: MBTA (north), wetlands, waters, VELB  
508-509: MBTA (north), VELB  
512-513: MBTA (north), VELB  
515-516: MBTA (north), wetlands, waters, VELB  
517-518: MBTA (north), VELB  
518-519: MBTA (north), wetlands, waters, VELB  
519-520: MBTA (north), wetlands, waters, VELB  
520-521: MBTA (north), VELB  
522-523: MBTA (north), wetlands, waters, VELB  
608-609: MBTA (north), wetlands, waters, VELB, tricolored blackbird

Cottonwood-Roseville (CW-RSC) 230-kV

28/1-28/2: MBTA, wetlands, waters, VELB, plants, CRLF  
31/3-31/4: MBTA, VELB, red-tailed hawk nest on tower 31/2  
32/1-32/2: MBTA, VELB, red-tailed hawk nest on tower 32/3  
36/2-36/3: MBTA, wetlands, waters, VELB, CRLF, yellow-billed cuckoo, red-tailed hawk nest on tower 36/3  
38/4-38/5: MBTA, wetlands, waters, VELB  
51/3-51/4: MBTA, wetlands, waters, fisheries, VELB, plants  
56/4-56/5: MBTA, wetlands, waters, VELB, CRLF, plants  
59/5-59/6: MBTA, wetlands, waters, VELB, CRLF, plants  
67/2-67/3: MBTA, VELB, wetlands, CRLF, plants  
67/3-67/4: MBTA, VELB, wetlands, CRLF, plants  
69/6-70/1: MBTA, VELB, wetlands, waters, fisheries, CRLF, plants  
70/3-70/4: MBTA, VELB, wetlands, VELB, CRLF, plants

70/4-70/5: MBTA, VELB, wetlands, VELB, CRLF, plants  
 70/5-71/1: MBTA, VELB, wetlands, VELB, CRLF, plants  
 71/1-71/2: MBTA, VELB, wetlands, VELB, CRLF, plants  
 111/4-112/1: MBTA, VELB, wetlands, VELB, CRLF, tricolored blackbird  
 112/1-112/2: MBTA, VELB, wetlands, VELB, CRLF, tricolored blackbird  
 112/2-112/3: MBTA, VELB, wetlands, VELB, CRLF, tricolored blackbird  
 Tower 113/2 Only: MBTA, wetlands, VELB, CRLF, GGS

Flanagan-Keswick (FLN-KE) 230-kV

4/2-4/3: MBTA (north), wetlands, waters, VELB, CRLF  
 4/3-4/4: MBTA (north), wetlands, waters, VELB, CRLF  
 4/4-5/1: MBTA (north), wetlands, waters, VELB, CRLF  
 5/1-5/2: MBTA (north), wetlands, waters, VELB, CRLF  
 5/2-5/3: MBTA (north), wetlands, waters, VELB, CRLF  
 5/3-5/4: MBTA (north), wetlands, waters, VELB, CRLF

Folsom-Roseville (FOL-RSC) 230-kV

TOS-0/1: MBTA (Bureau of Reclamation), VELB

Hurley-Tracy #1&2 (HUR-TRY1&2) 230-kV

30/1-30/2: MBTA, wetlands, waters, VELB, CRLF, CTS, Swainson's hawk, plants  
 33/4-34/1: MBTA, wetlands, waters, VELB, GGS, CRLF, CTS, Swainson's hawk, tricolored blackbird, plants  
 34/3-34/4: MBTA, wetlands, waters, VELB, GGS, CRLF, CTS, Swainson's hawk, tricolored blackbird, plants

Hurley-Tracy #1 (HUR-TRY1) 230-kV

53/1 Tower only: MBTA, wetlands, VELB, GGS, CRLF, CTS, tricolored blackbird, plants  
 54/2 Tower only: MBTA  
 58/2-58/3: MBTA, wetlands, waters, Swainson's hawk, tricolored blackbird  
 60/2 Tower only: MBTA, Swainson's hawk

Hurley-Tracy #2 (HUR-TRY2) 230-kV

50/4-50/5: MBTA, wetlands, waters, Swainson's hawk, burrowing owl,  
 52/5 Tower only: MBTA, wetlands, waters, VELB, CRLF, CTS, GGS, tricolored blackbird, plants  
 54/4-55/1: MBTA, wetlands, waters, VELB, CRLF, CTS, GGS, tricolored blackbird, Swainson's hawk, plants

Keswick-O'Banion/Olinda-O'Banion (KE-OBN/ODA-OBN) 230-kV

110/1-110/2: MBTA, wetlands, waters, VELB, CRLF, GGS, tricolored blackbird

Keswick-Olinda#2/Keswick-O'Banion (KE-ODA#2/KE-OBN) 230-kV

4/2-4/3: MBTA (north), wetlands, VELB

Malin-Round Mountain 1 (MLN-RDM1) 500-kV

56/3-56/4: MBTA (north), northern goshawk, plants  
 56/4-56/5: MBTA (north), northern goshawk, plants  
 57/1-57/2: MBTA (north), northern goshawk, plants  
 57/2-57/3: MBTA (north), northern goshawk, plants  
 57/3-57/4: MBTA (north), northern goshawk, plants  
 78/1-78/2: MBTA (north), wetlands, waters, VELB, northern goshawk, fisher, NSO  
 78/2-78/3: MBTA (north), wetlands, waters, VELB, northern goshawk, fisher, NSO  
 79/3-79/4: MBTA (north), wetlands, waters, fisheries, VELB, fisher  
 79/4-79/5: MBTA (north), wetlands, waters, VELB, fisher  
 79/5-80/1: MBTA (north), wetlands, waters, VELB, fisher  
 80/1-80/2: MBTA (north), wetlands, waters, VELB, fisher  
 80/2-80/3: MBTA (north), wetlands, waters, VELB, fisher, western pond turtle  
 80/3-80/4: MBTA (north), wetlands, waters, VELB, fisher, western pond turtle  
 82/4-82/5: MBTA (north), wetlands, VELB, fisher, plants

84/1-84/2: MBTA (north), wetlands, VELB, fisher, northern goshawk, plants

New Melones-Tuttletown Tap (NMTTAP) 17.2-kV

18-19: MBTA (Bureau of Reclamation)

21-22: MBTA (Bureau of Reclamation)

26-27: MBTA (Bureau of Reclamation)

Olinda-Tracy (ODA-TCY) 500-kV

Tower 140/2 only: MBTA, VELB

Tower 175/1-175/2: MBTA, wetlands, waters, VELB, CRLF, CTS, GGS, Swainson's hawk, burrowing owl

Tower 175/3 only: MBTA, wetlands, waters, VELB, GGS, Swainson's hawk, burrowing owl, western pond turtle

Tower 185/1 only: MBTA, wetlands, VELB, GGS, CTS, burrowing owl, plants

Round Mountain-Cottonwood #1 (RDM-CW#1) 230-kV

4/2-4/3: MBTA (north), waters, VELB

4/4-4/5: MBTA (north), VELB

4/5-5/1: MBTA (north), VELB

5/2-5/3: MBTA (north), wetlands, waters, VELB

5/3-5/4: MBTA (north), wetlands, waters, VELB

5/4-5/5: MBTA (north), wetlands, waters, VELB

6/1-6/2: MBTA (north), wetlands, waters, VELB

7/1-7/2: MBTA (north), wetlands, VELB

7/2-7/3: MBTA (north), wetlands, VELB

7/3-7/4: MBTA (north), VELB

7/5-8/1: MBTA (north), VELB

8/2-8/3: MBTA (north), wetlands, waters, VELB

8/3-8/4: MBTA (north), VELB

8/5-9/1: MBTA (north), wetlands, waters, VELB

19/1-19/2: MBTA (north), VELB

19/2-19/3: MBTA (north), VELB

22/1-22/2: MBTA (north), wetlands, waters, fisheries, VELB, plants

26/3-26/4: MBTA (north), wetlands, waters, VELB, plants

26/4-26/5: MBTA (north), wetlands, waters, VELB, plants

27/2-27/3: MBTA (north), wetlands, VELB, plants

28/4-28/5: MBTA (north), wetlands, VELB, plants

32/2-32/3: MBTA (north), wetlands, VELB

32/3-32/4: MBTA (north), wetlands, VELB

32/4-32/5: MBTA (north), wetlands, VELB

Shasta-Cottonwood #1 (SHA-CW#1) and #2 (SHA-CW#2)230-kV

4/2-4/3: MBTA (north), wetlands, waters, VELB, CRLF

4/3-4/4: MBTA (north), wetlands, waters, VELB, CRLF

4/4-5/1: MBTA (north), wetlands, waters, VELB, CRLF

5/1-5/2: MBTA (north), wetlands, waters, VELB, CRLF

5/2-5/3: MBTA (north), wetlands, waters, VELB, CRLF

5/3-5/4: MBTA (north), wetlands, waters, VELB, CRLF

19/1-19/2: MBTA (north), wetlands, VELB, CRLF, plants

Shasta-Cottonwood #2 (SHA-CW#2)230-kV

21/3-21/4: MBTA (north), VELB

Trinity-Weaverville (TNI-WEA) 60kv

2/2-2/3: MBTA (north), wetlands, waters, fisher, NSO

2/18-3/1: MBTA (north), wetlands, waters, fisher, NSO

4/16-5/1: MBTA (north), fisher, NSO

6/6-6/7: MBTA (north), wetlands

10/7-10/8: MBTA (north), fisher  
 10/8-10/9: MBTA (north), wetlands, waters, fisher  
 13/14-13/15: MBTA (north), fisher, NSO

Tracy-Contra Costa (TRY-CC) 69-kV

20/4-20/5: MBTA, burrowing owl

The following project conservation measures shall be implemented:

**Burrowing owl:**

From February 1 to August 31, herbicide application (with the exception of direct application) and other O&M activity will be prohibited within 250 feet of potential burrowing owl nesting dens. From September 1 through January 31, disturbance will be prohibited within 160 feet of potential burrowing owl dens, or a qualified biologist will conduct nesting and wintering surveys using methods described in California Burrowing Owl Consortium 1993. If nesting or wintering activity is detected, a qualified biologist will mark and monitor an appropriate non-disturbance buffer in the vicinity of burrows that have been active within the last three years. Within the buffer zone, all O&M activities and herbicide applications will be prohibited from February 1 to August 31.

**CRLF (California red-legged frog):**

An approved biologist will identify potential CRLF breeding habitat and will flag a 500-foot buffer. The following restrictions apply within the buffer:

- Vehicles must remain on existing access roads and maintain a speed limit of 15 mph;
- Only manual vegetation removal is allowed;
- Only direct (e.g. injection and cut-stump) herbicide application methods are allowed, except when otherwise restricted;
- No ground disturbance (e.g. digging or auguring); and
- Erosion-control devices will be of a material that will not entrap amphibians.

If it is not possible to follow the above-stated measures, a pre-activity survey will be conducted no more than 24 hours before O&M activities begin. An approved biologist will remain on site during all activities to ensure protection of CRLFs or an exclusion barrier will be constructed around the work site, following Service-approved methods and materials, which will be removed at the end of the work activity.

To comply with the CRLF injunction for herbicide applications, in the counties named in the injunction, there will be no ground application of any of the chemicals named in the injunction (<http://www.epa.gov/espp/litstatus/redleg-frog/steps-info.htm>). Currently, the no-use buffer is 60 feet from any aquatic feature, aquatic breeding habitat, non-breeding aquatic habitat, and upland habitat.

**CTS (California tiger salamander):**

An approved biologist will identify potential California tiger salamander (CTS) breeding habitat and will flag a 500-foot buffer. The following restrictions apply within the buffer:

- Vehicles must remain on existing access roads and maintain a speed limit of 15mph;
- Only manual vegetation removal is allowed;
- Only direct (e.g. injection and cut-stump) herbicide application methods are allowed, except when otherwise restricted;
- No ground disturbance (e.g. digging or auguring); and
- Erosion-control devices will be of a material that will not entrap amphibians.

If it is not possible to follow the above-stated measures, a pre-activity survey will be conducted no more than 24 hours before O&M activities begin. An approved biologist will remain on-site during all activities to ensure protection of CTS or an exclusion barrier will be constructed around the work site, following Service-approved methods and materials, which will be removed at the end of the work activity.

**Fisher:**

Between February 1 and August 1, off-road vehicle travel and activity will be avoided to the extent possible. If off-road travel or ground disturbance is required in potential fisher habitat (closed canopy, old-growth forests) at any time of year, disturbance to existing downfall, snags, downed trees/logs, and stumps will be minimized. Existing snags, downfall, and stumps will never be moved or removed unless they are a specific safety concern.

**Fisheries:**

The following avoidance measures apply to perennial watercourses:

- Trim trees providing shade to the riverine areas only to the extent necessary.
- Only manual removal of vegetation is allowed within 100 feet of perennial watercourses.
- Only cut-stump treatments using herbicides approved for aquatic use by the Environmental Protection Agency (EPA) and in compliance with the State of California are allowed within 100 feet of perennial watercourses.
- No chemicals are to be mixed and no open petroleum products are allowed within 100 feet of the perennial watercourses.

**GGS (Giant garter snake):**

Use of herbicides (with the exception of direct application) within 200 feet of potential giant garter snake habitat will be prohibited at all times.

Movement of heavy equipment will be confined to existing roadways to minimize habitat disturbance. Vegetation management will be confined to the minimum area necessary to facilitate O&M activities.

GGs aquatic and upland habitats will be flagged as environmentally sensitive areas by an approved biologist within or adjacent to the disturbance footprint. Only manual vegetation removal will be allowed within the flagged area. An approved monitor will be present for O&M activities within the flagged area.

**MBTA (Migratory Bird Treat Act):**

If planned activities occur between March 1 and August 15 (January 1 and September 15 for northern areas, January 1 and August 15 for Sacramento area, and March 1 and August 31 on BOR land), nesting bird surveys will be required prior to project activities. If a nest is detected, an appropriate buffer will be marked in which all O&M activities and herbicide applications will be prohibited from March 1 to August 15 (January 1 and September 15 for northern areas, January 1 and August 15 for Sacramento area), or until nestlings have fledged. A standard nest buffer of 50 feet will be used, unless otherwise indicated by the surveying biologist. A standard buffer of 250 feet will be used for raptor nests, unless otherwise indicated by the surveying biologist. Nesting surveys can be conducted up to 3 weeks (5 days on BOR land) prior to Project activities. Please notify WAPA a minimum of 2 weeks in advance to schedule nesting surveys.

**Northern goshawk:**

From February 15 to August 15 herbicide application (with the exception of direct application), tree removal, and noisy or disturbing O&M activities (e.g., chain saws, mechanical chippers) will be prohibited or a qualified biologist will conduct nest surveys using methods described in USDA 2005. If a nest is detected, a qualified biologist will mark and monitor an appropriate buffer zone around the nest within which all O&M activities and herbicide applications will be prohibited from February 15 to August 15.

**NSO (Northern spotted owl):**

From February 1 to July 31 (Sept 15 for USFS land) herbicide application (with the exception of direct application), tree removal, and any noisy or disturbing O&M activities (e.g., chain saw, mechanical chipper) will be prohibited. O&M activities that only require the use of hand tools and pickup trucks are allowable within this time frame.

If O&M activities need to be conducted between February 1 and July 31, a Service-approved biologist will conduct protocol nest surveys using methods described in CDFG 1992 (or the most current survey protocol) under guidance of USFWS. If a nest is detected, the USFWS will be contacted for further guidance.

TNI-WEA spans located within 1-mile buffer – work deferred until after September 15:

- 2/2-2/3
- 2/18-3/1

**Plants:**

Vehicle access will be permitted only on well-established roads during the bloom season until the site has been cleared by a qualified biologist. All vehicles will have rubber tires. Off-road travel will be avoided to the extent possible.

During the blooming season (March-October), activities require a survey by a qualified biologist to flag existing plant populations or clear the site if the site is located in an area where a sensitive plant population has the potential to occur. The table below identifies the plants that must be surveyed for during specific time periods for each applicable tower range. If botanical surveys and/or marking of sensitive plant populations are required, please notify WAPA at least 2 weeks in advance.

Tower Range	Common Name	Scientific Name	Habitat	Bloom Season
MLN- RDM1: 56/3- 56/4 56/4-56/5 57/1-57/2 57/2-57/3 57/3-57/4	Long-haired star-tulip	<i>Calochortus longebarbatus</i> var. <i>longebarbatus</i>	Clay, mesic. Great Basin scrub, lower montane coniferous forest (openings and drainages), meadows, seeps, vernal pools.	June - August
RDM-CW1: 22/1-22/2 26/3-26/4 26/4-26/5 27/2-27/3  CW-RSC: 28/1-28/2	Silky cryptantha	<i>Cryptantha crinita</i>	Cismontane woodland, lower montane coniferous forest, riparian forest, riparian woodland, valley and foothill grassland; gravelly streambeds.	April - May
RDM-CW1: 22/1-22/2 26/3-26/4 26/4-26/5 27/2-27/3  CW-RSC: 28/1-28/2  SHA- CW1&2: 19/1-19/2	Red Bluff dwarf rush	<i>Juncus leiospermus</i> var. <i>leiospermus</i>	Chaparral, cismontane woodland, meadows and seeps, valley and foothill grassland, vernal pools/ vernally mesic.	March - May
RDM-CW1: 28/4-28/5  CW-RSC: 28/1-28/2	Ahart's paronychia	<i>Paronychia ahartii</i>	Vernal pools	March - June
RDM-CW1: 22/1-22/2 26/3-26/4 26/4-26/5 27/2-27/3 28/4-28/5  CW-RSC: 28/1-28/2 51/3-51/4 56/4-56/5 59/5-59/6 67/2-67/3	Slender Orcutt grass	<i>Orcuttia tenuis</i>	Vernal pools.	May - October

Tower Range	Common Name	Scientific Name	Habitat	Bloom Season
67/3-67/4 69/6-70/1 70/3-71/2				
CW-RSC: 28/1-28/2	Henderson's bent grass	<i>Agrostis hendersonii</i>	Mesic valley and foothill grasslands and vernal pools.	April - June
CW-RSC: 28/1-28/2	Sanford's arrowhead	<i>Sagittaria sanfordii</i>	Standing or slow-moving freshwater ponds, marshes, and ditches.	May - October
CW-RSC: 28/1-28/2 56/4-56/5 59/5-59/6	Woolly meadowfoam	<i>Limnanthes floccosa ssp. floccosa</i>	Chaparral, cismontane woodland, valley and foothill grassland, vernal pools; vernal mesic.	March - June
CW-RSC: 51/3-51/4 56/4-56/5 59/5-59/6	Hoover's spurge	<i>Chamaesyce hooveri</i>	Vernal pools.	July - October
CW-RSC: 51/3-51/4 56/4-56/5 59/5-59/6	Greene's tuctoria	<i>Tuctoria greenei</i>	Vernal pools.	May - September
CW-RSC: 51/3-51/4 56/4-56/5 59/5-59/6	Hairy orcutt grass	<i>Orcuttia pilosa</i>	Vernal pools.	May - September
CW-RSC: 59/5-59/6 67/2-67/3 67/3-67/4 69/6-70/1 70/3-71/2	Butte County meadowfoam	<i>Limnanthes floccosa ssp. californica</i>	Valley and foothill grassland with mesic soils and vernal pools.	March - May
CW-RSC: 67/2-67/3 67/3-67/4 69/6-70/1 70/3-71/2	Butte County checkerbloom	<i>Sidalcea robusta</i>	Chaparral, foothill woodland.	April-June
HUR-TRY: 30/1-30/2 33/4-34/1 34/3-34/4	Succulent owl's- clover	<i>Castilleja campestris ssp. succulenta</i>	Vernal pools and other moist places, often with acidic soil.	April - May
HUR-TRY1: 53/1  HUR-TRY2: 50/4-50/5 52/5 54/4-55/1  ODA-TCY: 175/1-175/3 185/1	Mason's lilaeopsis	<i>Lilaeopsis masonii</i>	Marshes and swamps (brackish or freshwater), riparian scrub.	April - November
MLN- RDM1: 82/4-82/5 84/1-84/2	English Peak greenbrier	<i>Smilax jamesii</i>	Broadleaf upland forest, lower montane coniferous forest, marshes and swamps, North Coast coniferous	May - August

Tower Range	Common Name	Scientific Name	Habitat	Bloom Season
			forest, and upper montane coniferous forest in streambanks and lake margins.	
MLN-RDM1: 82/4-82/5 84/1-84/2	Butte County morning glory	<i>Calystegia atriplicifolia ssp. buttensis</i>	Rocky, sometimes roadside; chaparral and lower montane coniferous forest; elevation 565 – 1,524 meters.	May - July

If vegetation-management activities are proposed during the blooming season, a qualified biologist will mark special status plant populations (including a 50-foot buffer zone) prior to O&M activity. Within 100 feet of the marked area, the following work area limits will be provided: 1) only manual clearing of vegetation will be allowed within 50 feet of the edge of the flagged area, and 2) mechanical treatment of all kinds (including mowers, tractors, chippers, dozers) will be prohibited.

Herbicide use will be prohibited at all times with the exception of direct application to target vegetation.

#### **Swainson's hawk:**

From April 1 to July 31 herbicide application, intensive disturbance (e.g., use of heavy equipment, power saws, chippers, cranes, or draglines), and tree removal will be prohibited within 0.25 miles of a Swainson's hawk nest until after the young have fledged or until it is determined by a qualified biologist that the activities will not adversely affect adults or young. This buffer may be adjusted, as assessed by a qualified biologist, based on changes in sensitivity exhibited by birds over the course of the nesting season and the type of O&M activity performed. Or, a qualified biologist will conduct nest surveys using the most recent survey protocol to determine absence.

#### **Tricolored blackbird:**

From March 15 to August 15 herbicide application (with the exception of direct application) and vegetation clearing/disturbance will be prohibited in marshes, willows, and blackberry thickets or a qualified biologist will conduct a nesting survey prior to O&M activities. If nesting activity is detected, a qualified biologist will mark and monitor an appropriate buffer zone around the nesting colony within which all O&M activities and herbicide applications will be prohibited from March 15 to August 15.

#### **VELB (Valley Elderberry Longhorn Beetle/Elderberry shrubs):**

Prior to initiating vegetation clearance in the Central Valley below 3,000 feet with elderberry plants present, qualified personnel will clearly flag or fence each elderberry plant that has a stem measuring one inch or greater in diameter at ground level. If an elderberry plant meeting this criterion is present:

A minimum buffer zone of 20 feet outside of the dripline of each elderberry plant will be provided during all routine O&M activities, within which only manual methods for vegetation clearing will be allowed.

No insecticides, herbicides, fertilizers, or other chemicals will be used within 100 feet of an elderberry plant, except direct application to target vegetation (e.g. injection or cut-stump). Trimming, rather than removal of shrubs, will be used where feasible. Directional felling of trees and manual cutting of trees prior to removal will be used to minimize impacts to elderberries.

**Waters (Seep, Spring, Pond, Lake, River, Stream, and Marsh):**

The following activities will be prohibited at all times within 100 feet of a seep, spring, pond, lake, river, stream, or marsh, and their associated habitats:

- Vehicle access, except on existing access and maintenance roads
- Dumping, stockpiling, or burying of any material
- Mixing of pesticides, herbicides, or other potentially toxic chemicals
- Open petroleum products

Equipment will be stored, fueled, and maintained in a vehicle staging area 300 feet or the maximum distance possible from any seep, spring, pond, lake, river, stream, marsh, or their associated habitats. Vehicles will be inspected daily for fluid leaks before leaving resource area.

For vegetation management or maintenance within 100 feet of any seep, spring, pond, lake, river, stream, or marsh, or any of their associated habitats, the following work-area limits will be provided:

- Only manual-clearing of vegetation will be permitted
- Basal and foliar application of herbicides will be prohibited. Only direct application treatments (e.g. injection and cut-stump) of target vegetation will be allowed using herbicide approved for aquatic use by the U.S. EPA and in coordination with the appropriate federal land manager.

When feasible, all maintenance activities will be routed around wet areas while ensuring that the route does not cross sensitive resource areas.

**Western yellow-billed cuckoo:**

From May 1 to September 15, herbicide application (with the exception of direct application) and tree/vegetation disturbance will be prohibited in Great Valley riparian forest and scrub habitats.

**Western pond turtle:**

From April 15 to July 15, a qualified biologist will survey within 400 feet of a permanent pond, lake, creek, river, or slough if any ground-disturbing activity that could affect the bed, bank, or water quality of any of these features is proposed. If adult or juvenile pond turtles are present, a qualified biologist will monitor project activities to ensure that turtles are not harmed. If the biologist determines that turtle nests could be adversely affected, then nesting areas will be avoided between June 1 and October 31. Water features will be avoided.

**Wetlands (Seasonal wetlands including vernal pools and vernal pool grassland):**

Restrictions for seasonal wetlands (including vernal pools and vernal pool grasslands) include:

Vehicle access will only be permitted on well-established roads unless soils are dry. Soils will be considered sufficiently dry for vehicle access when they resist compaction, and after annual plants have set seed (generally June 1 to September 30, or as determined by a qualified biologist based on personal observation of the soils).

When feasible, all maintenance activities will be routed around wet areas while ensuring that the route does not cross sensitive resource areas.

If vegetation management activities are proposed within 250 feet of a seasonal wetland a biological monitor will be present and/or a qualified biologist will clearly mark the limits of the feature(s) or appropriate buffers. A qualified biologist will clearly flag a 50 foot buffer around all seasonal wetland features if work is proposed during the wet season (generally October 1 to May 31) or flag the feature if work is proposed during the dry season (generally June 1 to September 30).

Mixing or application of pesticides, herbicides, or other potentially toxic chemicals will be prohibited within 250 feet of seasonal wetland features.

Herbicide application to target vegetation by direct application methods (e.g. injection or cut-stump treatment) will be prohibited within 50 feet of wetland features in the wet season and allowed up to the edge of the wetland feature during the dry season.

Herbicide application by basal spray and foliage spray methods will be prohibited within 100 feet of wetland features in any season.

Manual clearing of vegetation (chainsaw, axe, clippers) will be allowed up to the edge of the pool or seasonal wetland in the wet season; a buffer will not be necessary in the dry season.

Mechanical clearing of vegetation (heavy-duty mowers, crawler tractors, or chippers) will be prohibited within 100 feet in the wet season; a buffer will not be necessary in the dry season.

All equipment will be stored, fueled, and maintained in a vehicle staging area 300 feet or the maximum distance possible from any vernal pool, vernal pool grassland, or seasonal wetland, and no closer than 200 feet unless a bermed (no ground disturbance) and lined refueling area is constructed and hazardous material absorbent pads are available in the event of a spill.

Vehicles will be inspected daily for fluid leaks before leaving the staging area.

## **COMPLIANCE**

**Recycled Materials Quantities:** All materials generated from the project that can be recycled, shall be recycled. Submit quantities of all recycled material by category to the COR within 30 days of recycling and prior to submittal of final invoice. Record quantities of material by category that is salvaged, recycled, reused, or reprocessed.

**Disposal of Waste Material:** Waste materials will be disposed in accordance with applicable Federal, State, and local regulations and ordinances. The project manager will coordinate with the COR and WAPA Environmental regarding sampling and signatures on manifests for waste materials if required.

Any wood waste treated with a preservative must be properly disposed or recycled in accordance with California regulations. It is not acceptable to place TWW in a commercial dumpster. TWW includes: poles, cross arms, pilings, fence posts, lumber, and support timbers. The TWW must go to a licensed landfill or recycling facility with a Consumer Information Document and be reported to the California Department of Toxic Substances Control within 30-days of disposal.

**Prevention of Air Pollution:** Federal law requires the protection of air quality under the Clean Air Act. All activities on this project shall be compliant with Federal, State, and local regulations. In particular, California Air Resources Board regulations apply to diesel equipment and trucks as well as fleets of large spark ignition equipment. Additionally, the project is located within the Shasta County Air District jurisdiction and is subject to the local rules from that agency. Due to site conditions, the Project will require the use of helicopters to assist Tower construction. Light or medium duty vehicles and equipment will be used to support the Project. Federal law requires the protection of air quality under the Clean Air Act. All activities on this project would be compliant with Federal, State, and local regulations.

**General Conformity Appendix B:** Since the cited categorical exclusion is listed in Appendix B to 10 CFR Part 1021, Subpart D, a general conformity review is required for this project, pursuant to Clean Air Act General Conformity Requirements and the National Environmental Policy Act Process guidance document published by Department of Energy in April, 2000.

The Project is exempt from Federal General Conformity Analysis and Determination due to Shasta County's attainment status for criteria pollutants. Shasta County Air Quality Management District (Shasta County AQMD) has adopted rules regarding air quality and criteria pollutant significance thresholds for new and modified stationary sources (Rule 2:1). The rules do not have provisions that would apply to short-term construction activity. Therefore, the Shasta County AQMD rules do not directly apply to the Project.

CalEEMod (version 2016.3.2) and the Swiss Confederation Guidance of the Determination of Helicopter Emissions were used to calculate the emissions output for the Project. Although the Project would create criteria pollutant emissions, they would be for a short duration, and would not affect long-term air quality standards. Additionally, WAPA would implement the following standard operating procedures to reduce air pollution.

**Air Quality Standard Operating Procedures:**

- WAPA will adhere to all applicable requirements of those agencies having jurisdiction over air quality matters, and any necessary permits for O&M will be obtained;
- Machinery and vehicles will be kept in good operating condition and older equipment will be replaced with equipment meeting applicable emission standards; appropriate emissions-control equipment will be maintained for vehicles and equipment, per EPA and/or Western air emission requirements;
- Idle equipment will be shut down when not in active use; visible emissions from stationary generators will be controlled;
- Dust-control measures will be implemented in road construction and maintenance, as needed. Trucks transporting loose material will be covered or maintain at least two feet of freeboard and will not create any visible dust emissions;
- There will be no open burning of construction trash;
- Grading activities will cease during periods of high winds (as determined by local air quality management districts);
- Major operations will be avoided on days when the local Air Quality Index is expected to exceed 150; and
- On-site vehicle speed shall be limited to 15 miles per hour on unpaved surfaces.

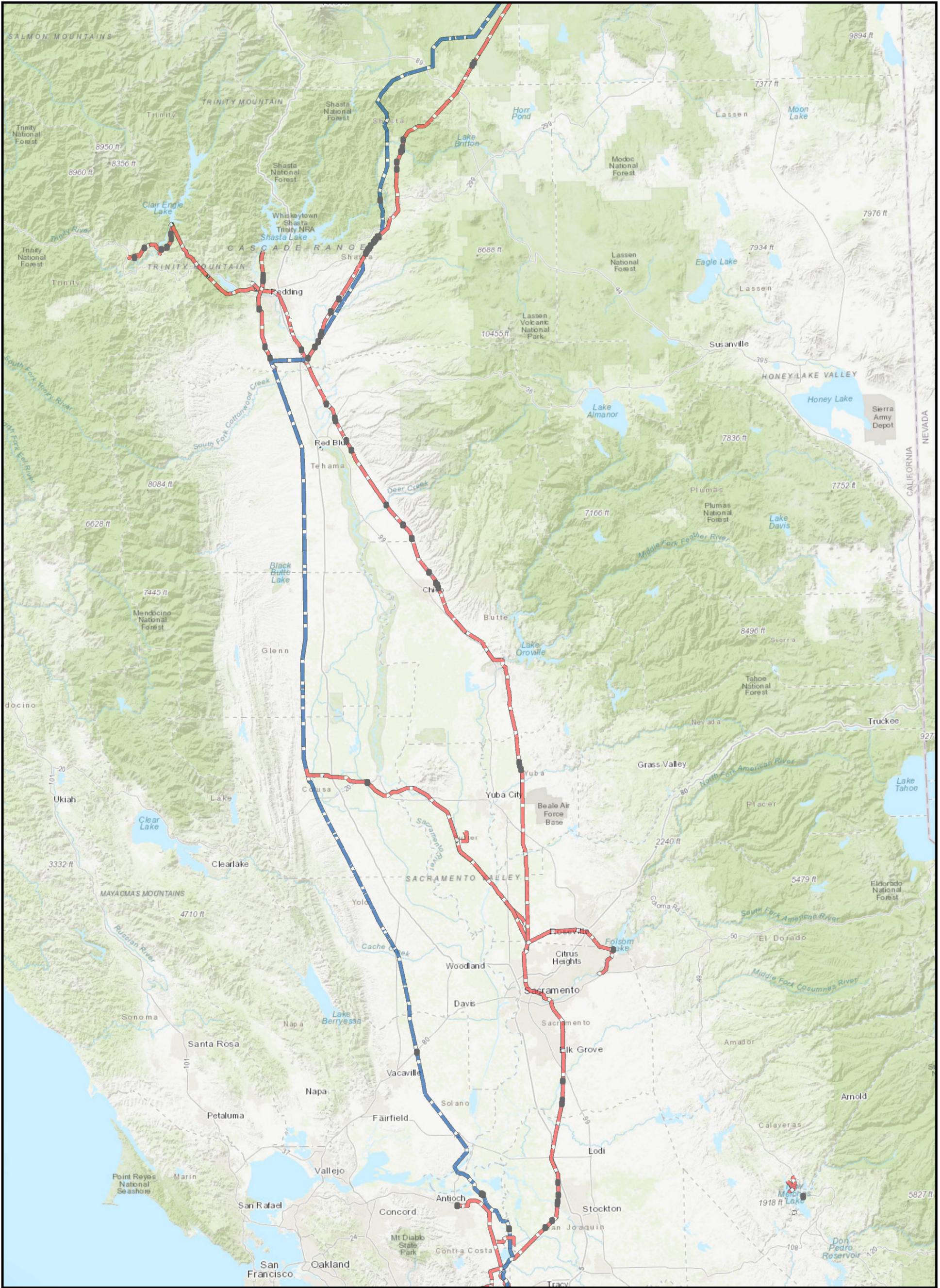
**Compliance Regulatory Requirements:**

- Erosion control measures to be taken to prevent sediment from reaching waterways.
- No violations of applicable statutory, regulatory, or permit requirements for environment, safety, and health, including requirements of DOE and/or Executive Orders will be permitted.
- To avoid adversely affecting environmentally sensitive resources, there will be no uncontrolled or un-permitted releases of hazardous substances, pollutants, contaminants, or petroleum and natural gas products.
- In the event of a hazardous material/waste spill, Environment and the COR will be contacted, WAPA Dispatch notified, and the appropriate Federal, State, and local regulating authority notified depending on the type and size of the spill.
- Ensure proper management and disposal of hazardous materials/waste (i.e., fuel, concrete and pavement-related materials and waste, etc.). All spills of fuel or hydraulic fluid would be immediately cleaned up according to WAPA's guidelines for hazardous material handling.

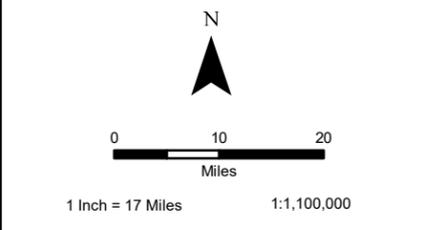
**Noise:**

Project noise-generating activity would occur within the WNRA, in a remote area where noise generating activity (vessels) is common. Noise would be produced primarily by helicopter activity. The proposed helicopter landing pad located near Brandy Creek Beach is adjacent to several recreational sensitive receptors including the Brandy Creek Marina (1,500 feet), Brandy Creek Campground (2,000 feet), and Dry Creek Group Campground (4,000 feet). The nearest other sensitive receptor (school) within the WNRA is more than 6,000 feet from noise-generating activity. The nearest residential sensitive receptor within the Redding vicinity is roughly 14,000 feet from noise generating activity.

The City of Redding noise ordinance threshold during daytime hours is 55 dB (hourly  $L_{eq}$ ). Noise levels of an Erickson S-64 Sky-Crane range from 95-105 dB at 300 feet. Assuming a noise level of 100 dB for six minutes every hour (10% usage factor), the hourly  $L_{eq}$  would be less than 55 dB at the nearest residence (~ 14,000 feet). WNRA vessel operation is restricted to 75 dBA (moving vessels) and 88 dBA (stationary vessels). Due to attenuation, noise levels at sensitive receptors within WNRA would not exceed the stationary vessel 88 dBA threshold. Therefore, Project construction activity, including helicopter operations, would not impact sensitive receptors and would be less than significant.



-  Vegetation Trimming/Removal Location
- Transmission Line**
-  WAPA Transmission Lines
-  TANC Transmission Lines



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 UNITED STATES DEPARTMENT OF ENERGY WESTERN AREA POWER ADMINISTRATION SIERRA NEVADA REGION - FOLSOM, CALIFORNIA	
INTEGRATED VEGETATION MANAGEMENT CALIFORNIA <b>200101-ROW CVP #3 Comprehensive</b>	
Designed: SNR GIS	Approved: _____ Manager Title
	Sept. 25, 2020

**DRAFT**