



Annual Site Environmental Report

CALENDAR YEAR 2025

About This Report

Prepared in compliance with DOE Order 231.1B, the Calendar Year 2025 Annual Site Environmental Report (ASER) summarizes the Western Area Power Administration's (WAPA's) environmental stewardship, regulatory compliance posture, and natural/cultural resource protection activities across its 15-state transmission network and associated facilities.

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Executive Summary

The Calendar Year 2025 Annual Site Environmental Report (ASER) highlights the Western Area Power Administration's (WAPA's) environmental compliance and resource management across its 15-state service territory. WAPA owns and operates over 17,000 circuit-miles of transmission line and 322 substations under the regulatory jurisdiction of six U.S. Environmental Protection Agency (EPA) regions, 15 state agencies, and local counties. In CY 2025, WAPA maintained a strong compliance posture in full alignment with DOE Order 231.1B.

Key Highlights:

- **Environmental Review (under the National Environmental Policy Act [NEPA]):** Completed 70 Categorical Exclusions (CXs), managed nine Environmental Assessments (EAs) completed or in progress, issued two Findings of No Significant Impact (FONSIs), and advanced two Environmental Impact Statements (EISs).
- **Cultural Resources:** Conducted 291 Section 106 consultations under the National Historic Preservation Act with State Historic Preservation Officers and Native American tribes, reporting no major compliance issues.
- **Biological Resources:** Completed 21 Endangered Species Act Section 7 consultations. Continued avian protection efforts agency-wide under its Special Purpose Utility permit and Avian Protection Plan.
- **Spill Prevention & Water Quality:** Maintained 161 active Spill Prevention, Control, and Countermeasure (SPCC) Plans across 13 states. Responded to and fully remediated three minor transformer oil leaks (under five gallons each) in the Sierra Nevada Region.
- **Hazardous Materials & Waste:** Analyzed 37 polychlorinated biphenyls (PCB) samples, identifying elevated levels in six bushing samples at the Sioux City Substation; managed all material appropriately, resulting in zero metric tons of PCB waste generated. Submitted Emergency Planning and Community Right-to-Know Act (EPCRA) Superfund Amendments and Reauthorization Act (SARA) Tier II / Hazardous Materials Business Plan reports for 390 facilities.
- **Air Quality & Permitting:** Tracked greenhouse gas emissions across approximately 2,300 sulfur hexafluoride (SF₆) gas-insulated units and maintained compliance for fuel-dispensing facilities and asbestos handling. Managed 64 active environmental permits spanning air quality, Clean Water Act (CWA) Section 404, National Pollutant Discharge Elimination System (NPDES), storage tanks, and pesticide use.

Introduction

WAPA, established December 21, 1977, under the United States Department of Energy (DOE) Organization Act (Section 302 of Public Law 95-91), markets federal electric power in 15 western States and encompasses a 1.3 million-square-mile geographic area (Figure 1). WAPA operates and maintains an integrated 17,238 circuit-mile, high-voltage transmission system that includes 322 substations and various other power facilities within its service territory.¹ WAPA markets hydroelectric power generated at 57 plants¹ in the western U.S. that are operated by the U.S. Bureau of Reclamation (Reclamation), the U.S. Army Corps of Engineers (USACE), and the U.S. Section of the International Boundary and Water Commission (IBWC).

Annually, WAPA markets and delivers more than 25,000 gigawatt-hours of reliable, cost-based hydropower. WAPA's approximately 700 wholesale power customers,¹ then provide service to more than 40 million Americans. WAPA's customers include rural cooperatives, municipalities, public utility districts, federal and state agencies, irrigation districts, Native American tribes, and project-use customers. Customers are in Arizona, California, Colorado, Iowa, Kansas, Minnesota, Montana, Nebraska, Nevada, New Mexico, North Dakota, South Dakota, Texas, Utah, and Wyoming.

WAPA is managed from its Headquarters in Lakewood, Colorado; four Regional Offices located in Billings, Montana (Upper Great Plains [UGP] Region); Phoenix, Arizona (Desert Southwest [DSW] Region); Loveland, Colorado (Rocky Mountain [RM] Region); Folsom, California (Sierra Nevada [SN] Region); and the Colorado River Storage Project (CRSP) Region in Montrose, Colorado, as shown in Figure 1. Through its power marketing and transmission program, WAPA secures revenues to recover operating, maintenance, and purchase power expenses and to repay the federal investment in generation and transmission facilities.

Due to the broad geographic footprint of its 15-state service territory and the diverse nature of its operations, WAPA's environmental program encompasses a wide range of regulatory requirements. WAPA's facilities and infrastructure fall under the regulatory jurisdiction of multiple authorities, including six EPA regions, 15 state environmental agencies, and numerous local county departments.

WAPA's facilities generate hazardous and non-hazardous waste as part of its regular operations and maintenance of electrical equipment, warehouses, maintenance, and office facilities. WAPA's substations and maintenance facilities house equipment containing dielectric oil, hazardous gases, petroleum, and other pollutants that may affect water, soil, and air resources. WAPA's transmission lines cross a variety of ecosystems such as forests, wetlands, grasslands, and deserts. Maintaining these transmission lines could affect sensitive biological and cultural resources. WAPA's Environmental Policy Statement directs employees to conduct business in an efficient, environmentally sustainable, and economically sound manner, by using effective environmental planning to avoid, minimize, or mitigate environmental impacts. WAPA also

¹ Data from WAPA's FY 2025 Statistical Appendix (<https://www.wapa.gov/wp-content/uploads/2026/06/FY-2025-Statistical-Appendix.pdf>)

provides environmental review for interconnections under its Open Access Transmission System Tariff.

This CY 2025 ASER meets the requirements of DOE Order 231.1B, Environment, Safety, and Health Reporting.

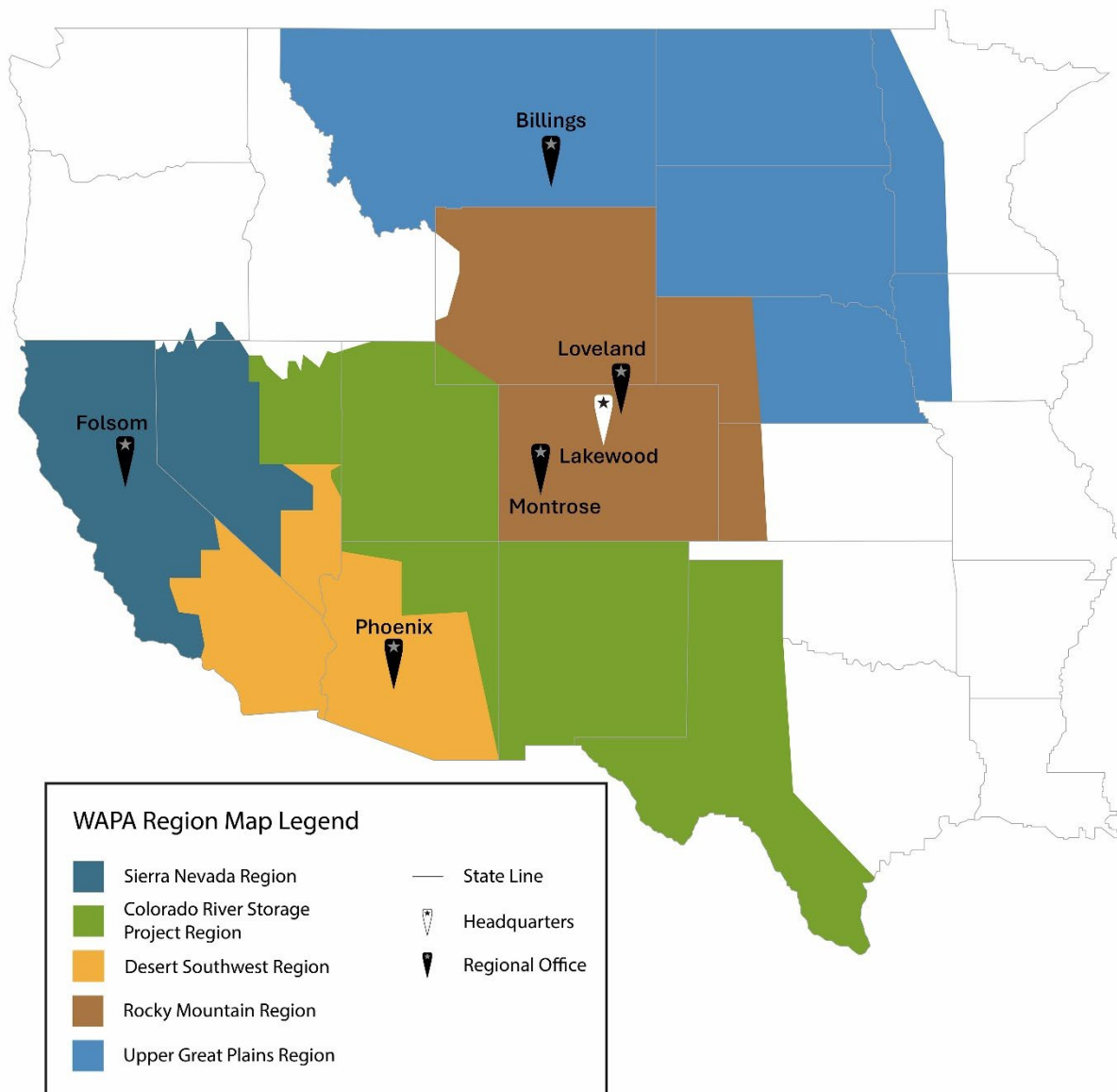


Figure 1. WAPA Service Territories and Regions

Compliance Status

This section provides an overview of WAPA's compliance status for CY 2025.

Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA)

CERCLA, referred to as Superfund, was designed to help ensure cleanup of inactive hazardous waste sites. CERCLA provided authorization for the EPA to respond to and remedy polluted sites.

The Federal Agency Hazardous Waste Compliance Docket (Docket) is a list of facilities under federal control that have the potential for environmental releases that could adversely affect human health or the environment. WAPA has no sites on the Docket.

Superfund Amendments and Reauthorization Act (SARA)

SARA revised and extended CERCLA. The SARA Title III amendments contain requirements for the Emergency Planning and Community Right-to-Know Act (EPCRA). EPCRA encourages and supports emergency planning efforts at the state and local levels. Additionally, it provides public and local governments with information concerning potential chemical hazards present in their communities by requiring facilities to disclose hazardous substances they use or store.

WAPA conducts annual inventories of chemicals at facilities throughout its service area. The information gathered is used to prepare Tier II and/or Tier III reports for state and local emergency response entities in accordance with Sections 311, 312, and 313 of EPCRA. In CY 2025, WAPA submitted Tier II reports for 390 facilities (see Appendix B). Of these facilities, 28 are in California, which uses Hazardous Materials Business Plans (HMBPs) to meet Tier II reporting requirements. WAPA did not prepare any Tier III reports because it did not manufacture, process, or otherwise use threshold quantities of the chemicals identified in that section.

Resource Conservation and Recovery Act (RCRA)

RCRA defines and regulates non-hazardous and hazardous solid waste. Non-hazardous solid waste includes municipal solid waste, industrial non-hazardous waste, and commercial non-hazardous waste. RCRA defines hazardous waste as listed wastes (F, K, P, U codes) or waste that exhibits characteristics of reactivity, ignitability, corrosivity, and/or toxicity. The Hazardous and Solid Waste Amendments (HSWA) regulate hazardous waste operations by establishing standards for the generation, transportation, treatment, storage, or disposal of hazardous waste.

HSWA-based regulations affect WAPA facilities that are classified as very small quantity generators (VSQG), formerly "conditionally exempt small quantity generators," of hazardous waste. HSWA also impacts WAPA operations by prohibiting the land disposal of hazardous waste and by setting standards for used-oil management, underground storage tanks (USTs), and recycling hazardous waste. WAPA has six registration/permit-required USTs located at the following facilities:

- Two USTs at the Watertown Operations and Aux Control Facility located in Watertown, South Dakota.
- Two USTs at the Phoenix Campus Offices located in Phoenix, Arizona; and

- Two USTs at the Loveland Power Marketing and Operations Center (PMOC) located in Loveland, Colorado.

WAPA complies with EPA's UST upgrade and monitoring requirements for the facilities listed above.

In CY 2025, WAPA continued recycling materials from its facilities under the Universal Waste Rule. WAPA increased its recycling of hazardous waste and continues to look for additional opportunities to recycle.

WAPA takes immediate action to clean up spills as required by the Toxic Substances Control Act (TSCA), RCRA, and CWA, and notifies the appropriate state and federal agencies for spills above reportable limits. Small leaks and drips around oil-filled equipment are cleaned up, as needed. Waste generated from spills is either recycled or disposed of in a landfill or in a RCRA-permitted facility.

In CY 2025 there were three transformer oil leaks/releases. Three sites within the SN Region had transformer leaks of less than five gallons each. Although minor and below reportable quantities, WAPA responded with adequate cleanup resources to remove spill-contaminated material. The collected waste was disposed of through the SN Hazardous Waste Disposal contract. In all three cases, no further action was required.

In CY 2021, in an agreement between Arizona Department of Environmental Quality (ADEQ) and WAPA, WAPA agreed to perform work on a Remedial Investigation at the Phoenix Area Operations and Maintenance Complex (PAO), which is located within the West Van Buren Area site. Two quarterly monitoring events for the PAO were performed in July 2022 to fulfill the ADEQ concern. As of the publication of this report, WAPA is still waiting on ADEQ to approve the PAO Remedial Investigation draft report, before Public Review.

Toxic Substances Control Act (TSCA)

TSCA regulations prohibit the manufacture, processing, and distribution of PCBs in commerce, except as exempted by the EPA. The EPA, through the TSCA regulations, regulates the use, marking, and disposal of PCBs. Some states regulate PCB disposal and handling through their state RCRA programs. The TSCA regulations also prescribe requirements for WAPA's radon, lead-based paint, and asbestos concerns.

In CY 2025, WAPA collected and analyzed 37 samples for PCBs. The facilities where WAPA collected samples to test for PCBs and other regulated toxic substances are listed *Table 1*. Of the 37 samples, six bushing samples from the Sioux city substation had PCB levels between 199 parts per million (ppm) and 257 ppm. All other samples were negative.

Low-level PCB-impacted oils are burned for energy recovery at EPA-permitted facilities or are chemically treated and recycled. Oils with higher concentrations of PCBs are disposed of at EPA-permitted incinerators. Impacted equipment components are decontaminated and sold as scrap when possible. Items too heavily impacted for recycling as scrap are disposed of at permitted PCB waste landfills or incinerators. WAPA recorded zero pounds (lbs.) of PCB-impacted waste (equipment, debris, and soil) in CY 2025.

Additionally, WAPA tested for the presence of lead-based paint (LBP) at the Loveland PMOC warehouse within RM. Four samples returned positive results.

Table 1: WAPA CY 2025 Environmental Sampling

Region	Facility	ACM	LBP	PCB
RM	Midway Substation			X
RM	Loveland PMOC Warehouse	X	X	
RM	Montrose Service Center	X	X	X
UGP	Conrad Substation			X
UGP	Crossover Substation			X
UGP	Groton Substation			X
UGP	Sioux City Substation			X
UGP	Sioux Falls Repeater	X		
DSW	PAO Security Trailer	X		

Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA)

FIFRA directs the EPA to register pesticides to ensure that they will not present unreasonable risks to human health or the environment when used according to label instructions. Pesticides include insecticides, antifoulants, fungicides, rodenticides, disinfectants, and plant growth regulators. Depending on pesticide properties and use patterns, pesticides can leach through soil and impact groundwater. The potential for leaching is greatest in areas where the water table is close to the surface and/or soils are highly permeable.

Pesticides are used by WAPA to control plant and animal pests, and for wood preservation. WAPA has two manuals for implementation of FIFRA: the “Integrated Vegetation Management (IVM) Environmental Guidance Manual” and the “Pest Control Manual.” WAPA’s IVM program de-emphasizes the exclusive use of chemical control and promotes the use of biological, cultural, and physical tools to control unwanted vegetation and minimize economic, health, and environmental risks.

Federal Facilities Compliance Act (FFCA)

The FFCA authorizes the EPA administrator to commence administrative enforcement actions against any department, agency, or instrumentality of the executive, legislative, or judicial branch of the federal government that is in violation of requirements under RCRA. The FFCA also allows states to assess fines against federal facilities for RCRA violations. No FFCA actions were undertaken against WAPA in CY 2025.

National Environmental Policy Act (NEPA)

NEPA requires federal agencies to integrate consideration of environmental values planning and decision-making. The NEPA process is intended to inform the public and decision-makers about the potential impacts on the human environment of proposed actions and alternatives and ultimately foster better decisions. NEPA documentation includes Categorical Exclusions (CXs), Environmental Assessments (EAs), Finding of No Significant Impacts (FONSI), Environmental Impact Statements (EISs), Records of Decision (RODs), and supplement analyses. WAPA reports its NEPA activities annually to DOE in January. A summary of WAPA's NEPA actions between CY 2021 and CY 2025 is as follows:

Table 2: Summary of NEPA Actions (CY 2020 – CY 2024)

NEPA Action	CY25	CY24	CY23	CY22	CY21
CXs completed	70	97	69	107	122
EAs completed/in progress	9	14	23	18	14
FONSIs issued	2	2	2	4	6
EISs completed/in progress	2	2	2	3	4
RODs issued	0	0	0	1	3
Supplement Analyses completed	0	1	0	0	0

Clean Air Act (CAA)

The CAA was promulgated “to protect and enhance the quality of the Nation’s air resources so as to promote public health and welfare and the productive capacity of its population.” The EPA is required to set National Ambient Air Quality Standards (NAAQS) that define clean air levels. The EPA set NAAQS for six “criteria” pollutants: carbon monoxide, lead, ozone, nitrogen oxides, sulfur dioxide, and particulate matter. The EPA also established New Source Performance Standards, National Emission Standards for Hazardous Air Pollutants (NESHAPs), and standards for mobile sources. NESHAPs have been established for beryllium, mercury, vinyl chloride, benzene, arsenic, asbestos, radon, and other radionuclides. Air quality standards are achieved by the states through State Implementation Plans (SIPs). The SIPs establish emission limits and compliance schedules for pollution sources.

Several potential sources of air emissions that are regulated under the CAA exist at WAPA facilities. These emissions include dust during construction activities, friable asbestos during building renovation or demolition, and volatile organic compounds (VOCs) from gasoline-dispensing facilities. WAPA has taken steps to reduce emissions of greenhouse gases (GHGs) from its facilities and operations by including the phase-out of ozone-depleting substances and reducing vehicle emissions via alternative fuels.

Asbestos

In CY 2025, WAPA sampled asbestos-containing material (ACM) in three regions: DSW, RM and UGP. DSW conducted asbestos surveys in the PAO Security Trailer which found no ACM. UGP performed surveys for ACM at the Sioux Falls Repeater Site which also found no ACM. RM performed surveys at Gerring Field office which were negative. Loveland PMOC and Montrose were found positive for asbestos, lead and PCBs in isolated locations. Sampling sites for ACM are shown in table 1.

Volatile Organic Compounds (VOCs)

WAPA has fuel-dispensing facilities at multiple locations throughout its service territory that may require state permits. These facilities are inspected annually to ensure tank integrity and prevent the release of VOCs. The permitting program and annual inspections are intended to minimize VOC releases.

Greenhouse Gases (GHGs)

The phase-out of ozone-depleting substances affects WAPA's operations associated with refrigeration and air conditioning, solvent use, and fire protection. As equipment is replaced, ozone-depleting substances are recovered from air conditioning, refrigeration systems, and fire suppression systems before final disposal or dismantling. Headquarters and most of the regional offices have phased out nearly all halon-containing fire extinguishing equipment. One facility in the Watertown Operations Center, South Dakota, contains a halon-based fire suppression system.

WAPA currently has approximately 2,300 sulfur hexafluoride (SF₆) gas-insulated pieces of equipment located within its footprint. In CY 2025, WAPA continued evaluating equipment to locate leaks and either immediately repair them, or schedule repairs or replacement. Processes have been developed to track the amount of released SF₆ gas to the atmosphere from WAPA's equipment.

WAPA prepares an annual SF₆ emissions report that is submitted electronically to the EPA. The EPA delayed the reporting deadline for the 2025 reporting year under the Greenhouse Gas Reporting Program (GHGRP) from March 31, 2026, to October 30, 2026. This extension applies to Subpart DD (Electric Transmission and Distribution Equipment) and is tied to a proposal to rescind most federal GHGRP categories.

Clean Water Act (CWA)

The CWA regulates the discharge of pollutants into Waters of the United States (WOTUS) from any point source, including industrial facilities and sewage treatment facilities. The CWA also regulates stormwater runoff from certain industrial sources, requires reporting and cleanup of oil and hazardous substance spills to WOTUS, requires a permit to adversely affect wetlands, and requires spill prevention plans for sites that store oil and other petroleum products above statutory thresholds that could potentially impact a WOTUS if a spill occurred. The EPA established a requirement to have a National Pollutant Discharge Elimination System (NPDES) permit for the discharge of stormwater from facilities with point sources. Stormwater Pollution Prevention Plans or Stormwater Management Plans are prepared as part of the NPDES permit for maintenance and construction activities that disturb more than one acre of land.

WAPA continues to evaluate facilities to meet SPCC Plan applicability and requirements under the CWA. SPCC Plans are developed for all applicable new facilities and updated every five years for existing applicable facilities or within six months of any facility changes that would affect the potential to release oil to WOTUS. In CY 2025, WAPA had 161 SPCC Plans in 13 states (see Appendix A). WAPA periodically reviews SPCC Plans and updates them to reflect new site-specific information, construction or other modifications to the sites, or revise inventories of oil-filled equipment.

Endangered Species Act (ESA)

The ESA was established to protect aquatic animals, land animals, and plant species that are likely to become endangered in the foreseeable future (Threatened) or are in danger of extinction (Endangered). Federal agencies are required to ensure that any of their associated actions do not jeopardize the continued existence of Threatened and Endangered species nor result in the destruction or adverse modification of designated critical habitat. Section 7 of the ESA requires federal agencies to determine if their actions may affect listed species or critical habitat. If an action may affect a listed species or critical habitat, the agency must consult with the U.S. Fish and Wildlife Service (FWS) or the National Marine Fisheries Service, whichever is appropriate. In CY 2025, WAPA worked on or completed 21 Section 7 consultations under the ESA, all resolved through informal concurrences or under existing frameworks without requiring new Biological Opinions (BOs). WAPA currently has seven Programmatic BOs (PBOs) in place to streamline ongoing compliance.

Migratory Bird Treaty Act (MBTA)

The MBTA prohibits the taking, possessing, or transporting of any migratory bird, nest, egg, or part of a migratory bird without a permit. The protected list of migratory birds includes 1,093 species (as of March 2020) and appears in Section 10.13 of Title 50 in the Code of Federal Regulations (C.F.R.).

In May 2016, WAPA finalized its Avian Protection Plan, which provides a mechanism for tracking bird loss, defining troubled equipment, implementing corrective actions, and voluntarily performing actions benefiting bird populations in general. WAPA received a Special Purpose Utility (SPUT) permit from the U.S. Fish and Wildlife Service (USFWS) that covers the entire agency. In addition to a federal SPUT permit, WAPA has also applied for and received several companion state permits (e.g., from Montana and South Dakota).

WAPA still follows the guidelines and best management practices regarding the responsibilities of federal agencies to protect migratory birds set forth in the five-year memorandum of understanding between DOE and USFWS on the implementation of Executive Order (EO) 13186 from 2013, which has expired and has not yet been renewed. WAPA continues to survey active bird nests prior to work and implements appropriate buffer distances, as necessary.

WAPA completes annual reporting of known bird injuries/mortalities in the USFWS's Injury and Mortality Reporting System. In CY 2025, DSW removed a golden eagle nest under its permit with the FWS. UGP reported two incidences of avian mortality. WAPA continues to install bird deterrents to limit bird-caused outages and protect avian species.

National Historic Preservation Act (NHPA), Section 106

All federal agencies are responsible under the NHPA of 1966, as amended, to consider the effects of their undertakings on historic properties (as defined at 36 C.F.R. Part 800.16(y)) during agency

project planning. Cultural resources include, but are not limited to buildings, sites, structures, or objects, such as prehistoric and historic archaeological materials and sites located on or below the ground surface; historic buildings or structures; cultural and natural places; landscapes; and sacred objects important to a group or groups of Native Americans.

A compliance process for Section 106 was established by the Advisory Council on Historic Preservation (ACHP; 36 C.F.R. Part 800), with most of the consultation process delegated to the State Historic Preservation Officers (SHPOs). Section 106 of the NHPA requires that an agency consider the effects of its actions on significant cultural resources (historic properties); makes a reasonable and good faith effort to identify historic properties; consult with potentially affected Native American tribes or other parties; make findings of effect; and avoid, minimize, or resolve any adverse effects their actions may have on historic properties.

WAPA complies with Section 106 by performing cultural and historical resource inventories for all undertakings where no previous survey has occurred, to include undertakings such as land transfers, disposals, demolitions, construction, maintenance, vegetation removal, and interconnection projects. These inventories include record searches for previously identified resources, Native American consultation, and where necessary, on-site surveys.

In CY 2025, WAPA had several undertakings that resulted in 291 case-by-case Section 106 consultations and coordination with numerous tribes. Consultations vary in complexity and level of consultation, some resulting in virtual or face-to-face meetings, numerous letters, phone calls, emails, etc., and involve a few to numerous consulting parties. For WAPA's regions that have Programmatic Agreements (PA) that consider operation and maintenance activities, consultations are carried out annually as required, except under certain circumstances where case-by-case, project-specific consultation is required. Typically, these would be projects that have the potential to adversely affect historic properties.

In maintenance work areas where significant cultural resources are identified, WAPA's regional archaeologist, or archaeological contractor, monitors work to ensure that historic properties are not adversely affected. Depending on the property type and interest, WAPA has employed Native American monitors as well. When an adverse effect cannot be avoided, WAPA either develops a memorandum of agreement (MOA) or a Historic Property Treatment Plan (HPTP) if specified in the appropriate PA. MOAs and HPTPs are developed in consultation with ACHP, SHPOs, Native American tribes, and interested parties to resolve the adverse effects.

In Arizona, California, Colorado, Nebraska, Nevada, New Mexico, Montana, Utah, and Wyoming, WAPA and the respective SHPOs have agreed on Section 106 measures for program-specific routine maintenance and vegetation removal activities through PAs. These PAs streamline the consultation process for certain projects that are not likely to adversely affect historic properties, but some PAs also allow for the development of HPTPs for undertakings that may cause adverse effects to historic properties. On large-scale, non-maintenance related projects, WAPA, SHPOs, ACHP, Native American tribes, and other interested parties enter project-specific PAs that stipulate the processes to follow during the undertaking for compliance with Section 106, other federal cultural resources laws, and federal and state burial laws. WAPA reported no major issues in CY 2025.

Executive Order 11988, “Floodplain Management” and Executive Order 11990, “Protection of Wetlands”

Under DOE’s Floodplain and Wetland Regulations (10 C.F.R. Part 1022 *et. seq.*), EO 11988 and EO 11990, WAPA evaluates the impact of its actions on floodplains and wetlands. These evaluations can be performed in conjunction with the NEPA impact analysis for projects. In CY 2025, WAPA did not conduct any floodplain or wetland evaluations outside of the NEPA review process.

Existing Permits

WAPA is required to obtain a variety of permits, including those for aboveground storage tanks and USTs, PCB transportation and storage, hazardous waste storage, gasoline dispensing, and National Pollutant Discharge Elimination System (NPDES) permits for point source and stormwater discharge. A full list of WAPA’s permits is listed in Appendix A of this document. The table below summarizes WAPA permits by type and number from CY 2023 – CY 2025.

Table 3: Number of Permits by Type (CY 2023 – CY 2025)

Type of Permit	CY25	CY24	CY23
404 Permit (Clean Water Act)	2	2	2
Air Quality	14	14	13
Bald and Golden Eagle Protection Act (BGEPA)	1	0	0
ESA	1	0	0
FIFRA	1	1	1
Hazardous Materials / Hazardous Waste	36	36	36
NPDES Permits (Clean Water Act)	1	1	1
Underground Storage Tanks	6	6	5
Water Quality	2	3	1
Total	64	63	59

Waste Minimization, Pollution Prevention, and Affirmative Procurement

PCB Waste

Since its creation in 1977, WAPA has continued to reduce the use of PCB's and minimized PCB waste generation by refilling equipment and reusing oil. Although WAPA has not eliminated PCBs, it continues to complete PCB removal as opportunities are found and budget considerations permit. In CY 2025, WAPA had no PCB-contaminated waste.

PFAS and Additional Emerging Contaminants

Federal and state regulatory agencies continue to develop regulatory approaches for PFAS and emerging contaminants, such as perfluorooctane sulfonate (PFOS), and perfluorooctanoic acid (PFOA), perchlorates, 1,4-dioxane, and other persistent contaminants that may be present at DOE sites. In CY 2025, WAPA did not report sites impacted by PFAS, PFOS or emerging contaminants.

Abbreviations

ACM	Asbestos containing material
ADEQ	Arizona Department of Environmental Quality
APP	Avian Protection Plan
ASER	Annual Site Environmental Report
AST	Aboveground storage tank
BO	Biological Opinion
BGEPA	Bald and Golden Eagle Protection Act
C&D	Construction and Demolition
CAA	Clean Air Act
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
CEQ	Council on Environmental Quality
C.F.R.	Code of Federal Regulations
CO ₂ e	Carbon dioxide equivalent
CRSP	Colorado River Storage Project
CWA	Clean Water Act
CX	Categorical Exclusion
CY	Calendar Year
Docket	Federal Agency Hazardous Waste Compliance Docket
DSW	Desert Southwest Region
EA	Environmental Assessment
EIS	Environmental Impact Statement
EMS	Environmental Management System
EO	Executive Order

EPCRA	Emergency Planning and Community Right-to-Know Act
ESA	Endangered Species Act
FFCA	Federal Facilities Compliance Act
FIFRA	Federal Insecticide, Fungicide, and Rodenticide Act
FONSI	Finding of No Significant Impact
USFWS	United States Fish and Wildlife Service
FY	Fiscal Year
HMBP	Hazardous Materials Business Plan
HSWA	Hazardous and Solid Waste Amendments
ISO	International Organization for Standardization
IVM	Integrated Vegetation Management
kV	Kilovolt
kWh	Kilowatt-hours
lb.	Pound
LCD	Liquid crystal display
m3	Cubic meter
MBTA	Migratory Bird Treaty Act
MFD	Multi-function devices
MOU	Memorandum of Understanding
MW	Monitoring well
NAAQS	National Ambient Air Quality Standards
NEPA	National Environmental Policy Act
NESHAP	National Emission Standards for Hazardous Air Pollutants
NHPA	National Historic Preservation Act
NPDES	National Pollutant Discharge Elimination System

NSPS	New Source Performance Standards
NWP	Nationwide Permit
PA	Programmatic Agreement
PBO	Programmatic Biological Opinion
PC	Personal Computer
PCB	Polychlorinated biphenyl
PDA	Personal digital assistant
RCRA	Resource Conservation and Recovery Act
Reclamation	United States Bureau of Reclamation
RM	Rocky Mountain Region
ROD	Record of Decision
SARA	Superfund Amendments and Reauthorization Act
SF6	Sulfur hexafluoride
SHPO	State Historic Preservation Officer
SIP	State Implementation Plan
SN	Sierra Nevada Region
SPCC Plans	Spill Prevention, Control, and Countermeasure Plans
SPUT	Special Purpose Utility
SWMP	Stormwater Management Plan
SWPPP	Stormwater Pollution Prevention Plan
T&E	Threatened and Endangered
TSCA	Toxic Substances Control Act
TV	Television
DOE	United States Department of Energy
EPA	United States Environmental Protection Agency

UGP	Upper Great Plains Region
USACE	United States Army Corps of Engineers
UST	Underground storage tank
VOC	Volatile organic compound
VSQG	Very small quantity generator
WAPA	Western Area Power Administration
WOTUS	Water(s) of the United States
WVBA	West Van Buren Area

Appendix A: WAPA Permits

PERMIT TYPE	PERMIT NAME	ISSUING AGENCY	REGION
404 Permit (CWA)	Section 404 Permit (under NWP 14, non-notifying) – Whiskeytown Road Repairs	USACE, Sacramento District	SN
404 Permit (CWA)	Section 404 Permit (under NWP 13, Bank Stabilization) 2020-01503-WEH Grande Prairie-Grand Island 345-kV Transmission Line	USACE, Omaha District	UGP
Air Quality	Air Quality Permit – Phoenix	Maricopa County, Arizona	DSW
Air Quality	Air Quality Permit to Operate - Emergency Generator/Natural Gas Pressure Washer	Maricopa County, Arizona	DSW
Air Quality	Dust Control Block Permit – Maricopa County	Maricopa County, Arizona	DSW
Air Quality	Dust Control Block Permit – West Pinal	Pinal County, Arizona	DSW
Air Quality	Fugitive Dust Activity Permit – Pima County	Pima County, Arizona	DSW
Air Quality	Air Quality Permit – Elverta Maintenance Facility Emergency Generator	Sacramento Metropolitan Air Quality Management District, California	SN
Air Quality	Air Quality Permit - Elverta Microwave Facility Emergency Generator	Sacramento Metropolitan Air Quality Management District, California	SN
Air Quality	Air Quality Permit – Sacramento Power Operations Emergency Generator	Sacramento Metropolitan Air Quality Management District, California	SN
Air Quality	Air Quality Permit - Maxwell Substation Emergency Generator	Colusa County Air Pollution Control District	SN
Air Quality	Air Quality Permit – O’Banion Substation Emergency Generator	Feather River Air Quality Management District, California	SN

PERMIT TYPE	PERMIT NAME	ISSUING AGENCY	REGION
Air Quality	Facility Permit – Elverta Maintenance Facility (Fuel Dispensing)	Sacramento Metropolitan Air Quality Management District	SN
Air Quality	Air Quality Permit - Redding Maintenance Facility Emergency Generator	Shasta County Air Quality Management District	SN
Air Quality	Air Quality Permit - Redding Maintenance Facility (Fuel Dispensing)	Shasta County Air Quality Management District	SN
ESA	Informal Consultation on the Path 15 Transmission Line 2024 Access Road Repairs Project, Fresno County, California (2025-0009643-S7-001)	FWS	SN
FIFRA	San Bernardino Pesticide Permit	San Bernardino County	DSW
Hazardous Materials / Hazardous Waste	Amargosa Substation Waste Management Permit	Southern Nevada Health District	DSW
Hazardous Materials / Hazardous Waste	Amargosa Substation Hazardous Materials Storage Permit	Nevada State Fire Marshall	DSW
Hazardous Materials / Hazardous Waste	Henderson Substation Hazardous Materials Storage Permit	Nevada State Fire Marshall	DSW
Hazardous Materials / Hazardous Waste	Mead Substation Hazardous Materials Storage Permit	Nevada State Fire Marshall	DSW
Hazardous Materials / Hazardous Waste	Mead Substation Waste Management Permit	Southern Nevada Health District	DSW
Hazardous Materials / Hazardous Waste	Hazardous Materials Business Plans (separate permits for 31 facilities)	Various California Counties, California Certified Unified Program Agency	Various

PERMIT TYPE	PERMIT NAME	ISSUING AGENCY	REGION
MBTA	Special Purpose Utility Permit	FWS	WAPA-wide (HQ)
NPDES (CWA)	Mead Substation Annual General Water Permit	Nevada Division of Environmental Protection: Bureau of Water Pollution Control	DSW
UST	Underground Storage Tank (x2)	ADEQ	DSW
UST	Diesel Tank for Backup Generator	Colorado Department of Labor and Employment: Division of Oil and Public Safety	RM
UST	Diesel Tank for Backup Generator	Loveland Fire Rescue Authority	RM
UST	Notification for UST - Watertown Alternate Operations Center	South Dakota Department of Environment and Natural Resources: Ground Water Quality Program: Storage Tanks Section	UGP
UST	Notification for UST - Watertown Main Operations Center	South Dakota Department of Environment and Natural Resources: Ground Water Quality Program: Storage Tanks Section	UGP
Water	NWP Authorization and Section 10 Rivers and Harbors Act compliance	USACE, Sacramento District	SN
Water	Minor Deviation to 401 Water Quality Certification for Beale AFB Interconnection	Central Valley Regional Water Quality Control Board	SN
Water	Section 401 Water Quality Cert – Whiskeytown Road Repairs	Central Valley Regional Water Quality Control Board	SN
BGEPA	Eagle Nest Take - Specific Permit	FWS	DSW

Appendix B: WAPA SARA Tier II HMBP

Facility Name	State	County	CY 2025 Tier II/HMBP
Coolidge Substation	AZ	Pinal	Tier II
Davis Dam Substation	AZ	Mohave	Tier II
ED-2 Substation	AZ	Pinal	Tier II
Gila Substation	AZ	Yuma	Tier II
Glen Canyon Substation	AZ	Coconino	Tier II
Griffith Substation	AZ	Mohave	Tier II
Harcuvar Substation	AZ	La Paz	Tier II
Headgate Rock Substation	AZ	La Paz	Tier II
Kayenta Substation	AZ	Navajo	Tier II
Liberty Substation	AZ	Maricopa	Tier II
Lone Butte Substation	AZ	Maricopa	Tier II
McConnico Substation	AZ	Mohave	Tier II
Nogales Substation	AZ	Pima	Tier II
North Havasu Substation	AZ	Mohave	Tier II
Oracle Substation	AZ	Pinal	Tier II
Peacock Substation	AZ	Mohave	Tier II
Phoenix Operations and Maintenance Facility	AZ	Maricopa	Tier II
Pinnacle Peak Substation	AZ	Maricopa	Tier II
Prescott Substation	AZ	Yavapai	Tier II
Rattlesnake Substation	AZ	Pima	Tier II
Signal Substation	AZ	Pinal	Tier II

Facility Name	State	County	CY 2025 Tier II/HMBP
Sonora Substation	AZ	Yuma	Tier II
Sundance Substation	AZ	Pinal	Tier II
Test Track Substation	AZ	Pinal	Tier II
Topock Substation	AZ	Mohave	Tier II
Tucson Substation	AZ	Pima	Tier II
Welton-Mohawk	AZ	Yuma	Tier II
Blythe Substation	CA	Riverside	Tier II
Buck Boulevard Substation	CA	Riverside	Tier II
Knob Substation	CA	Imperial	Tier II
Parker Dam 69-kV Switchyard; 161-kV Switchyard (upper and lower); 230-kV Switchyard	CA	San Bernardino	Tier II
Amargosa Substation	NV	Clark	Tier II
Henderson Switchyard	NV	Clark	Tier II
Mead Substation	NV	Clark	Tier II
Akron Tap	CO	Washington	Tier II
Akron Hill Comm Site	CO	Washington	Tier II
Animas River Substation	CO	La Plata	Tier II
Ault Substation	CO	Weld	Tier II
Ault Communication Site	CO	Weld	Tier II
Bald Mountain Microwave Communication Site	CO	Larimer	Tier II
Bears Ears Substation	CO	Moffat	Tier II
Beaver Creek Substation and Brush Service Center	CO	Morgan	Tier II
Big Mesa Comm Site	CO	Gunnison	Tier II

Facility Name	State	County	CY 2025 Tier II/HMBP
Blue Mesa Switchyard	CO	Gunnison	Tier II
Blue Ridge Comm Site	CO	Grand	Tier II
Brighton Tap	CO	Weld	Tier II
Brush Substation	CO	Morgan	Tier II
Buffalo Pass Communication Site	CO	Routt	Tier II
Canon West Substation	CO	Fremont	Tier II
Cathedral Bluff Communication Site	CO	Rio Blanco	Tier II
Cedar Mountain Communication Site	CO	Moffat	Tier II
Curecanti Substation	CO	Montrose	Tier II
Deer Peak Comm Site	CO	Custer	Tier II
Derby Hill Tap	CO	Larimer	Tier II
Dove Creek Pumping Plant	CO	Dolores	Tier II
Estes Switchyard	CO	Larimer	Tier II
Flatiron Switchyard	CO	Larimer	Tier II
Fleming Tap	CO	Logan	Tier II
Fort Morgan West Substation	CO	Morgan	Tier II
Frenchman Creek Substation	CO	Phillips	Tier II
Granby Substation	CO	Grand	Tier II
Granby Pumping Plant Switchyard	CO	Grand	Tier II
Great Cut Pumping Plant	CO	Montezuma	Tier II
Gunnison Substation	CO	Gunnison	Tier II
Haxtun Substation	CO	Phillips	Tier II
Hayden Substation	CO	Routt	Tier II

Facility Name	State	County	CY 2025 Tier II/HMBP
Hayden Substation Communication Site	CO	Routt	Tier II
Holyoke Substation	CO	Phillips	Tier II
Hoyt Substation	CO	Morgan	Tier II
Hygiene Substation	CO	Boulder	Tier II
Island Lake Comm Site	CO	Mesa	Tier II
Julesburg Substation	CO	Sedgwick	Tier II
Kersey West Substation	CO	Weld	Tier II
Kiowa Creek Switchyard	CO	Morgan	Tier II
Kremmling Substation	CO	Grand	Tier II
Lands End Communication Site	CO	Mesa	Tier II
Limon Radio Site	CO	Washington	Tier II
Loveland PMOC Service Center	CO	Larimer	Tier II
Lower Molina Communication Site	CO	Mesa	Tier II
Magnetic Mountain Comm Site	CO	Rio Blanco	Tier II
Mary's Lake Metering Station	CO	Larimer	Tier II
Methodist Mountain Comm Site	CO	Saguache	Tier II
Midway Substation	CO	El Paso	Tier II
Monarch Comm Site	CO	Chaffee	Tier II
Montrose Power Operations Center	CO	Montrose	Tier II
Mt Elbert Substation	CO	Lake	Tier II
North Gunnison Substation	CO	Gunnison	Tier II
Nunn Substation	CO	Weld	Tier II
Oak Creek Tap	CO	Routt	Tier II

Facility Name	State	County	CY 2025 Tier II/HMBP
Otis Radio Site / VHF	CO	Washington	Tier II
Peetz Table Comm Site	CO	Logan	Tier II
Pleasant View Pumping Plant	CO	Montezuma	Tier II
Poncha Switchyard	CO	Chaffee	Tier II
Poudre Substation	CO	Larimer	Tier II
Prospect Valley Tap	CO	Weld	Tier II
Raspberry Creek Comm Site	CO	Montrose	Tier II
Rifle Microwave Comm Site	CO	Garfield	Tier II
Sheep's Knob Communication Site	CO	Montrose	Tier II
Sterling Substation	CO	Logan	Tier II
Sunlight Peak Comm Site	CO	Garfield	Tier II
Table Mountain Comm Site	CO	Grand	Tier II
Towaoc Powerplant	CO	Montezuma	Tier II
Wauneta Substation	CO	Yuma	Tier II
Weld Substation	CO	Weld	Tier II
Weldona Microwave Comm Site	CO	Morgan	Tier II
Wiggins Substation	CO	Morgan	Tier II
Willow Creek Switchyard	CO	Grand	Tier II
Woodrow Substation	CO	Washington	Tier II
Wray Substation	CO	Yuma	Tier II
Yellowtail Substation	MT	Big Horn	Tier II
Alliance Tap	NE	Box Butte	Tier II
Bridgeport Substation	NE	Morrill	Tier II

Facility Name	State	County	CY 2025 Tier II/HMBP
Carter Canyon Communication Site	NE	Scotts Bluff	Tier II
Chadron Substation	NE	Dawes	Tier II
Chadron Hill Communication Site	NE	Dawes	Tier II
Chappell Tap	NE	Deuel	Tier II
Gering Substation and Field Office	NE	Scotts Bluff	Tier II
Kimball Substation	NE	Kimball	Tier II
Morrill County Comm Site	NE	Morrill	Tier II
Ogallala Substation	NE	Keith	Tier II
Saint Mary's Church Communication Site	NE	Box Butte	Tier II
Sidney Substation	NE	Cheyenne	Tier II
Stegall Substation	NE	Scotts Bluff	Tier II
Virginia Smith Converter Station	NE	Cheyenne	Tier II
Shiprock Substation	NM	San Juan	Tier II
Waterflow Substation	NM	San Juan	Tier II
Cliff Ridge Communication Site	UT	Uintah	Tier II
Flaming Gorge Communication Site	UT	Daggett	Tier II
Flaming Gorge Switchyard	UT	Daggett	Tier II
Grizzly Ridge Communication Site	UT	Uintah	Tier II
Tyzack Substation	UT	Uintah	Tier II
Vernal Comm Site	UT	Uintah	Tier II
Vernal Substation	UT	Uintah	Tier II
Alcova Switchyard	WY	Natrona	Tier II
Archer Substation	WY	Laramie	Tier II

Facility Name	State	County	CY 2025 Tier II/HMBP
Badwater Substation	WY	Fremont	Tier II
Basin Tap	WY	Big Horn	Tier II
Big George Substation	WY	Park	Tier II
Boysen Switchyard	WY	Fremont	Tier II
Boysen Peak Communication Site	WY	Fremont	Tier II
Bucknum Tap Substation	WY	Natrona	Tier II
Buffalo Bill Switchyard	WY	Park	Tier II
Buffalo Head Switchyard	WY	Natrona	Tier II
Casper Substation	WY	Natrona	Tier II
Casper Service Center	WY	Natrona	Tier II
Casper Mountain Communication Site	WY	Natrona	Tier II
Cheyenne Substation	WY	Laramie	Tier II
Copper Mountain Substation	WY	Fremont	Tier II
Fontenelle Camp Communication Site	WY	Lincoln	Tier II
Fontenelle Switchyard Communication Site	WY	Lincoln	Tier II
Garland Tap	WY	Park	Tier II
Glendale Substation	WY	Park	Tier II
Glendo Switchyard	WY	Platte	Tier II
Goshen Substation	WY	Goshen	Tier II
Green River Communication Site	WY	Sweetwater	Tier II
Guernsey Rural Substation	WY	Platte	Tier II
Heart Mountain Switchyard	WY	Park	Tier II
Horse Heaven Communication Site	WY	Natrona	Tier II

Facility Name	State	County	CY 2025 Tier II/HMBP
Laramie Substation	WY	Albany	Tier II
Limestone Substation	WY	Platte	Tier II
Lingle Substation	WY	Goshen	Tier II
Little Sheep Mountain Communication Site	WY	Big Horn	Tier II
Lovell Substation	WY	Big Horn	Tier II
Lusk Rural Substation	WY	Niobrara	Tier II
Lusk Town Substation	WY	Niobrara	Tier II
Lyman Substation	WY	Goshen	Tier II
Medicine Bow Substation	WY	Carbon	Tier II
Meeteetse Substation	WY	Park	Tier II
Miracle Mile Substation	WY	Carbon	Tier II
Muddy Ridge Substation	WY	Fremont	Tier II
North Cody Substation	WY	Park	Tier II
Pilot Butte Switchyard	WY	Fremont	Tier II
Pine Bluffs Substation	WY	Laramie	Tier II
Pine Ridge Comm Site	WY	Platte	Tier II
Raderville Substation	WY	Natrona	Tier II
Ralston Substation	WY	Park	Tier II
Round Top Communication Site	WY	Laramie	Tier II
Seminole Mountain Communication Site	WY	Carbon	Tier II
Sherman Hill Communication Site	WY	Albany	Tier II
Snowy Range Substation	WY	Laramie	Tier II
Spence Substation	WY	Natrona	Tier II

Facility Name	State	County	CY 2025 Tier II/HMBP
Terry Ranch Road Switchyard	WY	Laramie	Tier II
Thermopolis Substation	WY	Hot Springs	Tier II
Torrington Substation	WY	Goshen	Tier II
Warren Substation	WY	Laramie	Tier II
Whiterock Substation	WY	Platte	Tier II
Airport Substation	CA	Shasta	HMBP
Carr Substation	CA	Shasta	HMBP
Coleman Substation	CA	Shasta	HMBP
Corning Substation	CA	Tehama	HMBP
Coyote Substation	CA	Santa Clara	HMBP
Elverta Substation and Maintenance Facility	CA	Sacramento	HMBP
Folsom Substation	CA	Sacramento	HMBP
Keswick Substation	CA	Shasta	HMBP
Lawrence Livermore Substation	CA	Alameda	HMBP
Manzanita Lake Microwave Facility	CA	Shasta	HMBP
Maxwell Substation	CA	Colusa	HMBP
New Melones Substation	CA	Calaveras	HMBP
O'Banion Substation	CA	Sutter	HMBP
O'Neill Substation	CA	Merced	HMBP
Olinda Substation	CA	Shasta	HMBP
Pacheco Substation	CA	Merced	HMBP
Pleasant Valley Substation and Pumping Plant	CA	Fresno	HMBP
Redding Maintenance Facility	CA	Shasta	HMBP

Facility Name	State	County	CY 2025 Tier II/HMBP
Roseville Substation	CA	Placer	HMBP
Sacramento Power Operations Facility/Substation	CA	Sacramento	HMBP
Shasta Substation	CA	Shasta	HMBP
Sites Microwave Facility	CA	Colusa	HMBP
Southfork Microwave Facility	CA	Shasta	HMBP
Tracy Substation and Maintenance Facility	CA	Alameda	HMBP
Timber Mountain	CA	Modoc	HMBP
Trinity Substation	CA	Trinity	HMBP
Weaverville Substation	CA	Shasta	HMBP
Whiskeytown Substation	CA	Shasta	HMBP
Appledorn Substation	MN	Lac qui Parle	Tier II
Armour Substation	SD	Charles-Mix	Tier II
Aurora Switching Station	SD	Brookings	Tier II
Battle Mountain Repeater	SD	Fall River	Tier II
Belfield Substation	ND	Stark	Tier II
Beresford Substation	SD	Union	Tier II
Bisbee Substation	ND	Towner	Tier II
Bismarck Repeater	ND	Burleigh	Tier II
Bismarck Substation	ND	Burleigh	Tier II
Bismarck Warehouse	ND	Burleigh	Tier II
Bole Substation	MT	Teton	Tier II
Bonesteel Substation	SD	Gregory	Tier II

Facility Name	State	County	CY 2025 Tier II/HMBP
Brinsmade Microwave	ND	Benson	Tier II
Brookings Substation	SD	Brookings	Tier II
Buford-Trenton Substation	ND	Williams	Tier II
Cahoon Repeater	ND	Oliver	Tier II
Campell County Switching Yard	SD	Campbell	Tier II
Carpenter Substation	SD	Beadle	Tier II
Carrington Substation	ND	Foster	Tier II
Circle Substation	MT	McCone	Tier II
Conrad Substation	MT	Ponder	Tier II
Crossover Substation	MT	Big Horn	Tier II
Custer Lookout	ND	Morton	Tier II
Custer Substation	MT	Yellowstone	Tier II
Custer Trail Substation	ND	Morton	Tier II
Dawson County Substation	MT	Dawson	Tier II
Denison Substation	IA	Crawford	Tier II
DeVaul Substation	ND	Grant	Tier II
Devils Lake Fiber Regeneration Station	ND	Ramsey	Tier II
Devils Lake Microwave	ND	Ramsey	Tier II
Devils Lake Substation	ND	Ramsey	Tier II
Dickinson Substation Communications Site	ND	Stark	Tier II
Eagle Butte Substation	SD	Ziebach	Tier II
Edgeley Substation	ND	LaMoure	Tier II
Elliot Substation	ND	Ransom	Tier II

Facility Name	State	County	CY 2025 Tier II/HMBP
Ellsworth Air Force Base Substation	SD	Pennington	Tier II
Faith Substation	SD	Meade	Tier II
Fallon Pump	MT	Prairie	Tier II
Fallon Relift	MT	Prairie	Tier II
Fargo Substation	ND	Cass	Tier II
Flandreau Substation	SD	Moody	Tier II
Forman Substation	ND	Sargent	Tier II
Fort Thompson #2 Substation	SD	Buffalo	Tier II
Fort Thompson Substation	SD	Buffalo	Tier II
Frazer Substation	MT	Valley	Tier II
Fryburg Microwave	ND	Billings	Tier II
Glendive Pump 1	MT	Prairie	Tier II
Glendive Pump 2	MT	Prairie	Tier II
Glendive Substation	MT	Dawson	Tier II
Glenham Comm Site	SD	Campbell	Tier II
Grand Forks Substation	ND	Grand Forks	Tier II
Grand Island Substation	NE	Merrick	Tier II
Grand Prairie Switching Yard	NE	Holt	Tier II
Grand Prairie Switchyard	NE	Holt	Tier II
Granite Falls Substation	MN	Chippewa	Tier II
Great Falls Substation	MT	Cascade	Tier II
Gregory Substation	SD	Gregory	Tier II
Groton South Switching Station	SD	Brown	Tier II

Facility Name	State	County	CY 2025 Tier II/HMBP
Groton Substation	SD	Brown	Tier II
Gwinner Microwave	ND	Sargent	Tier II
Hailstone Butte Repeater	ND	Morton	Tier II
Havre Substation	MT	Hill	Tier II
Hebron Switching Station	ND	Morton	Tier II
Hilken Switching Station	ND	Burleigh	Tier II
Huron Substation	SD	Beadle	Tier II
Irv Simmons Substation	SD	Stanley	Tier II
Jamestown Substation	ND	Stutsman	Tier II
Killdeer Repeater	ND	Dunn	Tier II
Killdeer Substation	ND	Dunn	Tier II
Lakota Substation	ND	Nelson	Tier II
Leeds Substation	ND	Benson	Tier II
Lefor Microwave	ND	Stark	Tier II
Letcher Substation	SD	Davidson	Tier II
Martin Substation	SD	Bennett	Tier II
Maurine Substation	SD	Meade	Tier II
Midland Repeater	SD	Haakon	Tier II
Midland Substation	SD	Haakon	Tier II
Miles City 1 Substation	MT	Custer	Tier II
Miles City 2 Substation	MT	Custer	Tier II
Miles City 4 Substation (Miles City Converter)	MT	Custer	Tier II
Mission Substation	SD	Todd	Tier II

Facility Name	State	County	CY 2025 Tier II/HMBP
Morris Substation	MN	Stevens	Tier II
Mount Vernon Substation	SD	Davison	Tier II
Nelson Tap	ND	McLean	Tier II
New Underwood Substation	SD	Pennington	Tier II
Newell Substation	SD	Meade	Tier II
North Bend Switching Station	SD	Hughes	Tier II
O'Fallon Creek Substation	MT	Prairie	Tier II
Philip Substation	SD	Haakon	Tier II
Philip Junction Repeater	SD	Jackson	Tier II
Pierre Substation	SD	Hughes	Tier II
Rapid City Repeater	SD	Pennington	Tier II
Rapid City Substation	SD	Pennington	Tier II
Richland Substation	MT	Richland	Tier II
Roberts County Substation	SD	Roberts	Tier II
Rudyard Substation	MT	Hill	Tier II
Rugby Substation	ND	Pierce	Tier II
Rutland Microwave	ND	Sargent	Tier II
Savage Pump	MT	Richland	Tier II
Sentinel Butte Microwave	ND	Golden Valley	Tier II
Shelby Substation	MT	Toole	Tier II
Shelby Substation #2	MT	Toole	Tier II
Shirley Pump Substation	MT	Custer	Tier II
Sioux City (230-kV yard) Substation	IA	Plymouth	Tier II

Facility Name	State	County	CY 2025 Tier II/HMBP
Sioux City (345-kV yard) Substation	IA	Plymouth	Tier II
Sioux Falls Substation	SD	Minnehaha	Tier II
Snake Butte Repeater	SD	Hughes	Tier II
Snake Creek Substation	ND	McLean	Tier II
Spencer Substation	IA	Clay	Tier II
Summit Substation	SD	Roberts	Tier II
Tappen Regeneration	ND	Kidder	Tier II
Terry Pump	MT	Prairie	Tier II
Terry Tap	MT	Prairie	Tier II
Tiber Dam Substation	MT	Liberty	Tier II
Towner Switching Station	ND	Towner	Tier II
Tyndall Substation	SD	Bon Homme	Tier II
Utica Junction Substation	SD	Yankton	Tier II
V.T. Hanlon Substation	SD	McCook	Tier II
Valley City Substation	ND	Barnes	Tier II
Valley Pump Substation	MT	Valley	Tier II
Wall Repeater	SD	Pennington	Tier II
Wall Substation	SD	Pennington	Tier II

Appendix C: WAPA SPCC Plans

Facility Name	State	County	Region
Davis Dam Substation	AZ	Mohave	DSW
Lone Butte Substation	AZ	Maricopa	DSW
Glen Canyon Substation	AZ	Coconino	DSW
Senator Wash Substation	CA	Imperial	DSW
Parker Dam 69-kV Switchyard; 161-kV Switchyard (upper and lower); 230-kV Switchyard	CA	San Bernardino	DSW
New Melones Substation	CA	Calaveras	SN
Folsom Substation	CA	Sacramento	SN
Sacramento Power Operations Facility/Substation	CA	Sacramento	SN
Elverta Maintenance Facility	CA	Sacramento	SN
Elverta Substation	CA	Sacramento	SN
Airport Substation	CA	Shasta	SN
Trinity Substation	CA	Trinity	SN
Tracy Substation and Maintenance Facility	CA	Alameda	SN
Corning Substation	CA	Tehama	SN
Pleasant Valley Substation	CA	Fresno	SN
Coyote Substation	CA	Santa Clara	SN
Whiskeytown Substation	CA	Shasta	SN
Pacheco Substation	CA	Merced	SN
Redding Maintenance Facility	CA	Shasta	SN
Keswick Substation	CA	Shasta	SN

Facility Name	State	County	Region
Collbran Metering Station	CO	Mesa	RM
Willow Creek Switchyard	CO	Grand	RM
Mary's Lake Metering Station	CO	Larimer	RM
Sterling Substation	CO	Logan	RM
Animas River Substation	CO	LaPlata	RM
Weld Substation	CO	Weld	RM
Frenchman Creek Substation	CO	Phillips	RM
Estes Switchyard	CO	Larimer	RM
Curecanti Substation	CO	Montrose	RM
Granby Pumping Plant Switchyard	CO	Grand	RM
Great Cut Pumping Plant	CO	Montezuma	RM
Towaoc Powerplant	CO	Montezuma	RM
Flatiron Switchyard	CO	Larimer	RM
Fleming Substation	CO	Logan	RM
Blue Mesa Switchyard	CO	Gunnison	RM
Loveland PMOC Service Center	CO	Larimer	RM
Montrose Power Operations Center	CO	Montrose	RM
Poncha Switchyard	CO	Chaffee	RM
Poudre Substation	CO	Larimer	RM
Rifle Substation	CO	Garfield	RM
Sioux City (230-kV yard) Substation	IA	Plymouth	UGP
Spencer Substation	IA	Clay	UGP
Creston Substation	IA	Union	UGP

Facility Name	State	County	Region
Denison Substation	IA	Crawford	UGP
Sioux City (345-kV yard) Substation	IA	Plymouth	UGP
Granite Falls Substation	MN	Chippewa	UGP
Appledorn Substation	MN	Lac qui Parle	UGP
Morris Substation	MN	Stevens	UGP
Yellowtail Switchyard	MT	Big Horn	RM
Miles City 1 Substation	MT	Custer	UGP
Terry Tap	MT	Prairie	UGP
Custer Substation	MT	Yellowstone	UGP
Glendive Substation	MT	Dawson	UGP
Great Falls Substation	MT	Cascade	UGP
O'Fallon Creek Substation	MT	Prairie	UGP
Conrad Substation	MT	Ponder	UGP
Havre Substation	MT	Hill	UGP
Shelby Substation	MT	Toole	UGP
Shelby Substation #2	MT	Toole	UGP
Bole Substation	MT	Teton	UGP
Frazer Substation	MT	Valley	UGP
Miles City 2 Substation	MT	Custer	UGP
Miles City 4 Substation (Miles City Converter)	MT	Custer	UGP
Wolf Point Substation	MT	Roosevelt	UGP
Crossover Substation	MT	Big Horn	UGP
Dawson County Substation	MT	Dawson	UGP

Facility Name	State	County	Region
Terry Pump	MT	Prairie	UGP
Glendive Pump 2	MT	Prairie	UGP
Glendive Pump 1	MT	Prairie	UGP
Fallon Pump	MT	Prairie	UGP
Fallon Relift	MT	Prairie	UGP
Richland Substation	MT	Richland	UGP
Rudyard Substation	MT	Hill	UGP
Savage Pump	MT	Richland	UGP
Tiber Dam Substation	MT	Liberty	UGP
Valley Pump Substation	MT	Valley	UGP
Shirley Pump Substation	MT	Custer	UGP
Circle Substation	MT	McCone	UGP
Buford-Trenton Substation	ND	Williams	UGP
Williston 2 Substation	ND	Williams	UGP
Williston Substation	ND	Williams	UGP
Bisbee Substation	ND	Towner	UGP
DeVaul Substation	ND	Grant	UGP
Edgeley Substation	ND	LaMoure	UGP
Fargo Substation	ND	Cass	UGP
Valley City Substation	ND	Barnes	UGP
Belfield Substation	ND	Stark	UGP
Bismarck Substation	ND	Burleigh	UGP
Carrington Substation	ND	Foster	UGP

Facility Name	State	County	Region
Custer Trail Substation	ND	Morton	UGP
Devils Lake Substation	ND	Ramsey	UGP
Forman Substation	ND	Sargent	UGP
Grand Forks Substation	ND	Grand Forks	UGP
Jamestown Substation	ND	Stutsman	UGP
Killdeer Substation	ND	Dunn	UGP
Lakota Substation	ND	Nelson	UGP
Leeds Substation	ND	Benson	UGP
Rugby Substation	ND	Pierce	UGP
Snake Creek Substation	ND	McLean	UGP
Washburn Substation	ND	McLean	UGP
Watford City Substation	ND	McKenzie	UGP
Mobile Substation T26	ND	Burleigh	UGP
Mobile Substation S11	ND	Burleigh	UGP
Gering Substation and Maintenance Facility	NE	Scotts Bluff	RM
Bridgeport Substation	NE	Morrill	RM
Ogallala Substation	NE	Keith	RM
Grand Island Substation	NE	Merrick	UGP
Grand Prairie Switching Yard	NE	Holt	UGP
Waterflow Substation	NM	San Juan	RM
Amargosa Substation	NV	Clark	DSW
Letcher Substation	SD	Davidson	UGP
Carpenter Substation	SD	Beadle	UGP

Facility Name	State	County	Region
Armour Substation	SD	Charles-Mix	UGP
Bonesteel Substation	SD	Gregory	UGP
Flandreau Substation	SD	Moody	UGP
Fort Thompson Substation	SD	Buffalo	UGP
Huron Substation	SD	Beadle	UGP
New Underwood Substation	SD	Pennington	UGP
Newell Substation	SD	Meade	UGP
Sioux Falls Substation	SD	Minnehaha	UGP
Summit Substation	SD	Roberts	UGP
Watertown Substation 115/230-kV	SD	Codington	UGP
Woonsocket Substation	SD	Jerauld	UGP
Gregory Substation	SD	Gregory	UGP
Maurine Substation	SD	Meade	UGP
Midland Substation	SD	Haakon	UGP
Mission Substation	SD	Todd	UGP
Beresford Substation	SD	Union	UGP
Brookings Substation	SD	Brookings	UGP
Eagle Butte Substation	SD	Ziebach	UGP
Ellsworth Air Force Base Substation	SD	Pennington	UGP
Faith Substation	SD	Meade	UGP
Groton Substation	SD	Brown	UGP
Martin Substation	SD	Bennett	UGP
Mount Vernon Substation	SD	Davison	UGP

Facility Name	State	County	Region
Philip Substation	SD	Haakon	UGP
Pierre Substation	SD	Hughes	UGP
Rapid City Substation	SD	Pennington	UGP
Tyndall Substation	SD	Bon Homme	UGP
Wall Substation	SD	Pennington	UGP
White Substation	SD	Brookings	UGP
Wicksville Substation	SD	Pennington	UGP
Winner Substation	SD	Tripp	UGP
Watertown 345-kV Yard	SD	Codington	UGP
Watertown Substation (Static Var)	SD	Codington	UGP
Utica Junction	SD	Yankton	UGP
Roberts County Substation	SD	Roberts	UGP
Flaming Gorge Switchyard	UT	Daggett	RM
Tyzack Substation	UT	Uintah	RM
Meeteetse Substation	WY	Park	RM
Badwater Substation	WY	Fremont	RM
Glendo Switchyard	WY	Platte	RM
Alcova Switchyard	WY	Natrona	RM
Glendale Substation	WY	Park	RM
Pilot Butte Switchyard	WY	Fremont	RM
Lingle Substation	WY	Goshen	RM
Casper Substation	WY	Natrona	RM
Lusk Town Substation	WY	Niobrara	RM

Facility Name	State	County	Region
Copper Mountain Substation	WY	Fremont	RM
Limestone Substation	WY	Platte	RM
Cheyenne Substation	WY	Laramie	RM
Heart Mountain Switchyard	WY	Park	RM