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**Environmental, Occupational
Safety and Health Permit,
Compliance, and Other
Regulatory Requirements**

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6. ENVIRONMENTAL, OCCUPATIONAL SAFETY AND HEALTH PERMIT, COMPLIANCE, AND OTHER REGULATORY REQUIREMENTS

Chapter 6 presents the laws, regulations, and other requirements that apply to the proposed action and alternatives. Federal environmental, safety, and health laws and regulations are summarized in Section 6.3; Executive orders in Section 6.4; U.S. Department of Energy regulations, orders, and procedures in Section 6.5; and state and local laws and agreements in Section 6.6. Radioactive material packaging and transportation laws and regulations are discussed in Section 6.7. Emergency management and response laws, regulations, and Executive orders are discussed in Section 6.8. Consultations with Federal, state, and local agencies and federally recognized Native American groups are discussed in Section 6.9.

6.1 INTRODUCTION AND PURPOSE

As part of the National Environmental Policy Act (NEPA) process, the environmental impact statement (EIS) must consider whether actions described under its alternatives would result in a violation of any Federal, state, or local law or requirement (40 *Code of Federal Regulations* [CFR]1508.27) or require a permit, license, or other entitlement (40 CFR 1502.25). This chapter provides a baseline summary assessment of the major existing environmental requirements, agreements, and permits that relate to relocation of Technical Area 18 (TA-18).

There are a number of Federal environmental laws that affect environmental protection, health, safety, compliance, and/or consultation at every U.S. Department of Energy (DOE) location. In addition, certain environmental requirements have been delegated to state authorities for enforcement and implementation. Furthermore, state legislatures have adopted laws to protect health and safety and the environment. It is DOE policy to conduct its operations in a manner that ensures the protection of public health, safety, and the environment through compliance with all applicable Federal and state laws, regulations, orders, and other requirements.

The various action alternatives analyzed in this *Environmental Impact Statement for the Proposed Relocation of Technical Area 18 Capabilities and Materials at the Los Alamos National Laboratory (TA-18 Relocation EIS)* involve either the operation of existing DOE facilities or the construction and operation of new DOE facilities, and the transportation of materials. Actions required to comply with statutes, regulations, and other Federal and state requirements may depend on whether a facility is newly built (preoperational) or is incorporated in whole or in part into an existing facility. Requirements vary among alternatives located in different states. In this EIS, alternatives are considered in the States of New Mexico, Nevada, and Idaho. Section 3.3 provides a detailed discussion of these alternatives.

6.2 BACKGROUND

Requirements governing the relocation of TA-18 arise primarily from six sources: Congress, Federal agencies, Executive orders, legislatures of the affected states, state agencies, and local governments. In general, the Federal statutes establish national policies, create broad legal requirements, and authorize Federal agencies to create regulations that conform to the statute. Detailed implementation of these statutes is delegated to various Federal agencies such as DOE, the U.S. Department of Transportation (DOT), and the U.S. Environmental Protection Agency (EPA). For many environmental laws under EPA jurisdiction,

state agencies may be delegated responsibility for the majority of program implementation activities, such as permitting and enforcement, but EPA usually retains oversight of the delegated program.

Some applicable laws such as NEPA, the Endangered Species Act, and the Emergency Planning and Community Right-To-Know Act require specific reports and/or consultations rather than ongoing permits or activities. These would be satisfied through the legal/regulatory process, including the preparation of the *TA-18 Relocation EIS*, leading to the relocation of TA-18.

Other applicable laws establish general requirements that must be satisfied, but do not include processes (such as the issuance of permits or licenses) to consider compliance prior to specific instances of violations or other events that trigger their provisions. These include the Toxic Substances Control Act (affecting polychlorinated biphenyl transformers and other designated substances); the Federal Insecticide, Fungicide, and Rodenticide Act (affecting pesticide/herbicide applications); the Hazardous Materials Transportation Act; and (if there were to be a spill of a hazardous substance) the Comprehensive Environmental Response, Compensation, and Liability Act (Superfund).

Executive orders establish policies and requirements for Federal agencies. Executive orders are applicable to executive branch agencies, but do not have the force of law or regulation.

In addition to implementing some Federal programs, state legislatures develop their own laws. State statutes supplement as well as implement Federal laws for protection of air and water quality and for groundwater. State legislation may address solid waste management programs, locally rare or endangered species, and local resource, historic, and cultural values. The laws of local governments add a level of protection of the public, often focusing on zoning, utilities, and public health and safety concerns.

Regulatory agreements and compliance orders may also be initiated to establish responsibilities and time frames for Federal facilities to come into compliance with provisions of applicable Federal and state laws. There are also other agreements, memorandums of understanding, or formalized arrangements that establish cooperative relationships and requirements.

The alternatives being considered for the relocation of TA-18 operational capabilities and materials are in the states of New Mexico, Nevada, and Idaho. Each of the alternatives is located on property controlled by DOE. For a broader review of environmental regulations and compliance issues at each site, the reader is referred to recent sitewide or programmatic EISs that include evaluations of activities at those sites.

DOE has authority to regulate some environmental activities, as well as the health and safety aspects of nuclear facilities operations. The Atomic Energy Act of 1954, as amended, is the principal authority for DOE regulatory activities not externally regulated by other Federal or state agencies. Regulation of DOE activities is primarily established through the use of DOE orders and regulations.

External environmental laws, regulations, and executive orders can be categorized as applicable to either broad environmental planning and consultation requirements or regulatory environmental protection and compliance activities, although some requirements are applicable to both planning and operations compliance

Section 6.3 of this chapter discusses the major Federal statutes and regulations that impose nuclear safety and environmental protection requirements on the subject facilities and might require the facilities to obtain a permit or license (or amendment thereof), prior to initiation of the relocation project. Each of the applicable regulations and statutes establishes how activities are to be conducted or how potential releases of pollutants are to be controlled or monitored. These applicable regulations and statutes include requirements for the

issuance of permits or licenses for new operations or new emission sources and for amendments to existing permits or licenses to allow new types of operations at existing sources.

Section 6.4 discusses Executive orders. Section 6.5 identifies DOE regulations, orders, and procedures for compliance with the Atomic Energy Act, the Occupational Safety and Health Act, and other environmental, safety, and health matters. Section 6.6 identifies state and local laws, regulations, and ordinances, as well as local agreements potentially affecting the relocation of TA-18. Radioactive material packaging and transportation laws and regulations are discussed in Section 6.7. Section 6.8 discusses emergency management and response laws, regulation, and Executive orders. Consultations with Federal, state, and local agencies and federally recognized Native American groups are discussed in Section 6.9.

6.3 FEDERAL ENVIRONMENTAL, SAFETY, AND HEALTH LAWS AND REGULATIONS

This section describes the Federal environmental, safety, and health laws and regulations that may apply to the proposed action and alternatives.

National Environmental Policy Act of 1969, as amended (42 *United States Code* [U.S.C.] 4321 *et seq.*)—NEPA establishes a national policy promoting awareness of the environmental consequences of human activity on the environment and consideration of environmental impacts during the planning and decision-making stages of a project. It requires Federal agencies to prepare a detailed EIS for any major Federal action with potentially significant environmental impact.

This EIS has been prepared in accordance with NEPA requirements, Council on Environmental Quality regulations (40 CFR 1500 *et seq.*), and DOE (10 CFR 1021, DOE Order 451.1B) provisions for implementing the procedural requirements of NEPA. It discusses reasonable alternatives and their potential environmental consequences.

Atomic Energy Act of 1954 (42 U.S.C. 2011 *et seq.*)—The Atomic Energy Act authorizes DOE to establish standards to protect health or minimize dangers to life or property for activities under DOE’s jurisdiction. Through a series of DOE orders, an extensive system of standards and requirements has been established to ensure safe operation of DOE facilities. DOE regulations are found in 10 CFR.

The Atomic Energy Act establishes regulatory control of the disposal of radioactive waste as well as production, possession, and use of three types of radioactive material: source, special nuclear, and byproduct materials. The Atomic Energy Act authorizes DOE to set radiation protection standards for itself and its contractors at DOE nuclear facilities and provides exclusions from U.S. Nuclear Regulatory Commission (NRC) licensing for defense production facilities.

The Atomic Energy Act authorizes DOE to establish standards that protect health and minimize danger to life or property from activities under DOE’s jurisdiction. The mechanisms through which DOE manages its facilities are the promulgation of regulations (set forth in 10 CFR 830) and issuance of DOE orders and associated standards and guidance. Requirements for environmental protection, safety, and health are implemented at DOE sites primarily through contractual mechanisms that establish the applicable DOE requirements for management and operating contractors.

Nuclear safety regulations are found in the CFR. Several nuclear safety rules and environmental procedural rules are in effect (for example, 10 CFR 835, “Occupational Radiation Protection”), and more are in final stages of promulgation. Nuclear safety regulations are effective under the schedule and implementing requirements of each rule, regardless of whether they are included in the contract. DOE contractors are also required to comply with all applicable external laws and regulations, regardless of contract language.

Chapter 5 discusses the application of DOE procedures to the management and control of radioactive waste for each alternative. Potential occupational radiation doses and doses to the general public would be well within DOE limits.

Clean Air Act of 1970, as amended (42 U.S.C. 7401 *et seq.*)—The Clean Air Act is intended to “protect and enhance the quality of the Nation’s air resources so as to promote the public health and welfare and the productive capacity of its population.” Section 118 of the Clean Air Act (42 U.S.C. 7418) requires that each Federal agency with jurisdiction over any property or facility engaged in any activity that might result in the discharge of air pollutants comply with “all Federal, state, interstate, and local requirements” with regard to the control and abatement of air pollution.

The Clean Air Act: (1) requires EPA to establish National Ambient Air Quality Standards as necessary to protect the public health, with an adequate margin of safety, from any known or anticipated adverse effects of a regulated pollutant (42 U.S.C. 7409 *et seq.*); (2) requires establishment of national standards of performance for new or modified stationary sources of atmospheric pollutants (42 U.S.C. 7411); (3) requires specific emission increases to be evaluated so as to prevent a significant deterioration in air quality (42 U.S.C. 7470 *et seq.*); and (4) requires specific standards for releases of hazardous air pollutants (including radionuclides) (42 U.S.C. 7412). These standards are implemented through state implementation plans developed by each state with EPA approval. The Clean Air Act requires sources to meet standards and obtain permits to satisfy these standards.

Emissions of air pollutants are regulated by EPA under 40 CFR Parts 50 through 99. Radionuclide emissions from DOE facilities are regulated under the National Emission Standards for Hazardous Air Pollutants Program under 40 CFR 61. Approval to construct a new facility or to modify an existing one may be required by these regulations under 40 CFR 61.07

Chapter 5 compares expected releases at each site with applicable standards. Some releases will result from construction activities at those alternatives requiring construction. During operation, small releases will result during testing of emergency diesel generators and from other sources. At all sites, it was found that the magnitude of the releases would not warrant a Prevention of Significant Deterioration analysis.

Clean Water Act of 1972, as amended (33 U.S.C. 1251 *et seq.*)—The Clean Water Act, which amended the Federal Water Pollution Control Act, was enacted to “restore and maintain the chemical, physical, and biological integrity of the Nation’s water.” The Clean Water Act prohibits the “discharge of toxic pollutants in toxic amounts” to navigable waters of the United States. Section 313 of the Clean Water Act requires all branches of the Federal Government engaged in any activity that might result in a discharge or runoff of pollutants to surface waters to comply with Federal, state, interstate, and local requirements.

The Clean Water Act provides water quality standards for the Nation’s waterways, guidelines and limitations for effluent discharges from point-source discharges, and the National Pollutant Discharge Elimination System (NPDES) permit program. The NPDES program is administered by EPA, pursuant to regulations in 40 CFR 122 *et seq.* Sections 401 through 405 of the Water Quality Act of 1987 added Section 402(p) to the Clean Water Act requiring that EPA establish regulations for permits for storm-water discharges associated with industrial activities. Storm-water provisions of the NPDES program are set forth at 40 CFR 122.26. Permit modifications are required if discharge effluent is altered. Section 404 of the Clean Water Act requires permits for the discharge of dredge or fill materials into navigable waters.

Chapter 4 discusses existing wastewater treatment facilities and the NPDES status at each site. Chapter 5 discusses management of wastewater during construction and operation at each of the alternatives. Sanitary waste would be managed by use of portable toilet facilities during construction. During operation, sanitary

wastes would be processed through existing facilities under all of the alternatives. It is anticipated that there would be no discharges requiring a new NPDES permit under any alternative.

Safe Drinking Water Act of 1974, as amended (42 U.S.C. 300(f) *et seq.*)—The primary objective of the Safe Drinking Water Act is to protect the quality of public drinking water supplies and sources of drinking water. The implementing regulations, administered by EPA unless delegated to states, establish standards applicable to public water systems. These regulations include maximum contaminant levels (including those for radioactivity) in public water systems, which are defined as water systems that have at least 15 service connections used by year-round residents or regularly serve at least 25 year-round residents. The EPA regulations implementing the Safe Drinking Water Act are found under 40 CFR 100 through 149. For radioactive material, the regulations specify that the average annual concentration of manmade radionuclides in drinking water, as delivered to the user by such a system, shall not produce a dose equivalent to the total body or an internal organ greater than 4 millirem per year beta activity (40 CFR Section 141.16(a)). Other programs established by the Safe Drinking Water Act include the Sole Source Aquifer Program, the Wellhead Protection Program, and the Underground Injection Control Program.

Chapter 4 discusses groundwater resources and current groundwater protection programs at each site. Chapter 5 discusses protection of groundwater for each alternative. No alternative would involve a direct discharge to the surface or subsurface of sanitary or industrial effluent.

Low-Level Radioactive Waste Policy Act of 1980, as amended (42 U.S.C. 2021 *et seq.*)—This legislation amended the Atomic Energy Act to specify that the Federal Government is responsible for disposal of low-level radioactive waste generated by its activities, and that states are responsible for disposal of other low-level radioactive waste. It provides for and encourages interstate compacts to carry out the state responsibilities.

Low-level radioactive waste is expected to be generated from activities conducted under all of the alternatives.

Chapter 4 discusses existing programs for management of low-level waste at each site. Chapter 5 discusses the volume of low-level radioactive waste and the management of that radioactive waste for each of the alternatives.

Solid Waste Disposal Act of 1965, as amended by the Resource Conservation and Recovery Act of 1976 and the Hazardous and Solid Waste Amendments of 1984 (42 U.S.C. 6901 *et seq.*)—The Solid Waste Disposal Act of 1965, as amended, governs the transportation, treatment, storage, and disposal of hazardous and nonhazardous waste. Under the Resource Conservation and Recovery Act of 1976 (RCRA), which amended the Solid Waste Disposal Act of 1965, EPA defines and identifies hazardous waste; establishes standards for its transportation, treatment, storage, and disposal; and requires permits for persons engaged in hazardous waste activities. Section 3006 of RCRA (42 U.S.C. 6926) allows states to establish and administer these permit programs with EPA approval. The EPA regulations implementing RCRA are found in 40 CFR Parts 260 through 283.

Regulations imposed on a generator or on a treatment, storage, and/or disposal facility vary according to the type and quantity of material or waste generated, treated, stored, and/or disposed. The method of treatment, storage, and/or disposal also impacts the extent and complexity of the requirements.

Chapter 4 provides information on the management of hazardous and mixed radioactive waste for each of the alternative sites. It is anticipated that about 4,000 kilograms (4.4 tons) of hazardous waste would be

generated as a result of operations. Chapter 5 discusses the management of this waste for each of the alternatives.

Federal Facility Compliance Act of 1992 (42 U.S.C. 6961 *et seq.*)—The Federal Facility Compliance Act, enacted on October 6, 1992, amended RCRA. Section 102(a)(3) of the Federal Facility Compliance Act waives sovereign immunity for Federal facilities from fines and penalties for violations of RCRA, state, interstate, and local hazardous and solid waste management requirements. This waiver was delayed for three years following enactment for violations of the land disposal restrictions storage and prohibition (RCRA Section 3004[j]) involving mixed radioactive waste at DOE facilities. This legislation further delays the waiver of sovereign immunity beyond the three-year period at a facility if DOE is in compliance with an approved plan for developing treatment capacity and technologies for mixed radioactive waste generated or stored at the facility, as well as an order requiring compliance with the plan.

Some mixed low-level radioactive waste is expected to be generated from activities conducted for all of the alternatives. The Waste Management sections of Chapter 4 and 5 provide information on the generation and management of mixed radioactive waste and the site specific orders for each of the alternatives.

Pollution Prevention Act of 1990 (42 U.S.C. 13101 *et seq.*)—The Pollution Prevention Act establishes a national policy for waste management and pollution control. Source reduction is given first preference, followed by environmentally safe recycling, with disposal or releases to the environment as a last resort. In response to the policies established by the Pollution Prevention Act, DOE committed to participation in the Superfund Amendments and Reauthorization Act, Section 313, EPA 33/50 Pollution Prevention Program. The goal for facilities involved in compliance with Section 313 is to achieve a 33 percent reduction (from a 1993 baseline) in the release of 17 priority chemicals by 1997. On November 12, 1999, U.S. Secretary of Energy Bill Richardson issued 14 pollution prevention and energy efficiency goals for DOE. These goals were designed to build environmental accountability and stewardship into DOE's decision-making process. Under these goals, DOE will strive to minimize waste and maximize energy efficiency as measured by continuous cost-effective improvements in the use of materials and energy, using the years 2005 and 2010 as interim measurement points.

Radioactive, hazardous, and nonhazardous waste types are expected to be generated from all the alternatives; therefore, efforts must be made to minimize their generation. As discussed in the Waste Management sections of Chapter 4, waste minimization programs are in place at each of the four sites to reduce waste and to recycle where possible.

Toxic Substances Control Act of 1976 (15 U.S.C. 2601 *et seq.*)—The Toxic Substances Control Act provides EPA with the authority to require testing of chemical substances entering the environment and to regulate them as necessary. The law complements and expands existing toxic substance laws such as Section 112 of the Clean Air Act and Section 307 of the Clean Water Act. The Toxic Substances Control Act requires compliance with inventory reporting and chemical control provisions of the legislation to protect the public from the risks of exposure to chemicals. The Toxic Substances Control Act also imposes strict limitations on the use and disposal of polychlorinated biphenyls, chlorofluorocarbons, asbestos, dioxins, certain metal-working fluids, and hexavalent chromium.

Activities under all the alternatives would need to be conducted in compliance with the Toxic Substances Control Act.

Federal Insecticide, Fungicide, and Rodenticide Act (7 U.S.C. 136 *et seq.*)—This legislation regulates the use, registration, and disposal of several classes of pesticides to ensure that pesticides are applied in a manner that protects the applicators, workers, and the environment. Implementing regulations include

recommended procedures for the disposal and storage of pesticides (40 CFR 165 [proposed regulation]) and worker protection standards (40 CFR 170).

Activities under all of the alternatives would need to be conducted in compliance with this act.

National Historic Preservation Act of 1966, as amended (16 U.S.C. 470 *et seq.*)—The National Historic Preservation Act provides that sites with significant national historic value be placed on the *National Register of Historic Places*, which is maintained by the Secretary of the Interior. The major provisions of the act for DOE are Sections 106 and 110. Both sections aim to ensure that historic properties are appropriately considered in planning Federal initiatives and actions. Section 106 is a specific, issue-related mandate to which Federal agencies must adhere. It is a reactive mechanism that is driven by a Federal action. Section 110, in contrast, sets out broad Federal agency responsibilities with respect to historic properties. It is a proactive mechanism with emphasis on ongoing management of historic preservation sites and activities at Federal facilities. No permits or certifications are required under the act.

Section 106 requires the head of any Federal agency having direct or indirect jurisdiction over a proposed Federal or federally assisted undertaking to ensure compliance with the provisions of the act. It compels Federal agencies to “take into account” the effect of their projects on historical and archaeological resources and to give the Advisory Council on Historic Preservation the opportunity to comment on such effects. Section 106 mandates consultation during Federal actions if the undertaking has the potential to affect a historic property. This consultation normally involves the State and/or Tribal Historic Preservation Officers and may include other organizations and individuals such as local governments, Native American tribes, and Native Hawaiian organizations. If an adverse effect is found, the consultation often ends with the execution of a memorandum of agreement that states how the adverse effects will be resolved.

The regulations implementing Section 106, found in 30 CFR 800, were revised on December 12, 2000 (65 FR 77697), and were effective January 11, 2001. This revision modified the process by which Federal agencies consider the effects of their undertakings on historic properties and provides the Advisory Council on Historic Preservation with a reasonable opportunity to comment with regard to such undertakings, as required by Section 106 of the National Historic Preservation Act. In promulgating the new regulations, the Council has sought to better balance the interests and concerns of various users of the Section 106 process, including Federal agencies, State Historic Preservation Officers, Tribal Historic Preservation Officers, Native Americans and Native Hawaiians, industry, and the public.

Chapter 4 describes cultural and paleontological resources at each alternative site. Chapter 5 discusses the potential impacts to those resources of each alternative.

American Antiquities Act of 1906, as amended (16 U.S.C. 431 to 433)—This act protects historic and prehistoric ruins, monuments, and antiquities, including paleontological resources, on federally controlled lands from appropriation, excavation, injury, and destruction without permission.

Chapter 4 describes cultural and paleontological resources at each alternative site. Chapter 5 discusses the potential impacts to those resources of each alternative.

Archaeological and Historic Preservation Act of 1974, as amended (16 U.S.C. 469 to 469c)—This act protects sites that have historic and prehistoric importance.

Chapter 4 describes cultural and paleontological resources at each alternative site. Chapter 5 discusses the potential impacts to those resources of each alternative.

Archaeological and Resources Protection Act of 1979, as amended (16 U.S.C. 470 *et seq.*)—This act requires a permit for any excavation or removal of archaeological resources from Federal or Native American lands. Excavations must be undertaken for the purpose of furthering archaeological knowledge in the public interest, and resources removed remain the property of the United States. The law requires that whenever any Federal agency finds that its activities may cause irreparable loss or destruction of significant scientific, prehistoric, or archaeological data, the agency must notify the U.S. Department of the Interior and may request that the Department undertake the recovery, protection, and preservation of such data. Consent must be obtained from the Native American tribe or the Federal agency having authority over the land on which a resource is located before issuance of a permit; the permit must contain the terms and conditions requested by the tribe or Federal agency.

Chapter 4 describes cultural and paleontological resources at each alternative site. Chapter 5 discusses the potential impacts to those resources of each alternative.

Endangered Species Act of 1973, as amended (16 U.S.C. 1531 *et seq.*)—The Endangered Species Act is intended to prevent the further decline of endangered and threatened species and to restore these species and their critical habitats. Section 7 of the act requires Federal agencies having reason to believe that a prospective action may affect an endangered or threatened species or its critical habitat to consult with the U.S. Fish and Wildlife Service (USFWS) of the U.S. Department of the Interior or the National Marine Fisheries Service of the U.S. Department of Commerce to ensure that the action does not jeopardize the species or destroy its habitat (50 CFR 17). Despite reasonable and prudent measures to avoid or minimize such impacts, if the species or its habitat would be jeopardized by the action, a formal review process is specified.

Threatened or endangered species in the regions of the four alternatives have been identified and listed for each of the sites in Chapter 4. Chapter 5 discusses the potential impact to these species. At the Nevada Test Site (NTS), there is a potential impact to the desert tortoise. A preconstruction survey immediately prior to construction would be necessary if this site were selected.

Migratory Bird Treaty Act of 1918, as amended (16 U.S.C. 703 *et seq.*)—The Migratory Bird Treaty Act, as amended, is intended to protect birds that have common migration patterns between the United States and Canada, Mexico, Japan, and Russia. It regulates the harvest of migratory birds by specifying conditions such as the mode of harvest, hunting seasons, and bag limits. The act stipulates that it is unlawful at any time, by any means, or in any manner, to “kill ... any migratory bird.” Although no permit for this project is required under the act, DOE is required to consult with the USFWS regarding impacts to migratory birds, and to avoid or minimize these effects in accordance with the USFWS Mitigation Policy. Chapter 4 identifies species known at each alternative site. Chapter 5 discusses impacts to ecological resources for each alternative.

Bald and Golden Eagle Protection Act of 1973, as amended (16 U.S.C. 668 through 668d)—The Bald and Golden Eagle Protection Act, as amended, makes it unlawful to take, pursue, molest, or disturb bald (American) and golden eagles, their nests, or their eggs anywhere in the United States (Section 668, 668c). A permit must be obtained from the U.S. Department of the Interior to relocate a nest that interferes with resource development or recovery operations.

The bald eagle occupies or uses portions of the Los Alamos National Laboratory (LANL) and the Idaho National Engineering and Environmental Laboratory (INEEL). The golden eagle has been sighted at NTS. Chapter 5 discusses the impacts to ecological resources of each alternative.

Fish and Wildlife Coordination Act (16 U.S.C. 661 *et seq.*)—The Fish and Wildlife Coordination Act promotes more effectual planning and cooperation between Federal, state, public, and private agencies for

the conservation and rehabilitation of the Nation's fish and wildlife and authorizes the U.S. Department of the Interior to provide assistance. This act requires consultation with the USFWS on the possible effects on wildlife if there is construction, modification, or control of bodies of water in excess of 10 acres in surface area.

Chapter 4 describes the water resources at each of the alternative sites.

Farmland Protection Policy Act of 1981 (7 U.S.C. 4201 *et seq.*)—The Farmland Protection Policy Act requires Federal agencies to consider prime or unique farmlands when planning major projects and programs on Federal lands. Federal agencies are required to use prime and unique farmland criteria developed by the U.S. Department of Agriculture's Soil Conservation Service. Under the Farmland Protection Policy Act, the Soil Conservation Service is authorized to maintain an inventory of prime and unique farmlands in the United States to identify the location and extent of rural lands important in the production of food, fiber, forage, and oilseed crops (7 CFR 657).

Chapter 4 identifies agricultural activities at each alternative site. No cultivated farming is reported.

American Indian Religious Freedom Act of 1978 (42 U.S.C. 1996)—This act reaffirms Native American religious freedom under the First Amendment and sets U.S. policy to protect and preserve the inherent and constitutional right of Native Americans to believe, express, and exercise their traditional religions. The act requires that Federal actions avoid interfering with access to sacred locations and traditional resources that are integral to the practice of religions.

Chapter 4 describes Traditional Cultural Properties resources known to exist at each site. Chapter 5 discusses the potential impacts to Traditional Cultural Properties resources of each alternative.

Religious Freedom Restoration Act of 1993 (42 U.S.C. 2000(bb) *et seq.*)—This act prohibits the U.S. Government, including Federal departments, from substantially burdening the exercise of religion unless the Government demonstrates a compelling governmental interest, the action furthers a compelling government interest, and it is the least restrictive means of furthering that interest.

Native American Graves Protection and Repatriation Act of 1990 (25 U.S.C. 3001)—This act establishes a means for Native Americans to request the return or repatriation of human remains and other cultural items presently held by Federal agencies or federally assisted museums or institutions. The act also contains provisions regarding the intentional excavation and removal of, inadvertent discovery of, and illegal trafficking in Native American human remains and cultural items. Major actions under this law include (a) establishing a review committee with monitoring and policymaking responsibilities; (b) developing regulations for repatriation, including procedures for identifying lineal descent or cultural affiliation needed for claims; (c) providing oversight of museum programs designed to meet the inventory requirements and deadlines of this law; and (d) developing procedures to handle unexpected discoveries of graves or grave goods during activities on Federal or tribal lands. All Federal agencies that manage land and/or are responsible for archaeological collections obtained from their lands or generated by their activities must comply with the act. DOE managers of ground-disturbing activities on Federal and tribal lands should make themselves aware of the statutory provisions treating inadvertent discoveries of Native American remains and cultural objects. Regulations implementing the act are found at 43 CFR 10.

Chapter 4 describes Native American resources known to exist at each site. Chapter 5 discusses the potential impacts to Native American resources of each alternative.

Occupational Safety and Health Act of 1970 (29 U.S.C. 651 *et seq.*)—The Occupational Safety and Health Act establishes standards for safe and healthful working conditions in places of employment throughout the United States. The act is administered and enforced by the Occupational Safety and Health Administration (OSHA), a U.S. Department of Labor agency. Although OSHA and EPA both have a mandate to reduce exposures to toxic substances, OSHA’s jurisdiction is limited to safety and health conditions that exist in the workplace environment.

Under the act, it is the duty of each employer to provide a workplace that is free of recognized hazards that are likely to cause death or serious physical harm. Employees have a duty to comply with the occupational safety and health standards and rules, regulations, and orders issued under the act. OSHA regulations (29 CFR 1910) establish specific standards telling employers what must be done to achieve a safe and healthful working environment. Government agencies, including DOE, are not technically subject to OSHA regulations, but are required under 29 U.S.C. 668 to establish their own occupational safety and health programs for their places of employment consistent with OSHA standards. DOE emphasizes compliance with these regulations at its facilities and prescribes, through DOE orders, the OSHA standards that contractors shall meet, as applicable to their work at government-owned, contractor-operated facilities (DOE Order 440.1A). DOE keeps and makes available the various records of minor illnesses, injuries, and work-related deaths as required by OSHA regulations.

Activities under all the alternatives would be conducted in compliance with this act.

Noise Control Act of 1972, as amended (42 U.S.C. 4901 *et seq.*)—Section 4 of the Noise Control Act of 1972, as amended, directs all Federal agencies to carry out “to the fullest extent within their authority” programs within their jurisdictions in a manner that furthers a national policy of promoting an environment free from noise jeopardizing health and welfare.

DOE programs to promote control of noise at each of the four alternative sites are discussed in Chapter 4. Chapter 5 discusses the potential noise impact of each of the alternatives.

6.4 ENVIRONMENTAL, SAFETY, AND HEALTH EXECUTIVE ORDERS

Executive Order 11514 (Protection and Enhancement of Environmental Quality, March 5, 1970)—This order (regulated by 40 CFR 1500 through 1508) requires Federal agencies to continually monitor and control their activities to (1) protect and enhance the quality of the environment and (2) develop procedures to ensure the fullest practicable provision of timely public information and understanding of the Federal plans and programs that may have potential environmental impacts so that the views of interested parties can be obtained. DOE has issued regulations (10 CFR 1021) and DOE Order 451.1B for compliance with this Executive order.

As previously discussed in Section 6.3, this EIS has been prepared in accordance with NEPA requirements (i.e., 40 CFR 1500 through 1508, 10 CFR 1021, and DOE Order 451.1B).

Executive Order 11593 (National Historic Preservation, May 13, 1971)—This order directs Federal agencies to locate, inventory, and nominate qualified properties under their jurisdiction or control to the *National Register of Historic Places*. This process requires DOE to provide the Advisory Council on Historic Preservation the opportunity to comment on the possible impacts of the proposed activity on any potential eligible or listed resources.

Chapter 4 identifies historic resources at each of the alternative sites. Chapter 5 discusses potential impacts to historic resources at each site.

Executive Order 11988 (Floodplain Management, May 24, 1977)—This order (regulated by 10 CFR 1022) requires Federal agencies to establish procedures to ensure that the potential effects of flood hazards and floodplain management are considered for any action undertaken in a floodplain, and that floodplain impacts be avoided to the extent practicable.

Chapter 4 identifies the delineated floodplains at each of the alternative sites.

Executive Order 11990 (Protection of Wetlands, May 24, 1977)—This order (regulated by 10 CFR 1022) requires Federal agencies to avoid any short- or long-term adverse impacts on wetlands wherever there is a practicable alternative.

Chapter 4 identifies the wetlands at each alternative site. Chapter 5 discusses the measures to be taken to protect wetlands where applicable.

Executive Order 12088 (Federal Compliance with Pollution Control Standards, October 13, 1978, as amended by Executive Order 12580, Federal Compliance with Pollution Control Standards, January 23, 1987)—This order directs Federal agencies to comply with applicable administrative and procedural pollution control standards established by, but not limited to, the Clean Air Act, the Noise Control Act, the Clean Water Act, the Safe Drinking Water Act, the Toxic Substances Control Act, and RCRA.

Activities under all of the alternatives would need to be conducted to comply with this order.

Executive Order 12580 (Superfund Implementation, August 28, 1996)—This order delegates to the heads of Executive departments and agencies the responsibility of undertaking remedial actions for releases or threatened releases that are not on the National Priorities List and for removal actions, other than emergencies, where the release is from any facility under the jurisdiction or control of Executive departments and agencies.

Activities under all of the alternatives would need to be conducted in compliance with this order.

Executive Order 12898 (Federal Actions to Address Environmental Justice in Minority Populations and Low-Income Populations, February 11, 1994)—This order requires each Federal agency to identify and address disproportionately high and adverse human health or environmental effects of its programs, policies, and activities on minority and low-income populations.

The Environmental Justice sections of Chapters 4 and 5 and Appendix B of this EIS provide information that demonstrates compliance with this order.

Executive Order 13007 (Indian Sacred Sites, May 24, 1996)—This order requires: “In managing Federal lands, each executive branch agency with statutory or administrative responsibility for the management of Federal lands shall, to the extent practicable, permitted by law, and not clearly inconsistent with essential agency functions, (1) accommodate access to and ceremonial use of Indian sacred sites by Indian religious practitioners and (2) avoid adversely affecting the physical integrity of such sacred sites. Where appropriate, agencies shall maintain the confidentiality of sites.”

Chapter 4 identifies Native American resources at each alternative site. Chapter 5 discusses the potential impacts to Native American resources. A cultural resource survey will be done at the selected site prior to any construction activity.

Executive Order 13101 (Greening the Government Through Waste Prevention, Recycling, and Federal Acquisition, September 14, 1998)—This order requires each Federal agency to incorporate waste prevention and recycling in its daily operations and to work to increase and expand markets for recovered materials. This order states that it is national policy to prefer pollution prevention, whenever feasible. Pollution that cannot be prevented should be recycled; pollution that cannot be prevented or recycled should be treated in an environmentally safe manner. Disposal should be employed only as a last resort.

Activities under all of the alternatives would need to be conducted to comply with this order.

Executive Order 13112 (Invasive Species, February 3, 1999)—This order requires Federal agencies to prevent the introduction of invasive species to provide for their control, and to minimize their economic, ecological, and human health impacts.

Activities under all of the alternatives would need to be conducted to comply with this order.

Executive Order 13123 (Greening the Government Through Efficient Energy Management, June 3, 1999)—This order directs Federal agencies to improve energy management in order to save taxpayer dollars and reduce emissions that contribute to air pollution and global climate change.

Activities under all of the alternatives would need to be conducted to comply with this order.

Executive Order 13148 (Greening the Government Through Leadership in Environmental Management, April 21, 2000)—This order sets new goals for pollution prevention, requires all Federal facilities to have an environmental management system, and requires compliance or environmental management system audits.

Activities under all of the alternatives would need to be conducted to comply with this order.

6.5 DOE ENVIRONMENTAL, SAFETY, AND HEALTH REGULATIONS AND ORDERS

The Atomic Energy Act authorizes DOE to establish standards to protect health and/or minimize the dangers to life or property from activities under DOE's jurisdiction. Through a series of DOE orders and regulations, an extensive system of standards and requirements has been established to ensure safe operation of DOE facilities.

DOE regulations are found in 10 CFR. These regulations address such areas as energy conservation, administrative requirements and procedures, nuclear safety, and classified information. For the purpose of this EIS, relevant regulations include: "Procedural Rules for DOE Nuclear Activities" (10 CFR 820), "Nuclear Safety Management" (10 CFR 830), "Occupational Radiation Protection" (10 CFR 835), "Compliance with the National Environmental Policy Act" (10 CFR 1021), and "Compliance with Floodplains/Wetlands Environmental Review Requirements" (10 CFR 1022).

DOE orders are issued in support of environmental, safety, and health programs. Many DOE orders have been revised and reorganized to reduce duplication and eliminate obsolete provisions. The new DOE order organization is organized by series, with each number identified by three digits, and is intended to include all DOE orders, policies, manuals, requirement documents, notices, and guides. The remaining DOE orders, which are identified by four digits, are expected to be revised and converted to the new DOE numbering system. The major DOE orders pertaining to the alternatives are listed in **Table 6-1**.

Table 6–1 Relevant DOE Orders and Directives

<i>DOE Order</i>	<i>Subject</i>
Leadership/Management/Planning	
O 151.1A	Comprehensive Emergency Management System (11/01/00)
Information and Analysis	
O 231.1	Environment, Safety, and Health Reporting (09/30/95; Change 2, 11/07/96)
O 232.1A	Occurrence Reporting and Processing of Operations Information (07/21/97)
Work Process	
O 411.1-1B	Safety Management Functions, Responsibilities, and Authorities Manual (5/22/01)
O 414.1A	Quality Assurance (09/29/99; Change 1, 07/12/01)
O 420.1	Facility Safety (10/13/95; Change 3, 11/22/00)
O 430.1A	Life Cycle Asset Management (10/14/98)
O 433.1	Maintenance Management Program for DOE Nuclear Facilities (06/01/01)
O 435.1	Radioactive Waste Management (07/09/99; Change 1, 08/28/01)
O 440.1A	Worker Protection Management for DOE Federal and Contractor Employees (03/27/98)
O 451.1B	National Environmental Policy Act Compliance Program (10/26/00)
O 460.1A	Packaging and Transportation Safety (10/02/96)
O 460.2	Departmental Materials Transportation and Packaging Management (09/27/95; Change 1, 10/26/95)
O 461.1	Packaging and Transfer or Transportation of Materials of National Security Interest (09/29/00)
O 470.1	Safeguards and Security Program (09/28/95; Change 1, 06/21/96)
O 470.2A	Security and Emergency Management Independent Oversight and Performance Assurance Program (03/01/00)
O 473.2	Protective Force Program (06/30/00)
O 474.1A	Control and Accountability of Nuclear Materials (11/22/00)
External Relationships	
1230.2	American Indian Tribal Government Policy (04/08/92)
Personnel Relations and Services	
3790.1B	Federal Employee Occupational Safety and Health Program (01/07/93)
Environmental Quality and Impact	
5400.1	General Environmental Protection Program (11/09/88; Change 1, 06/29/90)
5400.5	Radiation Protection of the Public and the Environment (02/08/90; Change 2, 01/07/93)
5480.4	Environmental Protection, Safety, and Health Protection Standards (05/15/84; Change 4, 01/07/93)
5480.19	Conduct of Operations Requirements for DOE Facilities (07/09/90; Change 1, 05/18/92; Change 2, 10/23/01)
5480.20A	Personnel Selection, Qualification, and Training Requirements for DOE Nuclear Facilities (11/15/94; Change 2, 07/12/01)
5480.30	Nuclear Reactor Safety Design Criteria (01/19/93; Change 1, 03/14/01)
Emergency Preparedness	
5530.3	Radiological Assistance Program (01/14/92; Change 1, 04/10/92)
5530.5	Federal Radiological Monitoring and Assessment Center (07/10/92; Change 1, 12/02/92)
Office of National Nuclear Security Administration	
5632.1C	Protection and Control of Safeguards and Security Interests (07/15/94)
5660.1B	Management of Nuclear Materials (05/26/94)

6.6 STATE ENVIRONMENTAL LAWS, REGULATIONS, AND AGREEMENTS

Certain environmental requirements, including some discussed in Section 6.3, have been delegated to state authorities for implementation and enforcement. It is DOE policy to conduct its operations in an environmentally safe manner that complies with all applicable laws, regulations, and standards, including state laws and regulations. A list of applicable state laws, regulations, and agreements is provided in **Table 6–2**. This list is not exhaustive and other state laws and regulations may be applicable.

Table 6–2 State Environmental Laws, Regulations, and Agreements

<i>Law/Regulation/Agreement</i>	<i>Citation</i>	<i>Requirements</i>
Argonne National Laboratory-West, Idaho		
Idaho Environmental Protection and Health Act	Idaho Code (IC), Title 39, Health and Safety, Chapter 1, Department of Health and Welfare, Sections 39-105	Provides for development of air pollution control permitting regulations.
Rules for the Control of Air Pollution in Idaho	Idaho Administrative Procedure Act (IDAPA) 58, Department of Environmental Quality, Title 1, Chapter 1 (58.01.01)	Enforces national ambient air quality standards.
Idaho Water Pollution Control Act	IC, Title 39, Chapter 36, Water Quality	Establishes a program to enhance and preserve the quality and value of water resources.
Water Quality Standards and Wastewater Treatment Requirements	IDAPA 58.01.02	Establishes water quality standards and wastewater treatment requirements.
Idaho Rules for Public Drinking Water Systems	IDAPA 58, Department of Health and Welfare, 58.01.08	Controls and regulates the design, construction, operation, maintenance, and quality control of public drinking water.
Transportation of Hazardous Waste	IC, Title 18, Crimes and Punishment, Chapter 39, Highways and Bridges, Section 18-3905; IC, Title 49, Motor Vehicles, Chapter 22, Hazardous Materials/Hazardous Waste Transportation Enforcement	Regulates transportation of hazardous materials/hazardous waste on highways.
Idaho Hazardous Waste Management Act	IC, Title 39, Chapter 44, Hazardous Waste Management	Requires permit prior to construction or modification of a hazardous waste disposal facility.
Rules and Standards for Hazardous Waste	IDAPA 58.01.05	Requires permit prior to construction or modification of a hazardous waste disposal facility.
Various Acts Regarding Fish and Game	IC, Title 36, Fish and Game, Chapters 9, Protection of Fish, 11, Protection of Animals and Birds, and 24, Species Conservation	Requires consultation with responsible agency.
Endangered Species Act	IC, Title 67, State Government and State Affairs, Chapter 8, Executive and Administrative Officers, Section 67-818	Requires consultation with Department of Fish and Game.
Rules for Classification and Protection of Wildlife	IDAPA 13, Department of Fish and Game, 13.01.06	Requires consultation with Department of Fish and Game.
Idaho Historic Preservation Act	IC, Title 67, Chapter 46, Preservation of Historic Sites	Requires consultation with responsible local governing body.
Agreement in Principle (Formerly Tribal Working Agreement)	September 27, 2000	Establishes understanding and commitment between the tribes and DOE.

<i>Law/Regulation/Agreement</i>	<i>Citation</i>	<i>Requirements</i>
Spent Fuel Settlement Agreement (also known as the Governor's Agreement)	October 17, 1995	Allows INEEL to receive spent nuclear fuel and mixed radioactive waste from off site and establishes schedules for the treatment of existing high-level radioactive waste, transuranic waste, and mixed radioactive waste, and the removal of spent nuclear fuel from the state. (This agreement is not applicable to the alternative because only new waste will be generated by the proposed action. This newly generated waste, if determined to be mixed radioactive waste, will be covered by the INEEL Site Treatment Plan.)
Consent Order for Federal Facility Compliance Plan	November 1, 1995 (Issued to INEEL and Argonne National Laboratory-West [ANL-W])	Addresses compliance with the Federal Facility Compliance Act and mixed radioactive waste treatment issues by implementing the INEEL Site Treatment Plan.
Los Alamos and Sandia National Laboratories, New Mexico		
New Mexico Air Quality Control Act	New Mexico Statutes Annotated (NMSA), Chapter 74, Environmental Improvement, Article 2, Air Pollution, and Implementing Regulations at New Mexico Administrative Code (NMAC) Title 20, Environmental Protection, Chapter 2, Air Quality	Establishes air quality standards and requires a permit prior to construction or modification of an air contaminant source. Also requires an operating permit for major producers of air pollutants and imposes emission standards for hazardous air pollutants.
New Mexico Radiation Protection Act	NMSA, Chapter 74, Article 3, Radiation Control	Establishes state requirements for worker protection.
New Mexico Water Quality Act	NMSA, Chapter 74, Article 6, Water Quality; Implementing Regulations found in NMAC, Title 20, Chapter 6, Water Quality	Establishes water quality standards and requires a permit prior to the construction or modification of a water discharge source.
New Mexico Groundwater Protection Act	NMSA, Chapter 74, Article 6B, Groundwater Protection	Establishes state standards for protection of groundwater from leaking underground storage tanks.
New Mexico Solid Waste Act	NMSA, Chapter 74, Article 9, Solid Waste Act; Implementing Regulations found in NMAC Title 20, Environmental Protection, Chapter 9, Solid Waste	Requires permit prior to construction or modification of a solid waste disposal facility.
New Mexico Hazardous Waste Act	NMSA, Chapter 74, Article 4, Hazardous Waste, and Implementing Regulations at NMAC Title 20, Environmental Protection, Chapter 4, Hazardous Waste	Requires a permit prior to construction or modification of a hazardous waste disposal facility.
New Mexico Hazardous Chemicals Information Act	NMSA, Chapter 74, Article 4E-1, Hazardous Chemicals Information	Implements the hazardous chemical information and toxic reporting requirements of the Emergency Planning and Community Right-to-Know Act of 1986 (SARA Title III) for covered facilities.
New Mexico Wildlife Conservation Act	NMSA, Chapter 17, Game and Fish, Article 2, Hunting and Fishing Regulations, Part 3, Wildlife Conservation Act	Requires permit and coordination if a project may disturb habitat or otherwise affect threatened or endangered species.

<i>Law/Regulation/Agreement</i>	<i>Citation</i>	<i>Requirements</i>
New Mexico Raptor Protection Act	NMSA, Chapter 17, Article 2-14	Makes it unlawful to take, attempt to take, possess, trap, ensnare, injure, maim, or destroy any of the species of hawks, owls, and vultures.
New Mexico Endangered Plant Species Act	NMSA, Chapter 75, Miscellaneous Natural Resource Matters, Article 6, Endangered Plants	Requires coordination with the state.
Threatened and Endangered Species of New Mexico	NMAC, Title 19, Natural Resources and Wildlife, Chapter 33, Endangered and Threatened Species, 19.33.6.8	Establishes the list of threatened and endangered species.
Endangered Plant Species	NMAC, Title 19, Chapter 21, Endangered Plants	Establishes plant species list and rules for collection.
New Mexico Cultural Properties Act	NMSA, Chapter 18, Libraries and Museums, Article 6, Cultural Properties	Establishes State Historic Preservation Office and requirements to prepare an archaeological and historic survey and consult with the State Historic Preservation Office.
Environmental Oversight and Monitoring Agreement	Agreement in Principle Between DOE and the State of New Mexico, October 1, 1995	Provides DOE support for state activities in environmental oversight, monitoring, access, and emergency response.
Pueblo Accords	DOE 1992 Cooperative Agreements with each of four Pueblos	Sets forth the relationship between DOE and the Pueblos.
Los Alamos County Noise Restrictions	Los Alamos County Code, Chapter 8.28	Imposes noise restrictions and makes provisions for exceedances.
City of Albuquerque Noise Control Ordinance	Ordinance 21-1975	Establishes acceptable noise levels for various activities within the City of Albuquerque.
Federal Facility Compliance Order	October 1995 (Issued to both DOE and LANL)	Requires compliance with the site treatment plan which documents the development of treatment capacities and technologies or use of offsite facilities for treating mixed radioactive waste.
Federal Facility Compliance Order	October 6, 1995 (Issued to Sandia National Laboratories/New Mexico [SNL/NM])	Requires compliance with the site treatment plan for the treatment of mixed radioactive waste at SNL/NM.
Nevada Test Site, Nevada		
Nevada Air Pollution Control Law	Nevada Revised Statutes (NRS), Title 40, Public Health and Safety, Chapter 445B, Air Pollution	Requires permit prior to construction or modification of an air contaminant source.
Nevada Air Quality Regulations	Nevada Administrative Code (NAC), Chapter 445B, Air Controls, Air Pollution	Implements both state and Federal (EPA) clean air statutes. Identifies permit and monitoring requirements.
Nevada Water Pollution Control Law	NRS Title 40, Chapter 445A, Water Controls	Requires permit prior to construction or modification of a water discharge source.
Nevada Water Pollution Control Regulations	NAC, Chapter 445A, Sections 070-348, Water Pollution Control	Classifies waters of the state, establishes standards for water quality, and specifies discharge permit requirements and notification requirements.

<i>Law/Regulation/Agreement</i>	<i>Citation</i>	<i>Requirements</i>
Nevada Water Quality Standards	NAC, Chapter 445A, Water Controls	Establishes water quality standards. Requires permit prior to discharge to surfacewaters or groundwaters of the state.
Nevada Drinking Water Regulations	NAC, Chapter 445A, Water Controls	Sets standards for drinking water specifications for certification and control of variances and exemptions. Sets standards for wells and other water supply systems. Establishes regulation of wells, aquifer exemptions, prohibited wells, operation, monitoring, etc., as well as plugging and abandonment activities.
Nevada Solid Waste Disposal Law	NRS, Title 40, Chapter 444, Sanitation	Requires permit prior to construction or modification of a solid waste disposal facility.
Nevada Solid Waste Regulations	NAC, Chapter 444, Sanitation, Sections 570-749, Solid Waste Disposal	Sets forth definitions, methods of disposal, and special requirements for hazardous waste collection and transportation standards and classification of landfills.
Nevada Hazardous Waste Regulations	NAC, Chapter 444, Sanitation, Sections 842-874, Facilities for Management of Hazardous Waste	Establishes fees, variances, restrictions, and permits. Adopts 40 CFR 2, 124, and 260 to 270, inclusive as a part of the Nevada Administrative Code.
Nevada Sewage Disposal Regulations	NAC, Chapter 444, Sanitation, Sections 750-840, Sewage Disposal	Establishes standards, regulations, permits, and requirements for septic tanks and other sewage disposal systems for dwellings, communities, and commercial buildings.
Nevada Public Waters Law	NRS, Title 48, Water Chapter 533, Adjudication of Vested Water Rights; Appropriation of Public Waters	Sets forth requirements, procedures, and a process for acquiring a permit for appropriation of public waters. Establishes permit fees and sets forth environmental requirements. Note that the Legislative Counsel Bureau, Carson City, has not published a corresponding chapter in the Nevada Administrative Code covering the implementation of Nevada Revised Statutes, Chapter 533.
Nevada Underground Water, Wells, and Related Drilling Requirements	NAC, Chapter 534, Underground Water and Wells, Sections 280-298, License to Drill Well and Sections 300-450, Drilling, Construction, and Plugging of Wells	Establishes ownership of underground waters and their appropriation for beneficial use. Specifies the conditions, requirements, and rules for acquiring such water. Sets forth license requirements for well drillers; requirements of drilling, construction, and plugging of wells; and protection of aquifers from pollution and waste.
Protection of Indigenous Flora	NRS Title 47, Forestry; Forestry Products and Flora, Chapter 527, Protection and Preservation of Timbered Lands, Trees, and Flora	Provides protection of indigenous flora. Plants declared to be threatened with extinction are placed on the state list of fully protected species.

<i>Law/Regulation/Agreement</i>	<i>Citation</i>	<i>Requirements</i>
Nevada Wildlife Regulations	NAC, Chapter 503, Hunting, Fishing, and Trapping; Miscellaneous Protective Measures, Sections 010-104, General Provisions	Specifies classification of wildlife as protected and unprotected.
Nevada Historic Preservation and Archaeology Law	NRS, Title 33, Libraries, Museums; Historic Preservation, Chapter 383, Historic Preservation and Archaeology	Requires permit prior to the investigation, exploration, or excavation of a historic or prehistoric site.
Mutual Consent Agreement between State of Nevada and DOE for the Storage of the Low-Level Land Disposal Restricted Mixed Radioactive Waste	Transmitted from P. Liebendorfer (NDEP) to D. Elle (DOE/Nevada), 1995	Provides a nine-month period to prepare and submit a plan for the treatment and disposal of newly generated mixed low-level radioactive waste not covered under the Site Treatment Plan. Allows available storage capacity of the transuranic waste pad to be used for storage of onsite-generated mixed low-level radioactive waste that does not meet RCRA land disposal restriction provisions.
Agreement in Principle between DOE and the State of Nevada	June 1999	Provides funding to Nevada for oversight of DOE's environmental, safety, and health activities.
U.S. District Court of Nevada jurisdiction for the Death Valley Groundwater Flow System	U.S. v. Cappaert <i>et al.</i> , 375 F. Supp. 456 (D. Nevada 1974)	Maintains an adequate water supply while ensuring protection of the surrounding ecosystem.

6.7 RADIOACTIVE MATERIAL PACKAGING AND TRANSPORTATION REGULATIONS

Transportation of hazardous and radioactive materials and substances is governed by DOT and NRC. The Hazardous Material Transportation Act of 1975 (49 U.S.C. 5105 *et seq.*) requires DOT to prescribe uniform national regulations for transportation of hazardous materials (including radioactive materials). Most state and local regulations regarding such transportation that are not substantively the same as DOT regulations are preempted (i.e., rendered void) (49 U.S.C. 5125). This in effect allows state and local governments only to enforce the Federal regulations, not to change or expand upon them.

This program is administered by the DOT Research and Special Programs Administration, which coordinates its regulations with those of NRC (under the Atomic Energy Act) and EPA (under RCRA) when covering the same activities.

DOT regulations, which may be found under 49 CFR 171 through 178, and 49 CFR 383 through 397, contain requirements for identifying a material as hazardous or radioactive. These regulations interface with the NRC regulations for identifying material, but DOT hazardous material regulations govern the hazard communication (e.g., marking, hazard labeling, vehicle placarding, emergency response telephone number) and shipping requirements.

The NRC regulations applicable to radioactive materials transportation may be found under 10 CFR 71. These regulations include detailed packaging design and package certification testing requirements. Complete documentation of design and safety analysis and the results of the required testing are submitted to NRC to certify the package for use. This certification testing involves the following components: heat,

physical drop onto an unyielding surface, water submersion, puncture by dropping the package onto a steel bar, and gas tightness.

The transportation casks used to transport radioactive material are subject to numerous inspections and tests (10 CFR 71.87). These tests are designed to ensure that cask components are properly assembled and meet applicable safety requirements. Tests and inspections are clearly identified in the Safety Analysis Report for Packaging and/or the Certificate of Compliance for each cask. Casks are loaded and inspected by registered users in compliance with approved quality assurance programs. Operations involving the casks are conducted in compliance with 10 CFR 71.91. Reports of defects or accidental mishandling are submitted to NRC.

Chapter 5 discusses the potential transportation impacts of each alternative.

6.8 EMERGENCY MANAGEMENT AND RESPONSE LAWS, REGULATIONS, AND EXECUTIVE ORDERS

This section discusses the laws, regulations, and Executive orders that address the protection of public health and worker safety and require the establishment of emergency plans. These laws, regulations, and Executive orders relate to the operation of facilities, including DOE facilities that engage directly or indirectly in the production of special nuclear material.

6.8.1 Emergency Management and Response Federal Laws

Emergency Planning and Community Right-to-Know Act of 1986 (U.S.C. 11001 *et seq.*) (also known as “SARA Title III”)—This act requires emergency planning and notice to communities and government agencies concerning the presence and release of specific chemicals. EPA implements this act under regulations found in 40 CFR 355, 370, and 372. Under Subtitle A of this act, Federal facilities are required to provide various information (such as inventories of specific chemicals used or stored and releases that occur from these sites) to the state emergency response commission and to the local emergency planning committee to ensure that emergency plans are sufficient to respond to unplanned releases of hazardous substances. Implementation of the provisions of this act began voluntarily in 1987, and inventory and annual emissions reporting began in 1988. DOE requires compliance with Title III as a matter of DOE policy at its contractor-operated facilities.

Chapter 4 describes emergency planning for each alternative site. Each alternative site is at an existing, operating DOE facility. Each DOE site has established an emergency management program that would be activated in the event of an accident. The programs have been developed and maintained to ensure adequate response to most accident conditions and to provide response efforts for accidents not specifically considered. The emergency management plan includes emergency planning, training, preparedness, and response.

Chapter 5 discusses the impacts of potential accidents for each alternative.

Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (42 U.S.C. 9604(I) (also known as “Superfund”)—This act provides authority for Federal and state governments to respond directly to hazardous substance incidents. The act requires reporting of spills, including radioactive spills, to the National Response Center.

It will be necessary to comply with this requirement for any alternative.

Robert T. Stafford Disaster Relief and Emergency Assistance Act of 1988 (42 U.S.C. 5121)—This act, as amended, provides an orderly, continuing means of providing Federal Government assistance to state and local governments in managing their responsibilities to alleviate suffering and damage resulting from disasters. The President, in response to a state governor’s request, may declare an “emergency” or “major disaster” to provide Federal assistance under this act. The President, in Executive Order 12148, delegated all functions except those in Sections 301, 401, and 409 to the Director of the Federal Emergency Management Agency. The act provides for the appointment of a Federal coordinating officer who will operate in the designated area with a state coordinating officer for the purpose of coordinating state and local disaster assistance efforts with those of the Federal Government.

Justice Assistance Act of 1984 (42 U.S.C. 3701-3799)—This act establishes Emergency Federal Law Enforcement Assistance, which provides assistance to state and local governments in responding to a law enforcement emergency. The act defines the term “law enforcement emergency” as an uncommon situation which requires law enforcement, which is or threatens to become of serious or epidemic proportions, and with respect to which state and local resources are inadequate to protect the lives and property of citizens or to enforce the criminal law. Emergencies that are not of an ongoing or chronic nature (for example, the Mount Saint Helens volcanic eruption) are eligible for Federal law enforcement assistance including funds, equipment, training, intelligence information, and personnel.

Price-Anderson Act (42 U.S.C. 2210)—This act allows DOE to indemnify its contractors if the contract involves the risk of public liability from a nuclear incident.

6.8.2 Emergency Management and Response Federal Regulations

Quantities of Radioactive Materials Requiring Consideration of the Need for an Emergency Plan for Responding to a Release (10 CFR 30.72, Schedule C)—This section of the regulations provides a list that is the basis for both the public and private sector to determine whether the radiological materials they handle must have an emergency response plan for unscheduled releases, and is one of the threshold criteria documents for DOE hazards assessments required by DOE Order 5500.3A, “Planning and Preparedness for Operational Emergencies.” The “Federal Radiological Emergency Response Plan,” dated November 1995, primarily discusses offsite Federal response in support of state and local governments with jurisdiction during a peacetime radiological emergency.

Chapter 4 describes emergency preparedness for each alternative.

Occupational Safety and Health Administration Emergency Response, Hazardous Waste Operations, and Worker Right to Know (29 CFR 1910)—This regulation establishes OSHA requirements for employee safety in a variety of working environments. It addresses employee emergency and fire prevention plans (Section 1910.38), hazardous waste operations and emergency response (Section 1920.120), and hazards communication (Section 1910.1200) to make employees aware of the dangers they face from hazardous materials at their workplace. These regulations do not directly apply to Federal agencies. However, Section 19 of the Occupational Safety and Health Act (29 U.S.C. 668) requires all Federal agencies to have occupational safety programs “consistent” with Occupational Safety and Health Act standards.

Chapter 4 describes DOE emergency programs.

Emergency Management and Assistance (44 CFR Section 1.1)—This regulation contains the policies and procedures for the Federal Emergency Management Act, National Flood Insurance Program, Federal Crime Insurance Program, Fire Prevention and Control Program, Disaster Assistance Program, and Preparedness Program, including radiological planning and preparedness.

Hazardous Materials Tables and Communications, Emergency Response Information Requirements (49 CFR 172)—This regulation defines the regulatory requirements for marking, labeling, placarding, and documenting hazardous material shipments. The regulation also specifies the requirements for providing hazardous material information and training.

Chapter 5 discusses transportation impacts for each alternative.

6.8.3 Emergency Response and Management Executive Orders

Executive Order 12148 (Federal Emergency Management, July 20, 1979)—This order transfers functions and responsibilities associated with Federal emergency management to the Director of the Federal Emergency Management Agency. The order assigns the director the responsibility to establish Federal policies for, and to coordinate all civil defense and civil emergency planning, management, mitigation, and assistance functions of, Executive agencies.

Executive Order 12656 (Assignment of Emergency Preparedness Responsibilities, November 18, 1988)—This order assigns emergency preparedness responsibilities to Federal departments and agencies.

Executive Order 12938 (Proliferation of Weapons of Mass Destruction, November 14, 1994)—This order states that the proliferation of nuclear, biological, and chemical weapons (“weapons of mass destruction”) and the means of delivering such weapons constitutes an unusual and extraordinary threat to the national security, foreign policy, and economy of the United States, and that a national emergency would be declared to deal with that threat.

6.9 CONSULTATIONS WITH FEDERAL, STATE, AND LOCAL AGENCIES AND FEDERALLY RECOGNIZED NATIVE AMERICAN GROUPS

Certain laws, such as the Endangered Species Act, the Fish and Wildlife Coordination Act, and the National Historic Preservation Act, require consultation and coordination by DOE with other governmental entities including other Federal agencies, state and local agencies, and federally recognized Native American groups. These consultations must occur on a timely basis and are generally required before any land disturbance can begin. Most of these consultations are related to biotic resources, cultural resources, and Native American rights.

The biotic resource consultations generally pertain to the potential for activities to disturb sensitive species or habitats. Cultural resource consultations relate to the potential for disruption of important cultural resources and archaeological sites. Native American consultations are concerned with the potential for disturbance of ancestral Native American sites and the traditional practices of Native Americans.

Los Alamos National Laboratory

With respect to biotic resources, DOE has determined that the proposed action would fall within those actions described as acceptable in the *Los Alamos National Laboratory Threatened and Endangered Species Habitat Management Plan* (LANL 1998) and, therefore, no additional informal or formal consultation by DOE is necessary to comply with the provisions of 50 CFR 402, Interagency Cooperation - Endangered Species Act of 1973, as amended.

With respect to cultural resources, LANL is performing a historic building eligibility assessment of the buildings in TA-18, some of which are 50 years old. The buildings are being evaluated for adverse effects,

and the evaluation will be sent to the State Historic Preservation Office and Advisory Council on Historic Preservation for concurrence. After the Record of Decision is issued on this EIS, DOE will work with these organizations and the public to develop the resolution of adverse effects and a Memorandum of Agreement.

Sandia National Laboratories/New Mexico

SNL/NM is not conducting consultations with Federal, state, and local agencies and federally recognized Native American groups because the proposed activity will occur on previously disturbed land. No threatened and endangered, prehistoric, historic, cultural, or Native American sites of interest are found within TA-V.

Nevada Test Site

A sitewide biological opinion for activities conducted at NTS exists to protect threatened and endangered species at the site. Surveys would be conducted at the proposed location for new facilities at the Device Assembly Facility for cultural and biological resources prior to any construction. No consultation with Federal, state, and local agencies and federally recognized Native American groups would occur prior to the completion of these surveys.

Argonne National Laboratory-West

Consultations with Federal, state, and local agencies and federally recognized Native American groups are being conducted for the proposed action at ANL-W. With respect to biotic resources, consultation has been completed with the USFWS Snake River Basin Office in Idaho regarding the proposed relocation of TA-18 capabilities and materials from LANL to ANL-W in Butte County, Idaho. The USFWS provided DOE with a list of endangered, threatened, proposed, and/or candidate species which may be present in the area of ANL-W. This list fulfills the requirements for a species list under Section 7(c) of the Endangered Species Act of 1973, as amended (USFWS 2001). In addition, the Idaho Fish and Game Upper Snake Region Office, in a letter to DOE dated May 18, 2001, stated that their office has no fish and wildlife concerns with the proposed action at ANL-W (Idaho Fish & Game 2001).