

PART 1021—NATIONAL ENVIRONMENTAL POLICY ACT IMPLEMENTING PROCEDURES

Subpart A—General

Sec.

- 1021.100 Purpose.
- 1021.101 Policy.
- 1021.102 Applicability.
- 1021.103 Adoption of CEQ NEPA regulations.
- 1021.104 Definitions.
- 1021.105 Oversight of Agency NEPA activities.

Subpart B—DOE Decisionmaking

- 1021.200 DOE planning.
- 1021.210 DOE decisionmaking.
- 1021.211 Interim actions: Limitations on actions during the NEPA process.
- 1021.212 Research, development, demonstration, and testing.
- 1021.213 Rulemaking.
- 1021.214 Adjudicatory proceedings.
- 1021.215 Applicant process.
- 1021.216 Procurement, financial assistance, and joint ventures.

Subpart C—Implementing Procedures

- 1021.300 General requirements.
- 1021.301 Agency review and public participation.
- 1021.310 Environmental impact statements.
- 1021.311 Notice of intent and scoping.
- 1021.312 [Reserved]
- 1021.313 Public review of environmental impact statements.
- 1021.314 Supplemental environmental impact statements.
- 1021.315 Records of decision.
- 1021.320 Environmental assessments.
- 1021.321 Requirements for environmental assessments.
- 1021.322 Findings of no significant impact.
- 1021.330 Programmatic (including site-wide) NEPA documents.
- 1021.331 Mitigation action plans.
- 1021.340 Classified, confidential, and otherwise exempt information.
- 1021.341 Coordination with other environmental review requirements.
- 1021.342 Interagency cooperation.
- 1021.343 Variances.

Subpart D—Typical Classes of Actions

1021.400 Level of NEPA review.

1021.410 Application of categorical exclusions (classes of actions that normally do not require EAs or EISs).

Appendix A to Subpart D of Part 1021—

Categorical Exclusions Applicable to General Agency Actions

Appendix B to Subpart D of Part 1021—

Categorical Exclusions Applicable to Specific Agency Actions

Appendix C to Subpart D of Part 1021—

Classes of Actions That Normally Require EAs But Not Necessarily EISs

Appendix D to Subpart D of Part 1021—

Classes of Actions That Normally Require EISs

Subpart A—General

§ 1021.100 Purpose.

The purpose of this part is to establish procedures that the Department of Energy (DOE) shall use to comply with section 102(2) of the National Environmental Policy Act (NEPA) of 1969 (42 U.S.C. 4332(2)) and the Council on Environmental Quality (CEQ) regulations for implementing the procedural provisions of NEPA (40 CFR parts 1500–1508). This part supplements, and is to be used in conjunction with, the CEQ Regulations.

§ 1021.101 Policy.

It is DOE’s policy to follow the letter and spirit of NEPA; comply fully with the CEQ Regulations; and apply the NEPA review process early in the planning stages for DOE proposals.

§ 1021.102 Applicability.

(a) This part applies to all organizational elements of DOE except the Federal Energy Regulatory Commission.

(b) This part applies to any DOE action affecting the quality of the environment of the United States, its territories or possessions. DOE actions having environmental effects outside the United States, its territories or possessions are subject to the provisions of Executive Order 12114, “Environmental Effects Abroad of Major Federal Actions” (3 CFR, 1979 Comp., p. 356; 44 FR 1957, January 4, 1979), DOE guidelines implementing that Executive Order (46 FR 1007, January 5, 1981), and the Department of State’s “Unified Procedures Applicable to Major Federal Actions Relating to Nuclear Activities Subject to Executive Order 12114” (44 FR 65560, November 13, 1979).

§ 1021.103 Adoption of CEQ NEPA regulations.

DOE adopts the regulations for implementing NEPA published by CEQ at 40 CFR parts 1500 through 1508.

§ 1021.104 Definitions.

(a) The definitions set forth in 40 CFR part 1508 are referenced and used in this part.

(b) In addition to the terms defined in 40 CFR part 1508, the following definitions apply to this part:

Action means a project, program, plan, or policy, as discussed at 40 CFR 1508.18, that is subject to DOE's control and responsibility. Not included within this definition are purely ministerial actions with regard to which DOE has no discretion. For example, ministerial actions to implement congressionally mandated funding for actions not proposed by DOE and as to which DOE has no discretion (i.e., statutorily mandated, congressionally initiated "passthroughs").

Advance NOI means a formal public notice of DOE's intent to prepare an EIS, which is published in advance of an NOI in order to facilitate public involvement in the NEPA process.

American Indian tribe means any Indian tribe, band, nation, pueblo, or other organized group or community, including any Alaska native entity, which is recognized as eligible for the special programs or services provided by the United States because of their status as Indians.

Categorical exclusion means a category of actions, as defined at 40 CFR 1508.4 and listed in appendix A or B to subpart D of this part, for which neither an EA nor an EIS is normally required.

CEQ means the Council on Environmental Quality as defined at 40 CFR 1508.6.

CEQ Regulations means the regulations issued by CEQ (40 CFR parts 1500–1508) to implement the procedural provisions of NEPA.

CERCLA-excluded petroleum and natural gas products means petroleum, including crude oil or any fraction thereof, that is not otherwise specifically listed or designated as a hazardous substance under section 101(14) of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) (42 U.S.C. 9601.101(14)) and natural gas, natural gas liquids, liquefied natural gas, or synthetic gas usable for fuel or of pipeline quality (or mixtures of natural gas and such synthetic gas).

Contaminant means a substance identified within the definition of contaminant in section 101(33) of CERCLA (42 U.S.C. 9601.101(33)).

Day means a calendar day. *DOE* means the U.S. Department of Energy.

DOE proposal (or *proposal*) means a proposal, as discussed at 40 CFR 1508.23 (whether initiated by DOE, another Federal agency, or an applicant), for an action, if the proposal requires a DOE decision.

EA means an environmental assessment as defined at 40 CFR 1508.9.

EIS means an environmental impact statement as defined at 40 CFR 1508.11, or, unless this part specifically provides otherwise, a Supplemental EIS.

EPA means the U.S. Environmental Protection Agency.

FONSI means a Finding of No Significant Impact as defined at 40 CFR 1508.13.

Hazardous substance means a substance identified within the definition of hazardous substances in section 101(14) of CERCLA (42 U.S.C. 9601.101(14)). Radionuclides are

hazardous substances through their listing under section 112 of the Clean Air Act (42 U.S.C. 7412) (40 CFR part 61, subpart H).

Host state means a state within whose boundaries DOE proposes an action at an existing facility or construction or operation of a new facility.

Host tribe means an American Indian tribe within whose tribal lands DOE proposes an action at an existing facility or construction or operation of a new facility. For purposes of this definition, *tribal lands* means the area of “Indian country,” as defined in 18 U.S.C. 1151, that is under the tribe’s jurisdiction. That section defines Indian country as:

- (i) All land within the limits of any Indian reservation under the jurisdiction of the United States government, notwithstanding the issuance of any patent, and including rights-of-way running through the reservation;
- (ii) All dependent Indian communities within the borders of the United States whether within the original or subsequently acquired territory thereof, and whether within or without the limits of a state; and
- (iii) All Indian allotments, the Indian titles to which have not been extinguished, including rights-of-way running through the same.

Interim action means an action concerning a proposal that is the subject of an ongoing EIS and that DOE proposes to take before the ROD is issued, and that is permissible under 40 CFR 1506.1: Limitations on actions during the NEPA process.

Mitigation Action Plan means a document that describes the plan for implementing commitments made in a DOE EIS and its associated ROD, or, when appropriate, an EA or FONSI, to mitigate adverse environmental impacts associated with an action.

NEPA means the National Environmental Policy Act of 1969 (42 U.S.C. 4321 *et seq.*).

NEPA document means a DOE NOI, EIS, ROD, EA, FONSI, or any other document prepared pursuant to a requirement of NEPA or the CEQ Regulations.

NEPA review means the process used to comply with section 102(2) of NEPA.

NOI means a Notice of Intent to prepare an EIS as defined at 40 CFR 1508.22.

Notice of Availability means a formal notice, published in the FEDERAL REGISTER, that announces the issuance and public availability of a draft or final EIS. The EPA Notice of Availability is the official public notification of an EIS; a DOE Notice of Availability is an optional notice used to provide information to the public.

Pollutant means a substance identified within the definition of pollutant in section 101(33) of CERCLA (42 U.S.C. 9601.101(33)).

Program means a sequence of connected or related DOE actions or projects as discussed at 40 CFR 1508.18(b)(3) and 1508.25(a).

Programmatic NEPA document means a broad-scope EIS or EA that identifies and assesses the environmental impacts of a DOE program; it may also refer to an associated NEPA document, such as an NOI, ROD, or FONSI.

Project means a specific DOE undertaking including actions approved by permit or other regulatory decision as well as Federal and federally assisted activities, which may include design,

construction, and operation of an individual facility; research, development, demonstration, and testing for a process or product; funding for a facility, process, or product; or similar activities, as discussed at 40 CFR 1508.18(b)(4).

ROD means a Record of Decision as described at 40 CFR 1505.2.

Scoping means the process described at 40 CFR 1501.7; “public scoping process” refers to that portion of the scoping process where the public is invited to participate, as described at 40 CFR 1501.7 (a)(1) and (b)(4).

Site-wide NEPA document means a broad-scope EIS or EA that is programmatic in nature and identifies and assesses the individual and cumulative impacts of ongoing and reasonably foreseeable future actions at a DOE site; it may also refer to an associated NEPA document, such as an NOI, ROD, or FONSI.

Supplement Analysis means a DOE document used to determine whether a supplemental EIS should be prepared pursuant to 40 CFR 1502.9(c), or to support a decision to prepare a new EIS.

Supplemental EIS means an EIS prepared to supplement a prior EIS as provided at 40 CFR 1502.9(c).

The Secretary means the Secretary of Energy.

§ 1021.105 Oversight of Agency NEPA activities.

The General Counsel, or his/her designee, is responsible for overall review of DOE NEPA compliance. Further information on DOE’s NEPA process and the status of individual NEPA reviews may be obtained upon request from the Office of NEPA Policy and Compliance, GC–20, Office of the General Counsel, U.S. Department of Energy, 1000 Independence Avenue SW., Washington, DC 20585–0103.

Subpart B—DOE Decisionmaking

§ 1021.200 DOE planning.

(a) DOE shall provide for adequate and timely NEPA review of DOE proposals, including those for programs, policies, projects, regulations, orders, or legislation, in accordance with 40 CFR 1501.2 and this section. In its planning for each proposal, DOE shall include adequate time and funding for proper NEPA review and for preparation of anticipated NEPA documents.

(b) DOE shall begin its NEPA review as soon as possible after the time that DOE proposes an action or is presented with a proposal.

(c) DOE shall determine the level of NEPA review required for a proposal in accordance with § 1021.300 and subpart D of this part.

(d) During the development and consideration of a DOE proposal, DOE shall review any relevant planning and decisionmaking documents, whether prepared by DOE or another agency, to determine if the proposal or any of its alternatives are considered in a prior NEPA document. If so, DOE shall consider adopting the existing document, or any pertinent part thereof, in accordance with 40 CFR 1506.3.

§ 1021.210 DOE decisionmaking.

(a) For each DOE proposal, DOE shall coordinate its NEPA review with its decisionmaking. Sections 1021.211 through 1021.214 of this part specify how DOE will coordinate its NEPA review with decision points for certain types of proposals (40 CFR 1505.1(b)).

(b) DOE shall complete its NEPA review for each DOE proposal before making a decision on the proposal (e.g., normally in advance of, and for use in reaching, a decision to proceed with detailed design), except as provided in 40 CFR 1506.1 and §§ 1021.211 and 1021.216 of this part.

(c) During the decisionmaking process for each DOE proposal, DOE shall consider the relevant NEPA documents, public and agency comments (if any) on those documents, and DOE responses to those comments, as part of its consideration of the proposal (40 CFR 1505.1(d)) and shall include such documents, comments, and responses as part of the administrative record (40 CFR 1505.1(c)).

(d) If an EIS or EA is prepared for a DOE proposal, DOE shall consider the alternatives analyzed in that EIS or EA before rendering a decision on that proposal; the decision on the proposal shall be within the range of alternatives analyzed in the EA or EIS (40 CFR 1505.1(e)).

(e) When DOE uses a broad decision (such as one on a policy or program) as a basis for a subsequent narrower decision (such as one on a project or other site-specific proposal), DOE may use tiering (40 CFR 1502.20) and incorporation of material by reference (40 CFR 1502.21) in the NEPA review for the subsequent narrower proposal.

§ 1021.211 Interim actions: Limitations on actions during the NEPA process.

While DOE is preparing an EIS that is required under § 1021.300(a) of this part, DOE shall take no action concerning the proposal that is the subject of the EIS before issuing an ROD, except as provided at 40 CFR 1506.1. Actions that are covered by, or are a part of, a DOE proposal for which an EIS is being prepared shall not be categorically excluded under subpart D of these regulations unless they qualify as interim actions under 40 CFR 1506.1.

§ 1021.212 Research, development, demonstration, and testing.

(a) This section applies to the adoption and application of programs that involve research, development, demonstration, and testing for new technologies (40 CFR 1502.4(c)(3)). Adoption of such programs might also lead to commercialization or other broad-scale implementation by DOE or another entity.

(b) For any proposed program described in paragraph (a) of this section, DOE shall begin its NEPA review (if otherwise required by this part) as soon as environmental effects can be meaningfully evaluated, and before DOE has reached the level of investment or commitment likely to determine subsequent development or restrict later alternatives, as discussed at 40 CFR 1502.4(c)(3).

(c) For subsequent phases of development and application, DOE shall prepare one or more additional NEPA documents (if otherwise required by this part).

§ 1021.213 Rulemaking.

(a) This section applies to regulations promulgated by DOE.

(b) DOE shall begin its NEPA review of a proposed rule (if otherwise required by this part) while drafting the proposed regulation, and as soon as environmental effects can be meaningfully evaluated.

(c) DOE shall include any relevant NEPA documents, public and agency comments (if any) on those documents, and DOE responses to those comments, as part of the administrative record (40 CFR 1505.1(c)).

(d) If an EIS is required, DOE will normally publish the draft EIS at the time it publishes the proposed rule (40 CFR 1502.5(d)). DOE will normally combine any public hearings required for a proposed rule with the public hearings required on the draft EIS under § 1021.313 of this part. The draft EIS need not accompany notices of inquiry or advance notices of proposed rule-making that DOE may use to gather information during early stages of regulation development. When engaged in rulemaking for the purpose of protecting the public health and safety, DOE may issue the final rule simultaneously with publication of the EPA Notice of Availability of the final EIS in accordance with 40 CFR 1506.10(b).

(e) If an EA is required, DOE will normally complete the EA and issue any related FONSI prior to or simultaneously with issuance of the proposed rule; however, if the EA leads to preparation of an EIS, the provisions of paragraph (d) of this section shall apply.

§ 1021.214 Adjudicatory proceedings.

(a) This section applies to DOE proposed actions that involve DOE adjudicatory proceedings, excluding judicial or administrative civil or criminal enforcement actions.

(b) DOE shall complete its NEPA review (if otherwise required by this part) before rendering any final adjudicatory decision. If an EIS is required, the final EIS will normally be completed at the time of or before final staff recommendation, in accordance with 40 CFR 1502.5(c).

(c) DOE shall include any relevant NEPA documents, public and agency comments (if any) on those documents, and DOE responses to those comments, as part of the administrative record (40 CFR 1505.1(c)).

§ 1021.215 Applicant process.

(a) This section applies to actions that involve application to DOE for a permit, license, exemption or allocation, or other similar actions, unless the action is categorically excluded from preparation of an EA or EIS under subpart D of this part.

(b) The applicant shall:

- (1) Consult with DOE as early as possible in the planning process to obtain guidance with respect to the appropriate level and scope of any studies or environmental information that DOE may require to be submitted as part of, or in support of, the application;
- (2) Conduct studies that DOE deems necessary and appropriate to determine the environmental impacts of the proposed action;
- (3) Consult with appropriate Federal, state, regional and local agencies, American Indian tribes and other potentially interested parties during the preliminary planning stages of the proposed action to identify environmental factors and permitting requirements;
- (4) Notify DOE as early as possible of other Federal, state, regional, local or American Indian tribal actions required for project completion to allow DOE to coordinate the

Federal environmental review, and fulfill the requirements of 40 CFR 1506.2 regarding elimination of duplication with state and local procedures, as appropriate;

- (5) Notify DOE of private entities and organizations interested in the proposed undertaking, in order that DOE can consult, as appropriate, with these parties in accordance with 40 CFR 1501.2(d)(2); and
- (6) Notify DOE if, before DOE completes the environmental review, the applicant plans to take an action that is within DOE's jurisdiction that may have an adverse environmental impact or limit the choice of alternatives. If DOE determines that the action would have an adverse environmental impact or would limit the choice of reasonable alternatives under 40 CFR 1506.1(a), DOE will promptly notify the applicant that DOE will take appropriate action to ensure that the objectives and procedures of NEPA are achieved in accordance with 40 CFR 1506.1(b).

(c) For major categories of DOE actions involving a large number of applicants, DOE may prepare and make available generic guidance describing the recommended level and scope of environmental information that applicants should provide.

(d) DOE shall begin its NEPA review (if otherwise required by this part) as soon as possible after receiving an application described in paragraph (a) of this section, and shall independently evaluate and verify the accuracy of information received from an applicant in accordance with 40 CFR 1506.5(a). At DOE's option, an applicant may prepare an EA in accordance with 40 CFR 1506.5(b). If an EIS is prepared, the EIS shall be prepared by DOE or by a contractor that is selected by DOE and that may be funded by the applicant, in accordance with 40 CFR 1506.5(c). The contractor shall provide a disclosure statement in accordance with 40 CFR 1506.5(c), ~~as discussed in § 1021.312(b)(4) of this part~~. DOE shall complete any NEPA documents (or evaluation of any EA prepared by the applicant) before rendering a final decision on the application and shall consider the NEPA document in reaching its decision, as provided in § 1021.210 of this part.

§ 1021.216 Procurement, financial assistance, and joint ventures.

(a) This section applies to DOE competitive and limited-source procurements, to awards of financial assistance by a competitive process, and to joint ventures entered into as a result of competitive solicitations, unless the action is categorically excluded from preparation of an EA or EIS under subpart D of this part. Paragraphs (b), (c), and (i) of this section apply as well to DOE sole-source procurements of sites, systems, or processes, to noncompetitive awards of financial assistance, and to sole-source joint ventures, unless the action is categorically excluded from preparation of an EA or EIS under subpart D of this part.

(b) When relevant in DOE's judgment, DOE shall require that offeror's submit environmental data and analyses as a discrete part of the offeror's proposal. DOE shall specify in its solicitation document the type of information and level of detail for environmental data and analyses so required. The data will be limited to those reasonably available to offerors.

(c) DOE shall independently evaluate and verify the accuracy of environmental data and analyses submitted by offerors.

(d) For offers in the competitive range, DOE shall prepare and consider an environmental critique before the selection.

(e) The environmental critique will be subject to the confidentiality requirements of the procurement process.

(f) The environmental critique will evaluate the environmental data and analyses submitted by offerors; it may also evaluate supplemental information developed by DOE as necessary for a reasoned decision.

(g) The environmental critique will focus on environmental issues that are pertinent to a decision on proposals and will include:

- (1) A brief discussion of the purpose of the procurement and each offer, including any site, system, or process variations among the offers having environmental implications;
- (2) A discussion of the salient characteristics of each offeror's proposed site, system, or process as well as alternative sites, systems, or processes;
- (3) A brief comparative evaluation of the potential environmental impacts of the offers, which will address direct and indirect effects, short-term and long-term effects, proposed mitigation measures, adverse effects that cannot be avoided, areas where important environmental information is incomplete and unavailable, unresolved environmental issues and practicable mitigating measures not included in the offeror's proposal; and
- (4) To the extent known for each offer, a list of Federal, Tribal, state, and local government permits, licenses, and approvals that must be obtained.

(h) DOE shall prepare a publicly available environmental synopsis, based on the environmental critique, to document the consideration given to environmental factors and to record that the relevant environmental consequences of reasonable alternatives have been evaluated in the selection process. The synopsis will not contain business, confidential, trade secret or other information that DOE otherwise would not disclose pursuant to 18 U.S.C. 1905, the confidentiality requirements of the competitive procurement process, 5 U.S.C. 552(b) and 41 U.S.C.423. To assure compliance with this requirement, the synopsis will not contain data or other information that may in any way reveal the identity of offerors. After a selection has been made, the environmental synopsis shall be filed with EPA, shall be made publicly available, and shall be incorporated in any NEPA document prepared under paragraph (i) of this section.

(i) If an EA or EIS is required, DOE shall prepare, consider and publish the EA or EIS in conformance with the CEQ Regulations and other provisions of this part before taking any action pursuant to the contract or award of financial assistance (except as provided at 40 CFR 1506.1 and § 1021.211 of this part). If the NEPA process is not completed before the award of the contract, financial assistance, or joint venture, then the contract, financial assistance, or joint venture shall be contingent on completion of the NEPA process (except as provided at 40 CFR 1506.1 and § 1021.211 of this part). DOE shall phase subsequent contract work to allow the NEPA review process to be completed in advance of a go/no-go decision.

Subpart C—Implementing Procedures

§ 1021.300 General requirements.

(a) DOE shall determine, under the procedures in the CEQ Regulations and this part, whether any DOE proposal:

- (1) Requires preparation of an EIS;
- (2) Requires preparation of an EA; or
- (3) Is categorically excluded from preparation of either an EIS or an EA. DOE shall prepare any pertinent documents as required by NEPA, the CEQ Regulations, or this part.

(b) Notwithstanding any other provision of these regulations, DOE may prepare a NEPA document for any DOE action at any time in order to further the purposes of NEPA. This may be done to analyze the consequences of ongoing activities, support DOE planning, assess the need for mitigation, fully disclose the potential environmental consequences of DOE actions, or for any other reason. Documents prepared under this paragraph shall be prepared in the same manner as DOE documents prepared under paragraph (a) of this section.

§ 1021.301 Agency review and public participation.

(a) DOE shall make its NEPA documents available to other Federal agencies, states, local governments, American Indian tribes, interested groups, and the general public, in accordance with 40 CFR 1506.6, except as provided in § 1021.340 of this part.

(b) Wherever feasible, DOE NEPA documents shall explain technical, scientific, or military terms or measurements using terms familiar to the general public, in accordance with 40 CFR 1502.8.

(c) DOE shall notify the host state and host tribe of a DOE determination to prepare an EA or EIS for a DOE proposal, and may notify any other state or American Indian tribe that, in DOE's judgment, may be affected by the proposal.

(d) DOE shall provide the host state and host tribe with an opportunity to review and comment on any DOE EA prior to DOE's approval of the EA. DOE may also provide any other state or American Indian tribe with the same opportunity if, in DOE's judgment, the state or tribe may be affected by the proposed action. At DOE's discretion, this review period shall be from 14 to 30 days. DOE shall consider all comments received from a state or tribe during the review period before approving or modifying the EA, as appropriate. If all states and tribes afforded this opportunity for preapproval review waive such opportunity, or provide a response before the end of the comment period, DOE may proceed to approve or take other appropriate action on the EA before the end of the review period.

(e) Paragraphs (c) and (d) of this section shall not apply to power marketing actions, such as rate-setting, in which a state or American Indian tribe is a customer, or to any other circumstances where DOE determines that such advance information could create a conflict of interest.

§ 1021.310 Environmental impact statements.

DOE shall prepare and circulate EISs and related RODs in accordance with the requirements of the CEQ Regulations, as supplemented by this subpart. DOE shall include in draft and final

EISs a disclosure statement executed by any contractor (or subcontractor) under contract with DOE to prepare the EIS document, in accordance with 40 CFR 1506.5(c).

§ 1021.311 Notice of intent and scoping.

(a) DOE shall publish an NOI in the FEDERAL REGISTER in accordance with 40 CFR 1501.7 and containing the elements specified in 40 CFR 1508.22 as soon as practicable after a decision is made to prepare an EIS. However, if there will be a lengthy period of time between its decision to prepare an EIS and the time of actual preparation, DOE may defer publication of the NOI until a reasonable time before preparing the EIS, provided that DOE allows a reasonable opportunity for interested parties to participate in the EIS process. Through the NOI, DOE shall invite comments and suggestions on the scope of the EIS. DOE shall disseminate the NOI in accordance with 40 CFR 1506.6.

(b) If there will be a lengthy delay between the time DOE has decided to prepare an EIS and the beginning of the public scoping process, DOE may publish an Advance NOI in the FEDERAL REGISTER to provide an early opportunity to inform interested parties of the pending EIS or to solicit early public comments. This Advance NOI does not serve as a substitute for the NOI provided for in paragraph (a) of this section.

(c) Publication of the NOI in the FEDERAL REGISTER shall begin the public scoping process. The public scoping process for a DOE EIS shall allow a minimum of 30 days for the receipt of public comments.

(d) ~~Except as provided in paragraph (g) of this section,~~ DOE shall hold at least one public scoping meeting as part of the public scoping process for a DOE EIS. DOE shall announce the location, date, and time of public scoping meetings in the NOI or by other appropriate means, such as additional notices in the FEDERAL REGISTER, news releases to the local media, or letters to affected parties. Public scoping meetings shall not be held until at least 15 days after public notification. Should DOE change the location, date, or time of a public scoping meeting, or schedule additional public scoping meetings, DOE shall publicize these changes in the FEDERAL REGISTER or in other ways as appropriate.

(e) In determining the scope of the EIS, DOE shall consider all comments received during the announced comment period held as part of the public scoping process. DOE may also consider comments received after the close of the announced comment period.

(f) A public scoping process is optional for DOE supplemental EISs (40 CFR 1502.9(c)(4)). If DOE initiates a public scoping process for a supplemental EIS, the provisions of paragraphs (a) through (f) of this section shall apply.

§ 1021.312 [Reserved]

§ 1021.313 Public review of environmental impact statements.

(a) The public review and comment period on a DOE draft EIS shall be no less than 45 days (40 CFR 1506.10(c)). The public comment period begins when EPA publishes a Notice of Availability of the document in the FEDERAL REGISTER.

(b) DOE shall hold at least one public hearing on DOE draft EISs. Such public hearings shall be announced at least 15 days in advance. The announcement shall identify the subject of the draft EIS and include the location, date, and time of the public hearings.

(c) DOE shall prepare a final EIS following the public comment period and hearings on the draft EIS. The final EIS shall respond to oral and written comments received during public review of the draft EIS, as provided at 40 CFR 1503.4. In addition to the requirements at 40 CFR 1502.9(b), a DOE final EIS may include any Statement of Findings required by 10 CFR part 1022, “Compliance with Floodplain and Wetland Environmental Review Requirements,” or a Statement of Findings may be issued separately.

(d) DOE shall use appropriate means to publicize the availability of draft and final EISs and the time and place for public hearings on a draft EIS. The methods chosen should focus on reaching persons who may be interested in or affected by the proposal and may include the methods listed in 40 CFR 1506.6(b)(3).

§ 1021.314 Supplemental environmental impact statements.

(a) DOE shall prepare a supplemental EIS if there are substantial changes to the proposal or significant new circumstances or information relevant to environmental concerns, as discussed in 40 CFR 1502.9(c)(1).

(b) DOE may supplement a draft EIS or final EIS at any time, to further the purposes of NEPA, in accordance with 40 CFR 1502.9(c)(2).

(c) When it is unclear whether or not an EIS supplement is required, DOE shall prepare a Supplement Analysis.

- (1) The Supplement Analysis shall discuss the circumstances that are pertinent to deciding whether to prepare a supplemental EIS, pursuant to 40 CFR 1502.9(c).
- (2) The Supplement Analysis shall contain sufficient information for DOE to determine whether:
 - (i) An existing EIS should be supplemented;
 - (ii) A new EIS should be prepared; or
 - (iii) No further NEPA documentation is required.
- (3) DOE shall make the determination and the related Supplement Analysis available to the public for information. Copies of the determination and Supplement Analysis shall be provided upon written request. DOE shall make copies available for inspection in the appropriate DOE public reading room(s) or other appropriate location(s) for a reasonable time.

(d) DOE shall prepare, circulate, and file a supplement to a draft or final EIS in the same manner as any other draft and final EISs, except that scoping is optional for a supplement. If DOE decides to take action on a proposal covered by a supplemental EIS, DOE shall prepare a ROD in accordance with the provisions of § 1021.315 of this part.

(e) When applicable, DOE will incorporate an EIS supplement, or the determination and supporting Supplement Analysis made under paragraph (c) of this section, into any related formal administrative record on the action that is the subject of the EIS supplement or determination (40 CFR 1502.9(c)(3)).

§ 1021.315 Records of decision.

(a) No decision may be made on a proposal covered by an EIS during a 30-day “waiting period” following completion of the final EIS, except as provided at 40 CFR 1506.1 and 1506.10(b) and § 1021.211 of this part. The 30-day period starts when the EPA Notice of Availability for the final EIS is published in the FEDERAL REGISTER.

(b) If DOE decides to take action on a proposal covered by an EIS, a ROD shall be prepared as provided at 40 CFR 1505.2 (except as provided at 40 CFR 1506.1 and § 1021.211 of this part).

(c) DOE RODs shall be published in the FEDERAL REGISTER and made available to the public as specified in 40 CFR 1506.6, except as provided in 40 CFR 1507.3(c) and § 1021.340 of this part.

(d) No action shall be taken until the decision has been made public. DOE may implement the decision before the ROD is published in the FEDERAL REGISTER if the ROD has been signed and the decision and the availability of the ROD have been made public by other means (e.g., press release, announcement in local media).

(e) DOE may revise a ROD at any time, so long as the revised decision is adequately supported by an existing EIS. A revised ROD is subject to the provisions of paragraphs (b), (c), and (d) of this section.

§ 1021.320 Environmental assessments.

DOE shall prepare and circulate EAs and related FONSI in accordance with the requirements of the CEQ Regulations, as supplemented by this subpart.

§ 1021.321 Requirements for environmental assessments.

(a) *When to prepare an EA.* As required by 40 CFR 1501.4(b), DOE shall prepare an EA for a proposed DOE action that is described in the classes of actions listed in appendix C to subpart D of this part, and for a proposed DOE action that is not described in any of the classes of actions listed in appendices A, B, or D to subpart D, except that an EA is not required if DOE has decided to prepare an EIS. DOE may prepare an EA on any action at any time in order to assist agency planning and decisionmaking.

(b) *Purposes.* A DOE EA shall serve the purposes identified in 40 CFR 1508.9(a), which include providing sufficient evidence and analysis for determining whether to prepare an EIS or to issue a FONSI. If appropriate, a DOE EA shall also include any floodplain/ wetlands assessment prepared under 10 CFR part 1022 and may include analyses needed for other environmental determinations.

(c) *Content.* A DOE EA shall comply with the requirements found at 40 CFR 1508.9. In addition to any other alternatives, DOE shall assess the no action alternative in an EA, even when the proposed action is specifically required by legislation or a court order.

§ 1021.322 Findings of no significant impact.

(a) DOE shall prepare a FONSI only if the related EA supports the finding that the proposed action will not have a significant effect on the human environment. If a required DOE EA does not support a FONSI, DOE shall prepare an EIS and issue a ROD before taking action on the proposal addressed by the EA, except as permitted under 40 CFR 1506.1 and § 1021.211 of this part.

(b) In addition to the requirements found at 40 CFR 1508.13, a DOE FONSI shall include the following:

- (1) Any commitments to mitigations that are essential to render the impacts of the proposed action not significant, beyond those mitigations that are integral elements of the proposed action, and a reference to the Mitigation Action Plan prepared under § 1021.331 of this part;
- (2) Any “Statement of Findings” required by 10 CFR part 1022, “Compliance with Floodplain/Wetlands Environmental Review Requirements”;
- (3) The date of issuance; and
- (4) The signature of the DOE approving official.

(c) DOE shall make FONSIIs available to the public as provided at 40 CFR 1501.4(e)(1) and 1506.6; DOE shall make copies available for inspection in the appropriate DOE public reading room(s) or other appropriate location(s) for a reasonable time.

(d) DOE shall issue a proposed FONSI for public review and comment before making a final determination on the FONSI if required by 40 CFR 1501.4(e)(2); DOE may issue a proposed FONSI for public review and comment in other situations as well.

(e) Upon issuance of the FONSI, DOE may proceed with the proposed action subject to any mitigation commitments expressed in the FONSI that are essential to render the impacts of the proposed action not significant.

(f) DOE may revise a FONSI at any time, so long as the revision is supported by an existing EA. A revised FONSI is subject to all provisions ~~of paragraph (d)~~ of this section.

§ 1021.330 Programmatic (including site-wide) NEPA documents.

(a) When required to support a DOE programmatic decision (40 CFR 1508.18(b)(3)), DOE shall prepare a programmatic EIS or EA (40 CFR 1502.4). DOE may also prepare a programmatic EIS or EA at any time to further the purposes of NEPA.

(b) A DOE programmatic NEPA document shall be prepared, issued, and circulated in accordance with the requirements for any other NEPA document, as established by the CEQ Regulations and this part.

(c) As a matter of policy when not otherwise required, DOE shall prepare site-wide EISs for certain large, multiple-facility DOE sites; DOE may prepare EISs or EAs for other sites to assess the impacts of all or selected functions at those sites.

(d) DOE shall evaluate site wide NEPA documents prepared under § 1021.330(c) at least every five years. DOE shall evaluate site-wide EISs by means of a Supplement Analysis, as provided in § 1021.314. Based on the Supplement Analysis, DOE shall determine whether the existing EIS remains adequate or whether to prepare a new site-wide EIS or supplement the existing EIS, as appropriate. The determination and supporting analysis shall be made available in the appropriate DOE public reading room(s) or in other appropriate location(s) for a reasonable time.

(e) DOE shall evaluate site-wide EAs by means of an analysis similar to the Supplement Analysis to determine whether the existing site-wide EA remains adequate, whether to prepare a

new site-wide EA, revise the FONSI, or prepare a site wide EIS, as appropriate. The determination and supporting analysis shall be made available in the appropriate DOE public reading room(s) or in other appropriate location(s) for a reasonable time.

§ 1021.331 Mitigation action plans.

(a) Following completion of each EIS and its associated ROD, DOE shall prepare a Mitigation Action Plan that addresses mitigation commitments expressed in the ROD. The Mitigation Action Plan shall explain how the corresponding mitigation measures, designed to mitigate adverse environmental impacts associated with the course of action directed by the ROD, will be planned and implemented. The Mitigation Action Plan shall be prepared before DOE takes any action directed by the ROD that is the subject of a mitigation commitment.

(b) In certain circumstances, as specified in § 1021.322(b)(~~2~~1), DOE shall also prepare a Mitigation Action Plan for commitments to mitigations that are essential to render the impacts of the proposed action not significant. The Mitigation Action Plan shall address all commitments to such necessary mitigations and explain how mitigation will be planned and implemented. The Mitigation Action Plan shall be prepared before the FONSI is issued and shall be referenced therein.

(c) Each Mitigation Action Plan shall be as complete as possible, commensurate with the information available regarding the course of action either directed by the ROD or the action to be covered by the FONSI, as appropriate. DOE may revise the Plan as more specific and detailed information becomes available.

(d) DOE shall make copies of the Mitigation Action Plans available for inspection in the appropriate DOE public reading room(s) or other appropriate location(s) for a reasonable time. Copies of the Mitigation Action Plans shall also be available upon written request.

§ 1021.340 Classified, confidential, and otherwise exempt information.

(a) Notwithstanding other sections of this part, DOE shall not disclose classified, confidential, or other information that DOE otherwise would not disclose pursuant to the Freedom of Information Act (FOIA) (5 U.S.C. 552) and 10 CFR 1004.10(b) of DOE's regulations implementing the FOIA, except as provided by 40 CFR 1506.6(f).

(b) To the fullest extent possible, DOE shall segregate any information that is exempt from disclosure requirements into an appendix to allow public review of the remainder of a NEPA document.

(c) If exempt information cannot be segregated, or if segregation would leave essentially meaningless material, DOE shall withhold the entire NEPA document from the public; however, DOE shall prepare the NEPA document, in accordance with the CEQ Regulations and this part, and use it in DOE decisionmaking.

§ 1021.341 Coordination with other environmental review requirements.

(a) In accordance with 40 CFR 1500.4(k) and (o), 1502.25, and 1506.4, DOE shall integrate the NEPA process and coordinate NEPA compliance with other environmental review requirements to the fullest extent possible.

(b) To the extent possible, DOE shall determine the applicability of other environmental requirements early in the planning process, in consultation with other agencies when necessary or

appropriate, to ensure compliance and to avoid delays, and shall incorporate any relevant requirements as early in the NEPA review process as possible.

§ 1021.342 Interagency cooperation.

For DOE programs that involve another Federal agency or agencies in related decisions subject to NEPA, DOE will comply with the requirements of 40 CFR 1501.5 and 1501.6. As part of this process, DOE shall cooperate with the other agencies in developing environmental information and in determining whether a proposal requires preparation of an EIS or EA, or can be categorically excluded from preparation of either. Further, where appropriate and acceptable to the other agencies, DOE shall develop or cooperate in the development of interagency agreements to facilitate coordination and to reduce delay and duplication.

§ 1021.343 Variances.

(a) *Emergency actions.* DOE may take an action without observing all provisions of this part or the CEQ Regulations, in accordance with 40 CFR 1506.11, in emergency situations that demand immediate action. DOE shall consult with CEQ as soon as possible regarding alternative arrangements for emergency actions having significant environmental impacts. DOE shall document, including publishing a notice in the FEDERAL REGISTER, emergency actions covered by this paragraph within 30 days after such action occurs; this documentation shall identify any adverse impacts from the actions taken, further mitigation necessary, and any NEPA documents that may be required.

(b) *Reduction of time periods.* On a case-by-case basis, DOE may reduce time periods established in this part that are not required by the CEQ Regulations. If DOE determines that such reduction is necessary, DOE shall publish a notice in the FEDERAL REGISTER specifying the revised time periods and the rationale for the reduction.

(c) *Other.* Any variance from the requirements of this part, other than as provided by paragraphs (a) and (b) of this section, must be soundly based on the interests of national security or the public health, safety, or welfare and must have the advance written approval of the Secretary; however, the Secretary is not authorized to waive or grant a variance from any requirement of the CEQ Regulations (except as provided for in those regulations). If the Secretary determines that a variance from the requirements of this part is within his/her authority to grant and is necessary, DOE shall publish a notice in the FEDERAL REGISTER specifying the variance granted and the reasons.

Subpart D—Typical Classes of Actions

§ 1021.400 Level of NEPA review.

(a) This subpart identifies DOE actions that normally:

- (1) Do not require preparation of either an EIS or an EA (are categorically excluded from preparation of either document) (appendices A and B to this subpart D);
- (2) Require preparation of an EA, but not necessarily an EIS (appendix C to this subpart D); or
- (3) Require preparation of an EIS (appendix D to this subpart D).

(b) Any completed, valid NEPA review does not have to be repeated, and no completed NEPA documents need to be redone by reasons of these regulations, except as provided in § 1021.314.

(c) If a DOE proposal is encompassed within a class of actions listed in the appendices to this subpart D, DOE shall proceed with the level of NEPA review indicated for that class of actions, unless there are extraordinary circumstances related to the specific proposal that may affect the significance of the environmental effects of the proposal.

(d) If a DOE proposal is not encompassed within the classes of actions listed in the appendices to this subpart D, or if there are extraordinary circumstances related to the proposal that may affect the significance of the environmental effects of the proposal, DOE shall either:

- (1) Prepare an EA and, on the basis of that EA, determine whether to prepare an EIS or a FONSI; or
- (2) Prepare an EIS and ROD.

§ 1021.410 Application of categorical exclusions (classes of actions that normally do not require EAs or EISs).

(a) The actions listed in appendices A and B to this subpart D are classes of actions that DOE has determined do not individually or cumulatively have a significant effect on the human environment (categorical exclusions).

(b) To find that a proposal is categorically excluded, DOE shall determine the following:

- (1) The proposal fits within a class of actions that is listed in appendix A or B to this subpart D;
- (2) There are no extraordinary circumstances related to the proposal that may affect the significance of the environmental effects of the proposal. Extraordinary circumstances are unique situations presented by specific proposals, ~~such as including, but not limited to,~~ scientific controversy about the environmental effects of the proposal; uncertain effects or effects involving unique or unknown risks; ~~or and~~ unresolved conflicts concerning ~~alternate-alternative~~ uses of available resources ~~within the meaning of section 102(2)(E) of NEPA;~~ and
- (3) ~~The proposal has not been segmented to meet the definition of a categorical exclusion. Segmentation can occur when a proposal is broken down into small parts in order to avoid the appearance of significance of the total action. The scope of a proposal must include the consideration of connected and cumulative actions, that is, t~~The proposal is not ~~“connected” (40 CFR 1508.25(a)(1))~~ to other actions with potentially significant impacts (40 CFR 1508.25(a)(1)), is not related to other ~~proposed~~ actions with ~~individually insignificant but~~ cumulatively significant impacts (40 CFR 1508.2527(ab)(27)), and is not precluded by 40 CFR 1506.1 or § 1021.211 of this part concerning limitations on actions during EIS preparation.

(c) All categorical exclusions may be applied by any organizational element of DOE. The sectional divisions in appendix B to this subpart D are solely for purposes of organization of that appendix and are not intended to be limiting.

(d) A class of actions includes activities foreseeably necessary to proposals encompassed within the class of actions (such as ~~associated transportation activities and~~ award of implementing

grants and contracts, site preparation, purchase and installation of equipment, and associated transportation activities).

(e) Categorical exclusion determinations for actions listed in appendix B shall be documented and made available to the public by posting online, generally within two weeks of the determination, unless additional time is needed in order to review and protect classified information, “confidential business information,” or other information that DOE would not disclose pursuant to the Freedom of Information Act (FOIA) (5 U.S.C. 552). Posted categorical exclusion determinations shall not disclose classified information, “confidential business information,” or other information that DOE would not disclose pursuant to FOIA. (See also 10 CFR 1021.340.)

(f) Proposed recurring activities to be undertaken during a specified time period, such as routine maintenance activities for a year, may be addressed in a single categorical exclusion determination after considering the potential aggregated impacts.

(g) The following clarifications are provided to assist in the appropriate application of categorical exclusions that employ the terms or phrases:

- (1) “Previously disturbed or developed” refers to land that has been changed such that its functioning ecological processes have been and remain altered by human activity. The phrase encompasses areas that have been transformed from natural cover to non-native species or a managed state, including, but not limited to, utility and electric power transmission corridors and rights-of-way, and other areas where active utilities and currently used roads are readily available.
- (2) DOE considers terms such as “small” and “small-scale” in the context of the particular proposal, including its proposed location. In assessing whether a proposed action is small, in addition to the actual magnitude of the proposal, DOE considers factors such as industry norms, the relationship of the proposed action to similar types of development in the vicinity of the proposed action, and expected outputs of emissions or waste. When considering the physical size of a proposed facility, for example, DOE would review the surrounding land uses, the scale of the proposed facility relative to existing development, and the capacity of existing roads and other infrastructure to support the proposed action.

Appendix A to Subpart D of Part 1021—Categorical Exclusions Applicable to General Agency Actions

Table of Contents

A1	Routine DOE business actions
A2	Clarifying or administrative contract actions
A3	Certain actions by Office of Hearings and Appeals
A4	Interpretations and rulings for existing regulations
A5	Interpretive rulemakings with no change in environmental effect
A6	Procedural rulemakings
A7	[Reserved]

- A8 Awards of certain contracts
- A9 Information gathering, analysis, and dissemination
- A10 Reports and recommendations on non-DOE legislation
- A11 Technical advice and assistance to organizations
- A12 Emergency preparedness planning
- A13 Procedural documents
- A14 Approval of technical exchange arrangements
- A15 International agreements for energy research and development

~~A1.—Routine administrative/financial/personnel actions—~~

~~A2.—Contract interpretations/amendments/ modifications, clarifying or administrative—~~

~~A3.—Certain actions by Office of Hearings and Appeals—~~

~~A4.—Interpretations/rulings for existing regulations—~~

~~A5.—Rulemaking (interpreting/amending), no change in environmental effect—~~

~~A6.—Rulemakings, procedural—~~

~~A7.—Transfer of property, use unchanged—~~

~~A8.—Award of contracts for technical support/management and operation/personal services—~~

~~A9.—Information gathering/data analysis/document preparation/dissemination~~

~~A10.—Reports or recommendations on non-DOE legislation~~

~~A11.—Technical advice and assistance to organizations~~

~~A12.—Emergency preparedness planning~~

~~A13.—Procedural Orders, Notices, and guidelines~~

~~A14.—Approval of technical exchange arrangements~~

~~A15.—Umbrella agreements for cooperation in energy research and development—~~

A1 Routine DOE business actions

Routine actions necessary to support the normal conduct of ~~agency~~ DOE business, ~~such as~~ limited to administrative, financial, and personnel actions.

A2 Clarifying or administrative contract actions

Contract interpretations, amendments, and modifications that are clarifying or administrative in nature.

A3 Certain actions by Office of Hearings and Appeals

Adjustments, exceptions, exemptions, appeals, and stays, modifications, or rescissions of orders issued by the Office of Hearings and Appeals.

A4 Interpretations and rulings for existing regulations

Interpretations and rulings with respect to existing regulations, or modifications or rescissions of such interpretations and rulings.

A5 Interpretive rulemakings with no change in environmental effect

Rulemakings interpreting or amending an existing rule or regulation that does not change the environmental effect of the rule or regulation being amended.

A6 Procedural rulemakings

Rulemakings that are strictly procedural, ~~such as including~~, but not limited to, rulemaking (under 48 CFR ~~part~~ chapter 9) establishing procedures for technical and pricing proposals and establishing contract clauses and contracting practices for the purchase of goods and services, and rulemaking (under 10 CFR part 600) establishing application and review procedures for, and administration, audit, and closeout of, grants and cooperative agreements.

A7 ~~[Reserved] Transfer, lease, disposition, or acquisition of interests in personal property (e.g., equipment and materials) or real property (e.g., permanent structures and land), if property use is to remain unchanged; i.e., the type and magnitude of impacts would remain essentially the same.~~

A8 Awards of certain contracts

Awards of contracts for technical support services, management and operation of a government-owned facility, and personal services.

A9 Information gathering, analysis, and dissemination

Information gathering (including, but not limited to, literature surveys, inventories, ~~site visits, and~~ audits), data analysis (including, but not limited to, computer modelling), document preparation (~~such as including~~, but not limited to, conceptual design, ~~or~~ feasibility studies, and analytical energy supply and demand studies), and information dissemination (including, but not limited to, document ~~mailings~~, publication, and distribution, and classroom training and informational programs), but not including site characterization or environmental monitoring. (See ~~Also also see~~ B3.1 of appendix B to this subpart.)

A10 Reports and recommendations on non-DOE legislation

Reports ~~or~~ and recommendations on legislation or rulemaking that ~~is~~ are not proposed by DOE.

A11 Technical advice and assistance to organizations

Technical advice and planning assistance to international, national, state, and local organizations.

A12 Emergency preparedness planning

Emergency preparedness planning activities, including, but not limited to, the designation of onsite evacuation routes.

A13 Procedural Documents

Administrative, organizational, or procedural **Policies**, Orders, Notices, **Manuals**, and **guidelines**Guides.

A14 Approval of technical exchange arrangements

Approval of technical exchange arrangements for information, data, or personnel with other countries or international organizations; (including, but not limited to, assistance in identifying and analyzing another country’s energy resources, needs and options).

A15 International agreements for energy research and development

Approval of DOE participation in international “umbrella” agreements for cooperation in energy research and development activities that would not commit the U.S. to any specific projects or activities.

Appendix B to Subpart D of Part 1021—Categorical Exclusions Applicable to Specific Agency Actions

Table of Contents

B. Conditions that Are Integral Elements of the Classes of Actions in Appendix B

B1. Categorical Exclusions Applicable to Facility Operation

- B1.1 Changing rates and prices
- B1.2 Training exercises and simulations
- B1.3 Routine maintenance
- B1.4 Air conditioning systems for existing equipment
- B1.5 Existing steam plants and cooling water systems
- B1.6 Tanks and equipment to control runoff and spills
- B1.7 Electronic equipment
- B1.8 Screened water intake and outflow structures
- B1.9 Airway safety markings and painting
- B1.10 Onsite storage of activated material
- B1.11 Fencing
- B1.12 Detonation or burning of explosives or propellants after testing
- B1.13 Pathways, short access roads, and rail lines
- B1.14 Refueling of nuclear reactors
- B1.15 Support buildings
- B1.16 Asbestos removal
- B1.17 Polychlorinated biphenyl removal
- B1.18 Water supply wells
- B1.19 Microwave, meteorological, and radio towers
- B1.20 Protection of cultural resources, fish and wildlife habitat
- B1.21 Noise abatement
- B1.22 Relocation of buildings
- B1.23 Demolition and disposal of buildings
- B1.24 Property transfers

- B1.25 Real property transfers for cultural resources protection, habitat preservation, and wildlife management
- B1.26 Small water treatment facilities
- B1.27 Disconnection of utilities
- B1.28 Placing a facility in an environmentally safe condition
- B1.29 Disposal facilities for construction and demolition waste
- B1.30 Transfer actions
- B1.31 Installation or relocation of machinery and equipment
- B1.32 Traffic flow adjustments
- B1.33 Stormwater runoff control
- B1.34 Lead-based paint containment, removal, and disposal
- B1.35 Drop-off, collection, and transfer facilities for recyclable materials
- B1.36 Determinations of excess real property

B2. Categorical Exclusions Applicable to Safety and Health

- B2.1 Workplace enhancements
- B2.2 Building and equipment instrumentation
- B2.3 Personnel safety and health equipment
- B2.4 Equipment qualification
- B2.5 Facility safety and environmental improvements
- B2.6 Recovery of radioactive sealed sources

B3. Categorical Exclusions Applicable to Site Characterization, Monitoring, and General Research

- B3.1 Site characterization and environmental monitoring
- B3.2 Aviation activities
- B3.3 Research related to conservation of fish, wildlife, and cultural resources
- B3.4 Transport packaging tests for radioactive or hazardous material
- B3.5 Tank car tests
- B3.6 Small-scale research and development, laboratory operations, and pilot projects
- B3.7 New terrestrial infill exploratory and experimental wells
- B3.8 Outdoor terrestrial ecological and environmental research
- B3.9 Projects to reduce emissions and waste generation
- B3.10 Particle accelerators
- B3.11 Outdoor tests and experiments on materials and equipment components
- B3.12 Microbiological and biomedical facilities
- B3.13 Magnetic fusion experiments
- B3.14 Small-scale educational facilities
- B3.15 Small-scale indoor research and development projects using nanoscale materials
- B3.16 Research activities in aquatic environments

B4. Categorical Exclusions Applicable to Electric Power and Transmission

- B4.1 Contracts, policies, and marketing and allocation plans for electric power
- B4.2 Export of electric energy
- B4.3 Electric power marketing rate changes

- B4.4 Power marketing services and activities
- B4.5 Temporary adjustments to river operations
- B4.6 Additions and modifications to transmission facilities
- B4.7 Fiber optic cable
- B4.8 Electricity transmission agreements
- B4.9 Multiple use of powerline rights-of-way
- B4.10 Removal of electric transmission facilities
- B4.11 Electric power substations and interconnection facilities
- B4.12 Construction of powerlines
- B4.13 Upgrading and rebuilding existing powerlines

B5. Categorical Exclusions Applicable to Conservation, Fossil, and Renewable Energy Activities

- B5.1 Actions to conserve energy or water
- B5.2 Modifications to pumps and piping
- B5.3 Modification or abandonment of wells
- B5.4 Repair or replacement of pipelines
- B5.5 Short pipeline segments
- B5.6 Oil spill cleanup
- B5.7 Import or export natural gas, with operational changes
- B5.8 Import or export natural gas, with new cogeneration powerplant
- B5.9 Temporary exemptions for electric powerplants
- B5.10 Certain permanent exemptions for existing electric powerplants
- B5.11 Permanent exemptions allowing mixed natural gas and petroleum
- B5.12 Workover of existing wells
- B5.13 Experimental wells for injection of small quantities of carbon dioxide
- B5.14 Combined heat and power or cogeneration systems
- B5.15 Small-scale renewable energy research and development and pilot projects
- B5.16 Solar photovoltaic systems
- B5.17 Solar thermal systems
- B5.18 Wind turbines
- B5.19 Ground source heat pumps
- B5.20 Biomass power plants
- B5.21 Methane gas recovery and utilization systems
- B5.22 Alternative fuel vehicle fueling stations
- B5.23 Electric vehicle charging stations
- B5.24 Drop-in hydroelectric systems
- B5.25 Small-scale renewable energy research and development and pilot projects in aquatic environments

B6. Categorical Exclusions Applicable to Environmental Restoration and Waste Management Activities

- B6.1 Cleanup actions
- B6.2 Waste collection, treatment, stabilization, and containment facilities
- B6.3 Improvements to environmental control systems
- B6.4 Facilities for storing packaged hazardous waste for 90 days or less

- B6.5 Facilities for characterizing and sorting packaged waste and overpacking waste
- B6.6 Modification of facilities for storing, packaging, and repacking waste
- B6.7 [Reserved]
- B6.8 Modifications for waste minimization and reuse of materials
- B6.9 Measures to reduce migration of contaminated groundwater
- B6.10 Upgraded or replacement waste storage facilities

B7. Categorical Exclusions Applicable to International Activities

- B7.1 Emergency measures under the International Energy Program
- B7.2 Import and export of special nuclear or isotopic materials

~~**B—Conditions that are integral elements of the classes of actions in appendix B**~~

~~**B1—Categorical exclusions applicable to facility operation**~~

~~**B1.1—Rate increases less than inflation (not power marketing, but see B4.3)**~~

~~**B1.2—Training exercises and simulation**~~

~~**B1.3—Routine maintenance/eustodial services for buildings, structures, infrastructures, equipment—**~~

~~**B1.4—Installation/modification of air conditioning systems for existing equipment**~~

~~**B1.5—Improvements to cooling water systems within existing building, structure—**~~

~~**B1.6—Installation/modification of retention tanks, small basins to control runoff, spills—**~~

~~**B1.7—Acquisition/installation/operation/removal of communication systems, data processing equipment—**~~

~~**B1.8—Modifications to screened water intake/outflow structures—**~~

~~**B1.9—Placement of airway safety markings/ painting (not lighting) of existing lines, antennas—**~~

~~**B1.10—Routine onsite storage of activated material at existing facility**~~

~~**B1.11—Fencing, no adverse effect on wildlife movement/surface water flow**~~

~~**B1.12—Detonation/burning of failed/damaged high explosives or propellants—**~~

~~**B1.13—Construction/acquisition/relocation of onsite pathways, short onsite access roads/railroads—**~~

~~**B1.14—Refueling of a nuclear reactor—**~~

~~**B1.15—Siting/construction/operation of support buildings/support structures—**~~

~~**B1.16—Removal of asbestos from buildings—**~~

~~**B1.17—Removal of polychlorinated biphenyl-containing items from buildings, other aboveground locations—**~~

- ~~B1.18 Siting/construction/operation of additional/replacement water supply wells~~
- ~~B1.19 Siting/construction/operation of microwave/radio communication towers~~
- ~~B1.20 Protect/restore/improve fish and wildlife habitat~~
- ~~B1.21 Noise abatement~~
- ~~B1.22 Relocation of buildings~~
- ~~B1.23 Demolition/disposal of buildings~~
- ~~B1.24 Transfer of structures/residential, commercial, industrial use~~
- ~~B1.25 Transfer of land/habitat preservation, wildlife management~~
- ~~B1.26 Siting/construction/operation/decommissioning of small water treatment facilities, less than approximately 250,000 gallons per day capacity~~
- ~~B1.27 Disconnection of utilities~~
- ~~B1.28 Minor activities to place a facility in an environmentally safe condition, no proposed uses~~
- ~~B1.29 Siting/construction/operation/decommissioning of small onsite disposal facility for construction and demolition waste~~
- ~~B1.30 Transfer actions~~
- ~~B1.31 Relocation/operation of machinery and equipment~~
- ~~B1.32 Traffic flow adjustments, existing roads~~
- ~~B2 — Categorical exclusions applicable to safety and health~~
- ~~B2.1 — Modifications to enhance workplace habitability~~
- ~~B2.2 — Installation of/improvements to building/equipment instrumentation (remote controls, emergency warning systems, monitors)~~
- ~~B2.3 — Installation of equipment for personnel safety and health~~
- ~~B2.4 — Equipment Qualification Programs~~
- ~~B2.5 — Safety and environmental improvements of a facility, replacement/upgrade of facility components~~
- ~~B2.6 — Packaging/transportation/storage of radioactive sources upon request by the Nuclear Regulatory Commission or other cognizant agency~~
- ~~B3 — Categorical exclusions applicable to site characterization, monitoring, and general research~~
- ~~B3.1 — Site characterization/environmental monitoring~~
- ~~B3.2 — Aviation activities for survey/monitoring/security~~
- ~~B3.3 — Research related to conservation of fish and wildlife~~
- ~~B3.4 — Transport packaging tests for radioactive/hazardous material~~
- ~~B3.5 — Tank car tests~~

- ~~B3.6—Siting/construction/operation/decommissioning of facilities for bench-scale research, conventional laboratory operations, small-scale research and development and pilot projects—~~
- ~~B3.7—Siting/construction/operation of new infill exploratory, experimental oil/gas/geothermal wells—~~
- ~~B3.8—Outdoor ecological/environmental research in small area—~~
- ~~B3.9—Certain Clean Coal Technology Demonstration Program activities—~~
- ~~B3.10—Siting/construction/operation/decommissioning of particle accelerators, including electron beam accelerators, primary beam energy less than approximately 100 MeV—~~
- ~~B3.11—Outdoor tests, experiments on materials and equipment components, no source, special nuclear, or byproduct materials involved—~~
- ~~B3.12—Siting/construction/operation/decommissioning of microbiological and biomedical facilities—~~
- ~~B3.13—Magnetic fusion experiments, no tritium fuel use—~~
- ~~B4—Categorical exclusions applicable to Power Marketing Administrations and to all of DOE with regard to power resources—~~
- ~~B4.1—Contracts/marketing plans/policies for excess electric power.~~
- ~~B4.2—Export of electric energy.~~
- ~~B4.3—Electric power marketing rate changes, within normal operating limits.~~
- ~~B4.4—Power marketing services within normal operating limits—~~
- ~~B4.5—Temporary adjustments to river operations within existing operating constraints—~~
- ~~B4.6—Additions/modifications to electric power transmission facilities within previously developed area.~~
- ~~B4.7—Adding/burying fiber optic cable—~~
- ~~B4.8—New electricity transmission agreements for transfer of power—~~
- ~~B4.9—Multiple use of DOE transmission line rights-of-way—~~
- ~~B4.10—Deactivation, dismantling and removal of electric powerlines and substations.~~
- ~~B4.11—Construction or modification of electric power substations.~~
- ~~B4.12—Construction of electric powerlines approximately 10 miles in length or less, not integrating major new sources.~~
- ~~B4.13—Reconstruction and minor relocation of existing electric powerlines approximately 20 miles in length or less.~~
- ~~B5—Categorical exclusions applicable to conservation, fossil, and renewable energy activities—~~
- ~~B5.1—Actions to conserve energy—~~
- ~~B5.2—Modifications to oil/gas/geothermal pumps and piping—~~

- ~~B5.3—Modification (not expansion)/abandonment of oil storage access/brine injection/gas/geothermal wells, not part of site closure—~~
- ~~B5.4—Repair/replacement of sections of pipeline within maintenance provisions—~~
- ~~B5.5—Construction/operation of short crude oil/gas/steam/geothermal pipeline segments—~~
- ~~B5.6—Oil spill cleanup operations—~~
- ~~B5.7—Import/export natural gas, no new construction—~~
- ~~B5.8—Import/export natural gas, new cogeneration powerplant—~~
- ~~B5.9—Temporary exemption for any electric powerplant—~~
- ~~B5.10—Certain permanent exemptions for any existing electric powerplant—~~
- ~~B5.11—Permanent exemption for mixed natural gas and petroleum—~~
- ~~B5.12—Workover of existing oil/gas/geothermal well—~~
- ~~B6—Categorical exclusions applicable to environmental restoration and waste management activities—~~
- ~~B6.1—Small-scale, short-term cleanup actions under RCRA, Atomic Energy Act, or other authorities—~~
- ~~B6.2—Siting/construction/operation of pilot-scale waste collection/treatment/stabilization/containment facilities—~~
- ~~B6.3—Improvements to environmental control systems—~~
- ~~B6.4—Siting/construction/operation/decommissioning of facility for storing packaged hazardous waste for 90 days or less—~~
- ~~B6.5—Siting/construction/operation/decommissioning of facility for characterizing/sorting packaged waste, overpacking waste—~~
- ~~B6.6—Modification of facility for storing, packaging, repacking waste (not high-level, spent nuclear fuel)—~~
- ~~B6.7—Granting/denying petitions for allocation of commercial disposal capacity—~~
- ~~B6.8—Modifications for waste minimization/ reuse of materials—~~
- ~~B6.9—Small-scale temporary measures to reduce migration of contaminated groundwater—~~
- ~~B6.10—Siting/construction/operation/decommissioning of small upgraded or replacement waste storage facilities—~~
- ~~B7—Categorical exclusions applicable to international activities—~~
- ~~B7.1—Emergency measures under the International Energy Program—~~
- ~~B7.2—Import/export of special nuclear or isotopic materials—~~

B. Conditions That Are Integral Elements of the Classes of Actions in Appendix B

~~B.~~—The classes of actions listed below include the following conditions as integral elements of the classes of actions. To fit within the classes of actions listed below, a proposal must be one that would not:

- (1) Threaten a violation of applicable statutory, regulatory, or permit requirements for environment, safety, and health, ~~including or similar~~ requirements of DOE ~~and/or~~ Executive Orders;
- (2) Require siting and construction or major expansion of waste storage, disposal, recovery, or treatment facilities (including incinerators), but the proposal may include categorically excluded waste storage, disposal, recovery, or treatment actions ~~or facilities~~;
- (3) Disturb hazardous substances, pollutants, contaminants, or CERCLA-excluded petroleum and natural gas products that preexist in the environment such that there would be uncontrolled or unpermitted releases; ~~or~~
- (4) ~~Have the potential to cause significant impacts on Adversely affect~~ environmentally sensitive resources. ~~An environmentally sensitive resource is typically a resource that has been identified as needing protection through Executive Order, statute, or regulation by Federal, state, or local government, or a Federally recognized Indian tribe.~~ An action may be categorically excluded if, although sensitive resources are present ~~on a site~~, the action would not ~~have the potential to cause significant impacts on adversely affect~~ those resources (~~e.g., such as~~ ~~—~~construction of a building with its foundation well above a sole-source aquifer or upland surface soil removal on a site that has wetlands). Environmentally sensitive resources include, but are not limited to:
 - (i) Property (~~e.g., such as~~ sites, buildings, structures, ~~and~~ objects) of historic, archeological, or architectural significance designated by a Federal, state, or local government, ~~s or~~ ~~Federally recognized Indian tribe, or Native Hawaiian organization, or property determined to be~~ eligible for listing on the National Register of Historic Places;
 - (ii) Federally-listed threatened or endangered species or their habitat (including critical habitat); ~~or~~ Federally-proposed or candidate species or their habitat (~~Endangered Species Act~~); ~~or~~ state-listed ~~or state-proposed~~ endangered or threatened species or their habitat; ~~Federally-protected marine mammals and Essential Fish Habitat (Marine Mammal Protection Act; Magnuson-Stevens Fishery Conservation and Management Act); and otherwise Federally-protected species (such as under the Bald and Golden Eagle Protection Act or the Migratory Bird Treaty Act);~~
 - (iii) ~~Wetlands-Floodplains and wetlands (as defined in 10 CFR 1022.4, “Compliance with Floodplain and Wetland Environmental Review Requirements: Definitions,” or its successor); regulated under the Clean Water Act (33 U.S.C. 1344) and floodplains;~~
 - (iv) Areas having a special designation such as Federally- and state-designated wilderness areas, national parks, national ~~monuments, national~~ natural landmarks, wild and scenic rivers, state and Federal wildlife refuges, ~~scenic areas (such as National Scenic and Historic Trails or National Scenic Areas)~~, and marine sanctuaries;

- (v) Prime or unique ~~agricultural~~ farmland, or other farmland of statewide or local importance, as defined at 7 CFR 658.2(a), “Farmland Protection Policy Act: Definitions,” or its successors;—
 - (vi) Special sources of water (such as sole-source aquifers, wellhead protection areas, and other water sources that are vital in a region); and
 - (vii) Tundra, coral reefs, or rain forests; or
- (5) Involve genetically engineered organisms, synthetic biology, governmentally designated noxious weeds, or invasive species, unless the proposed activity would be contained or confined in a manner designed and operated to prevent unauthorized release into the environment and conducted in accordance with applicable requirements, such as those of the Department of Agriculture, the Environmental Protection Agency, and the National Institutes of Health.

B1. Categorical Exclusions Applicable to Facility Operation

B1.1 Changing rates and prices

Changing rates for services or prices for products ~~Rate increases for products or services~~ marketed by parts of DOE other than Power Marketing Administrations and approval of rate ~~increases~~ or price changes for non-DOE entities that are consistent with the change in the implicit price deflator for ~~do not exceed the change in the overall price level in the economy (inflation), as measured by~~ the Gross National Domestic Product (GNP) ~~fixed-weight price index~~ published by the Department of Commerce, during the period since the last rate ~~increase~~ or price change. ~~(Also see B4.3.)~~

B1.2 Training exercises and simulations

Training exercises and simulations (including, but not limited to, firing-range training, ~~small-scale and short-duration force-on-force exercises~~, emergency response training, fire fighter and rescue training, and ~~decontamination and spill cleanup training~~) conducted under appropriately controlled conditions and in accordance with applicable requirements.

B1.3 Routine maintenance

Routine maintenance activities and custodial services for buildings, structures, rights-of-way, infrastructures (~~e.g. including, but not limited to~~, pathways, roads, and railroads), vehicles and equipment, and localized vegetation and pest control, during which operations may be suspended and resumed, ~~provided that the activities would be conducted in a manner in accordance with applicable requirements~~. Custodial services are activities to preserve facility appearance, working conditions, and sanitation; (such as cleaning, window washing, lawn mowing, trash collection, painting, and snow removal). Routine maintenance activities, corrective (that is, repair), preventive, and predictive, are required to maintain and preserve buildings, structures, infrastructures, and equipment in a condition suitable for a facility to be used for its designated purpose. ~~Such maintenance may occur as a result of severe weather (such as hurricanes, floods, and tornados), wildfires, and other such events.~~ —Routine maintenance may result in replacement to the extent that replacement is ~~in-in-kind~~ and is not a substantial upgrade or improvement. ~~In-~~ In-kind replacement includes installation of new components to replace outmoded

components, ~~if~~ provided that the replacement does not result in a significant change in the expected useful life, design capacity, or function of the facility. Routine maintenance does not include replacement of a major component that significantly extends the originally intended useful life of a facility (for example, it does not include the replacement of a reactor vessel near the end of its useful life). Routine maintenance activities include, but are not limited to:

- (a) Repair or replacement of facility equipment, such as lathes, mills, pumps, and presses;
- (b) Door and window repair or replacement;
- (c) Wall, ceiling, or floor repair or replacement;
- (d) Reroofing;
- (e) Plumbing, electrical utility, lighting, and telephone service repair or replacement;
- (f) Routine replacement of high-efficiency particulate air filters;
- (g) Inspection and/or treatment of currently installed utility poles;
- (h) Repair of road embankments;
- (i) Repair or replacement of fire protection sprinkler systems;
- (j) Road and parking area resurfacing, including construction of temporary access to facilitate resurfacing, and scraping and grading of unpaved surfaces;
- (k) Erosion control and soil stabilization measures (such as reseeded, gabions, grading, and revegetation);
- (l) Surveillance and maintenance of surplus facilities in accordance with DOE Order ~~5820.2435.1~~, "Radioactive Waste Management," or its successor;
- (m) Repair and maintenance of transmission facilities, ~~including such as~~ replacement of conductors of the same nominal voltage, poles, circuit breakers, transformers, capacitors, crossarms, insulators, and downed ~~transmission powerlines~~, in accordance, where appropriate, with 40 CFR part 761 ("Polychlorinated Biphenyls Manufacturing, Processing, Distribution in Commerce, and Use Prohibitions") or its successor;
- (n) Routine testing and calibration of facility components, subsystems, or portable equipment (~~including but not limited to, such as~~ control valves, in-core monitoring devices, transformers, capacitors, monitoring wells, lysimeters, weather stations, and flumes); ~~and-~~
- (o) Routine decontamination of the surfaces of equipment, rooms, hot cells, or other interior surfaces of buildings (by such activities as wiping with rags, using strippable latex, and minor vacuuming), ~~including and~~ removal of contaminated intact equipment and other ~~materials material~~ (~~other than not including~~ spent nuclear fuel or special nuclear material in nuclear reactors); ~~and-~~
- (p) Removal of debris.

B1.4 Air conditioning systems for existing equipment

Installation or modification of air conditioning systems required for temperature control for operation of existing equipment.

B1.5 Existing steam plants and cooling water systems

Minor improvements to existing steam plants and cooling water systems— (including, but not limited to, modifications of existing cooling towers and ponds), provided that ~~within an existing building or structure if~~ the improvements would not: (1) ~~Create~~ create new sources of water or involve new receiving waters; (2) ~~have the potential to adversely affect~~ significantly alter water withdrawals ~~or the temperature of discharged water rates~~; or (3) exceed the permitted temperature of discharged water; or (4) increase introductions of, or involve new introductions of, hazardous substances, pollutants, contaminants, or CERCLA-excluded petroleum and natural gas products.

B1.6 Tanks and equipment to control runoff and spills

Installation or modification of retention tanks or small (normally under one acre) basins and associated piping and pumps for existing operations to control runoff or spills (such as under 40 CFR part 112). Modifications include, but are not limited to, installing liners or covers. (See also B1.33 of this appendix.)

B1.7 Electronic equipment

Acquisition, installation, operation, ~~modification~~, and removal of ~~electricity transmission control and monitoring devices for grid demand and response~~, communication systems, data processing equipment, and similar electronic equipment.

B1.8 Screened water intake and outflow structures

Modifications to screened water intake and outflow structures such that intake velocities and volumes and water effluent quality and volumes are consistent with existing permit limits.

B1.9 Airway safety markings and painting

Placement of airway safety markings ~~on, and~~ painting of, and repair and in-kind replacement of (~~but excluding~~ lighting) ~~of an existing electrical transmission powerlines~~ and antenna structures, wind turbines, and similar structures in accordance with applicable requirements (such as Federal Aviation Administration standards).

B1.10 Onsite storage of activated material

Routine, onsite storage at an existing facility of activated equipment and material (including, but not limited to, lead) used at that facility, to allow reuse after decay of radioisotopes with short half-lives.

B1.11 Fencing

Installation of fencing, including, but not limited to, ~~that for~~ border marking, that ~~will~~ would not have the potential to significantly impede ~~adversely affect~~ wildlife population movement (including migration)s or surface water flow.

B1.12 Detonation or burning of explosives or propellants after testing

~~Detonation~~ Outdoor detonation or burning of explosives or propellants that failed (duds), were damaged (such as by fracturing), or were otherwise not consumed in ~~outdoor~~ testing.s

~~(i.e., duds) or were damaged in outdoor tests (e.g., by fracturing) in~~ Outdoor detonation or burning would be in areas designated and routinely used for ~~explosive detonation or burning~~ those purposes under ~~an~~ existing applicable permits issued by Federal, state ~~or~~, and local authorities (such as a permit for a RCRA miscellaneous unit (40 CFR part 264, subpart X)).

B1.13 Pathways, short access roads, and rail lines

Construction, acquisition, and relocation, consistent with applicable right-of-way conditions and approved land use or transportation improvement plans, of pedestrian walkways and trails, bicycle paths, small outdoor fitness areas, and ~~of onsite pathways and~~ short onsite access roads and ~~railroads~~ rail lines (such as branch and spur lines).

B1.14 Refueling of nuclear reactors

Refueling of ~~an~~ operating nuclear reactors, during which operations may be suspended and then resumed.

B1.15 Support buildings

Siting, construction ~~(or modification)~~, and operation of support buildings and support structures (including, but not limited to, trailers and prefabricated ~~and modular~~ buildings) within or contiguous to an already developed area (where active utilities and currently used roads are readily accessible). Covered support buildings and structures include, ~~but are not limited to~~, those for office purposes; parking; cafeteria services; education and training; visitor reception; computer and data processing services; ~~employee~~ health services or recreation activities; routine maintenance activities; storage of supplies and equipment for administrative services and routine maintenance activities; security (~~including such as~~ security posts); fire protection; ~~small-scale fabrication (such as machine shop activities), assembly, and testing of non-nuclear equipment or components;~~ and similar support purposes, but excluding facilities for nuclear weapons activities and waste storage activities, ~~such as activities covered in B1.10, B1.29, B1.35, B2.6, B6.2, B6.4, B6.5, B6.6, and B6.10 except as provided in other parts~~ of this appendix.

B1.16 Asbestos removal

Removal of asbestos-containing materials from buildings in accordance with applicable requirements (such as 40 CFR part 61, ~~“(National Emission Standards for Hazardous Air Pollutants)”~~; 40 CFR part 763, ~~“Asbestos” subpart M; (National Emission Standard for Asbestos); 40 CFR part 763 (Asbestos), subpart G (Asbestos Abatement Projects); 29 CFR part 1910, subpart I, “Personal Protective Equipment,”; § 1910.134 (Respiratory Protection); subpart Z (Toxic and Hazardous Substances), § 1910.1001 (Asbestos, tremolite, anthophyllite and actinolite); and 29 CFR part 1926, “Safety and Health Regulations for Construction”~~); ~~subpart D (Occupational Health and Environmental Controls), § 1926.58 (Asbestos, tremolite, anthophyllite, and actinolite), other appropriate Occupational Safety and Health Administration standards in title 29, chapter XVII of the CFR,~~ and appropriate state and local requirements, including certification of removal contractors and technicians).

B1.17 Polychlorinated biphenyl removal

Removal of polychlorinated biphenyl (PCB)-containing items; ~~(such as including, but not limited to, transformers or and capacitors)~~, PCB-containing oils flushed from transformers, PCB-flushing solutions, and PCB-containing spill materials from buildings or other aboveground locations in accordance with applicable requirements (such as 40 CFR part 761) ~~(Polychlorinated Biphenyls Manufacturing, Processing, Distribution in Commerce, and Use Prohibitions)~~.

B1.18 Water supply wells

Siting, construction, and operation of additional water supply wells (or replacement wells) within an existing well field, or modification of an existing water supply well to restore production, ~~if provided that~~ there would be no drawdown other than in the immediate vicinity of the pumping well, ~~and the covered actions would not have the potential to cause significant no resulting~~ long-term decline of the water table, and ~~would not have the potential to cause significant no~~ degradation of the aquifer from the new or replacement well.

B1.19 Microwave, meteorological, and radio towers

Siting, construction, ~~modification, and~~ operation, and removal of microwave ~~and~~, radio communication, and meteorological towers and associated facilities, ~~if provided that~~ the towers and associated facilities would not be in ~~an~~ a governmentally designated scenic area (see B(4)(iv) of this appendix) unless otherwise authorized by the appropriate governmental entity ~~of great visual value~~.

B1.20 Protection of cultural resources, fish and wildlife habitat

Small-scale activities undertaken to protect cultural resources (such as fencing, labeling, and flagging) or to protect, restore, or improve fish and wildlife habitat, fish passage facilities (such as fish ladders ~~or and~~ minor diversion channels), or fisheries. Such activities would be conducted in accordance with an existing natural or cultural resource plan, if any.

B1.21 Noise abatement

Noise abatement measures; ~~(such as including, but not limited to,~~ construction of noise barriers and installation of noise control materials).

B1.22 Relocation of buildings

Relocation of buildings (including, but not limited to, trailers and prefabricated buildings) to an already developed area (where active utilities and currently used roads are readily accessible).

B1.23 Demolition and disposal of buildings

Demolition and subsequent disposal of buildings, equipment, and support structures (including, but not limited to, smoke stacks and parking lot surfaces), ~~provided that there would be no potential for release of substances at a level, or in a form, that could pose a threat to public health or the environment~~.

B1.24 Property transfers

Transfer, lease, disposition, or acquisition of interests in personal property (including, but not limited to, equipment and materials) or real property (including, but not limited to,

permanent structures and land), provided ~~unecontaminated permanent or temporary structures, equipment therein, and only land that is necessary for use of the transferred structures and equipment, for residential, commercial, or industrial uses (including, but not limited to, office space, warehouses, equipment storage facilities) where, that~~ under reasonably foreseeable uses (1); there would be no potential for release of substances at a level, or in a form, that could pose a threat to public health or the environment and (2) the covered actions would not have the potential to cause a significant change in impacts from before the transfer, lease, disposition, or acquisition of interests ~~not be any lessening in quality, or increases in volumes, concentrations, or discharge rates, of wastes, air emissions, or water effluents, and environmental impacts would generally be similar to those before the transfer, lease, disposition, or acquisition of interests. Unecontaminated means that there would be no potential for release of substances at a level, or in a form, that would pose a threat to public health or the environment.~~

B1.25 Real property transfers for cultural resources protection, habitat preservation, and wildlife management

Transfer, lease, disposition, or acquisition of interests in ~~unecontaminated~~ land and associated buildings for cultural resources protection, habitat preservation, or fish and wildlife management, ~~and only associated buildings that support these purposes. Unecontaminated means~~ provided that there would be no potential for release of substances at a level, or in a form, that ~~w~~ould pose a threat to public health or the environment.

B1.26 Small water treatment facilities

Siting, construction, ~~(or expansion, modification, or replacement)~~, operation, and decommissioning of small (total capacity less than approximately 250,000 gallons per day) wastewater and surface water treatment facilities whose liquid discharges are externally regulated, and small potable water and sewage treatment facilities.

B1.27 Disconnection of utilities

Activities that are required for the disconnection of utility services ~~such as~~ (including, but not limited to, water, steam, telecommunications, and electrical power) after it has been determined that the continued operation of these systems is not needed for safety.

B1.28 Placing a facility in an environmentally safe condition

Minor activities that are required to place a facility in an environmentally safe condition where there is no proposed use for the facility. These activities would include, but are not limited to, reducing surface contamination, and removing materials, equipment or waste; (such as final defueling of a reactor, where there are adequate existing facilities for the treatment, storage, or disposal of the materials, equipment or waste). These activities would not include conditioning, treatment, or processing of spent nuclear fuel, high-level waste, or special nuclear materials.

B1.29 Disposal facilities for construction and demolition waste

Siting, construction, ~~expansion, modification~~, operation, and decommissioning of ~~a~~ small (less than approximately 10 acres) ~~onsite~~ solid waste disposal ~~facility~~ facilities for construction and demolition waste, in accordance with applicable requirements (such as 40 CFR part 257, "Criteria for Classification of Solid Waste Disposal Facilities and

Practices,” and 40 CFR part 61, “National Emission Standards for Hazardous Air Pollutants”) that ~~which would not release substances at a level, or in a form, that would pose a threat to public health or the environment. These wastes, as defined in the Environmental Protection Agency’s regulations under the Resource Conservation and Recovery Act, specifically 40 CFR 243.101, include building materials, packaging, and rubble.~~ would not release substances at a level, or in a form, that could pose a threat to public health or the environment.

B1.30 Transfer actions

Transfer actions, in which the predominant activity is transportation, provided that (1) the receipt and storage capacity and management capability for ~~and in which~~ the amount and type of materials, equipment, or waste to be moved already exists at the receiving site and (2) all necessary facilities and operations at the receiving site are already permitted, licensed, or approved, as appropriate ~~is small and incidental to the amount of such materials, equipment, or waste that is already a part of ongoing operations at the receiving site.~~ Such transfers are not regularly scheduled as part of ongoing routine operations.

B1.31 Installation or relocation of machinery and equipment

~~Relocation~~ Installation or relocation and operation of machinery and equipment (including, but not limited to, ~~such as analytical~~ laboratory ~~apparatus~~ equipment, electronic hardware, manufacturing machinery, maintenance equipment, and health and safety equipment), provided that uses of the installed or relocated items are consistent with the general missions of the receiving structure. Covered actions include modifications to an existing building, within or contiguous to a previously disturbed or developed area, that are necessary for equipment installation and relocation. Such modifications would not appreciably increase the footprint or height of the existing building or have the potential to cause significant changes to the type and magnitude of environmental impacts. ~~including minor construction necessary for removal and installation, where uses of the relocated items will be similar to their former uses and consistent with the general missions of the receiving structure.~~

B1.32 Traffic flow adjustments

Traffic flow adjustments to existing roads ~~at DOE sites~~ (including, but not limited to, stop sign or traffic light installation, adjusting direction of traffic flow, and adding turning lanes), and ~~Road~~ road adjustments (including, but not limited to, ~~such as~~ widening ~~or~~ and realignment ~~are not included.~~) that are within an existing right-of-way and consistent with approved land use or transportation improvement plans.

B1.33 Stormwater runoff control

Design, construction, and operation of control practices to reduce stormwater runoff and maintain natural hydrology. Activities include, but are not limited to, those that reduce impervious surfaces (such as vegetative practices and use of porous pavements), best management practices (such as silt fences, straw wattles, and fiber rolls), and use of green infrastructure or other low impact development practices (such as cisterns and green roofs).

B1.34 Lead-based paint containment, removal, and disposal

Containment, removal, and disposal of lead-based paint in accordance with applicable requirements (such as provisions relating to the certification of removal contractors and technicians at 40 CFR part 745, “Lead-Based Paint Poisoning Prevention In Certain Residential Structures”).

B1.35 Drop-off, collection, and transfer facilities for recyclable materials

Siting, construction, modification, and operation of recycling or compostable material drop-off, collection, and transfer stations on or contiguous to a previously disturbed or developed area and in an area where such a facility would be consistent with existing zoning requirements. The stations would have appropriate facilities and procedures established in accordance with applicable requirements for the handling of recyclable or compostable materials and household hazardous waste (such as paint and pesticides). Except as specified above, the collection of hazardous waste for disposal and the processing of recyclable or compostable materials are not included in this class of actions.

B1.36 Determinations of excess real property

Determinations that real property is excess to the needs of DOE and, in the case of acquired real property, the subsequent reporting of such determinations to the General Services Administration or, in the case of lands withdrawn or otherwise reserved from the public domain, the subsequent filing of a notice of intent to relinquish with the Bureau of Land Management, Department of the Interior. Covered actions would not include disposal of real property.

B2. Categorical Exclusions Applicable to Safety and Health

B2.1 Workplace enhancements

Modifications ~~within or contiguous to~~ an existing structure, ~~in a previously disturbed or developed area~~, to enhance workplace habitability (including, but not limited to, ~~installation or~~ improvements to lighting, radiation shielding, or heating/ventilating/air conditioning and its instrumentation~~;~~, and noise reduction).

B2.2 Building and equipment instrumentation

Installation of, or improvements to, building and equipment instrumentation (including, but not limited to, remote control panels, remote monitoring capability, alarm and surveillance systems, control systems to provide automatic shutdown, fire detection and protection systems, ~~water consumption monitors and flow control systems~~, announcement and emergency warning systems, criticality and radiation monitors and alarms, and safeguards and security equipment).

B2.3 Personnel safety and health equipment

Installation of, or improvements to, equipment for personnel safety and health~~;~~ (including, but not limited to, eye washes, safety showers, radiation monitoring devices, ~~and~~ fume hoods and associated collection and exhaust systems), provided that ~~the covered actions would not have the potential to cause a significant increase in emissions~~~~would not increase~~.

B2.4 Equipment qualification

Activities undertaken to (1) qualify equipment for use or improve systems reliability or (2) ~~Development and implementation of Equipment Qualification Programs (under DOE Order 5480.6, “Safety of DOE-owned Nuclear Reactors”)~~ to augment information on safety-related system components ~~or to improve systems reliability~~. These activities include, but are not limited to, transportation container qualification testing, crane and lift-gear certification or recertification testing, high efficiency particulate air filter testing and certification, stress tests (such as “burn-in” testing of electrical components and leak testing), and calibration of sensors or diagnostic equipment.

B2.5 Facility safety and environmental improvements

Safety and environmental improvements of a facility; ~~(including including, but not limited to, replacement and upgrade of facility components;)~~ that do not result in a significant change in the expected useful life, design capacity, or function of the facility and during which operations may be suspended and then resumed. Improvements ~~may~~ include, but are not limited to: ~~-, Replacement~~ replacement/upgrade of control valves, in-core monitoring devices, facility air filtration systems, or substation transformers or capacitors; addition of structural bracing to meet earthquake standards and/or sustain high wind loading; and replacement of aboveground or belowground tanks and related piping, ~~if provided that there is no evidence of leakage, based on testing in accordance with applicable that meets performance~~ requirements ~~in (such as 40 CFR part 280, subpart D (40 CFR part 280.40). This includes activities taken under RCRA, subtitle I; 40 CFR part 265, “Interim Status Standards for Owners and Operators of Hazardous Waste Treatment, Storage, and Disposal Facilities” and 40 CFR part 280, “Technical Standards and Corrective Action Requirements for Owners and Operators of Underground Storage Tanks”); subpart J; 40 CFR part 280, subparts B, C, and D; and other applicable state, Federal and local requirements for underground storage tanks.~~ These actions do not include rebuilding or modifying substantial portions of a facility; (such as replacing a reactor vessel).

B2.6 Recovery of radioactive sealed sources

Recovery of radioactive sealed sources and sealed source-containing devices from domestic or foreign locations provided that (1) the recovered items are transported and stored in compliant containers, and (2) the receiving site has sufficient existing storage capacity and all required licenses, permits, and approvals.

~~Packaging, transportation, and storage of radioactive materials from the public domain, in accordance with the Atomic Energy Act upon a request by the Nuclear Regulatory Commission or other cognizant agency, which would include a State that regulates radioactive materials under an agreement with the Nuclear Regulatory Commission or other agencies that may, under unusual circumstances, have responsibilities regarding the materials that are included in the categorical exclusion. Covered materials are those for which possession and use by Nuclear Regulatory Commission licensees has been categorically excluded under 10 CFR 51.22(14) or its successors. Examples of these radioactive materials (which may contain source, byproduct or special nuclear materials) are density gauges, therapeutic medical devices, generators, reagent kits, irradiators, analytical instruments, well monitoring equipment, uranium shielding material, depleted uranium military munitions, and packaged radioactive waste not exceeding 50 curies.~~

B3. Categorical Exclusions Applicable to Site Characterization, Monitoring, and General Research

B3.1 Site characterization and environmental monitoring

~~Onsite and offsite s~~Site characterization and environmental monitoring, ~~(including including, but not limited to,~~ siting, construction ~~(or, modification),~~ operation, and dismantlement ~~or closing (and abandonment)~~removal or otherwise proper closure (such as of a well) of characterization and monitoring devices, and siting, construction, and associated operation of a small-scale laboratory building or renovation of a room in an existing building for sample analysis). Such activities would be designed in conformance with applicable requirements and use best management practices to limit ~~The potential effects of any resultant ground disturbance would be limited through compliance with applicable requirements and use of best management practices.~~ Covered Activities ~~covered~~include, but are not limited to, site characterization and environmental monitoring under CERCLA and RCRA. ~~(This class of actions excludes activities in salt-water and freshwater aquatic environments. See B3.16 of this appendix for salt-water and freshwater such activities.)~~ Specific activities include, but are not limited to:

- (a) Geological, geophysical (such as gravity, magnetic, electrical, seismic, ~~and~~ radar, and temperature gradient), geochemical, and engineering surveys and mapping, ~~including and~~ the establishment of survey marks. ~~Seismic techniques would not include large-scale reflection or refraction testing;~~
- (b) Installation and operation of field instruments, ~~–~~ (such as stream-gauging stations or flow-measuring devices, telemetry systems, geochemical monitoring tools, and geophysical exploration tools); ~~–~~
- (c) Drilling of wells for sampling or monitoring of groundwater or the vadose (unsaturated) zone, well logging, and installation of water-level recording devices in wells; ~~–~~
- (d) Aquifer ~~and underground reservoir~~ response testing; ~~–~~
- (e) Installation and operation of ambient air monitoring equipment;
- (f) Sampling and characterization of water, soil, rock, or contaminants (such as drilling using truck- or mobile-scale equipment, and modification, use, and plugging of boreholes);
- (g) Sampling and characterization of water effluents, air emissions, or solid waste streams;
- (h) Installation and operation of meteorological towers and associated activities, ~~–~~ (such as ~~including~~ assessment of potential wind energy resources);
- (i) Sampling of flora or fauna; and
- (j) Archeological, historic, and cultural resource identification in compliance with 36 CFR part 800 and 43 CFR part 7.

B3.2 Aviation activities

Aviation activities for survey, monitoring, or security purposes that comply with Federal Aviation Administration regulations.

B3.3 Research related to conservation of fish, wildlife, and cultural resources

Field and laboratory research, inventory, and information collection activities that are directly related to the conservation of fish ~~or~~ and wildlife resources or to the protection of cultural resources, provided that such activities would not have the potential to cause significant impacts on fish and wildlife habitat or populations or to cultural resources. ~~and that involve only negligible habitat destruction or population reduction.~~

B3.4 Transport packaging tests for radioactive or hazardous material

Drop, puncture, water-immersion, thermal, and fire tests of transport packaging for radioactive or hazardous materials to certify that designs meet the applicable requirements ~~of (such as 49 CFR §§ 173.411 and 173.412 and requirements of severe accident conditions as specified in 10 CFR § 71.73).~~

B3.5 Tank car tests

Tank car tests under 49 CFR part 179 (including, but not limited to, tests of safety relief devices, pressure regulators, and thermal protection systems).

B3.6 Small-scale research and development, laboratory operations, and pilot projects

Siting, construction ~~(or, modification)~~, operation, and decommissioning of facilities for ~~indoor bench~~ small-scale research and development projects; ~~and~~ conventional laboratory operations (~~for example, such as~~ preparation of chemical standards and sample analysis); ~~small-scale research and development projects;~~ and small-scale pilot projects (generally less than ~~two~~ 2 years) frequently conducted to verify a concept before demonstration actions, provided that construction or modification would be within or contiguous to a previously disturbed or developed area. ~~Construction (or modification) will be within or contiguous to an already developed area~~ (where active utilities and currently used roads are readily accessible). Not included in this category are demonstration actions, meaning actions that are undertaken at a scale to show whether a technology would be viable on a larger scale and suitable for commercial deployment. ~~See also C12.~~

B3.7 New terrestrial infill exploratory and experimental wells

Siting, construction, and operation of new terrestrial infill exploratory and experimental (test) ~~oil, gas, and geothermal~~ wells, for either extraction or injection use, ~~which are to be drilled~~ in a locally characterized geological formation in a field that ~~has~~ contains existing operating wells, properly abandoned wells, or unminable coal seams containing natural gas, provided that the site characterization has verified a low potential for seismicity, subsidence, and contamination of freshwater aquifers, and the actions are otherwise consistent with applicable best practices and DOE protocols, including those that protect against uncontrolled releases of harmful materials. Such wells may include those for brine, carbon dioxide, coalbed methane, gas hydrate, geothermal, natural gas, and oil. Uses for carbon sequestration wells include, but are not limited to, the study of saline formations, enhanced oil recovery, and enhanced coalbed methane extraction.

B3.8 Outdoor terrestrial ecological and environmental research

Outdoor terrestrial ecological and ~~other~~ environmental research in a small area (generally less than 5 acres), ~~including~~ including, but not limited to, siting, construction, and operation of a small-scale laboratory building or renovation of a room in an existing

building for ~~sample-associated analysis~~). Such activities would be designed in conformance with applicable requirements and use best management practices to limit ~~the potential effects of any resultant ground disturbance. would be limited through compliance with applicable requirements and use of best management practices in a small area (generally less than five acres) that would not result in any permanent change to the ecosystem.~~

B3.9 Projects to reduce emissions and waste generation

Projects to reduce emissions and waste generation at existing fossil or alternative fuel combustion or utilization facilities, provided that these projects would not have the potential to cause a significant ~~Demonstration actions proposed under the Clean Coal Technology Demonstration Program, if the actions would not~~ increase in the quantity or rate of air emissions. For this category of actions, “fuel” includes, but is not limited to, coal, oil, natural gas, hydrogen, syngas, and biomass; but “fuel” does not include nuclear fuel. Covered ~~These demonstration~~ actions include, but are not limited to:

- (a) Test treatment of ~~20 percent or less of~~ the throughput product (solid, liquid, or gas) generated at an existing and fully operational ~~coal-fuel~~ combustion or ~~coal~~-utilization facility;
- (b) Addition or replacement of equipment for reduction or control of sulfur dioxide, oxides of nitrogen, or other regulated substances that requires only minor modification to the existing structures at an existing ~~coal-fuel~~ combustion or ~~coal~~-utilization facility, for which the existing use remains ~~essentially~~ unchanged; ~~and~~
- (c) Addition or replacement of equipment for reduction or control of sulfur dioxide, oxides of nitrogen, or other regulated substances that involves no permanent change in the quantity or quality of ~~coal-fuel being~~ burned or used and involves no permanent change in the capacity factor of the ~~coal-fuel~~ combustion or ~~coal~~-utilization facility, ~~other than for demonstration purposes of two years or less in duration; and~~
- (d) Addition or modification of equipment for capture and control of carbon dioxide or other regulated substances, provided that adequate infrastructure is in place to manage such substances.

B3.10 Particle accelerators

Siting, construction, ~~modification~~, operation, and decommissioning of ~~a~~-particle accelerators, including electron beam accelerators, with primary beam energy less than approximately 100 million electron volts (MeV) and average beam power less than approximately 250 kilowatts (kW), and associated beamlines, storage rings, colliders, and detectors, for research and medical purposes (such as proton therapy), and isotope production, within or contiguous to an ~~already~~ previously disturbed or developed area (where active utilities and currently used roads are readily accessible), or internal modification of any accelerator facility regardless of energy, that does not increase primary beam energy or current. In cases where the beam energy exceeds 100 MeV, the average beam power must be less than 250 kW, so as not to exceed an average current of 2.5 milliamperes (mA).

B3.11 Outdoor tests and experiments on materials and equipment components

Outdoor tests and experiments for the development, quality assurance, or reliability of materials and equipment (including, but not limited to, weapon system components); under controlled conditions ~~that would not involve source, special nuclear, or byproduct materials~~. Covered ~~activities~~ actions may include, but are not limited to, burn tests (such as tests of electric cable fire resistance or the combustion characteristics of fuels), impact tests (such as pneumatic ejector tests using earthen embankments or concrete slabs designated and routinely used for that purpose), or drop, puncture, water-immersion, or thermal tests. Covered actions would not involve source, special nuclear, or byproduct materials, except encapsulated sources manufactured to applicable standards that contain source, special nuclear, or byproduct materials may be used for nondestructive actions such as detector/sensor development and testing and first responder field training.

B3.12 Microbiological and biomedical facilities

Siting, construction ~~(or, modification)~~, operation, and decommissioning of microbiological and biomedical diagnostic, treatment, and research facilities (excluding Biosafety Level-3 and Biosafety Level-4~~+~~), ~~reference~~in accordance with applicable requirements and best practices~~;~~ (such as Biosafety in Microbiological and Biomedical Laboratories, ~~3rd~~ 5th Edition, ~~May~~ Dec. 1993 2009, U.S. Department of Health and Human Services ~~Public Health Service, Centers of for Disease Control and Prevention, and the National Institutes of Health (HHS Publication No. (CDC) 93-8395)~~) including, but not limited to, laboratories, treatment areas, offices, and storage areas, within or contiguous to an ~~already~~ previously disturbed or developed area (where active utilities and currently used roads are readily accessible). Operation may include the purchase, installation, and operation of biomedical equipment~~;~~ (such as commercially available cyclotrons that are used to generate radioisotopes and radiopharmaceuticals, and commercially available biomedical imaging and spectroscopy instrumentation).

B3.13 Magnetic fusion experiments

Performing magnetic fusion experiments that do not use tritium as fuel, within existing facilities (including~~-~~, but not limited to, necessary modifications).

B3.14 Small-scale educational facilities

Siting, construction, modification, operation, and decommissioning of small-scale educational facilities (including, but not limited to, conventional teaching laboratories, libraries, classroom facilities, auditoriums, museums, visitor centers, exhibits, and associated offices) within or contiguous to a previously disturbed or developed area (where active utilities and currently used roads are readily accessible). Operation may include, but is not limited to, purchase, installation, and operation of equipment (such as audio/visual and laboratory equipment) commensurate with the educational purpose of the facility.

B3.15 Small-scale indoor research and development projects using nanoscale materials

Siting, construction, modification, operation, and decommissioning of facilities for indoor small-scale research and development projects and small-scale pilot projects using nanoscale materials in accordance with applicable requirements (such as engineering, worker safety, procedural, and administrative regulations) necessary to ensure the containment of any hazardous materials. Construction and modification activities would be

within or contiguous to a previously disturbed or developed area (where active utilities and currently used roads are readily accessible).

B3.16 Research activities in aquatic environments

Small-scale, temporary surveying, site characterization, and research activities in aquatic environments, limited to:

- (a) Acquisition of rights-of-way, easements, and temporary use permits;
- (b) Installation, operation, and removal of passive scientific measurement devices, including, but not limited to, antennae, tide gauges, flow testing equipment for existing wells, weighted hydrophones, salinity measurement devices, and water quality measurement devices;
- (c) Natural resource inventories, data and sample collection, environmental monitoring, and basic and applied research, excluding (1) large-scale vibratory coring techniques and (2) seismic activities other than passive techniques; and
- (d) Surveying and mapping.

These activities would be conducted in accordance with, where applicable, an approved spill prevention, control, and response plan and would incorporate appropriate control technologies and best management practices. None of the activities listed above would occur within the boundary of an established marine sanctuary or wildlife refuge, a governmentally proposed marine sanctuary, or wildlife refuge, or a governmentally recognized area of high biological sensitivity, unless authorized by the agency responsible for such refuge, sanctuary, or area (or after consultation with the responsible agency, if no authorization is required). If the proposed activities would occur outside such refuge, sanctuary, or area and if the activities would have the potential to cause impacts within such refuge, sanctuary, or area, then the responsible agency shall be consulted in order to determine whether authorization is required and whether such activities would have the potential to cause significant impacts on such refuge, sanctuary, or area. Areas of high biological sensitivity include, but are not limited to, areas of known ecological importance, whale and marine mammal mating and calving/pupping areas, and fish and invertebrate spawning and nursery areas recognized as being limited or unique and vulnerable to perturbation; these areas can occur in bays, estuaries, near shore, and far offshore, and may vary seasonally. No permanent facilities or devices would be constructed or installed. Covered actions do not include drilling of resource exploration or extraction wells.

B4. Categorical Exclusions Applicable to Electrical Power ~~Marketing Administrations~~ and ~~to All of DOE with Regard to Power Resources~~ Transmission

B4.1 Contracts, policies, and marketing and allocation plans for electric power

Establishment and implementation of contracts, policies, and marketing ~~plans, and policies,~~ allocation plans, ~~or acquisition of excess-~~ related to electric power ~~that does not~~ acquisition that involve: ~~(1) the integration of a new generation resource, (2) physical changes in the transmission system beyond the previously developed facility area, unless the changes are themselves categorically excluded, or (3) changes in the~~ only the use of the existing transmission system and existing generation resources operating within their normal operating limits ~~of generation resources.~~

B4.2 Export of electric energy

Export of electric energy as provided by Section 202(e) of the Federal Power Act over existing transmission systems or using transmission system changes that are themselves categorically excluded.

B4.3 Electric power marketing rate changes

Rate changes for electric power, power transmission, and other products or services provided by a Power Marketing Administration that are based on a change in revenue requirements if the operations of generation projects would remain within normal operating limits.

B4.4 Power marketing services and activities

Power marketing services, ~~including~~ and power management activities (including, but not limited to, ~~storage, load shaping, and balancing~~, seasonal exchanges, ~~or~~ and other similar activities), ~~provided that if~~ the operations of generating projects would remain within normal operating limits.

B4.5 Temporary adjustments to river operations

Temporary adjustments to river operations to accommodate day-to-day river fluctuations, power demand changes, fish and wildlife conservation program requirements, and other external events ~~if, provided that~~ the adjustments would occur within the existing operating constraints of the particular hydrosystem operation.

B4.6 Additions and modifications to transmission facilities

Additions or modifications to electric power transmission facilities ~~within a previously disturbed or developed facility area. that would not affect the environment beyond the previously developed facility area~~ Covered activities include, but are not limited to, ~~including, but not limited to,~~ switchyard rock grounding upgrades, secondary containment projects, paving projects, seismic upgrading, tower modifications, ~~load-shaping projects (such as the installation and use of flywheels and battery arrays)~~, changing insulators, and replacement of poles, circuit breakers, conductors, transformers, and crossarms.

B4.7 Fiber optic cable

Adding fiber optic cables to transmission ~~structures~~ facilities or burying fiber optic cable in existing ~~transmission~~ powerline or pipeline rights-of-way. Covered actions may include associated vaults and pulling and tensioning sites outside of rights-of-way in nearby previously disturbed or developed areas.

B4.8 Electricity transmission agreements

New electricity transmission agreements, and modifications to existing transmission arrangements, to use a transmission facility of one system to transfer power of and for another system, ~~if provided that~~ no new generation projects would be involved and no physical changes in the transmission system would be made beyond the previously ~~disturbed or~~ developed facility area.

B4.9 Multiple use of powerline rights-of-way

Granting or ~~denial-denying of~~ requests for multiple uses of a transmission facility's rights-of-way; ~~(such as including, but not limited to,~~ grazing permits and crossing agreements, ~~including for~~ electric lines, water lines, natural gas pipelines, communications cables, roads, and drainage culverts).

B4.10 Removal of electric transmission facilities

Deactivation, dismantling, and removal of electric ~~powerlines~~ transmission facilities (~~including, but not limited to,~~ electric powerlines, substations, and switching stations); and abandonment and restoration of ~~other transmission facilities, and~~ rights-of-way (including, but not limited to, associated access roads) ~~abandonment~~.

B4.11 Electric power substations and interconnection facilities

Construction or modification of electric power substations or interconnection facilities (including, but not limited to, switching stations and support facilities) ~~with power delivery at 230 kV or below, or modification (other than voltage increases) of existing substations and support facilities, that could involve the construction of electric powerlines approximately 10 miles in length or less, or relocation of existing electric powerlines approximately 20 miles in length or less, but not the integration of major new generation resources into a main transmission system.~~

B4.12 Construction of powerlines

Construction of electric powerlines approximately 10 miles in length or less, or approximately 20 miles in length or less ~~inside of~~ within previously disturbed or developed powerline or pipeline rights-of-way ~~that are not for the integration of major new generation resources into a main transmission system.~~

B4.13 Upgrading and rebuilding existing powerlines

~~Reconstruction (u~~Upgrading or rebuilding) approximately 20 miles in length or less ~~and/or minor relocation~~ of existing electric powerlines-, which may involve minor relocations of small segments of the powerlines ~~approximately 20 miles in length or less to enhance environmental and land use values. Such actions include relocations to avoid right-of-way encroachments, resolve conflict with property development, accommodate road/highway construction, allow for the construction of facilities such as canals and pipelines, or reduce existing impacts to environmentally sensitive areas.~~

B5. Categorical Exclusions Applicable to Conservation, Fossil, and Renewable Energy Activities

B5.1 Actions to conserve energy or water

(a) Actions to conserve energy or water, demonstrate potential energy or water conservation, and promote energy-efficiency that ~~do would~~ not ~~have increase~~ the potential to cause significant changes in the indoor or outdoor concentrations of potentially harmful substances. These actions may involve financial and technical assistance to individuals (such as builders, owners, consultants, manufacturers, and designers), organizations (such as utilities), and ~~state and local~~ governments (such as state, local, and tribal). Covered actions include, but are not limited to ~~:-~~, weatherization (such as insulation and replacing windows and doors); programmed lowering of thermostat settings ~~:-~~; placement of timers

on hot water heaters; ~~installation of solar hot water systems~~; installation or replacement of energy efficient lighting, low-flow plumbing fixtures (such as faucets, toilets, and showerheads), heating, ventilation, and air conditioning systems, and appliances; installation of drip-irrigation systems; improvements in generator efficiency and appliance efficiency ratings; efficiency improvements for vehicles and transportation (such as fleet changeout); power storage (such as flywheels and batteries, generally less than 10 megawatt equivalent); transportation management systems (such as traffic signal control systems, car navigation, speed cameras, and automatic plate number recognition); development of energy-efficient manufacturing ~~or~~, industrial, or building practices; and small-scale energy efficiency and conservation ~~and renewable energy~~ research and development and small-scale pilot projects. ~~The~~ Covered actions ~~could involve~~ include building renovations or new structures, provided that they occur in a previously disturbed or developed area. Covered actions could involve ~~in~~ commercial, residential, agricultural, academic, institutional, or industrial sectors. ~~These~~ Covered actions do not include rulemakings, standard-settings, or proposed DOE legislation, except for those actions listed in B5.1(b) of this appendix.

(b) Covered actions include rulemakings that establish energy conservation standards for consumer products and industrial equipment, provided that the actions would not: (1) have the potential to cause a significant change in manufacturing infrastructure (such as construction of new manufacturing plants with considerable associated ground disturbance); (2) involve significant unresolved conflicts concerning alternative uses of available resources (such as rare or limited raw materials); (3) have the potential to result in a significant increase in the disposal of materials posing significant risks to human health and the environment (such as RCRA hazardous wastes); or (4) have the potential to cause a significant increase in energy consumption in a state or region.

B5.2 Modifications to pumps and piping

Modifications to existing ~~oil, gas, and geothermal facility~~ pump and piping configurations (including, but not limited to, ~~manifolds, metering systems, and other instrumentation on such configurations conveying materials such as air, brine, carbon dioxide, geothermal system fluids, hydrogen gas, natural gas, nitrogen gas, oil, produced water, steam, and water~~). Covered modifications ~~that~~ would not have the potential to cause significant changes to design process flow rates or ~~affect~~ permitted air emissions.

B5.3 Modification or abandonment of wells

Modification (but not expansion) or plugging and abandonment of wells, provided that site characterization has verified a low potential for seismicity, subsidence, and contamination of freshwater aquifers, and the actions are otherwise consistent with best practices and DOE protocols, including those that protect against uncontrolled releases of harmful materials. Such wells may include, but are not limited to, ~~(including plugging), which is not part of site closure,~~ storage and injection wells ~~for of crude oil storage access wells,~~ brine, carbon dioxide, coalbed methane, gas hydrate, ~~injection wells,~~ geothermal wells, and natural gas-, and oil wells. Covered modifications would not be part of site closure.

B5.4 Repair or replacement of pipelines

Repair ~~or~~, replacement, upgrading, rebuilding, or minor relocation of pipelines within existing rights-of-way, provided that the actions are in accordance with applicable requirements (such as ~~sections of a crude oil, produced water, brine, or geothermal pipeline, if the actions are determined by the~~ Army Corps of Engineers ~~to be within the maintenance provisions of a DOE~~ permits under section 404 of the Clean Water Act). Pipelines may convey materials including, but not limited to, air, brine, carbon dioxide, geothermal system fluids, hydrogen gas, natural gas, nitrogen gas, oil, produced water, steam, and water.

B5.5 Short pipeline segments

Construction and subsequent operation of short (generally less than 20 miles in length) ~~crude oil, steam, geothermal, or natural gas~~ pipeline segments conveying materials (such as air, brine, carbon dioxide, geothermal system fluids, hydrogen gas, natural gas, nitrogen gas, oil, produced water, steam, and water) between ~~DOE~~ existing source facilities and existing receiving facilities (such as facilities for use, reuse, transportation, storage, ~~or~~ and refining ~~facilities~~), ~~within a single industrial complex, if~~ provided that the pipeline segments are within ~~existing~~ previously disturbed or developed rights-of-way.

B5.6 Oil spill cleanup

Removal of oil and contaminated materials recovered in oil spill cleanup operations and disposal of these materials in accordance with applicable requirements (such as the National Oil and Hazardous Substances Pollution Contingency Plan ~~(NCP)~~ ~~and disposed of in accordance with local contingency plans in accordance with the NCP~~).

B5.7 Import or export natural gas, with operational changes

Approvals or disapprovals of new authorizations or amendments of existing authorizations to import ~~or~~ export natural gas under section 3 of the Natural Gas Act that ~~does not~~ involve ~~new minor construction and only requires~~ operational changes; (such as ~~an~~ ~~increase~~ changes in natural gas throughput, ~~change in~~ transportation, ~~or change in~~ and storage operations) but not new construction.

B5.8 Import or export natural gas, with new cogeneration powerplant

Approvals or disapprovals of new authorizations or amendments of existing authorizations to import ~~or~~ export natural gas under section 3 of the Natural Gas Act ~~involving that~~ ~~involve~~ a new cogeneration powerplants (as defined in the Powerplant and Industrial Fuel Use Act of 1978, as amended) within or ~~adjacent~~ contiguous to an existing industrial complex and requiring generally less than 10 miles of new natural gas pipeline or 20 miles within previously disturbed or developed rights-of-way.

B5.9 Temporary exemptions for electric powerplants

~~The~~ Grants or denials of ~~any~~ temporary exemptions under the Powerplant and Industrial Fuel Use Act of 1978, as amended, for ~~any~~ electric powerplants.

B5.10 Certain permanent exemptions for existing electric powerplants

For existing electric powerplants, ~~The~~ grants or denials of ~~any~~ permanent exemptions under the Powerplant and Industrial Fuel Use Act of 1978, as amended, ~~of any existing electric powerplant~~ other than ~~an~~ exemptions under ~~(1)~~ section 312(c) relating to

cogeneration, ~~(2) section 312(l) relating to scheduled equipment outages, (3) and section 312(b) relating to certain state or local requirements, and (4) section 312(g) relating to certain intermediate load powerplants.~~

B5.11 Permanent exemptions allowing mixed natural gas and petroleum

For new electric powerplants, ~~The grants or denials of a~~ permanent exemptions from the prohibitions of Title II of the Powerplant and Industrial Fuel Use Act of 1978, ~~as amended, for any new electric powerplant~~ to permit the use of certain fuel mixtures containing natural gas or petroleum.

B5.12 Workover of existing wells

Workover (operations to restore production, such as deepening, plugging back, pulling and resetting lines, and squeeze cementing) of ~~an existing oil, gas, or geothermal wells~~ (including, but not limited to, activities associated with brine, carbon dioxide, coalbed methane, gas hydrate, geothermal, natural gas, and oil) to restore ~~production~~ functionality, provided that ~~when~~ workover operations ~~will be~~ restricted to the existing wellpad and do not involve any new site preparation or earth-work that would ~~adversely affect~~ have the potential to cause significant impacts on nearby ~~adjacent~~ habitat; that site characterization has verified a low potential for seismicity, subsidence, and contamination of freshwater aquifers; and the actions are otherwise consistent with best practices and DOE protocols, including those that protect against uncontrolled releases of harmful materials.

B5.13 Experimental wells for injection of small quantities of carbon dioxide

Siting, construction, operation, plugging, and abandonment of experimental wells for the injection of small quantities of carbon dioxide (and other incidentally co-captured gases) in locally characterized, geologically secure storage formations at or near existing carbon dioxide sources to determine the suitability of the formations for large-scale sequestration, provided that (1) the characterization has verified a low potential for seismicity, subsidence, and contamination of freshwater aquifers; (2) the wells are otherwise in accordance with applicable requirements, best practices, and DOE protocols, including those that protect against uncontrolled releases of harmful materials; and (3) the wells and associated drilling activities are sufficiently remote so that they would not have the potential to cause significant impacts related to noise and other vibrations. Wells may be used for enhanced oil or natural gas recovery or for secure storage of carbon dioxide in saline formations or other secure formations. Over the duration of a project, the wells would be used to inject, in aggregate, less than 500,000 tons of carbon dioxide into the geologic formation. Covered actions exclude activities in aquatic environments. (See B3.16 of this appendix for activities in aquatic environments.)

B5.14 Combined heat and power or cogeneration systems

Conversion to, replacement of, or modification of combined heat and power or cogeneration systems (the sequential or simultaneous production of multiple forms of energy, such as thermal and electrical energy, in a single integrated system) at existing facilities, provided that the conversion, replacement, or modification would not have the potential to cause a significant increase in the quantity or rate of air emissions and would not have the potential to cause significant impacts to water resources.

B5.15 Small-scale renewable energy research and development and pilot projects

Small-scale renewable energy research and development projects and small-scale pilot projects, provided that the projects are located within a previously disturbed or developed area. Covered actions would be in accordance with applicable requirements (such as local land use and zoning requirements) in the proposed project area and would incorporate appropriate control technologies and best management practices.

B5.16 Solar photovoltaic systems

The installation, modification, operation, and removal of commercially available solar photovoltaic systems located on a building or other structure (such as rooftop, parking lot or facility, and mounted to signage, lighting, gates, or fences), or if located on land, generally comprising less than 10 acres within a previously disturbed or developed area. Covered actions would be in accordance with applicable requirements (such as local land use and zoning requirements) in the proposed project area and would incorporate appropriate control technologies and best management practices.

B5.17 Solar thermal systems

The installation, modification, operation, and removal of commercially available small-scale solar thermal systems (including, but not limited to, solar hot water systems) located on or contiguous to a building, and if located on land, generally comprising less than 10 acres within a previously disturbed or developed area. Covered actions would be in accordance with applicable requirements (such as local land use and zoning requirements) in the proposed project area and would incorporate appropriate control technologies and best management practices.

B5.18 Wind turbines

The installation, modification, operation, and removal of a small number (generally not more than 2) of commercially available wind turbines, with a total height generally less than 200 feet (measured from the ground to the maximum height of blade rotation) that (1) are located within a previously disturbed or developed area; (2) are located more than 10 nautical miles (about 11.5 miles) from an airport or aviation navigation aid; (3) are located more than 1.5 nautical miles (about 1.7 miles) from National Weather Service or Federal Aviation Administration Doppler weather radar; (4) would not have the potential to cause significant impacts on bird or bat populations; and (5) are sited or designed such that the project would not have the potential to cause significant impacts to persons (such as from shadow flicker and other visual effects, and noise). Covered actions would be in accordance with applicable requirements (such as local land use and zoning requirements) in the proposed project area and would incorporate appropriate control technologies and best management practices. Covered actions include only those related to wind turbines to be installed on land.

B5.19 Ground source heat pumps

The installation, modification, operation, and removal of commercially available small-scale ground source heat pumps to support operations in single facilities (such as a school or community center) or contiguous facilities (such as an office complex) (1) only where (a) major associated activities (such as drilling and discharge) are regulated, and (b) appropriate leakage and contaminant control measures would be in place (including for cross-contamination between aquifers); (2) that would not have the potential to cause

significant changes in subsurface temperature; and (3) would be located within a previously disturbed or developed area. Covered actions would be in accordance with applicable requirements (such as local land use and zoning requirements) in the proposed project area and would incorporate appropriate control technologies and best management practices.

B5.20 Biomass power plants

The installation, modification, operation, and removal of small-scale biomass power plants (generally less than 10 megawatts), using commercially available technology (1) intended primarily to support operations in single facilities (such as a school and community center) or contiguous facilities (such as an office complex); (2) that would not affect the air quality attainment status of the area and would not have the potential to cause a significant increase in the quantity or rate of air emissions and would not have the potential to cause significant impacts to water resources; and (3) would be located within a previously disturbed or developed area. Covered actions would be in accordance with applicable requirements (such as local land use and zoning requirements) in the proposed project area and would incorporate appropriate control technologies and best management practices.

B5.21 Methane gas recovery and utilization systems

The installation, modification, operation, and removal of commercially available methane gas recovery and utilization systems installed within a previously disturbed or developed area on or contiguous to an existing landfill or wastewater treatment plant that would not have the potential to cause a significant increase in the quantity or rate of air emissions. Covered actions would be in accordance with applicable requirements (such as local land use and zoning requirements) in the proposed project area and would incorporate appropriate control technologies and best management practices.

B5.22 Alternative fuel vehicle fueling stations

The installation, modification, operation, and removal of alternative fuel vehicle fueling stations (such as for compressed natural gas, hydrogen, ethanol and other commercially available biofuels) on the site of a current or former fueling station, or within a previously disturbed or developed area within the boundaries of a facility managed by the owners of a vehicle fleet. Covered actions would be in accordance with applicable requirements (such as local land use and zoning requirements) in the proposed project area and would incorporate appropriate control technologies and best management practices.

B5.23 Electric vehicle charging stations

The installation, modification, operation, and removal of electric vehicle charging stations, using commercially available technology, within a previously disturbed or developed area. Covered actions are limited to areas where access and parking are in accordance with applicable requirements (such as local land use and zoning requirements) in the proposed project area and would incorporate appropriate control technologies and best management practices.

B5.24 Drop-in hydroelectric systems

The installation, modification, operation, and removal of commercially available small-scale, drop-in, run-of-the-river hydroelectric systems that would (1) involve no

water storage or water diversion from the stream or river channel where the system is installed and (2) not have the potential to cause significant impacts on water quality, temperature, flow, or volume. Covered systems would be located up-gradient of an existing anadromous fish barrier that is not planned for removal and where fish passage retrofit is not planned and where there would not be the potential for significant impacts to threatened or endangered species or other species of concern (as identified in B(4)(ii) of this appendix). Covered actions would involve no major construction or modification of stream or river channels, and the hydroelectric systems would be placed and secured in the channel without the use of heavy equipment. Covered actions would be in accordance with applicable requirements (such as local land use and zoning requirements) in the proposed project area and would incorporate appropriate control technologies and best management practices.

B5.25 Small-scale renewable energy research and development and pilot projects in aquatic environments

Small-scale renewable energy research and development projects and small-scale pilot projects located in aquatic environments. Activities would be in accordance with, where applicable, an approved spill prevention, control, and response plan, and would incorporate appropriate control technologies and best management practices. Covered actions would not occur (1) within areas of hazardous natural bottom conditions or (2) within the boundary of an established marine sanctuary or wildlife refuge, a governmentally proposed marine sanctuary or wildlife refuge, or a governmentally recognized area of high biological sensitivity, unless authorized by the agency responsible for such refuge, sanctuary, or area (or after consultation with the responsible agency, if no authorization is required). If the proposed activities would occur outside such refuge, sanctuary, or area and if the activities would have the potential to cause impacts within such refuge, sanctuary, or area, then the responsible agency shall be consulted in order to determine whether authorization is required and whether such activities would have the potential to cause significant impacts on such refuge, sanctuary, or area. Areas of high biological sensitivity include, but are not limited to, areas of known ecological importance, whale and marine mammal mating and calving/pupping areas, and fish and invertebrate spawning and nursery areas recognized as being limited or unique and vulnerable to perturbation; these areas can occur in bays, estuaries, near shore, and far offshore, and may vary seasonally. No permanent facilities or devices would be constructed or installed. Covered actions do not include drilling of resource exploration or extraction wells, use of large-scale vibratory coring techniques, or seismic activities other than passive techniques.

B6. Categorical Exclusions Applicable to Environmental Restoration and Waste Management Activities

B6.1 Cleanup actions

Small-scale, short-term cleanup actions, under RCRA, Atomic Energy Act, or other authorities, less than approximately ~~5-10~~ million dollars in cost (in 2011 dollars), and ~~5-~~ years duration, to reduce risk to human health or the environment from the release or threat of release of a hazardous substance other than high-level radioactive waste and spent

nuclear fuel, including treatment (~~e.g., such as~~ incineration, encapsulation, physical or chemical separation, and compaction), recovery, storage, or disposal of wastes at existing facilities currently handling the type of waste involved in the action. These actions include, but are not limited to:

- (a) Excavation or consolidation of contaminated soils or materials from drainage channels, retention basins, ponds, and spill areas that are not receiving contaminated surface water or wastewater, if surface water or groundwater would not collect and if such actions would reduce the spread of, or direct contact with, the contamination;
- (b) Removal of bulk containers (~~for examplesuch as,~~ drums, and barrels) that contain or may contain hazardous substances, pollutants, contaminants, CERCLA-excluded petroleum or natural gas products, or hazardous wastes (designated in 40 CFR part 261 or applicable state requirements), if such actions would reduce the likelihood of spillage, leakage, fire, explosion, or exposure to humans, animals, or the food chain;
- (c) Removal of an underground storage tank including its associated piping and underlying containment systems in accordance with applicable requirements (~~such as compliance with~~ RCRA, subtitle I; 40 CFR part 265, subpart J; and 40 CFR part 280, subparts F and G) if such action would reduce the likelihood of spillage, leakage, or the spread of, or direct contact with, contamination;
- (d) Repair or replacement of leaking containers;
- (e) Capping or other containment of contaminated soils or sludges if the capping or containment would not ~~affect unduly limit~~ future groundwater remediation and if needed to reduce migration of hazardous substances, pollutants, contaminants, or CERCLA-excluded petroleum and natural gas products into soil, groundwater, surface water, or air;
- (f) Drainage or closing of man-made surface impoundments if needed to maintain the integrity of the structures;
- (g) Confinement or perimeter protection using dikes, trenches, ditches, or diversions, or installing underground barriers, if needed to reduce the spread of, or direct contact with, the contamination;
- (h) Stabilization, but not expansion, of berms, dikes, impoundments, or caps if needed to maintain integrity of the structures;
- (i) Drainage controls (~~for examplesuch as,~~ run-off or run-on diversion) if needed to reduce offsite migration of hazardous substances, pollutants, contaminants, or CERCLA-excluded petroleum or natural gas products or to prevent precipitation or run-off from other sources from entering the release area from other areas;
- (j) Segregation of wastes that may react with one another or form a mixture that could result in adverse environmental impacts;
- (k) Use of chemicals and other materials to neutralize the pH of wastes;
- (l) Use of chemicals and other materials to retard the spread of the release or to mitigate its effects if the use of such chemicals would reduce the spread of, or direct contact with, the contamination;

- (m) Installation and operation of gas ventilation systems in soil to remove methane or petroleum vapors without any toxic or radioactive co-contaminants if appropriate filtration or gas treatment is in place;
- (n) Installation of fences, warning signs, or other security or site control precautions if humans or animals have access to the release; and
- (o) Provision of an alternative water supply that would not create new water sources if necessary immediately to reduce exposure to contaminated household or industrial use water and continuing until such time as local authorities can satisfy the need for a permanent remedy.

B6.2 Waste collection, treatment, stabilization, and containment facilities

The siting, construction, and operation of temporary (generally less than 2 years) pilot-scale waste collection and treatment facilities, and pilot-scale (generally less than ~~one~~ 1 acre) waste stabilization and containment facilities (including siting, construction, and operation of a small-scale laboratory building or renovation of a room in an existing building for sample analysis), ~~if provided that~~ the action: (1) ~~Supports~~ ~~supports~~ remedial investigations/feasibility studies under CERCLA, or similar studies under RCRA; (such as RCRA facility investigations/corrective measure studies, ~~;~~) or other authorities, and (2) would not unduly limit the choice of reasonable remedial alternatives (such as by permanently altering substantial site area or by committing large amounts of funds relative to the scope of the remedial alternatives).

B6.3 Improvements to environmental control systems

Improvements to environmental monitoring and control systems of an existing building or structure (~~for example, such as~~ changes to scrubbers in air quality control systems or ion-exchange devices and other filtration processes in water treatment systems), ~~if provided that~~ during subsequent operations (1) any substance collected by the environmental control systems would be recycled, released, or disposed of within existing permitted facilities and (2) there are applicable statutory or regulatory requirements or permit conditions for disposal, release, or recycling of any hazardous substance or CERCLA-excluded petroleum or natural gas products that are collected or released in increased quantity or that were not previously collected or released.

B6.4 Facilities for storing packaged hazardous waste for 90 days or less

Siting, construction (~~or, modification or, expansion~~), operation, and decommissioning of an onsite facility for storing packaged hazardous waste (as designated in 40 CFR part 261) for 90 days or less or for longer periods as provided in 40 CFR 262.34 (d), (e), or (f) (~~e.g., such as~~ accumulation or satellite areas).

B6.5 Facilities for characterizing and sorting packaged waste and overpacking waste

Siting, construction (~~or, modification or, expansion~~), operation, and decommissioning of an onsite facility for characterizing and sorting previously packaged waste or for overpacking waste, other than high-level radioactive waste, ~~if provided that~~ operations do not involve unpacking waste. These actions do not include waste storage (covered under B6.4, B6.6, B6.10 ~~, and C16~~ of this appendix, and C16 of appendix C) or the handling of spent nuclear fuel.

B6.6 Modification of facilities for storing, packaging, and repacking waste

Modification (excluding increases in capacity) of an existing structure used for storing, packaging, or repacking waste other than high-level radioactive waste or spent nuclear fuel, to handle the same class of waste as currently handled at that structure.

B6.7 ~~[Reserved] Under the Low-Level Radioactive Waste Policy Amendments Act of 1985 (5(e)(5)), granting of a petition qualified under 10 CFR 730.6 for allocation of commercial disposal capacity for an unusual or unexpected volume of commercial low-level radioactive waste or denying such a petition when adequate storage capacity exists at the petitioner's facility.~~

B6.8 Modifications for waste minimization and reuse of materials

Minor operational changes at an existing facility to minimize waste generation and for reuse of materials. These changes include, but are not limited to, adding filtration and recycle piping to allow reuse of machining oil, setting up a sorting area to improve process efficiency, and segregating two waste streams previously mingled and assigning new identification codes to the two resulting wastes.

B6.9 Measures to reduce migration of contaminated groundwater

Small-scale temporary measures to reduce migration of contaminated groundwater, including the siting, construction, operation, and decommissioning of necessary facilities. These measures include, but are not limited to, pumping, treating, storing, and reinjecting water, by mobile units or facilities that are built and then removed at the end of the action.

B6.10 Upgraded or replacement waste storage facilities

Siting, construction ~~(or, modification)~~, expansion, operation, and decommissioning of a small upgraded or replacement facility (less than approximately 50,000 square feet in area) ~~at a DOE site~~ within or contiguous to ~~an already~~ previously disturbed or developed area (where active utilities and currently used roads are readily accessible) for storage of waste that is already at the site at the time the storage capacity is to be provided. These actions do not include the storage of high-level radioactive waste, spent nuclear fuel or any waste that requires special precautions to prevent nuclear criticality. (See also B6.4, B6.5, B6.6 of this appendix, and C16 of appendix C.)

B7. Categorical Exclusions Applicable to International Activities

B7.1 Emergency measures under the International Energy Program

Planning and implementation of emergency measures pursuant to the International Energy Program.

B7.2 Import and export of special nuclear or isotopic materials

Approval of import or export of small quantities of special nuclear materials or isotopic materials in accordance with applicable requirements (such as the Nuclear Non-Proliferation Act of 1978 and the ~~“PP~~ Procedures Established Pursuant to the Nuclear ~~Non-Non~~-Proliferation Act of ~~1978-1978~~” (43 FR 25326, June 9, 1978)).

Appendix C to Subpart D of Part 1021—Classes of Actions That Normally Require EAs But Not Necessarily EISs

Table of Contents

C1	[Reserved]
C2	[Reserved]
C3	Electric power marketing rate changes, not within normal operating limits
C4	Upgrading, rebuilding, or construction of powerlines
C5	Vegetation management program
C6	Erosion control program
C7	Contracts, policies, and marketing and allocation plans for electric power
C8	Protection of cultural resources and fish and wildlife habitat
C9	Wetlands demonstration projects
C10	[Reserved]
C11	Particle acceleration facilities
C12	Energy system demonstration actions
C13	Import or export natural gas involving minor new construction
C14	Water treatment facilities
C15	Research and development incinerators and nonhazardous waste incinerators
C16	Large waste packaging and storage facilities

~~C1.—[Reserved]~~

~~C2.—Rate increases more than inflation, not power marketing~~

~~C3.—Electric power marketing rate changes, not within normal operating limits.~~

~~C4.—Reconstructing and constructing electric powerlines.~~

~~C5.—Implementation of Power Marketing Administration systemwide vegetation management program—~~

~~C6.—Implementation of Power Marketing Administration systemwide erosion control program—~~

~~C7.—Allocation of electric power, no major new generation resource/major changes in operation of generation resources/ major new loads.~~

~~C8.—Protection of fish and wildlife habitat~~

~~C9.—Field demonstration projects for wetlands~~

~~C10.—[Reserved]~~

~~C11.—Siting/construction/operation/decommissioning of low- or medium-energy particle acceleration facility with primary beam energy greater than approximately 100 MeV~~

~~C12.—Siting/construction/operation of energy system prototypes—~~

~~C13.—Import/export natural gas, minor new construction (other than a cogeneration powerplant)—~~

~~C14.—Siting/construction/operation of water treatment facilities greater than approximately 250,000 gallons per day capacity—~~

~~C15.—Siting/construction/operation of research and development incinerators/
nonhazardous waste incinerators—~~

~~C16.—Siting/construction/operation/decommissioning of large waste storage facilities—~~

C1 [Reserved]

~~C2 [Reserved]Rate increases for products or services marketed by DOE, except for electric power, power transmission, and other products or services provided by the Power Marketing Administrations, and approval of rate increases for non-DOE entities, that exceed the change in the overall price level in the economy (inflation), as measured by the GNP fixed weight price index published by the Department of Commerce, during the period since the last rate increase for that product or service.~~

C3 Electric power marketing rate changes, not within normal operating limits

Rate changes for electric power, power transmission, and other products or services provided by Power Marketing Administrations that are based on changes in revenue requirements if the operations of generation projects would not remain within normal operating limits.

C4 Upgrading, rebuilding, or construction of powerlines

~~Reconstructing (u~~Upgrading or rebuilding) ~~existing electric powerlines~~ more than approximately 20 miles in length of existing powerlines; or ~~constructing~~ construction of ~~new electric~~ powerlines (1) more than approximately 10 miles in length outside previously disturbed or developed powerline or pipeline rights-of-way or (2) more than approximately 20 miles in length within previously disturbed or developed powerline or pipeline rights-of-way.

C5 Vegetation management program

Implementation of a Power Marketing Administration system-wide vegetation management program.

C6 Erosion control program

Implementation of a Power Marketing Administration system-wide erosion control program.

C7 Contracts, policies, and marketing and allocation plans for electric power

Establishment and implementation of contracts, policies, and marketing ~~plans, or~~ and allocation plans ~~for the allocation of~~ related to electric power acquisition that ~~do not~~ involve (1) the ~~interconnection of, or acquisition of power from, new generation resources that are equal to or less~~ addition of new generation resources ~~greater~~ than 50 average megawatts; (2) ~~major~~ changes in the normal operating limits of generation resources ~~greater equal to or less~~ than 50 average megawatts; or (3) service to discrete new loads of less than 10 average megawatts ~~or more~~ over a ~~12-12~~ 12-month period. ~~This applies to power marketing operations and to siting, construction, and operation of power generating facilities at DOE sites.~~

C8 Protection of cultural resources and fish and wildlife habitat

Large-scale activities undertaken to ~~P~~protection cultural resources (such as fencing, labeling, and flagging) or to protect, restoration, or improvement of fish and wildlife habitat, fish passage facilities (such as fish ladders and minor diversion channels), ~~and~~ fish fisheries ~~hatcheries if the proposed action may adversely affect an environmentally sensitive resource.~~

C9 Wetlands demonstration projects

Field demonstration projects for wetlands mitigation, creation, and restoration.

C10 [Reserved]

C11 Particle acceleration facilities

Siting, construction ~~(or or modification)~~, operation, and decommissioning of a low- or medium-energy (when the primary beam energy exceeds approximately 100 million electron volts and the average beam power exceeds approximately 250 kilowatts or where the average current exceeds 2.5 milliamperes ~~but greater than approximately 100 MeV primary beam energy~~) particle acceleration ~~facility~~ facilities, including electron beam acceleration facilities, and associated beamlines, storage rings, colliders, and detectors for research and medical purposes, within or contiguous to a ~~previously disturbed or~~ ~~already~~ developed area (where active utilities and currently used roads are readily accessible).

C12 Energy system demonstration actions

Siting, construction, ~~and~~ operation, and decommissioning of energy system ~~prototypes-~~ demonstration actions (including, but not limited to, wind resource, hydropower, geothermal, fossil fuel, biomass, and solar energy, ~~but excluding nuclear~~). ~~pilot projects.~~ For purposes of this category, “demonstration actions” means actions that are undertaken at a scale to show whether a technology would be viable on a larger scale and suitable for commercial deployment.

C13 Import or export natural gas involving minor new construction

Approvals or disapprovals of ~~an application~~ authorizations to import or ~~/~~export natural gas under section 3 of the Natural Gas Act involving minor new construction ~~(other than a cogeneration powerplant)~~, (such as adding new connections, looping, or compression to an existing natural gas or liquefied natural gas pipeline, or converting an existing oil pipeline to a natural gas pipeline using the same right-of-way).

C14 Water treatment facilities

Siting, construction (or expansion), operation, and decommissioning of wastewater, surface water, potable water, and sewage treatment facilities with a total capacity greater than approximately 250,000 gallons per day, and of lower capacity wastewater and surface water treatment facilities whose liquid discharges are not subject to external regulation.

C15 Research and development incinerators and nonhazardous waste incinerators

Siting, construction (or expansion), ~~and~~ operation, and decommissioning of research and development incinerators for any type of waste and of any other incinerators that would treat nonhazardous solid waste (as designated in 40 CFR ~~Part~~ 261.4(b)).

C16 Large waste packaging and storage facilities

Siting, construction ~~(or, modification to increase capacity)~~, operation, and decommissioning of packaging and unpacking facilities ~~(that may include such as~~ characterization operations) and large storage facilities (greater than approximately 50,000 square feet in area) for waste, except high-level radioactive waste, generated onsite or resulting from activities connected to site operations. These actions do not include storage, packaging, or unpacking of spent nuclear fuel. (See also B6.4, B6.5, B6.6, and B6.10 of appendix B.)

Appendix D to Subpart D of Part 1021—Classes of Actions That Normally Require EISs

Table of Contents

D1	[Reserved]
D2	Nuclear fuel reprocessing facilities
D3	Uranium enrichment facilities
D4	Reactors
D5	[Reserved]
D6	[Reserved]
D7	Contracts, policies, and marketing and allocation plans for electric power
D8	Import or export of natural gas involving major new facilities
D9	Import or export of natural gas involving major operational change
D10	Treatment, storage, and disposal facilities for high-level waste and spent nuclear fuel
D11	Waste disposal facilities for transuranic waste
D12	Incinerators

~~D1.—Strategic Systems—~~

~~D2.—Siting/construction/operation/decommissioning of nuclear fuel reprocessing facilities~~

~~D3.—Siting/construction/operation/decommissioning of uranium enrichment facilities~~

~~D4.—Siting/construction/operation/decommissioning of reactors~~

~~D5.—Main transmission system additions~~

~~D6.—Integrating transmission facilities~~

~~D7.—Allocation of electric power, major new generation resources/major changes in operation of generation resources/major loads.~~

~~D8.—Import/export of natural gas, involving major new facilities D9. Import/export of natural gas, involving significant operational change—~~

~~D10.—Siting/construction/operation/decommissioning of major treatment, storage, and disposal facilities for high-level waste and spent nuclear fuel—~~

~~D11.—Siting/construction/expansion of waste disposal facility for transuranic waste—~~

~~D12. Siting/construction/operation of incinerators (other than research and development, other than nonhazardous solid waste)~~

D1 [Reserved] Strategic Systems

~~Strategic Systems, as defined in DOE Order 430.1, "Life Cycle Asset Management," or its successor, and designated by the Secretary.~~

D2 Nuclear fuel reprocessing facilities

Siting, construction, operation, and decommissioning of nuclear fuel reprocessing facilities.

D3 Uranium enrichment facilities

Siting, construction, operation, and decommissioning of uranium enrichment facilities.

D4 Reactors

Siting, construction, operation, and decommissioning of power reactors, nuclear material production reactors, and test and research reactors.

~~D5 [Reserved] Main transmission system additions (that is, additions of new transmission lines) to a Power Marketing Administration's main transmission grid.~~

~~D6 [Reserved] Integrating transmission facilities (that is, transmission system additions for integrating major new sources of generation into a Power Marketing Administration's main grid).~~

D7 Contracts, policies, and marketing and allocation plans for electric power

Establishment and implementation of contracts, policies, and marketing plans ~~or~~ and allocation plans ~~for the allocation of~~ related to electric power acquisition that involve (1) the ~~addition~~ interconnection of, or acquisition of power from, new generation resources greater than 50 average megawatts; (2) ~~major~~ changes in the normal operating limits of generation resources greater than 50 average megawatts; or (3) service to discrete new loads of 10 average megawatts or more over a ~~12~~ 12-month period.

~~This applies to power marketing operations and to siting construction, and operation of power generating facilities at DOE sites.~~

D8 Import or export of natural gas involving major new facilities

Approvals or disapprovals of ~~an application~~ authorizations to import ~~or~~ export natural gas under section 3 of the Natural Gas Act involving construction of major new natural gas pipelines ~~construction~~ or related facilities; (such as ~~construction of new~~ liquefied natural gas (LNG) terminals and; regasification or storage facilities); or a significant expansions and modifications of ~~an~~ existing pipelines or related facility ~~or LNG terminal, regasification, or storage facilities~~.

D9 Import or export of natural gas involving major operational change

Approvals or disapprovals of ~~an application~~ authorizations to import ~~or~~ export natural gas under section 3 of the Natural Gas Act involving a significant ~~major~~ operational changes; (such as a major increase in the quantity of liquid-liquefied natural gas imported or exported).

D10 Treatment, storage, and disposal facilities for high-level waste and spent nuclear fuel

Siting, construction, operation, and decommissioning of major treatment, storage, and disposal facilities for high-level waste and spent nuclear fuel, including geologic repositories, but not including onsite replacement or upgrades of storage facilities for spent nuclear fuel at DOE sites where such replacement or upgrade ~~will~~would not result in increased storage capacity.

D11 Waste disposal facilities for transuranic waste

Siting, construction ~~(or expansion)~~, and operation of ~~a~~disposal facilities~~y~~ for transuranic (TRU) waste and TRU mixed waste (TRU waste also containing hazardous waste as designated in 40 CFR part 261).

D12 Incinerators

Siting, construction, and operation of incinerators, other than research and development incinerators or incinerators for nonhazardous solid waste (as designated in 40 CFR ~~part-~~ 261.4(b)).