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This section of the FEDERAL REGISTER contains notices to the public of the proposed issuance of rules and regulations. The purpose of these notices is to give interested persons an opportunity to participate in the rule making prior to the adoption of the final rules.

NUCLEAR REGULATORY COMMISSION

10 CFR Part 63 RIN 3150-AG91

Specification of a Probability for Unlikely Features, Events and Processes

AGENCY: Nuclear Regulatory

Commission.

ACTION: Proposed rule.

SUMMARY: The Nuclear Regulatory Commission (NRC) is proposing to amend its regulations governing the disposal of high-level radioactive wastes in a potential geologic repository at Yucca Mountain, Nevada, to define the term "unlikely" in quantitative terms. That is, it would be defined as a range of numerical values for use in determining whether a feature, event, or process (FEP) or sequence of events and processes should be excluded from certain required assessments. The NRC is proposing this amendment to clarify how it plans to implement two of the final environmental standards for Yucca Mountain issued by the U.S. Environmental Protection Agency (EPA). Specifically, EPA's final standards require the exclusion of ''unlikely'' FEPs, or sequences of events and processes, from the required assessments for the human intrusion and ground-water protection standards. In accordance with the Energy Policy Act of 1992, the NRC has adopted EPA's final standards in its recently published technical requirements for a potential geologic repository at Yucca Mountain. **DATES:** The comment period expires

DATES: The comment period expires April 10, 2002. Comments received after this date will be considered if it is practical to do so, but NRC is able to assure consideration only for comments received on or before this date.

ADDRESSES: Submit comments to: Secretary, U.S. Nuclear Regulatory Commission, Washington, DC 20555– 0001, Attn: Rulemakings and Adjudications Staff. Deliver comments to 11555 Rockville Pike, Rockville, MD, between 7:30 a.m. and 4:15 p.m. on Federal workdays.

You may also provide comments via NRC's interactive rulemaking website http://ruleforum.llnl.gov. This site provides the capability to upload comments as files (any format) if your web browser supports that function. For information about the interactive rulemaking website, contact Ms. Carol Gallagher (301) 415–5905; e-mail cag@nrc.gov.

Certain documents related to this rulemaking, including comments received, may be examined at the NRC Public Document Room (PDR), Room O–1F23, 11555 Rockville Pike, Rockville, MD. These same documents may also be viewed and downloaded electronically via the rulemaking website.

NRC maintains an Agencywide Document Access and Management System (ADAMS), which provides text and image files of NRC's public documents. These documents may be accessed through NRC's Public Electronic Reading Room on the Internet at http://www.nrc.gov/NRC/ADAMS/index.html. If you do not have access to ADAMS, or if there are problems in accessing the documents located in ADAMS, contact the NRC PDR Reference staff at 1–800–397–4209, or 301–415–4737; or by email to: pdr@nrc.gov.

FOR FURTHER INFORMATION CONTACT:

Timothy McCartin, Office of Nuclear Material Safety and Safeguards, U.S. Nuclear Regulatory Commission, Washington, DC 20555–0001, telephone (301) 415–7285, e-mail: tjm3@nrc.gov; or Clark Prichard, Office of Nuclear Material Safety and Safeguards, U.S. Nuclear Regulatory Commission, Washington, DC 20555–0001, telephone (301) 415–6203, e-mail: cwp@nrc.gov.

SUPPLEMENTARY INFORMATION:

I. Background

On November 2, 2001 (66 FR 55732), the U.S. Nuclear Regulatory Commission (NRC) published its final rule, 10 CFR Part 63, governing disposal of high-level radioactive wastes in a potential geologic repository at Yucca Mountain, Nevada. These are the regulations that the U.S. Department of Energy (DOE) must meet in any license application for construction and operation of a potential repository. As mandated by the Energy Policy Act of

1992, Public Law 102–486 (EnPA), NRC's final rule adopts the radiation protection standards established by the U.S. Environmental Protection Agency (EPA) in 40 CFR Part 197 (66 FR 32074; June 13, 2001). EPA's standards for disposal include an individual protection standard (40 CFR 197.20); a human intrusion standard (40 CFR 197.25); and ground-water protection standards (40 CFR 197.30). These EPA standards have been incorporated into NRC's regulations at 10 CFR 63.311, 63.321, and 63.331, respectively.

DOE's performance assessments are required to consider the naturally occurring features, events, and processes (FEPs) that could affect the performance of a geologic repository (i.e., specific conditions or attributes of the geologic setting; degradation, deterioration, or alteration processes of engineered barriers; and interactions between natural and engineered barriers). EPA's standards include limits on what DOE must consider in performance assessments undertaken to determine whether the repository will perform in compliance with the standards (40 CFR 197.36). DOE's performance assessments shall not include consideration of "very unlikely" features, events or processes (FEPs), which EPA defines to be those FEPs that are estimated to have less than one chance in 10,000 of occurring within 10,000 years of disposal. In addition, EPA's standards require NRC to exclude "unlikely" FEPs, or sequences of events and processes, from the required assessments for demonstrating compliance with the human intrusion and ground-water protection standards. EPA did not define unlikely FEPs in its standards, but, rather, left the specific probability of the unlikely FEPs for NRC to define.

The Commission explained in its rulemaking establishing Part 63 that it "* * * fully supports excluding unlikely FEPs from analyses for estimating compliance with the standards for human intrusion and ground-water protection * * *," and that it "* * * considers a frequency for unlikely FEPs would fall somewhere between 10 -8 to 10 -4 per year * * *," but that it had decided not to provide a specific quantitative value for defining unlikely FEPs in the final rule (66 FR 55734; November 2, 2001). Instead, the Commission stated that it "* *

plan[ned] to conduct an expedited rulemaking to quantitatively define the term "unlikely." Consideration will be given to whether a range of values or a single specific value should be used as well as the appropriate numerical value(s). The expedited rulemaking will provide an opportunity for public comment to assist the Commission in determining an appropriate approach" (66 FR 55734; November 2, 2001). This proposed rule initiates the rulemaking to quantitatively define the term "unlikely" promised by the Commission.

II. Discussion

EPA's standards for disposal include an individual protection standard; a human intrusion standard; and groundwater protection standards. EPA's standards also prescribe that DOE should exclude "very unlikely" FEPs from the performance assessments used to determine compliance with the three postclosure standards (i.e., individual protection, human intrusion, and ground-water protection). Unlike the broader purposes served by the performance assessment for the allpathway individual protection standard, the performance assessments used to determine compliance with the human intrusion standard and the ground-water protection standards serve narrow, focused objectives. In the case of the performance assessment for human intrusion, the purpose is to evaluate the robustness of the repository system to the consequences of human intrusion. In the case of the performance assessment for ground-water protection, the purpose is to evaluate the degradation of the ground-water resource. Consistent with the specific purposes of these two standards, EPA prescribed specific conditions to be used in determining compliance with the human intrusion standard and the ground-water protection standards. For these two standards, EPA prescribed the exclusion of not only "very unlikely" FEPs, but also "unlikely" FEPs. Although EPA's final standards did not specify a numerical value to define unlikely FEPs in quantitative terms, the preamble to the standards stated that the exclusion of unlikely FEPs is intended to focus these assessments on the "expected" or "likely" performance of the repository. This intent is consistent

with the NRC approach of requiring the use of reasonable and prudently conservative assumptions in modeling exposure scenarios.

Under 10 CFR 63.321(b)(1), DOE must demonstrate the earliest time after disposal that the waste package would degrade sufficiently that a human intrusion could occur without recognition by the drillers and "* * * demonstrate that there is a reasonable expectation that the reasonably maximally exposed individual receives no more than an annual dose of 0.15 mSv (15 mrem) as a result of a human intrusion, at or before 10,000 years after disposal." The elements of the stylized human intrusion scenario are specified by 10 CFR 63.322 and specifically direct DOE to assume that no releases are included which are caused by unlikely natural processes and events. With respect to the ground-water standards (10 CFR 63.331), DOE must demonstrate that there is a reasonable expectation that, for 10,000 years of undisturbed performance (i.e., 10,000 years during which the occurrence of unlikely FEPs do not disturb the repository) after disposal, releases of radionuclides from waste in the Yucca Mountain disposal system into the accessible environment will not cause the level of radioactivity in the representative volume of ground water to exceed the limits specified in a table attached to 10 CFR 63.331

In assessing compliance with both the human intrusion standard and groundwater protection standards, 10 CFR 63.342 provides that unlikely FEPs, or sequences of events and processes, shall be excluded "* * * upon prior Commission approval for the probability limit used for unlikely FEPs." Although the Commission could review and approve a probability limit in the context of its review of a potential DOE license application, it is proposing to set this limit in advance, through the rulemaking process, so that it will have the advantage of public views on this question, and so that DOE, interested participants, and the public will have knowledge, before the license application, of what probability the Commission would find acceptable.

The Commission has considered whether the probability for unlikely FEPs should be defined as a single value or a range of values. A single value would be used as a probability limit such that each FEP with a probability less than the specified limit should be considered unlikely. A probability range

would be used to define the spread of probability (i.e., upper and lower values) that represents unlikely FEPs. Although both approaches specify an upper value for probability, a probability range provides a more complete description of the spread of probability that is identified with unlikely FEPs. The Commission is not aware of any disadvantages to using a range and therefore is specifying a probability range because it provides a better characterization of the range of probabilities associated with FEPs than what would be provided by a single number.

Assigning specific numerical values to a qualitative term such as "unlikely" is complicated by the subjective nature of this term. As a first step, the Commission found it useful to describe three broad categories to represent the entire probability range for what could occur at the Yucca Mountain repository site. These three categories are: (1) Verv unlikely; (2) unlikely; and (3) likely. As a practical matter, the rationale for the quantitative range defining unlikely FEPs is easier to describe in terms of the categories of likely and very unlikely, because unlikely is bounded by these two categories. Very unlikely FEPs have been described in the EPA standards as FEPs with such low probability of occurrence that they need not be considered in any performance assessments for Yucca Mountain. As mentioned previously, the EPA standards quantitatively define very unlikely FEPs as those FEPs with less than a 0.01 percent chance of occurring within the 10,000 year compliance period (i.e., annual probability less than 10^{-8}). In a qualitative sense, likely FEPs are those FEPs that can be reasonably expected to occur during the 10,000 year compliance period. From a probabilistic perspective, any FEP with an annual probability of 10 -4 or higher would have a high probability of occurring within the 10,000 year compliance period.² However, likely FEPs should include not only FEPs very likely to occur but also those reasonably likely to occur. Given uncertainties in estimating the occurrence of FEPs over a 10,000 year time period, the Commission believes a prudent decision is to consider FEPs with 10 percent or greater chance of occurring within the 10,000 year compliance period as likely FEPs. Thus, unlikely FEPs are defined as those FEPs with less than a 10

¹For example, the preamble states: (1) "[t]he assessment of resource pollution potential is based upon the engineered design of the repository being sufficiently robust under expected conditions to prevent unacceptable degradation of the groundwater resources over time" (66 FR 32114; June 12, 2001); and (2) the term "undisturbed," which is used in connection with demonstrating compliance

with the ground-water protection standards, means the "disposal system is not disturbed by human intrustion but that other processes or events that are likely to occur could disturb the system" (66 FR 32104; June 13, 2001).

² Estimating a high probability of occurrence for an FEP creates an expectation than an FEP will occur, however, it does not guarantee such an occurence; there is a chance that even high probability FEPs will not occur.

percent chance but greater than or equal to a 0.01 percent chance, of occurring within the 10,000 year compliance period (i.e., annual probability less than 10⁻⁵ but greater than or equal to 10⁻⁸ which is the upper boundary for very unlikely events).

In light of the foregoing discussion, the Commission seeks comment on the appropriateness of using an annual probability range of greater than or equal to 10^{-8} and less than 10^{-5} to define unlikely FEPs. As a matter of reference, current understanding of FEPs relevant to Yucca Mountain indicates that this designation would allow exclusion of igneous activity as an unlikely FEP, whereas a wide range of seismic events, fault movement, and rock fall would have higher probabilities than the upper bound for unlikely FEPs and would be included in the performance assessments for human intrusion and ground-water protection.

In arriving at this decision, the Commission considered the merits of using a lower value for the demarcation between likely and unlikely FEPs. For example, a 1 percent chance of occurring over the 10,000 year compliance period (i.e., annual probability of 10^{-6}) would also be considered unlikely. It is somewhat subjective whether a qualitative term such as "unlikely" should be quantitatively defined as less than a 1 or a 10 percent chance of occurring. Selection of an appropriate value needs to consider the context of the performance assessments (i.e., robustness of the repository system to the consequences of human intrusion and the degradation of the ground-water resource). As mentioned previously, the focus of the performance assessments for human intrusion and ground-water protection is to be on expected conditions. The Commission considers that an FEP having a 1 percent chance of occurring is neither expected nor likely and, therefore, an inappropriate value for the lower bound for likely events. The Commission believes a lower bound for likely FEPs of a 10 percent chance of occurring within the compliance period is consistent with the intended focus for these two standards. Although "unlikely" FEPs would not be considered in the performance assessments for human intrusion and ground-water protection, these FEPs are required to be considered in the performance assessment for the individual protection standard.

This rulemaking is proposing a probability range for unlikely FEPs as part of NRC's implementation of EPA's final standards for Yucca Mountain, in accordance with EnPA. Specification of

the probability for unlikely FEPs is in the context of assessments of compliance with the human intrusion standard and ground-water protection standards, which have a regulatory compliance period of 10,000 years. The Commission made clear in its final regulations in Part 63 that the "[C]riteria set out in this final rule apply specifically and exclusively to the proposed repository at Yucca Mountain" (66 FR 55732; November 2, 2001). Similarly, the proposed definition for the term "unlikely" in this rulemaking is intended to apply specifically and exclusively to the potential repository at Yucca Mountain and is not intended to suggest or imply precedent for NRC regulations in other parts of this Chapter that use the term unlikely" in significantly different contexts (e.g., compliance periods of tens of years, higher dose limits, different facilities, and different activities).

III. Section-by-Section Analysis

Section 63.342 Limits on Performance Assessments

This section specifies how DOE will determine which features, events, and processes will be considered in the performance assessments described in Subpart L of Part 63.

IV. Plain Language

The Presidential memorandum dated June 1, 1998, entitled "Plain Language in Government Writing" directed that the Government's writing be in plain language. This memorandum was published on June 10, 1998 (63 FR 31883). The NRC requests comments on the proposed rule specifically with respect to the clarity and effectiveness of the language used. Comments should be sent to the address listed under the ADDRESSES caption of the preamble.

V. Voluntary Consensus Standards

The National Technology Transfer and Advancement Act of 1995, Public Law 104-113, requires that Federal agencies use technical standards that are developed or adopted by voluntary consensus standards bodies unless using such a standard is inconsistent with applicable law or is otherwise impractical. In this proposed rule, the NRC is establishing probability limits for unlikely features, events, and processes at a potential geologic repository for high-level radioactive waste at Yucca Mountain, Nevada. This action does not constitute the establishment of a standard that contains generally applicable requirements.

VI. Finding of No Significant Environmental Impact: Availability

Pursuant to Section 121(c) of the Nuclear Waste Policy Act, this proposed rule does not require the preparation of an environmental impact statement under Section 102(2)(c) of the National Environmental Policy Act of 1969 or any environmental review under subparagraph (E) or (F) of Section 102(2) of such act.

VII. Paperwork Reduction Act Statement

This proposed rule does not contain new or amended information collection requirements subject to the Paperwork Reduction Act of 1995. (44 U.S.C. 3501 et seq.). Existing requirements were approved by the Office of Management and Budget, approval number 3150— 0199.

Public Protection Notification

If a means used to impose an information collection does not display a currently valid OMB control number, the NRC may not conduct or sponsor, and a person is not required to respond to, the information collection.

VIII. Regulatory Analysis

The Commission has prepared a draft regulatory analysis on this proposed regulation. The analysis examines the costs and benefits of the alternatives considered by the Commission. The Commission requests public comment on the draft regulatory analysis. Comments on the draft analysis may be submitted to the NRC as indicated under the ADDRESSES heading. It is available for inspection in the NRC Public Document Room, One White Flint North, 11555 Rockville Pike, Rockville, MD 20852. Single copies of the analysis may be obtained from Clark Prichard, Office of Nuclear Material Safety and Safeguards, U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001, telephone (301) 415-6203, e-mail: cwp@ nrc.gov.

IX. Regulatory Flexibility Certification

In accordance with the Regulatory Flexibility Act [5 U.S.C. 605(b)], the Commission certifies that this proposed rule will not, if promulgated, have a significant economic impact on a substantial number of small entities. This proposed rule relates to the licensing of only one entity, DOE, which does not fall within the scope of the definition of "small entities" set forth in the Regulatory Flexibility Act.

X. Backfit Analysis

NRC has determined that the backfit rule does not apply to this proposed

rule and, therefore, that a backfit analysis is not required, because this proposed rule does not involve any provisions that would impose backfits as defined in 10 CFR Chapter 1.

List of Subjects in 10 CFR Part 63

Criminal penalties, High-level waste, Nuclear power plants and reactors, Nuclear materials, Reporting and recordkeeping requirements, Waste treatment and disposal.

For the reasons set out in the preamble and under the authority of the Atomic Energy Act of 1954, as amended; the Energy Reorganization Act of 1974, as amended; the Nuclear Waste Policy Act of 1982, as amended; and 5 U.S.C. 553, NRC is proposing to adopt the following amendments to 10 CFR Part 63.

PART 63—DISPOSAL OF HIGH-LEVEL RADIOACTIVE WASTE IN A GEOLOGIC REPOSITORY AT YUCCA MOUNTAIN, NEVADA

1. The authority citation for Part 63 continues to read as follows:

Authority: Secs. 51, 53, 62, 63, 65, 81, 161, 182, 183, 68 Stat. 929, 930, 932, 933, 935, 948, 953, 954, as amended (42 U.S.C. 2071, 2073, 2092, 2093, 2095, 2111, 2201, 2232, 2233); secs. 202, 206, 88 Stat.1244, 1246 (42 U.S.C. 5842, 5846); secs. 10 and 14, Pub. L. 95–601, 92 Stat. 2951 (42 U.S.C. 2021a and 5851); sec. 102, Pub. L. 91–190, 83 Stat. 853 (42 U.S.C. 4332); secs. 114, 121, Pub. L. 97–425, 96 Stat. 2213g, 2238, as amended (42 U.S.C. 10134, 10141); and Pub. L. 102–486, sec. 2902, 106 Stat. 3123 (42 U.S.C. 5851).

2. Section 63.342 is revised to read as follows:

§ 63.342 Limits on performance assessments.

DOE's performance assessments should not include consideration of very unlikely features, events, or processes, i.e., those that are estimated to have less than one chance in 10,000 of occurring within 10,000 years of disposal. DOE's assessments for the human intrusion and ground-water protection standards should not include consideration of unlikely features, events, and processes, or sequences of events and processes, i.e., those that are estimated to have less than one chance in 10 and at least one chance in 10,000 of occurring within 10,000 years of disposal. In addition, DOE's performance assessments need not evaluate the impacts resulting from any features, events, and processes or sequences of events and processes with a higher chance of occurrence if the results of the performance assessments would not be changed significantly.

Dated at Rockville, Maryland, this 18th day of January, 2002.

For the Nuclear Regulatory Commission.

Annette Vietti-Cook,

Secretary of the Commission.
[FR Doc. 02–1891 Filed 1–24–02; 8:45 am]
BILLING CODE 7590–01–P

DEPARTMENT OF COMMERCE

Bureau of the Census

15 CFR Part 70

[Docket Number 020103004-2004-01]

Cutoff Dates for Recognition of Boundary Changes for Census 2000 and for the Intercensal Period

AGENCY: Bureau of the Census, Commerce.

ACTION: Proposed rule and request for comments.

SUMMARY: The Bureau of the Census (Census Bureau) is establishing cutoff dates for recognition of boundary changes to geographic entities for which the Census Bureau reports data in various surveys, estimates, censuses, programs, compilations, and publications throughout the period between decennial censuses (years 2001 through 2009). These operations include, but are not limited to, the American Community Survey, the Population Estimates Program, and the 2002 and 2007 Economic Censuses. The Census Bureau establishes cutoff dates for including boundary changes to be used in tabulating data from these operations; such cutoff dates were last established for Census 2000. For the tabulation and dissemination of data from its intercensal operations, the Census Bureau will recognize only those boundaries legally in effect on January 1 of the survey, estimate, or census year that have been reported officially to the Census Bureau no later than April 1 of the same year.

DATES: Any comments, suggestions, or recommendations concerning this proposed rule should be submitted in writing by February 25, 2002.

ADDRESSES: Address all written comments to the Director, U.S. Census Bureau, Room 2049, Federal Building 3, Washington DC 20233–0001.

FOR FURTHER INFORMATION CONTACT:

Robert W. Marx, Chief, Geography Division, 4700 Silver Hill Road, Stop 7400, U.S. Census Bureau, Washington, DC 20233–7400, telephone (301) 457– 2131, or e-mail (rmarx@geo.census.gov).

SUPPLEMENTARY INFORMATION: The Census Bureau proposes to amend Title

15, Code of Federal Regulations (CFR), part 70, to establish cutoff dates for recognition of boundary changes for all geographic data operations throughout the intercensal period (years 2001 through 2009). This amendment is necessary because the dates established for Census 2000 on March 3, 1998, (63 FR 10303) do not cover the intercensal period. For the intercensal period, the Census Bureau will recognize only those boundaries legally in effect on January 1 of the survey, estimate, or census year that have been reported officially to the Census Bureau no later than April 1 of the same year.

Administrative Procedure Act

Because this rule makes only procedural changes to Title 15, CFR, part 70, the Administrative Procedure Act does not require the Census Bureau to issue a proposed rule and request for comments (Title 5, United States Code (U.S.C.), section 553(b)(3)(A)). Nevertheless, the Census Bureau is doing so in order to ensure that the public is given a forum to provide any comments or raise any issues.

Regulatory Flexibility Act

Prior notice and an opportunity for public comment are not required by 5 U.S.C. 553, or any other law, so a Regulatory Flexibility Analysis is not required and has not been prepared (5 U.S.C. 603(a)).

Executive Orders

This rule has been determined to be not significant for purposes of Executive Order 12866. It has been determined that this rule does not contain policies with Federalism implications as that term is defined in Executive Order 13132.

Paperwork Reduction Act

This rule does not contain a collection of information subject to the requirements of the Paperwork Reduction Act, Title 44, U.S.C., Chapter 35.

List of Subjects in 15 CFR Part 70

Census data.

For the reasons set forth in the preamble, Part 70 is amended as follows:

PART 70—CUTOFF DATES FOR RECOGNITION OF BOUNDARY CHANGES FOR CENSUS 2000 AND FOR THE INTERCENSAL PERIOD

1. The authority citation for Part 70 continues to read as follows:

Authority: 13 U.S.C. 4 and Department of Commerce Organization Order 35–2A (40 FR 42765).