

**Nuclear Regulatory Commission  
Planned Rulemaking Activities  
(As of February 2, 2017)**

Item #	Category	Title of Rule	Abstract	Priority	RIN	Docket ID	Associated PRM(s)	Rule Initiation	Regulatory Basis Complete	Proposed Rule to Signature Authority	Proposed Rule Published	Final Rule to Signature Authority	Final Rule Published
1	Rulemaking Actions	10 CFR Part 110, Export and Import of Nuclear Equipment and Material; Updates and Clarifications	<p>This rule would amend the Nuclear Regulatory Commission's regulations in 10 CFR Part 110, Export and Import of Nuclear Equipment and Material. The rule would provide updates and clarifications to 10 CFR Part 110 based on recent industrial experience and technological changes. It would address logical changes to export licensing provisions brought on by technological changes involving industrial and research uses of deuterium and deuterated compounds. The action is necessary to address these technological changes in order to ensure the effectiveness and efficiency of the regulatory framework while best fulfilling the agency's security objectives.</p> <p>Impacts would be to export license applicants. In addition, minor errors will be corrected and language will be clarified as appropriate. This rulemaking is a staff-identified activity, prompted after receiving informal input from industry and observing increasing trends in the number of export license applications received for deuterium and deuterated products.</p>	Medium	AJ45	NRC-2014-0201	N/A	09/01/2014	06/01/2017	01/01/2018	03/01/2018	01/01/2019	03/01/2019
2	Rulemaking Actions	2016 Edition of the American Society of Mechanical Engineers Operations and	<p>This rule would amend the Nuclear Regulatory Commission's regulations to incorporate by reference the 2016 ASME Operations and Maintenance Code (OM). This is a non-discretionary rule directed by SECY-10-0016. The Nuclear Regulatory Commission has a</p>	High	AJ90	NRC-2017-0019	N/A	04/01/2017	12/01/2017	07/01/2018	08/01/2018	07/01/2019	11/01/2019

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		Maintenance Code	well-established practice for approving and/or mandating the use of certain parts of editions and addenda of ASME Codes in 10 CFR 50.55a through the rulemaking process for incorporation by reference. This practice assures consistency across the industry and that the Nuclear Regulatory Commission will continue to support the use of the most updated and technically sound techniques developed by the ASME to provide adequate protection to the public. This rulemaking also enhances the efficiency and effectiveness of the Nuclear Regulatory Commission's regulations by making use of current voluntary consensus standards and is consistent with applicable requirements of the National Technology Transfer and Advancement Act.										
3	Rulemaking Actions	2017 Edition of the American Society of Mechanical Engineers Boiler and Pressure Vessel Code	This rule would amend the Nuclear Regulatory Commission's regulations to incorporate by reference the 2017 ASME Boiler and Pressure Vessel Code (BPV). This is a non-discretionary rule directed by SECY-10-0016. The Nuclear Regulatory Commission has a well-established practice for approving and/or mandating the use of certain parts of editions and addenda of ASME Codes in 10 CFR 50.55a through the rulemaking process for incorporation by reference. This practice assures consistency across the industry and that the Nuclear Regulatory Commission will continue to support the use of the most updated and technically sound techniques developed by the ASME to	High	AJ91	NRC-2017-0020	N/A	08/01/2017	04/01/2018	11/01/2018	12/01/2018	11/01/2019	03/01/2020

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			provide adequate protection to the public. This rulemaking also enhances the efficiency and effectiveness of the Nuclear Regulatory Commission's regulations by making use of current voluntary consensus standards and is consistent with applicable requirements of the National Technology Transfer and Advancement Act.										
4	Rulemaking Actions	Adjustment of Civil Penalties for Inflation for FY 2018	This rule would amend the Nuclear Regulatory Commission's regulations to adjust the maximum civil monetary penalty the Nuclear Regulatory Commission can assess for violation of the Atomic Energy Act of 1954, as amended, as well as the maximum civil monetary penalty the Nuclear Regulatory Commission can assess for false claims or statements under the Program Fraud Civil Remedies Act. These adjustments are mandated by Congress through the Federal Civil Penalties Inflation Adjustment Act of 1990, as amended by the Federal Civil Penalties Inflation Adjustment Act Improvements Act of 2015.	Medium	AJ83	NRC-2016-0166	N/A	11/15/2017	N/A	N/A	N/A	12/15/2017	01/15/2018
5	Rulemaking Actions	Advanced Power Reactor (APR)-1400 (KEPCO/KHN P) Design Certification	This rule would amend the Nuclear Regulatory Commission's regulations in 10 CFR Part 52 by issuing a new appendix for the initial certification of the APR-1400 standard plant design (Korea Electric Power Corporation and Korea Hydro & Nuclear Power Co., Ltd). Applicants intending to construct and operate a nuclear power plant using the APR-1400 design may do so by referencing this design certification rule. Note that the regulatory basis for this	High	AJ67	NRC-2015-0224	N/A	11/17/2017	06/15/2018	08/07/2018	09/20/2018	03/04/2019	05/15/2019

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			rule is the staff's final safety evaluation report.										
6	Rulemaking Actions	Amendments to Material Control and Accounting Regulations	This rule would amend the Nuclear Regulatory Commission's material control and accounting (MC&A) regulations. These regulations apply to the Nuclear Regulatory Commission's licensees who are authorized to hold special nuclear material (SNM) and to certain licensees within the jurisdiction of the Agreement States that hold SNM and submit material status reports to the Nuclear Regulatory Commission. The amendments would revise and consolidate the MC&A requirements.	Medium	AI61	NRC-2009-0096	N/A	02/05/2009	04/08/2010	09/30/2013	11/08/2013	10/31/2017	05/16/2018
7	Rulemaking Actions	American Society of Mechanical Engineers 2009-2013 Code Edition and Addenda Incorporation by Reference <sup>1</sup>	This rule would amend the Nuclear Regulatory Commission's regulations to incorporate by reference the 2009-13 Editions & Addenda of the ASME Code. This is a non-discretionary rule directed by SECY-10-0016. The Nuclear Regulatory Commission has a well-established practice of approving and/or mandating the use of certain parts of editions and addenda of ASME Codes in 10 CFR 50.55a through the rulemaking process of incorporation by reference. This practice assures consistency across the industry and that the Nuclear Regulatory Commission will continue to support the use of the most updated and technically sound techniques developed by the ASME to provide adequate protection to the public. This rulemaking also enhances the efficiency and	High	AI97	NRC-2011-0088	N/A	06/01/2013	12/01/2013	08/31/2015	09/18/2015	11/04/2016	04/07/2017

<sup>1</sup> Anticipated to be complete this fiscal year (FY) – the NRC anticipates the final rule *Federal Register* notice (FRN) will be published this FY.

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			effectiveness of the Nuclear Regulatory Commission's regulations by making use of current voluntary consensus standards and is consistent with applicable requirements of the National Technology Transfer and Advancement Act.										
8	Rulemaking Actions	American Society of Mechanical Engineers 2015 Code Editions Incorporation by Reference	This rule would amend the Nuclear Regulatory Commission's regulations to incorporate by reference the American Society of Mechanical Engineers (ASME) 2015 edition of the Boiler and Pressure Vessel Code (BPV) and the 2015 edition of the Operations and Maintenance Code (OM). This is a non-discretionary rule directed by SECY-10-0016. The Nuclear Regulatory Commission has a well-established practice of approving and/or mandating the use of certain parts of editions and addenda of ASME Codes in 10 CFR 50.55a through the rulemaking process of incorporation by reference. This practice assures consistency across the industry and that the Nuclear Regulatory Commission will continue to support the use of the most updated and technically sound techniques developed by the ASME to provide adequate protection to the public. This rulemaking also enhances the efficiency and effectiveness of the Nuclear Regulatory Commission's regulations by making use of current voluntary consensus standards and is consistent with applicable requirements of the National Technology Transfer and Advancement Act.	High	AJ74	NRC-2016-0082	N/A	07/01/2015	03/31/2016	06/06/2017	07/04/2017	06/06/2018	09/18/2018

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9	Rulemaking Actions	Approval of American Society of Mechanical Engineers' Code Cases <sup>2</sup>	<p>The Nuclear Regulatory Commission lists the code cases that it finds to be acceptable or conditionally acceptable in Nuclear Regulatory Commission RGs, which are also incorporated by reference in 10 CFR 50.55a. The Nuclear Regulatory Commission has a well-established practice of approving and/or mandating the use of certain parts of editions and addenda of ASME Codes in 10 CFR 50.55a through the rulemaking process of incorporation by reference.</p> <p>This practice assures consistency across the industry and that the Nuclear Regulatory Commission will continue to support the use of the most updated and technically sound techniques developed by the ASME to provide adequate protection to the public. This rulemaking also enhances the efficiency and effectiveness of Nuclear Regulatory Commission's regulations by making use of current voluntary consensus standards and is consistent with applicable requirements of the National Technology Transfer and Advancement Act. This is a non-discretionary rule directed by SECY-10-0016.</p>	High	AJ13	NRC-2012-0059	N/A	08/01/2013	10/01/2013	01/15/2016	03/02/2016	12/16/2016	03/28/2017
10	Rulemaking Actions	Cyber Security for Byproduct Material Licensees	<p>This rule would assure that the Nuclear Regulatory Commission's byproduct material licensees provide reasonable assurance that digital assets associated with safety, security, emergency preparedness, and material control and accountability are adequately protected from cyber-attacks. The staff plans to</p>	Medium	AJ56	NRC-2015-0019	N/A	TBD	03/30/2018	03/30/2019	09/30/2019	03/30/2020	09/30/2020

<sup>2</sup> Anticipated to be complete this FY – the NRC anticipates the final rule FRN will be published this FY.

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			gather information and conduct a consequence analysis to obtain preliminary information that will be used to determine whether it should proceed with rulemaking.										
11	Rulemaking Actions	Cyber Security for Fuel Facilities	This rule would assure that the Nuclear Regulatory Commission's licensed fuel cycle facilities provide reasonable assurance that digital assets associated with safety, security, emergency preparedness, and material control and accountability are adequately protected from cyber-attacks.	High	AJ64	NRC-2015-0179	N/A	03/24/2015	04/12/2016	03/24/2017	09/25/2017	06/25/2018	12/21/2018
12	Rulemaking Actions	Decoupling of Assumed Loss of Offsite Power (LOOP) From Loss-of-Coolant Accidents (LOCA)	This rule would amend 10 CFR Part 50, Appendix A, Criterion 35, to eliminate, based on appropriate risk considerations, the assumption of a loss-of-offsite power coincident with a postulated large-break (low-frequency) loss-of-coolant accident. The rule would provide a voluntary alternative to existing requirements for satisfying specified acceptance criteria, and would consider, in part, Petition for Rulemaking (PRM)-50-77. Commission direction in Staff Requirements Memorandum (SRM)-SECY-09-0140 approved placing this rulemaking on hold pending further development on other related rulemakings.	Medium	AH43	NRC-2008-0606	PRM-50-77	03/31/2003	TBD	TBD	TBD	TBD	TBD
13	Rulemaking Actions	Dodd-Frank Act of 2010 Rulemaking	This rule would amend the Nuclear Regulatory Commission's regulations in 10 CFR Parts 30, 40, 50, and 70 to remove any use or reference to bond rating as mandated by the Dodd-Frank Act of 2010. The rulemaking would develop alternate criteria, if any, to	Low	AJ92	NRC-2017-0021	N/A	09/01/2014	N/A	N/A	N/A	04/01/2020	08/01/2020

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			replace the bond rating to ensure financial tests are sufficient in evaluating guarantee as an acceptable financial instrument for decommissioning financial assurance or to evaluate if guarantee will remain as a viable financial instrument absent the bond rating criteria.										
14	Rulemaking Actions	Drug and Alcohol Testing; Technical Issues and Editorial Changes	This rule would amend the Nuclear Regulatory Commission's regulations to strengthen technical provisions associated with drug testing requirements and enhance other requirements necessary to provide reasonable assurance that persons who have unescorted access to Nuclear Regulatory Commission-licensed facilities are fit for duty. Specifically, this rulemaking would propose to address marijuana, synthetic marijuana, cathinones, and semi-synthetic opiates (that are being proposed for testing by the U.S. Department and Health and Human Services (HHS)); prescription shopping; drug cocktailing; access to state databases for prescription medications; use of a spouse's prescription; point-of-collection testing; use of oral fluids and hair as test matrices (both being proposed by HHS); expansion of for-cause testing provisions; clarification of the 50-percent random testing rate; synthetic urine and other adulteration/subversion issues; two petitions for rulemaking associated with substance abuse professionals; one petition for rulemaking associated with synthetic drug use; and other issues	High	AJ15	NRC-2012-0079	PRM-26-4, 26-7, 26-8	09/01/2011	09/01/2019	09/01/2020	02/01/2021	12/01/2021	05/01/2022



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			identified through inspector and licensee lessons learned. Conforming changes will also be assessed to better align the 10 CFR Part 26 requirements with similar requirements in 10 CFR Parts 55 and 73.										
15	Rulemaking Actions	Emergency Preparedness Requirements for Small Modular Reactors	This rule would amend the Nuclear Regulatory Commission's regulations regarding emergency preparedness for small modular reactors and other new technologies. This rulemaking would establish emergency preparedness requirements commensurate with the potential consequences to public health and safety and the common defense and security. This rulemaking would provide regulatory stability, predictability, and clarity in the licensing process and minimize or eliminate uncertainty for applicants who may otherwise have to seek exemptions from the regulations.	Medium	AJ68	NRC-2015-0225	N/A	06/22/2016	03/31/2017	07/13/2018	01/11/2019	02/14/2020	08/14/2020
16	Rulemaking Actions	Enhanced Security for Special Nuclear Material (formerly Physical Protection for Category I, II, and III Special Nuclear Material)	This rule would update fuel cycle and SNM security regulations in 10 CFR Part 73 to make generically applicable security requirements imposed in post 9/11 Security Orders. This rulemaking would also enhance existing security requirements through continued monitoring of threat information and updated technical analyses. In particular, risk insights from recent studies have led the Nuclear Regulatory Commission to consider the benefits of using a more risk-informed material attractiveness approach for SNM in the grading of physical protection requirements for fixed sites and transportation.	High	AJ41	NRC-2014-0118	N/A	02/08/2006	04/22/2015	06/30/2017	12/15/2017	09/28/2018	03/15/2019

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17	Rulemaking Actions	Enhanced Weapons for Spent Fuel Storage Installations and Transportation --Section 161A Authority	This rule would amend the Nuclear Regulatory Commission's regulations by implementing the new authority in Section 161A of the Atomic Energy Act of 1954, as amended, for access to covered weapons, enhanced weapons, and associated firearms background checks at facilities storing spent nuclear fuel (SNF) and high-level radioactive waste (HLW) and the associated transportation security escort activities for the transport of SNF, HLW, and Category I strategic special nuclear material (SSNM) (from aged SNF) to such storage facilities. This rulemaking supports a potential national strategy for the secure transportation and storage of SNF at a consolidated interim storage facility (CISF). There is significant public interest in this rulemaking because one of the authorities allowed under Section 161A is the authority to use certain weapons that would be otherwise prohibited by other State, local or other Federal laws (known as preemption authority). This rulemaking is a follow-on to the initial enhanced weapons rulemaking (RIN 3150-AI49) that implements Section 161A authority for several classes of facilities (i.e., power reactor), Category I strategic special nuclear material (SSNM, and at-reactor independent spent fuel storage installation).	High	AJ55	NRC-2015-0018	N/A	08/15/2008	03/29/2019	03/26/2020	09/11/2020	03/25/2021	09/10/2021
18	Rulemaking Actions	Enhanced Weapons, Firearms Background	This rule would amend the Nuclear Regulatory Commission's regulations by implementing the authority in Section 161A of the Atomic Energy Act of 1954,	High	AI49	NRC-2008-0465/2011-0018	N/A	08/08/2005	N/A	03/16/2015	09/22/2015	04/03/2017	08/03/2017

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		Checks, and Security Event Notifications	as amended, which includes access to enhanced weapons and associated firearms background checks, and would modify physical security event notifications at power reactor facilities, at-reactor Independent Spent Fuel Storage Installations (ISFSIs), and Category I strategic special nuclear materials facilities. One of the Section 161A authorities implemented by this rulemaking is the authority to use certain weapons that would otherwise be prohibited by other State, local or other Federal laws (known as preemption authority).										
19	Rulemaking Actions	Financial Qualifications for Reactor Licensing	This rule would amend the 10 CFR Part 50 financial qualifications demonstration requirements for initial license issuance of nuclear power reactors as discussed in SECY-13-0124, "Policy Options for Merchant Plant Financial Qualification." This action would resolve the industry-asserted impediment to licensing which currently exists for some non-electric utility (merchant plant) applicants.	Medium	AJ43	NRC-2014-0161	N/A	04/24/2014	12/02/2016	09/15/2017	03/16/2018	01/04/2019	07/05/2019
20	Rulemaking Actions	Fitness-for-Duty Drug Testing Program Requirements	This rule would align 10 CFR Part 26 drug testing requirements with the guidelines issued by HHS. This rulemaking would strengthen the fitness-for-duty programs at nuclear power plants (and other Nuclear Regulatory Commission licensees and applicants) by testing for additional illegal drugs, lowering drug testing cutoffs, and enhancing the effectiveness of reviews conducted by Medical Review Officers.	High	AI67	NRC-2009-0225	N/A	09/01/2012	07/01/2013	02/15/2017	09/01/2017	09/01/2018	03/01/2019

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21	Rulemaking Actions	Geologic Repository Operations Area (GROA) Fitness-For-Duty Requirements	This rule would amend the Nuclear Regulatory Commission's regulations to reinstate the alcohol and drug provisions of the fitness-for-duty requirements to a GROA. The rulemaking would also impose fatigue provisions on security personnel at a GROA.	Medium	AI38	NRC-2009-0089	N/A	TBD	09/17/2040	03/17/2042	09/17/2042	09/17/2043	03/17/2044
22	Rulemaking Actions	Geologic Repository Operations Area Security and Material Control and Accounting Requirements	This rule would amend the Nuclear Regulatory Commission's regulations that would establish post September 11, 2001, security and material control and accounting requirements for a GROA to reflect the current threat environment.	Medium	AI06	NRC-2007-0670	N/A	TBD	03/16/2040	09/16/2041	03/16/2042	03/16/2043	09/16/2043
23	Rulemaking Actions	Groundwater Protection In Situ Leach Uranium Recovery Facilities	This rule would amend the Nuclear Regulatory Commission's regulations to clarify the regulations in 10 CFR Part 40, Appendix A, "Criteria Relating to the Operation of Uranium Mills and the Disposition of Tailings or Wastes Produced by the Extraction or Concentration of Source Material From Ores Processed Primarily for Their Source Material Content," to better ensure groundwater protection at in situ leach uranium recovery facilities. The rule would codify practices currently done through license condition to provide the industry and public with more predictability during the licensing process. The rulemaking is being delayed while the U.S. Environmental Protection Agency (EPA) revises the requirements in 40 CFR Part 192 that provide the generally applicable standards for Nuclear Regulatory Commission's regulations concerning	Medium	AI40	NRC-2008-0421	N/A	03/24/2006	04/03/2006	11/19/2018	05/20/2019	03/20/2020	09/20/2020

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			the processing and the possession, transfer, and disposal of section 11e.(2) byproduct regulations material.										
24	Rulemaking Actions	Incorporation of Lessons Learned From New Reactor Licensing Process (Parts 50 and 52 Licensing Process Alignment)	This rule would amend the Nuclear Regulatory Commission's regulations in 10 CFR Part 52 to provide clarifications and various minor revisions and incorporate lessons learned during reviews of early site permits and design certification and combined license applications.	Medium	AI66	NRC-2009-0196	N/A	TBD	TBD	TBD	TBD	TBD	TBD
25	Rulemaking Actions	Independent Spent Fuel Storage Installation Security Requirements	<p>This rule would amend the Nuclear Regulatory Commission's regulations to revise the existing security requirements that apply during the storage of SNF at an ISFSI, and during the storage of SNF and high-level waste at a Monitored Retrievable Storage Installation (MRS).</p> <p>This rule would require conforming changes to the ISFSI and MRS licensing requirements for security plans and programs. The specific objectives of this rule are to update the ISFSI and MRS security requirements to improve the consistency of and clarify the 10 CFR Part 73 security requirements for both types of ISFSI licensees (i.e., general and specific); make generically applicable requirements similar to those imposed on ISFSI licensees by the post September 11, 2001, security orders; and use a risk-informed, performance-based structure in ISFSI and MRS security regulations. This rulemaking would also address Issue 11 of PRM 72-6 filed by C-10 Research and Education</p>	High	AI78	NRC-2009-0558	PRM-72-6	12/18/2007	12/28/2020	07/28/2027	01/28/2028	12/28/2028	06/28/2029

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			Foundation Inc. (C-10). Issue 11 requested that the Nuclear Regulatory Commission require Hardened On-Site Storage at all nuclear power plants as well as away-from-reactor dry cask storage sites; and that all nuclear industry interim on site or off-site dry cask storage installations or ISFSIs be fortified against terrorist attack. In addition, C-10 requested that all sites be safeguarded against accident and age-related leakage. The Commission recently approved the staff's recommendation to delay commencing this security rulemaking for up to 5 years.										
26	Rulemaking Actions	Industrial Radiographic Operations and Training	This rule would address a petition that requested the Nuclear Regulatory Commission amend its regulations to require that an individual receive at least 40 hours of radiation safety training before using sources of radiation for industrial radiography, to revise the requirements for at least two qualified individuals to be present at a temporary job site, and to clarify how many individuals are required to meet surveillance requirements. The petition also requested that NUREG-1556, Volume 2, be revised to reflect the proposed amendments.	High	TBD	TBD	PRM-34-6	TBD	TBD	TBD	TBD	TBD	TBD
27	Rulemaking Actions	Items Containing Byproduct Material Incidental to Production (formerly	This rule would amend requirements for track-etched membranes that have been irradiated with mixed fission products as part of the membrane production process. The rule would also accommodate the licensing and distribution of other irradiated products	Medium	AJ54	NRC-2015-0017	PRM-30-65	08/13/2012	09/29/2017	03/30/2019	09/30/2019	09/30/2020	03/30/2021

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		Polymer (Polycarbonate or Polyester) Track Etched (PCTE) Membranes)	(e.g. gemstones) without the need for a specific exemption for each distributor.										
28	Rulemaking Actions	List of Approved Spent Fuel Storage Cask [This is a placeholder for several annually recurring rules.]	These rules would approve use of new and amended cask designs for dry storage of spent fuel. Casks that have been approved for use under a general license are added to the list of approved designs in 10 CFR Part 72. The Nuclear Regulatory Commission publishes a varying number of these rules each year.	High	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
29	Rulemaking Actions	List of Approved Spent Fuel Storage Casks - EnergySolutions Corporation, VSC-24 System, Renewal of Initial Issue and Amendments 1 through 6 of Certificate of Compliance No. 1007	This rule would renew Certificate of Compliance (CoC) 1007 for the Ventilated Storage Cask System (VSC-24) for an additional 40 years. It would also amend the CoC to prohibit the construction or placement into service of new VSC-24 structures, systems, or components (SSCs). General licensee users with VSC-24 systems in service as of the renewal's effective date, however, may continue to perform SSC maintenance and repairs in accordance with the conditions of this CoC. The rule would require each user to establish, implement, and maintain written procedures for each aging management program (AMP), including a lead cask inspection program, and conduct periodic tollgate assessments as part of the "Operating Experience" element of each AMP. To preclude possible zinc-zircaloy interactions in VSC-24 casks	High	AJ78	NRC-2016-0138	N/A	06/30/2016	N/A	03/01/2017	04/01/2017	03/01/2017	04/01/2017

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			loaded after the effective date of the CoC renewal and its amendments, an additional technical specification would limit the maximum decay power per assembly to 0.625 kW.										
30	Rulemaking Actions	List of Approved Spent Fuel Storage Casks: AREVA, Inc., Standardized NUHOMS Cask System, Amendment No. 14 and Revision 1 to Initial Certificate, Amendment Nos. 1 through 11 and Amendment No. 13	This rule would amend Certificate of Compliance (CoC) No. 1004 to include Revision 1 to the initial certificate, Amendment Nos. 1 through 11, and Amendment Nos. 13. Revision 1 requests that the technical specifications eliminate the need for a site to maintain a spent fuel pool.	High	AJ86	NRC-2016-0200	N/A	07/15/2016	N/A	12/07/2016	01/25/2017	12/07/2016	01/25/2017
31	Rulemaking Actions	Low-Level Radioactive Waste Disposal <sup>3</sup>	This rule would require 10 CFR Part 61 licensees to conduct site-specific analyses, including an intruder assessment, and make additional changes to the current regulations to reduce ambiguity and facilitate implementation.	High	AI92	NRC-2011-0012	N/A	03/18/2009	09/30/2010	07/18/2013	03/26/2015	09/15/2016	03/15/2017
32	Rulemaking Actions	Medical Use of Byproduct Material-- Medical Event	This rule would amend the Nuclear Regulatory Commission's medical use regulations in 10 CFR Part 35. The proposed rule addresses three ongoing	High	AI63	NRC-2008-0175	PRM-35-20	01/16/2009	07/22/2010	08/08/2013	07/21/2014	06/17/2016	07/14/2017

<sup>3</sup> Anticipated to be complete this FY – the NRC anticipates the final rule FRN will be published this FY.



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		Definitions, Training and Experience, and Clarifying Amendments <sup>4</sup>	rulemaking projects and several other related topics. First, this rule proposes amendments to the reporting and notification requirements for a medical event for permanent implant brachytherapy. Second, the rule proposes changes: (1) to amend the training and experience requirements in multiple sections to remove the attestation statement for an individual who is certified by a specialty board whose certification process has been recognized by the Nuclear Regulatory Commission or an agreement state; (2) to the requirements for measuring molybdenum contamination and reporting of failed technetium and rubidium generators; and (3) to allow Associate Radiation Safety Officers to be named on a medical license. Third, the rule proposes changes to address a request filed in PRM-35-20 to exempt certain board-certified individuals from certain T&E requirements (i.e., “grandfather” these individuals) so that they may be identified on a license or permit for materials and uses that they performed on or before October 24, 2005, the expiration date of the former Subpart J of 10 CFR Part 35 which contained the prior T&E requirements.										
33	Rulemaking Actions	Miscellaneous Administrative Rulemaking [This is a placeholder for	This is a placeholder for corporate support rulemakings that make occasional administrative updates or corrections to the Nuclear Regulatory Commission’s regulations in the Code of	Medium	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

<sup>4</sup> Anticipated to be complete this FY – the NRC anticipates the final rule FRN will be published this FY.

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		one or more rules making administrative or corrective changes to the Code of Federal Regulations]	Federal Regulations and are published on an as-needed basis.										
34	Rulemaking Actions	Mitigation of Beyond Design Basis Events (MBDBE)	<p>This rule would enhance mitigation strategies for nuclear power reactors for beyond-design-basis external events. This rulemaking addresses recommendations from the Near-Term Task Force (NTTF) related to station blackout, spent fuel pool long-term cooling, and emergency preparedness (NTTF Recommendations 4, 7, 8, and portions of 9, 10, and 11). In SRM-SECY-11-0124, the Commission directed the staff to initiate the station blackout rulemaking as a high-priority activity. The staff's proposal is intended to produce a more seamless accident response capability that includes emergency operating procedures, the newly imposed strategies and guidelines for beyond-design-basis external events, and the extensive damage mitigation guidelines. In SRM-SECY-14-0046, the Commission approved the consolidation of the rulemaking activities. The rulemaking would make generically applicable the requirements in the Mitigation Strategies Order EA-12-049 and Spent Fuel Pool Instrumentation Order EA-12-051 from 2012. This rulemaking would partially address PRM-50-96 for long-term cooling</p>	High	AJ49	NRC-2011-0189, NRC-2014-0240	PRM-50-96, PRM-50-97, PRM-50-98, PRM-50-100, PRM-50-101, and PRM-50-102	10/18/2011	10/07/2013	04/30/2015	11/13/2015	12/16/2016	10/13/2017

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			capabilities in the event of a solar storm. Additionally, this rule would fully address PRMs 50-97, 50-98, 50-100, 50-101, and 50-102.										
35	Rulemaking Actions	Modified Small Quantities Protocol (SQP) <sup>5</sup>	This rule would amend the Nuclear Regulatory Commission's regulations to make changes to 10 CFR Parts 40, 70, and 75 as needed to ensure that the U.S. Government can meet its international obligations under INFCIRC/366 and the modified Small Quantities Protocol. The Nuclear Regulatory Commission is responsible for ensuring compliance by the licensees in the U.S. Caribbean Territories. Changes will go into effect as a final rule, issued without notice and comment under 5 U.S.C. 553(a)(1), which allows agencies to issue rules involving the foreign affairs functions of the United States without notice and comment. These rule changes must be in effect before the U.S. Government can bring the modified Small Quantities Protocol to INFCIRC/366 into force.	Medium	AJ70	NRC-2015-0263	N/A	07/18/2016	N/A	N/A	N/A	03/31/2017	05/11/2017
36	Rulemaking Actions	Non-power Production and Utilization Facility Rulemaking	This rule would: 1) eliminate license renewal for non-power production or utilization facilities (NPUFs) licensed under 10 CFR 50.21a or c, other than testing facilities; 2) define the license renewal process for NPUFs licensed under 10 CFR 50.22 and testing facilities; 3) revise the timely renewal provision for NPUFs subject to license renewal; 4) require all NPUFs to submit	Medium	AI96	NRC-2011-0087	N/A	08/26/2009	10/02/2012	04/07/2016	02/24/2017	09/21/2018	07/18/2019

<sup>5</sup> Anticipated to be complete this FY – the NRC anticipates the final rule FRN will be published this FY.

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			updates to the final safety analysis reports every 5 years; 5) clarify other existing regulations applicable to NPUFs; and 6) establish accident dose criteria for NPUFs.										
37	Rulemaking Actions	Part 37 Rulemaking	This rule would clarify and correct discrepancies in the existing rule. This action is necessary because the current rule is not clear in several areas, including but not limited to requirements for service providers for unescorted access to Category 1 and 2 material; overall applicability of 10 CFR Part 37 to large components and robust structures at commercial power reactors; and clarifying the timing of license verification before a transfer of material. In addition, the Commission has committed in a letter to Congress to collect 2 years of operational experience, through inspection data, and to identify any additional needed rule changes.	Medium	TBD	TBD	N/A	03/29/2017	11/01/2017	02/01/2019	08/01/2019	08/01/2020	02/01/2021
38	Rulemaking Actions	Performance-Based Emergency Core Cooling System Acceptance Criteria	This rule would amend the Nuclear Regulatory Commission's regulations in 10 CFR 50.46 that specify the fuel cladding acceptance criteria for emergency core cooling system (ECCS) loss-of-coolant accidents (LOCA) evaluations. The proposed ECCS acceptance criteria are performance-based, and reflect recent research findings that identified new embrittlement mechanisms for fuel rods with zirconium alloy cladding under LOCA conditions. Addresses PRM-50-71 and PRM-50-84. Previously titled "50.46b Fuel Cladding." This rule would	High	AH42	NRC-2008-0332	PRM-50-71, PRM-50-84	03/31/2003	05/26/2008	03/01/2012	03/24/2014	03/16/2016	06/30/2017

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			also contain a risk-informed alternative to address the effects of debris in the long-term.										
39	Rulemaking Actions	Prompt Remediation of Residual Radioactivity During Operations <sup>6</sup>	This rule would revise the Nuclear Regulatory Commission's Decommissioning Planning Rule (DPR) to require licensees to address the possible need to remediate residual radioactivity during the operational phase of licensed facilities in order to reduce the overall cost of decontamination and decommissioning after shutdown. On December 20, 2013, the Commission directed the staff to collect 2 years of additional data from the implementation of the DPR before deciding whether to proceed with the rulemaking. Staff expects to submit a SECY in September 2016, to propose a path forward based upon the 2 years of operating experience.	Medium	AJ17	NRC-2011-0162	N/A	N/A	N/A	N/A	N/A	N/A	N/A
40	Rulemaking Actions	Receipts-Based Small Business Size Standards	This rule would amend the size standards that the Nuclear Regulatory Commission uses to qualify a Nuclear Regulatory Commission licensee as a "small entity" under the Regulatory Flexibility Act of 1980, as amended.	Medium	AJ51	NRC-2014-0264	N/A	TBD	TBD	TBD	TBD	TBD	TBD
41	Rulemaking Actions	Regulatory Guide (RG) 1.84, Rev. 38; RG 1.147, Rev. 19; and RG 1.192, Rev. 3; Approval of	The Nuclear Regulatory Commission lists the code cases that it finds to be acceptable or conditionally acceptable in Nuclear Regulatory Commission RGs, which are also incorporated by reference in 10 CFR 50.55a. The Nuclear Regulatory Commission has a well-established practice of approving and/or	High	AJ93	NRC-2017-0024	N/A	07/01/2014	04/30/2017	12/01/2017	02/01/2018	11/01/2018	02/01/2019

<sup>6</sup> Discontinued – the Commission has approved no longer pursuing the rulemaking (NRC staff is developing the required documentation to inform the public that the rulemaking is discontinued).

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		American Society of Mechanical Engineers Code Cases	<p>mandating the use of certain parts of editions and addenda of ASME Codes in 10 CFR 50.55a through the rulemaking process of incorporation by reference.</p> <p>This practice assures consistency across the industry and that the Nuclear Regulatory Commission will continue to support the use of the most updated and technically sound techniques developed by the ASME to provide adequate protection to the public. This rulemaking also enhances the efficiency and effectiveness of the Nuclear Regulatory Commission's regulations by making use of current voluntary consensus standards and is consistent with applicable requirements of the National Technology Transfer and Advancement Act. This is a non-discretionary rule directed by SECY-10-0016.</p>										
42	Rulemaking Actions	Regulatory Guide (RG) 1.84, Rev. 39; and RG 1.147, Rev. 20; and 1.192, Rev. 4; Approval of American Society of Mechanical Engineers Code Cases	<p>The Nuclear Regulatory Commission lists the code cases that it finds to be acceptable or conditionally acceptable in Nuclear Regulatory Commission RGs, which are also incorporated by reference in 10 CFR 50.55a. The Nuclear Regulatory Commission has a well-established practice of approving and/or mandating the use of certain parts of editions and addenda of ASME Codes in 10 CFR 50.55a through the rulemaking process of incorporation by reference.</p> <p>This practice assures consistency across the industry and that the Nuclear Regulatory Commission will continue to support the use of the most updated and technically sound techniques developed by the ASME to provide adequate</p>	High	AJ94	NRC-2017-0025	N/A	05/01/2016	07/01/2018	02/28/2019	03/31/2019	02/28/2020	03/31/2020

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			protection to the public. This rulemaking also enhances the efficiency and effectiveness of Nuclear Regulatory Commission regulations by making use of current voluntary consensus standards and is consistent with applicable requirements of the National Technology Transfer and Advancement Act. This is a non-discretionary rule directed by SECY-10-0016.										
43	Rulemaking Actions	Regulatory Improvements for Power Reactors Transitioning to Decommissioning	As power reactors transition from an operational status to the permanently shut down and defueled condition, a significant reduction of risk to public health and safety is achieved. These shutdown reactors remain subject to many of the same requirements as operating reactors. Because the development of regulations for operating nuclear power plants often did not consider decommissioning, the requirements imposed on decommissioning nuclear power reactors may be inappropriate, may not be applicable, or may not align with safety significance. The Commission has directed the staff to proceed with rulemaking on decommissioning and set an objective of early 2019 for completion of this rulemaking. The Commission also stated that this rulemaking should address: issues discussed in SECY-00-0145 such as the graded approach to emergency preparedness; lessons learned from the plants that have already (or are currently) going through the decommissioning process; the advisability of requiring a licensee's	High	AJ59	NRC-2015-0070	N/A	12/30/2014	10/23/2017	05/07/2018	11/07/2018	10/07/2019	02/07/2020

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			Post-Shutdown Decommissioning Activity Report to be approved by the Nuclear Regulatory Commission; the appropriateness of maintaining the three existing options for decommissioning and the timeframes associated with those options; the appropriate role of State and local governments and non-governmental stakeholders in the decommissioning process; and any other issues deemed relevant by the staff.										
44	Rulemaking Actions	Requirement to Submit Complete and Accurate Information	This rule would address a PRM requesting the Nuclear Regulatory Commission to revise its regulations relating to nuclear reactors at §§ 50.1, 50.9, 52.0, and 52.6 to expand its “regulatory framework to make it a legal obligation for those non-licensees who seek Nuclear Regulatory Commission regulatory approvals be held to the same legal standards for the submittal of complete and accurate information as would a licensee or an applicant for a license.”	Medium	N/A	NRC-2013-0077	PRM-50-107	TBD	TBD	TBD	TBD	TBD	TBD
45	Rulemaking Actions	Revision of Fee Schedules: Fee Recovery for FY 2017 <sup>7</sup>	This rule would implement the Omnibus Budget Reconciliation Act of 1990 (OBRA-90), as amended, which requires the Nuclear Regulatory Commission to recover approximately 90 percent of its budget authority in a given fiscal year, less the amounts appropriated from the Waste Incidental to Reprocessing, generic homeland security activities, and Inspector General services for the Defense Nuclear Facilities Safety Board,	High	AJ73	NRC-2016-0081	N/A	07/01/2016	N/A	01/12/2017	01/30/2017	05/12/2017	05/30/2017

<sup>7</sup> Anticipated to be complete this FY – the NRC anticipates the final rule FRN will be published this FY.



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			<p>through fees assessed to licensees. This rulemaking would amend the Commission's fee schedules for licensing, inspection, and annual fees charged to its applicants and licensees. The licensing and inspection fees are established under 10 CFR Part 170 and recover the Nuclear Regulatory Commission's cost of providing services to identifiable applicants and licensees. Examples of services provided by the Nuclear Regulatory Commission for which 10 CFR Part 170 fees are assessed include license application reviews, license renewals, license amendment reviews, and inspections. The annual fees established under 10 CFR Part 171 recover budgeted costs for generic (e.g., research and rulemaking) and other regulatory activities not recovered under 10 CFR Part 170 fees.</p>										
46	Rulemaking Actions	Revision of Fee Schedules: Fee Recovery for FY 2018	<p>This rule would implement the Omnibus Budget Reconciliation Act of 1990 (OBRA-90), as amended, which requires the Nuclear Regulatory Commission to recover approximately 90 percent of its budget authority in a given fiscal year, less the amounts appropriated from the Waste Incidental to Reprocessing, generic homeland security activities, and Inspector General services for the Defense Nuclear Facilities Safety Board, through fees assessed to licensees. This rulemaking would amend the Commission's fee schedules for licensing, inspection, and annual fees charged to its applicants and licensees.</p>	High	AJ95	NRC-2017-0026	N/A	07/01/2017	N/A	01/12/2018	01/30/2018	05/12/2018	05/30/2018

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			The licensing and inspection fees are established under 10 CFR Part 170 and recover the Nuclear Regulatory Commission's cost of providing services to identifiable applicants and licensees. Examples of services provided by the Nuclear Regulatory Commission for which 10 CFR Part 170 fees are assessed include license application reviews, license renewals, license amendment reviews, and inspections. The annual fees established under 10 CFR Part 171 recover budgeted costs for generic (e.g., research and rulemaking) and other regulatory activities not recovered under 10 CFR Part 170 fees.										
47	Rulemaking Actions	Revisions to Reactor Vessel Material Surveillance Program Requirements	This rule would revise 10 CFR Part 50, Appendix H, to incorporate the latest edition of both ASTM Standards E-185 and E-2215. There are a number of optional features in ASTM E-185 that would permit future licensees to significantly improve future surveillance programs by allowing them to use more advanced test specimens. The staff expects that as a result of this rulemaking, licensees will expend fewer resources and accumulate lower occupational dose collecting test specimens. The staff also expects that fewer resources will be expended by licensee and Nuclear Regulatory Commission staffs to prepare, submit, and review requests for extension of time to submit capsule reports. The rulemaking would also incorporate the most up-to-date version of referenced	Medium	AG98	NRC-2008-0582	PRM-50-69	08/08/2014	04/28/2017	11/17/2017	02/16/2018	11/19/2018	02/18/2019

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			consensus standards and clarify surveillance program guidance for license renewal.										
48	Rulemaking Actions	Revisions to Transportation Safety Requirements and Compatibility with International Atomic Energy Agency Transportation Standards	This rule would amend the Nuclear Regulatory Commission's regulations in 10 CFR Part 71 to harmonize domestic regulations for Type B and fissile radioactive material transportation packaging with the 2012 Edition of the IAEA Safety Standards Regulations for the Safe Transport of Radioactive Material (SSR-6). The Nuclear Regulatory Commission has periodically revised its transportation regulations to make them compatible with the IAEA, reflecting knowledge gained in scientific and technical advances and accumulated experience. Compatibility between domestic and international requirements ensures a consistent safety basis for transport. This rulemaking will be coordinated with the U.S. Department of Transportation (DOT).	Medium	AJ85	NRC-2016-0179	N/A	02/17/2017	01/29/2019	06/30/2019	12/30/2019	06/30/2020	12/30/2020
49	Rulemaking Actions	Access Authorization and Fitness-for-Duty Determinations	This rulemaking would clearly define the role of third-party arbitration in access authorization and fitness-for-duty determinations at certain nuclear facilities licensed by the NRC. This rulemaking would seek to maintain effectiveness of access authorization and fitness-for-duty requirements, including those related to trustworthiness and reliability, while ensuring a robust appeals process to preserve fairness to individuals who grieve the decision to terminate access authorization. This rulemaking would	Medium	AJ79	NRC-2016-0145	N/A	06/06/2016	09/08/2017	11/30/2018	02/15/2019	03/02/2020	05/22/2020

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			also address trustworthiness and reliability in access authorization decisions. It would consider legal, policy, technical, and cost-benefit analysis and inform the decisions regarding the preferred regulatory action.										
50	Rulemaking Actions	Spent Fuel Cask Certificate of Compliance Format and Content	This rule would address a PRM that that requests the Nuclear Regulatory Commission add a new rule that governs the format and content of spent fuel storage cask Certificates of Compliance (CoCs), extend the backfit rule to CoCs, and make other improvements that result in "more efficient and effective NRC oversight of dry cask storage activities as well as improved implementation of dry cask storage requirements by industry."	Medium	TBD	NRC-2014-0067	PRM-72-7	TBD	TBD	TBD	TBD	TBD	TBD
51	Rulemaking Actions	Spent Fuel Reprocessing	This rule would establish a framework for regulating reprocessing facilities. The development of the framework is limited in scope to the resolution of Gap 5, "Safety and Risk Assessment Methodologies and Considerations for a Reprocessing Facility," (SECY-09-0082, "Update on Reprocessing Regulatory Framework--Summary of Gap Analysis," ADAMS Accession No. ML091520280).	Medium	AJ53	NRC-2015-0016	N/A	11/18/2011	07/26/2021	07/26/2022	01/26/2023	07/26/2023	01/26/2024
52	Rulemaking Actions	U.S. Advanced Pressurized Water Reactor (US-APWR) Design Certification	This rule would amend the Nuclear Regulatory Commission's regulations in 10 CFR Part 52 by issuing a new appendix for the initial certification of the U.S. APWR standard plant design. Applicants or licensees intending to construct and operate a nuclear power plant using the U.S. APWR design may	High	AI83	NRC-2010-0133	N/A	TBD	TBD	TBD	TBD	TBD	TBD

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			do so by referencing this design certification rule.										
53	Rulemaking Actions	U.S. Nuclear Regulatory Commission Acquisition Regulation (NRCAR) – 48 CFR Chap. 20	This rule would update the NRCAR to conform to external regulations; meet the requirements of Federal acquisition laws, statutes, regulations, and Executive Orders; and incorporate Nuclear Regulatory Commission organizational changes. The revisions affect both internal and external stakeholders (contractors) and are needed to support current Nuclear Regulatory Commission contracting policies and ensure openness, transparency, and effectiveness in agency acquisitions.	Medium	AJ36	NRC-2014-0033	N/A	06/01/2014	N/A	03/01/2017	04/01/2017	08/01/2017	10/01/2017
54	Rulemaking Actions	Price-Anderson Inflation Adjustment	This rule would amend the NRC's to satisfy the requirement in the Atomic Energy Act of 1954, as amended, to adjust the maximum total and annual standard deferred premiums specified in the Price-Anderson Act for inflation at least once during each 5-year period following August 20, 2003.	TBD	AJ96	NRC-2017-0027	N/A	12/06/2016	N/A	N/A	N/A	06/15/2018	07/31/2018
55	Rulemaking Actions	2018 Edition of the American Society of Mechanical Engineers	This rule would amend the Nuclear Regulatory Commission's regulations to incorporate by reference the 2018 ASME Operations and Maintenance (OM) Code. This is a non-discretionary rule directed by SECY-10-0016. The Nuclear Regulatory Commission has a well-established practice for approving and/or mandating the use of certain parts of editions and addenda of ASME Codes in 10 CFR 50.55a through the rulemaking process for incorporation by reference. This practice assures	High	AJ97	NRC-2017-0028	N/A	12/06/2016	TBD	TBD	TBD	TBD	TBD

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			consistency across the industry and that the Nuclear Regulatory Commission will continue to support the use of the most updated and technically sound techniques developed by the ASME to provide adequate protection to the public. This rulemaking also enhances the efficiency and effectiveness of Nuclear Regulatory Commission regulations by making use of current voluntary consensus standards and is consistent with applicable requirements of the National Technology Transfer and Advancement Act.										
56	Rulemaking Actions	NuScale Small Modular Reactor Design Certification	This rule would amend the Nuclear Regulatory Commission's regulations in 10 CFR Part 52 by issuing a new appendix for the initial certification of the NuScale Modular Reactor standard plant design. Applicants or licensees intending to construct and operate a nuclear power plant using the NuScale Small Modular Reactor design may do so by referencing this design certification rule.	High	AJ98	NRC-2017-0029	N/A	12/08/2016	TBD	TBD	TBD	TBD	TBD
57	Rulemaking Actions	Price Anderson Adjustment of Deferred Premiums for Inflation	This rulemaking is a statutorily required rulemaking under the Price Anderson Act and would make inflation adjustments to deferred premiums requirements. It is next due to be complete by 2018.	Medium	TBD	TBD	N/A	12/06/2016	N/A	N/A	N/A	TBD	TBD
58	Rulemaking Actions	Decommissioning Financial Assurance for Germanium-68/Gallium-68 Generators	This rulemaking would remove the unnecessary cost of a decommissioning financial assurance plan (DFP) for licensees and applicants possessing fewer than 20 generators if the used generators are returned directly to their	Medium	TBD	TBD	N/A	TBD	TBD	TBD	TBD	TBD	TBD

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		Returned to Manufacturers or Distributors	<p>manufacturer and distributor (M&amp;D). This rulemaking would add a footnote to Appendix B to 10 CFR Part 30, "Quantities of Licensed Material Requiring Labeling," that would effectively raise from 10 mCi to 1 Ci the threshold at which a DFP is required for germanium-68/gallium-68 generators. This increased DFP threshold would only apply to users that have an agreement in place to ensure that the user will return and the M&amp;D will accept the generator after use.</p>										
59	Rulemaking Acting	Revision of Fee Schedules: Fee Recovery for FY 2019	<p>This rulemaking would implement the Omnibus Budget Reconciliation Act of 1990 (OBRA-90), as amended, which requires the Nuclear Regulatory Commission to recover approximately 90 percent of its budget authority in a given fiscal year, less the amounts appropriated from the Waste Incidental to Reprocessing, generic homeland security activities, and Inspector General services for the Defense Nuclear Facilities Safety Board, through fees assessed to licensees. This rulemaking would amend the Commission's fee schedules for licensing, inspection, and annual fees charged to its applicants and licensees. The licensing and inspection fees are established under 10 CFR Part 170 and recover the Nuclear Regulatory Commission's cost of providing services to identifiable applicants and licensees. Examples of services provided by the Nuclear Regulatory Commission for which 10 CFR Part 170 fees are assessed include</p>	High	AJ99	NRC-2017-0032	N/A	12/12/2016	N/A	01/12/2019	01/30/2019	05/12/2019	05/30/2019

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			license application reviews, license renewals, license amendment reviews, and inspections. The annual fees established under 10 CFR Part 171 recover budgeted costs for generic (e.g., research and rulemaking) and other regulatory activities not recovered under 10 CFR Part 170 fees.										
60	Petition Actions	Agency Procedures for Responding to Adverse Court Decisions and Addressing Funding Shortfalls	<p>On October 22, 2015, Jeffrey M. Skov submitted a PRM requesting that the Commission amend its rules of practice and procedure to establish procedures for responding to adverse court decisions and to annually report to the public each instance in which the NRC does not receive "sufficient funds reasonably necessary to implement in good faith its statutory mandates."</p> <p>The staff determined it has sufficient information to fully evaluate the issues raised in the petition, so the FRN did not request public comment.</p>	N/A	N/A	NRC-2015-0264	PRM-2-15	N/A	N/A	N/A	N/A	N/A	N/A
61	Petition Actions	Calculated Maximum Fuel Element Cladding Temperature	<p>On November 17, 2009, and June 7, 2010, Mark Edward Leyse, on behalf of the New England Coalition, submitted PRMs that request that the Commission revise 10 CFR 50.46(b)(1) to require that the calculated maximum fuel element cladding temperature not exceed a limit based on data from multi rod (assembly) severe fuel damage experiments. The petitioner also requests revision of Appendix K, "ECCS [Emergency Core Cooling System] Evaluation Models," to 10 CFR Part 50.</p>	N/A	N/A	NRC-2009-0554	PRM-50-93 and PRM-50-95	N/A	N/A	N/A	N/A	N/A	N/A



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62	Petition Actions	Determining Which Structures, Systems, and Components and Functions are Important to Safety	On July 20, 2015, and supplemented on August 31, 2015, Kurt T. Schaefer submitted a PRM that requests that the Commission amend 10 CFR Part 50 by defining and providing a set of criteria "for determining which structures, systems, components and functions are 'important to safety.'"	N/A	N/A	NRC-2015-0213	PRM-50-112	N/A	N/A	N/A	N/A	N/A	N/A
63	Petition Actions	Enhancing Reactor Safety	On July 26, 2011, the NRDC submitted six PRMs (five of which have already been closed) requesting that the Commission amend its regulations to require: (1) emergency preparedness (EP) enhancements for prolonged station blackouts, (2) EP enhancements for multiunit events, and (3) licensee confirmation of seismic hazards and flooding hazards every 10 years that addresses any new and significant information. All of the PRMs cite the Fukushima NTTF report as the rationale and bases for the PRMs.	N/A	N/A	NRC-2011-0189	PRM-50-99	N/A	N/A	N/A	N/A	N/A	N/A
64	Petition Actions	Erik Erb – Minimum Day Off Requirement for Security Officers	On August 17, 2010, Erik Erb submitted a petition for rulemaking requesting that the NRC amend its fitness-for-duty regulations to decrease the minimum days off requirement from an average of 3 days per week to 2.5 or 2 days per week for security officers working 12-hour shifts. On May 16, 2011, the Nuclear Regulatory Commission published a notice in the Federal Register (76 FR 28191) closing the docket for this PRM because staff determined that it would be considered in the proposed rulemaking titled "Fitness-for-Duty Programs" (previously titled "Part 26, Subpart I" and "Quality	N/A	N/A	NRC-2010-0310	PRM-26-6	N/A	N/A	N/A	N/A	N/A	N/A

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			Control/Quality Verification”) (Docket ID: NRC-2009-0090). On December 9, 2015, a notice discontinuing the “Fitness-for-Duty Programs” rulemaking was published in the Federal Register and staff determined that these PRMs would be resolved by the Nuclear Regulatory Commission in a separate action (80 FR 76394).										
65	Petition Actions	Improved Identification Techniques against Alkali-Silica Concrete Degradation at Nuclear Power Plants	On September 25, 2014, Sandra Gavutis, on behalf of C-10, submitted a PRM requesting that the Commission amend its regulations to provide improved identification techniques against alkali-silica reaction (ASR) concrete degradation at NPPs. The petitioner asserts that current NRC regulations, which rely on visual inspection to identify ASR degradation, do not adequately identify ASR without petrographic analysis. The petitioner is requesting that the Nuclear Regulatory Commission revise applicable regulations to require adherence with current American Concrete Institute standards and ASME codes.	N/A	N/A	NRC-2014-0257	PRM-50-109	N/A	N/A	N/A	N/A	N/A	N/A
66	Petition Actions	In-Core Temperature Monitoring at Nuclear Power Plants	On March 13, 2015, Mark Edward Leye submitted a petition for rulemaking requesting that the Commission amend its regulations to require all NPP licensees to use in-core monitoring devices at different elevations and radial positions throughout a reactor.	N/A	N/A	NRC-2015-0124	PRM-50-111	N/A	N/A	N/A	N/A	N/A	N/A
67	Petition Actions	Individual Monitoring Devices for Industrial	On July 14, 2016, the Nuclear Regulatory Commission received a petition for rulemaking (PRM) from Mr. Arney Bereson and Mr. Walt Cofer (the	N/A	N/A	NRC-2016-0182	PRM-34-7	N/A	N/A	N/A	N/A	N/A	N/A

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		Radiographic Personnel	petitioners), on behalf of the Nondestructive Testing Management Association (NDTMA) and the American Society for Nondestructive Testing (ASNT). The petitioners request that the NRC amend its regulations to authorize use of improved individual monitoring devices for industrial radiographic personnel.										
68	Petition Actions	Large Break Loss of Coolant Accident Redefinition	The petition requests amendment of the Nuclear Regulatory Commission's Emergency Core Cooling System (ECCS) regulations to allow the use of an alternative maximum pipe break size for the largest pipe in the reactor coolant system in ECCS evaluation models for Light-Water Nuclear Power Reactors. The regulations currently specify the use of a double-ended rupture of the largest pipe in the reactor coolant system in ECCS models. NEI states that the proposed change is necessary to improve consistency within the existing regulations and will provide increased plant safety through the use of more realistic technical specifications in surveillance testing. The petitioner estimates regulatory improvements could be expedited by up to 2 years.	N/A	N/A	NRC-2004-0006	PRM-50-75	N/A	N/A	N/A	N/A	N/A	N/A
69	Petition Actions	Linear No-Threshold Model and Standards for Protection against Radiation	On February 9, 2015, February 13, 2015, and February 24, 2015, Carol S. Marcus, Mark L. Miller, and Mohan Doss, respectively, submitted nearly identical PRMs requesting that the Commission amend its regulations in 10 CFR Part 20, "Standards for Protection Against Radiation," to take radiation hormesis into account and end the	N/A	N/A	NRC-2015-0057	PRM-20-28, PRM-20-29, PRM-20-30	N/A	N/A	N/A	N/A	N/A	N/A

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			Nuclear Regulatory Commission's reliance on the linear no-threshold hypothesis used to determine dose standards in its regulations. The petitioners assert concept of radiation hormesis claims that low doses of radiation have "no effects or protective effects" on population groups (low doses of radiation having protective or beneficial effects is a theory known as hormesis). Consequently, the petitioners request that: (1) worker dose remain at present levels, with allowances up to 100 millisievert (10 roentgen equivalent man (rem)); (2) the use of the "as low as is reasonably achievable" principle be removed entirely from the Nuclear Regulatory Commission regulations; (3) public doses be raised to match worker doses; and (4) the Nuclear Regulatory Commission end differential doses to pregnant women, embryos, fetuses, and children under 18 years of age.										
70	Petition Actions	Measurement and Control of Combustible Gas Generation and Dispersal	On October 14, 2011, the NRDC submitted a PRM requesting that the Commission amend its regulations regarding the measurement and control of combustible gas generation and dispersal within a power reactor system.	N/A	N/A	NRC-2011-0189	PRM-50-103	N/A	N/A	N/A	N/A	N/A	N/A
71	Petition Actions	Nuclear Energy Institute – Fitness-for-Duty Programs	On September 3, 2010, Anthony R. Pietrangelo, on behalf of NEI, submitted a PRM requesting that the NRC amend its regulations regarding fitness-for-duty programs to refine existing requirements based on experience gained since the regulations were last amended in 2008. On May 16, 2011, the Nuclear	N/A	N/A	NRC-2010-0304	PRM-26-5	N/A	N/A	N/A	N/A	N/A	N/A

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			Regulatory Commission published a notice in the Federal Register (76 FR 28192) closing the docket for this PRM because staff determined that it would be considered in the proposed rulemaking titled "Fitness-for-Duty Programs" (previously titled "Part 26, Subpart I" and "Quality Control/Quality Verification") (Docket ID: NRC-2009-0090). On December 9, 2015, a notice discontinuing the "Fitness-for-Duty Programs" rulemaking was published in the Federal Register and staff determined that these PRMs would be resolved by the Nuclear Regulatory Commission in a separate action (80 FR 76394).										
72	Petition Actions	Power Reactors in Extended Shutdowns	On September 1, 2016, the Nuclear Regulatory Commission received a petition for rulemaking submitted by David Lochbaum of the Union of Concerned Scientists on behalf of co-petitioners Jim Riccio, Greenpeace, and Geoffrey H. Fettus, Natural Resources Defense Council (petitioners). The petitioners seek to have the NRC promulgate regulations applicable to nuclear power reactors with operating licenses issued by the NRC but in an extended outage.	N/A	N/A	NRC-2016-0204	PRM-50-114	N/A	N/A	N/A	N/A	N/A	N/A
73	Petition Actions	Professional Reactor Operator Society - Fitness-for-Duty Programs	On October 16, 2009, Robert N. Meyer, on behalf of the Professional Reactor Operator Society, submitted a PRM requesting that the Commission change the term "unit outage" to "site outage" in 10 CFR Part 26 and that the definition of "site outage" read "up to 1 week prior to disconnecting the reactor unit from the	N/A	N/A	NRC-2009-0482	PRM-26-3	N/A	N/A	N/A	N/A	N/A	N/A

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			grid and up to 75-percent turbine power following reconnection to the grid.” On May 16, 2011, the Nuclear Regulatory Commission published a notice in the Federal Register (76 FR 28192) closing the docket for this PRM because staff determined that it would be considered in the proposed rulemaking titled “Fitness-for-Duty Programs” (previously titled “Part 26, Subpart I” and “Quality Control/Quality Verification”) (Docket ID: NRC-2009-0090). On December 9, 2015, a notice discontinuing the “Fitness-for-Duty Programs” rulemaking was published in the Federal Register and staff determined that these PRMs would be resolved by the Nuclear Regulatory Commission in a separate action (80 FR 76394).										
74	Petition Actions	Protection of Digital Computer and Communication Systems and Networks	On June 12, 2014, Anthony Pietrangelo, on behalf of NEI, submitted a PRM requesting that the Commission revise certain cybersecurity language in its regulations to ensure that the rules are consistent with the Nuclear Regulatory Commission’s original intent, are less burdensome for Nuclear Regulatory Commission licensees, and adequately protect public health and safety and common defense and security.	N/A	N/A	NRC-2014-0165	PRM-73-18	N/A	N/A	N/A	N/A	N/A	N/A
75	Petition Actions	Risk-Informed Categorization and Treatment of Structures, Systems, and Components for Nuclear	On January 15, 2015, Michael D. Tschiltz, on behalf of NEI, submitted a PRM requesting that the Commission amend its regulations to clarify the scope of applicability of 10 CFR 50.69, “Risk-Informed Categorization and Treatment of Structures, Systems, and Components for Nuclear Power	N/A	N/A	NRC-2015-0028	PRM-50-110	N/A	N/A	N/A	N/A	N/A	N/A

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		Power Reactors	Reactors,” to include holders of combined operating licenses (COL). The applicability and scope of the Nuclear Regulatory Commission’s regulations in 10 CFR 50.69 currently applies to a holder of an operating license under 10 CFR Part 50; a holder of a renewed operating license under 10 CFR Part 54, “Requirements for Renewal of Operating Licenses for Nuclear Power Plants;” an applicant for a construction permit or operating license under 10 CFR Part 50; or an applicant for a design approval, a combined license, or manufacturing license under 10 CFR Part 52, “Licenses, Certifications, and Approvals for Nuclear Power Plants.” The petitioner is requesting that the rule be amended to include holders of COLs in the scope of applicability. The NRC staff discussed this topic at public meetings held during the 2 years before NEI filed this PRM. The staff held a public meeting on September 16, 2015, to gain further understanding of the scope and bases for the petition. During the public meeting, NEI clarified that holders of COLs be included in the scope of applicability of 10 CFR 50.69, which could lead to a need for additional guidance.										
76	Petition Actions	Uninterruptible Monitoring of Coolant and Fuel in Reactors and	On September 10, 2015, Dr. Alexander DeVolpi submitted a PRM requesting that the Commission amend its regulations in 10 CFR Part 50, “Domestic Licensing of Production and Utilization Facilities,” to require	N/A	N/A	NRC-2015-0230	PRM-50-113	N/A	N/A	N/A	N/A	N/A	N/A

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		Spent Fuel Pools	<p>“installation of ex-vessel instrumentation for uninterrupted monitoring of coolant and fuel in reactors and spent-fuel pools.” The petitioner cites a 2014 National Research Council report titled, “Lessons Learned from the Fukushima Nuclear Accident for Improving Safety of U.S. Nuclear Plants,” which gave high priority to Recommendation 5.1A.</p> <p>This recommendation stated that greater “[a]ttention to availability, reliability, redundancy, and diversity of plant systems and equipment is specifically needed for . . . [i]nstrumentation for monitoring critical thermodynamic parameters in reactors, containments, and spent fuel pools.” In addition, the petitioner cites Section 5.1.1.4 of the report, “Instrumentation for Monitoring Critical Thermodynamic Parameters,” which states that “robust and diverse monitoring instrumentation that can withstand severe accident conditions is essential for diagnosing problems, selecting and implementing accident mitigation strategies, and monitoring their effectiveness.”</p>										