

Supplement to Fuel Cycle Program Integrated Schedule
Last Updated Wednesday, March 7, 2016

This supplement provides a public version of the purpose, brief overview, and background documentation available for the regulatory activities being tracked on the Fuel Cycle Cumulative Effects of Regulation Integrated Schedule. Links to the background documents have been included where possible.

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RULEMAKINGS

Part 20 “Standards for Protection Against Radiation”	
Key Contact:	Maupin, Cardelia , 301-415-2312.
Purpose:	Update the radiation protection standards to address improvements in the modeling of dose calculations.
Key Information	<ul style="list-style-type: none"> • The regulatory basis for the Part 20 rulemaking to update the radiation protection thresholds is under development. • The 10 CFR Part 20 Advanced Notice of Proposed Rulemaking ended on June 22, 2015. The NRC received approximately 3000 letters, which we are in the process of binning.
Related Documents	<ul style="list-style-type: none"> • http://www.regulations.gov/#!docketDetail;D=NRC-2009-0279 • http://www.nrc.gov/about-nrc/regulatory/rulemaking/potential-rulemaking/opt-revise.html. • SECY-08-0197 dated December 18, 2008 (ML083360555). • SRM-SECY-08-0197 dated December 18, 2008 (ML090920103). • SECY-12-0064 dated April 25, 2012 (ML121020108). • SRM-SECY-12-0064 dated December 17, 2012 (ML12352A133).
Meeting Information	<ul style="list-style-type: none"> • None Scheduled.

Part 21 “Reporting Defects and Non-Compliance”	
Key Contact:	Sabrina Atack , 301-415-7241.
Purpose:	Develop revised rule and accompanying guidance to clarify key definitions and describe requirements and processes for evaluating and reporting and commercial-grade dedication activities. Three draft guides will be prepared with the rule – DG-1291 (evaluating and reporting for power reactors); DG-1292 (commercial grade dedication for power reactors); and DG-3049, "Reporting of Defects and Noncompliance for Fuel Cycle, Materials, Waste Disposal, Packaging and Transportation, Independent Storage, and Non-Power Reactor Licensees."
Key Information	<ul style="list-style-type: none"> • Staff issued the final Regulatory Basis in August 2015. Staff initiated work on proposed rule and regulatory guides. • DG-1292 (commercial grade dedication) plans to endorse NEI 14-09 “Guidelines for the Implementation of 10 CFR Part 21 Reporting of Defects and Noncompliances.” Timing for issuance will be such that DG is issued prior to proposed rule rather than being issued with proposed rule in order to be responsive to industry comments. • The proposed date to finalize the rule is January 2017. A 75 day comment period on the proposed rule would be held January to March 2017. The final rule, according to the pending schedule, is anticipated to be published by June 2018. • Part 21 rulemaking is under review by the Commission as part of the evaluation of the staff’s recommendations in SECY 2016-0009.
Related Documents	<ul style="list-style-type: none"> • http://www.regulations.gov/#!docketDetail;D=NRC-2012-0012 • http://www.nrc.gov/reactors/new-reactors/oversight/quality-assurance/part-21-rulemaking.html. • OIG-10-20 dated September 28, 2010 (ML102710583). • OIG-11-A-08 dated March 23, 2011 (ML110820426). • SECY-11-0135 dated September 29, 2011 (ML112430138). • SECY-16-0009 dated January 31, 2016 (ML16028A208).
Meeting Information	<ul style="list-style-type: none"> • March 16, 2016 – Meeting to brief fuel cycle industry on the development of the DG-3049. • To Be Determined – Meeting will be held with all stakeholders of DG-3049. Anticipated during public comment period. • March - May 2017 – Meeting(s) to discuss resolution of comments on the proposed rule.

Part 26 “Subpart I Managing Fatigue”	
Key Contact:	Alex Sapountzis , 301-287-3660.
Purpose:	Rulemaking regarding applying fatigue requirements to security personnel at Category I fuel cycle facilities.
Key Information	<ul style="list-style-type: none"> Staff reviewed the proposed alternative to rulemaking (last updated by the Category I licensees on June 30, 2015) that would add fatigue measures for security officers at Category I sites. The staff considers the proposal a viable option and is in the process of requesting Commission approval to terminating this rulemaking.
Related Documents	<ul style="list-style-type: none"> http://www.nrc.gov/security/domestic/phys-protect/reg-initiatives/10cfr73.html. Part 26: SRM-COMSECY-04-0037 (fatigue for officers at material licensees), dated September 1, 2004 (ML042450533). Part 26/73: Draft Regulatory Basis (May 2014) (ML14113A468). Request for Additional Information Concerning Security Officer Attentiveness Alternate Proposal , dated January 22, 2015 (ML15013A126).
Meeting Information	<ul style="list-style-type: none"> None Scheduled.

Part 61 “Proposed Rule: Low-Level Radioactive Waste Disposal”	
Key Contact:	Gary Comfort , 301-415-8106.
Purpose:	Rulemaking for a site-specific analysis or performance assessment for the disposal of depleted uranium (DU) and other long-lived isotopes in a near-surface disposal facility.
Key Information	<ul style="list-style-type: none"> Proposed rule (80 FR 16082) and related guidance (80 FR 15930) were published in the Federal Register for public comment on March 26, 2015. The comment period originally ended on July 24, 2015. It was reopened (80 FR 51964) on August 27, 2015 and closed on September 21, 2015. The NRC is in the process of binning the public comments and developing the final rule.
Related Documents	<ul style="list-style-type: none"> http://www.regulations.gov/#!docketDetail;D=NRC-2011-0012. http://www.nrc.gov/about-nrc/regulatory/rulemaking/potential-rulemaking/potential-part61-revision.html. http://www.nrc.gov/about-nrc/regulatory/rulemaking/potential-rulemaking/uw-streams.html. Technical basis for proposed rule dated April 28, 2011 (ML111040419). Preliminary proposed rule language dated May 2011 (ML111150205). COMWDM-11-0002/COMGA-11-0002 - Revision to 10 CFR Part 61 dated November 03, 2011 (ML113070543). SRM-COMWDM-11-0002/COMGEA-11-0002 - Revision to 10 CFR Part 61 dated January 19, 2012 (ML120190360). Draft 10 CFR Part 61 proposed rule package (SECY-13-0075) dated July 18, 2013 (ML13128A160). Staff requirements memorandum – SECY-13-0075 – proposed rule: Low-Level Radioactive Waste Disposal (10 CFR PART 61) (RIN 3150-A192) dated February 12, 2014 (ML14043A371).
Meeting Information	<ul style="list-style-type: none"> None scheduled.

Part 73 “Part 73-Enhanced Security for SNM”	
Key Contact:	Keith McDaniel , 301-415-5252.
Purpose:	Update security regulations within <i>Title 10 of the Code of Federal Regulations</i> (10 CFR) Part 73 that govern the security for special nuclear material at fixed sites and during transportation. Update considers material attractiveness.
Key Information	<ul style="list-style-type: none"> • Make generically applicable security requirements similar to those imposed by security orders issued following the terrorist attacks of September 11, 2001. • Consider risk insights, operational oversight, inspection activities, and international guidance (e.g., Material Attractiveness, Dose Limit Threshold, Sabotage, Safety-safeguards Interface). • Improve consistency and clarity. • Use a risk-informed and performance-based structure. • Public comments on the draft regulatory basis via FRN closed on October 17, 2014. • NMSS has reviewed the regulatory basis and determined that it provides adequate justification to initiate the rulemaking. • The release date of preliminary rule language has yet to be determined. • Proposed rule to the Commission in September 2016. • Final rule to the Commission by March 2018.
Related Documents	<ul style="list-style-type: none"> • http://www.nrc.gov/security/domestic/phys-protect/reg-initiatives/10cfr73.html. • SRM-SECY-09-0123 – Material Categorization and Future Fuel Cycle Facility Security-Related Rulemaking, dated July 8, 2010 (ML101890711). • SRM-COMSECY-05-0058 – Schedule and Resources for Security Rulemakings, dated November 16, 2005. • Part 73: Final Regulatory Basis (ML14321A007). The Notice was published on April 22, 2015.
Meeting Information	<ul style="list-style-type: none"> • None Scheduled.

Part 73 “Cyber Security”	
Key Contact:	Matt Bartlett , 301-415-7154.
Purpose:	The Commission directed the NRC staff to proceed with a proposed rulemaking to implement cyber security into Part 73 for certain fuel cycle facilities. The Commission directed the rulemaking to be a high priority, expedited rulemaking that uses a graded, consequence based regulatory approach and is informed by industry’s voluntary efforts.
Key Information	<ul style="list-style-type: none"> • In March 2009, the NRC completed a Cyber Security Rule for Reactors which incorporated new requirements into 10 CFR 73.54 and related guidance in Regulatory Guide 5.71. • In 2012, the NRC staff submitted SECY 12-0088, “The Nuclear Regulatory Commission Cyber Security Roadmap” that outlined a path forward for the fuel cycle facility cyber security. • The NRC staff published SECY-14-0147, “Cyber Security For Fuel Cycle Facilities,” in December, 2014, which proposed three options to implement cyber security. These options included orders, rulemaking, or continuation of voluntary initiatives. • The Commission provided SRM-SECY-14-0147, “Staff Requirements – SECY-14-0147 – Cyber Security for Fuel Cycle Facilities” in March, 2015, which directed the NRC staff to proceed with rulemaking. The NRC staff published a draft Regulatory Basis for public comment in the <i>Federal Register</i> on September 4, 2015, (80 FR 53478 – 53480), and the comment period closed on October 5, 2015. • The NRC staff addressed public comments submitted by nine separate respondents in the regulatory basis. The final regulatory basis and comment resolution document are scheduled to be finalized by March 2016.
Related Documents	<ul style="list-style-type: none"> • June 2012 – SECY-12-0088, “Cyber Security Roadmap,” (ML12135A050). • December, 2014 – SECY-14-0147, "Cyber Security For Fuel Cycle Facilities" (Non-public). • March, 2015 – SRM-SECY-14-0147, “Staff Requirements – SECY-14-0147 – Cyber Security for Fuel Cycle Facilities” (ML15083A175). • Commissioner Baran's Vote on SECY-14-0147 – Cyber Security for Fuel Cycle Facilities (ML15118A921). • Commissioner Ostendorff's Vote on SECY-14-0147 – Cyber Security for Fuel Cycle Facilities (ML15132A632). • August 27, 2015 – “Draft Regulatory Basis - Cyber Security at Fuel Cycle Facilities” (ML15198A019). • September 4, 2015 – “Federal Register Notice for Draft Regulatory Basis for Cyber Security at Fuel Cycle Facilities [Package]” (ML15198A024). • Documents to Support December 10, 2015 Public Meeting on Cyber Security for Fuel Cycle Facilities [Package]” (ML15344A296). • February 18, 2016, “Summary of Public Meeting to Discuss Fuel Cycle Cyber Security Proposed Rule Concepts” (ML16054A160).

Meeting Information	<ul style="list-style-type: none">• March 17, 2016 – Public meeting to discuss draft proposed rule.• December 2016 – February 2017, 75 day comment period on proposed rulemaking.• February 2017 – Public meetings to support comment period on the proposed rulemaking.• July 2017, Public meeting to discuss the proposed rule comments and how they were addressed.• February 2018, Public meeting to discuss completion of the final rule and implementation period.• (Note: Additional public meetings will be conducted, as needed, including as part of the quarterly CER meetings).
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Part 74 “Material Control & Accounting of Special Nuclear Material”	
Key Contact:	Tom Pham , 301-415-7254.
Purpose:	This rulemaking revises and consolidates the MC&A requirements in order to update, clarify and strengthen them.
Key Information	<ul style="list-style-type: none"> • The schedule has been re-baselined to extend the completion date by one year to allow resolution of comments. • The NRC plans to issue the revised regulatory analysis for the draft rule, including the revision of the backfit analysis exclusion. • Regulatory Guide for non-fuel cycle facilities was issued in May 2015 for comment (ML15015A271). • The final rule due date has yet to be determined. • The re-baselining decision did not specifically address Part 74 rulemaking. NRC is considering long term path forward on the rulemaking.
Related Documents	<ul style="list-style-type: none"> • http://www.regulations.gov/#!docketDetail;D=NRC-2009-0096. • OIG Report 03-A-15 dated February 6, 2013 (ML13037A476). • SECY-08-0059 dated April 2008, (ML080580273). • SRM-SECY-08-0059 dated February 2009, (ML090360473). • SECY-11-0175 dated December 2011, (ML113400134). • SRM-SECY-11-0175 dated April 12, 2012 (ML121030104). • COMSECY-12-0026 dated November 2012, (ML12311A436). • SRM-COMSEC-12-0026 dated May 2013, (ML13130A077). • SECY-16-0009 – Enclosure 2 dated February 1, 2016, (ML16028A433).
Meeting Information	<ul style="list-style-type: none"> • None scheduled.

NON-RULEMAKINGS

ANS 57.11 “ISA Standard”	
Key Contact:	Margie Kotzalas , 301-415-7298.
Purpose:	ANS is developing an ISA standard that would provide clear guidelines for licensees to perform an ISA and improve the ability to identify those elements which serve as leading indicators of ISA quality.
Key Information	<ul style="list-style-type: none">The draft version of the ANS ISA Standard will be returned to the working group this Spring to be reworked.
Related Documents	<ul style="list-style-type: none">www2.ans.org (search ANS 57.11) (http://www2.ans.org/standards/committees/nfsc/calendar/files/ans-57-11pins(2)-forfscapproval.doc).
Meeting Information	<ul style="list-style-type: none">None Scheduled.

NUREG-1520, Revision 3, “Standard Review Plan for the Review of a License Application for a Fuel Cycle Facility”	
Key Contact:	Robert Johnson , 301-415-7314.
Purpose:	Update the guidance for standard review plans for fuel cycle facilities.
Key Information	<ul style="list-style-type: none"> • The second revision to NUREG-1520 was completed and made publicly available in June 2015. • The NRC staff anticipates that another revision will be needed after the ANS ISA standard is issued. Revision 3 tentatively scheduled to begin in Summer 2017.
Related Documents	<ul style="list-style-type: none"> • SECY-12-0091 dated June 30, 2012 (ML12128A343). • SRM-SECY-12-0091 dated October 9, 2012 (ML12284A033). • http://www.regulations.gov/#!docketDetail;D=NRC-2012-0220. • The Advisory Committee on Reactor Safeguards provide a letter that they do not need to review the update to NUREG-1520 (ML14196A236). • Comments on the draft NUREG-1520 are available on regulations.gov (NRC-2012-0220). • Comment resolution table dated March 23, 2105 (ML15065A286). • Revision 2 available in the NRC public library: http://www.nrc.gov/reading-rm/doc-collections/nuregs/staff/sr1520/
Meeting Information	<ul style="list-style-type: none"> • None scheduled.

Acute Chemical Exposures (Dermal and Ocular)	
Key Contact:	Marilyn Diaz , 301-415-7110.
Purpose:	Provide guidance for reviewing chemical hazards in the ISA and quantitative standards used to assess the consequences to an individual from licensed material or hazardous chemicals produced from licensed material.
Key Information	<ul style="list-style-type: none"> • The ISG will discuss the criteria staff will apply when reviewing the ISA chemical safety analysis and proposed quantitative standards used to demonstrate compliance with 10 CFR 70.61 and 70.65(b)(7). • The draft ISG was published in the <i>Federal Register</i> (80 FR 11692; March 4, 2015). The NRC extended the public comment period to July 1, 2015, on this action to allow members of the public to review the additional information on backfitting before submitting any comments. • Public comment period closed on July 1, 2015. Staff is currently working on addressing all the comments and revising the ISG. • As directed by SRM-SGB150501-1, staff is working on an Information Paper to the Commission regarding the issuance of this ISG and any policy implications related to this guidance. The Commission Paper due date to the EDO is March 31, 2016.
Related Documents	<ul style="list-style-type: none"> • Information Notice (IN) 2007-22, “Recent Hydrogen Fluoride Exposures at Fuel Cycle Facilities” (ADAMS ML071410230). • NEI and NRC exchanged letters discussing the regulatory basis for requiring licensees to consider dermal and ocular exposures in the ISA (ML083360632, ML082900889, ML090690732 and ML090920296). • Response to NEI letter regarding back-fit concern for dermal and ocular exposure standards (ML14251A150). • NEI letter regarding concerns related to back-fit evaluation for dermal and ocular exposure standards (ML14322B019). • Federal Register Notices (80 FR 11692; March 4, 2015 and 80 FR 21274; April 17, 2015). • OGC Response to NEI regarding the backfitting concerns (ML15126A070) • ACRS Letter to EDO regarding Acute Chemical Exposures ISG (ML15293A314).
Meeting Information	<ul style="list-style-type: none"> • None Scheduled.

Revised Fuel Cycle Oversight Process (RFCOP)	
Key Contact:	Jack Foster , 301-415- 6250.
Purpose:	Develop RFCOP in accordance with SRM-SECY-11-0140.
Key Information	<ul style="list-style-type: none"> • More transparent and risk informed process taking advantage of 15 years of implementing integrated safety analyses. • Right-size core inspection with focus on risk significant systems, structures, and components.
Related Documents	<ul style="list-style-type: none"> • SECY-11-0140 dated October 2011 (ML111180705). • SRM-SECY-11-0140 dated January 5, 2012, (ML120050322). • Issued Revised Fuel Cycle Oversight Process (RFCOP) Program Plan (ML14181A674) and associated Gantt Chart (ML14181A654). • SECY-16-0005 dated January 2016 (ML15233A355).
Meeting Information	<ul style="list-style-type: none"> • March 16, 2016, Begin discussing proposed Qualitative SDP with external stakeholders. • Fall 2016, Planned briefings of ACRS Sub-committee and Full-committee on Qualitative SDP. • Fall 2016, Begin engaging stakeholders on the action matrix thresholds. • Fall 2016, Begin engaging external stakeholders on how the cross-cutting issues are proposed to be incorporated into the RFCOP. • Spring 2018, Planned briefings of ACRS Sub-committee and Full-committee on proposed Pilot Program. • Fall 2018 – February 2019, conduct Pilot Program. • Summer 2019, Planned briefings of ACRS Sub-Committee and Full-committee on Pilot Program results. • Fall 2019, Communicate to industry plan and schedule to implement RFCOP. • Fall 2019, Implement RFCOP.

Material Control and Accounting Regulatory Guides	
Key Contact:	Glenn Tuttle , 301-415-7230.
Purpose:	Effort to update the Regulatory Guides to be consistent with the 2006 agency expectation for regular revisions.
Key Information	<ul style="list-style-type: none"> • The purpose of this effort is to consolidate and eliminate outdated guidance. • 27 MC&A guidance documents are consolidated into 8 documents. <ul style="list-style-type: none"> ○ DG 5049 - Independent Assessment of Nuclear Material Control and Accounting Systems. NMSS is resolving public comments. ○ DG-5056 - Material Control and Accounting Physical Inventories and Material Balances. Out for public comment June 2016. ○ DG-5051 - Shipping, Receiving, and Internal Transfer of Special Nuclear Material. Out for public comment May 2016. ○ DG-5052 - Determination of Uranium or Plutonium: Methods based on the Analysis of Samples. Out for public comment in August/September 2016. ○ DG-5053 - Determination of Uranium or Plutonium: Nondestructive Assay Methods. Out for public comment in August/September 2016. ○ DG-5054 - Design Considerations to Minimize Residual Holdup of Special Nuclear Material in Process Equipment. Out for public comment in August/September 2016. ○ DG-5055 - Statistical Concepts for Material Control and Accounting. Tentative - four statistics related regulatory guides may be deleted. ○ DG-5050 - Selection of Material Balance Areas and Item Control Areas. Delayed. TBD.
Related Documents	<ul style="list-style-type: none"> • SECY-13-0031 dated March 28, 2013 (ML13063A051). • A cross-walk that links the old Regulatory Guides to the new Draft Guides (DG) (ML15056A518).
Public Interaction	<ul style="list-style-type: none"> • April-May 2016 – DG-5051; 60 day comment period. • June-July 2016 – DG-5056; 60 day comment period. • August–October 2016 – DG-5052, DG-5053, and DG-5054; 60 day comment period.

Fuel Cycle Information Exchange	
Key Contact:	Leira Cuadrado , 301-415-0597.
Purpose:	The Fuel Cycle Information Exchange (FCIX) provides an opportunity for NRC staff, industry representatives, licensees, and other stakeholders to openly discuss regulatory issues of mutual interest, as they relate to key sectors of the nuclear fuel cycle.
Key Information	<ul style="list-style-type: none"> The FCIX will be held biennially. Therefore, there will be no FCIX in 2016.
Related Documents	<ul style="list-style-type: none"> Link to the NRC public website on the FCIX http://www.nrc.gov/public-involve/conference-symposia/fcix.html.
Meeting Information	<ul style="list-style-type: none"> To-Be-Determined.