

Initial Project Plan - ROP for New Reactors

Staff Actions

Item	Date	Staff Actions	Responsibility	Status	Subcategory
1	September 9, 2014	Issue Transition Working Group Report with associated ROP for New Reactors Readiness Issues (RI)	NRC Transition Working Group	Complete (ML14031A386)	Transition Implementation Plan
2	May 20, 2015	Public kick-off meeting to discuss staff plans to develop ROP for new reactors	NRR/DIRS/IPAB	Complete	Project Management
3	September 16, 2015	Public meeting to further discuss initial thoughts and next steps and milestones	NRR/DIRS/IPAB	Complete	Project Management
4	March 17, 2016	Public meeting to further discuss ROP for New Reactors	NRR/DIRS/IPAB	Complete; Discussed AP1000 SSC Performance Verification Matrix	Project Management
5	April 13, 2016	Public meeting to further discuss ROP for New Reactors	NRR/DIRS/IPAB	Complete	Project Management
6	May 18, 2016	Public meeting to further discuss ROP for New Reactors	NRR/DIRS/IPAB	Planned; Discuss project plan and comments on AP1000 Matrix	Project Management
7	June 2016	Develop draft NRC PI white paper; make public for discussion/comments	NRR/DIRS/IPAB	Effort underway, part of RI-09B	Performance Indicators
8	June 2016	Develop NEI PI white paper; make public for discussion/comments	NEI	Effort underway	Performance Indicators
9	June 15, 2016	Public meeting to further discuss ROP for New Reactors	NRR/DIRS/IPAB	Planned	Project Management
10	July 2016	Finalize Draft AP1000 Safety Performance Verification Matrix	NRR/DIRS/IPAB	3/17/16: Draft AP1000 Safety Performance Verification Matrix made public	Project Management
11	July 2016-June 2017	Conduct meetings, workshops, tabletops as needed to develop and test proposed changes to PIs, inspection, and SDP	NRR/DIRS/IPAB & Team, NEI, industry		Project Management
12	December 2016	Conduct EDO Alignment meeting on proposed ROP for New Reactors approach (vice an information paper which had been pondered)	NRR/DIRS/IPAB	Need to engage management and align on path forward	Project Management
13	December 2016	Issue Implementation Plan to Ensure NRC Staff Readiness for AP1000 Operations	NRO/DEIA/NRGB	July 2016: Draft Implementation Plan to be made public; awaiting industry comments; tracked by RI-18A	Transition Implementation Plan
14	December 2016	Revise IMC 0609 Appendix M to add clarity on the use of qualitative factors <u>for operating reactors</u> to provide more transparency and predictability	NRR/DRA, NRR/DIRS/IPAB	Although this is for current fleet, a comprehensive vision that would apply to new reactors needs to be considered	Significance Determination Process
15	December 2016	Complete AP1000 Risk Information Matrix (RIM)	NRR/DIRS/IRIB	Under development; tracked by RI-11A	Inspection
16	March 2017	Complete plans for ROP inspection procedure revisions for AP1000 applicability	NRO/DIRS/IRIB	Contingent on completion of AP1000 RIM; tracked by RI-11B	Inspection
17	April 2017	Evaluate the need to provide additional clarity on the use of qualitative factors <u>for operating reactors</u> to provide more transparency and predictability to the process	NRR/DIRS/IPAB, NRR/DRA	Required by SRM-SECY-13-0137; Will be reported to Commission in ROP self-assessment SECY paper	Significance Determination Process
18	June 2017	Issue IMC 2514 revision for AP1000 startup testing	NRR/DIRS/IRIB	Required to support sites' pre-op testing program; effort underway;	Inspection – Startup testing

19	June 2017	Develop the proposed approach to enhance the significance determination process (SDP) by developing a structured qualitative assessment for events or conditions that are not evaluated in the supporting plant risk models.	NRR/DIRS/IPAB, NRR/DRA	Required by SRM-SECY-13-0137; Not started; tracked by RI-10	Significance Determination Process
20	June 2017	Develop the approach to SDP guidance to address circumstances that are unique to new reactors, for example due to uncertainty of the reliability of passive systems, structures and components (SSCs) or other SSCs with limited operational experience	NRR/DIRS/IPAB, NRR/DRA	Required by SRM-SECY-13-0137; Not started; tracked by RI-10	Significance Determination Process
21	June 2017	Develop the approach for appropriate Performance Indicators (PIs) and thresholds for new reactors, specifically those PIs in the Initiating Events and Mitigating Systems cornerstones, or develop additional inspection guidance to address identified shortfalls to ensure that all cornerstone objectives are adequately met	NRR/DIRS/IPAB	Required by SRM-SECY-13-0137; Effort underway; tracked by RI-09A	Performance Indicators
22	June 2017	Develop the approach for how the current Safety System Functional Failure PI would be applied to the passive safety-related components in Generation III+ reactors before deciding upon whether or how to apply this PI for new reactors, and report back to OCM.	NRR/DIRS/IPAB	Required by SRM-SECY-13-0137; Effort underway; tracked by RI-09A	Performance Indicators
23	August 2017	Issue draft SECY paper for ACRS and public review and comment	NRR/DIRS/IPAB & Team	The staff intends to develop and submit one Commission SECY paper informing the Commission of all planned ROP changes, including inspection procedure modifications/new inspection procedures, SDP changes, and PI changes. To be issued one month prior to ACRS meeting	Project Management
24	August/September 2017	Present and discuss draft SECY in a public meeting	NRR/DIRS/IPAB & Team		Project Management
25	September 2017	Brief the Advisory Committee on Reactor Safeguards (ACRS)	NRR/DIRS/IPAB & Team	Exact date TBD, Likely subcommittee and then full committee	Project Management
26	December 2017	Determine when PIs become relevant/valid	NRR/DIRS/IPAB	Tracked by RI-09B	Performance Indicators
27	December 2017	Fully incorporate Vogtle Units 3 and 4 and Summer Units 2 and 3 into all Reactor Program System (RPS) modules and reports during the RPS Replacement Project	NRR/DIRS/IRIB	Tracked by RI-17	Inspection
28	December 2017 ⁽¹⁾	SECY Paper with proposed approach for any revisions to the SDP for new reactors	NRR/DIRS/IPAB	Required by SRM-SECY-13-0137; Due 1 year prior to planned ROP for new reactor changes	Project Management
29	Stretch Date: December 2017 Due date: June 2018 ⁽¹⁾	SECY Paper with updates to PIs, including any new PIs or changes to thresholds	NRR/DIRS/IPAB	Required by SRM-SECY-13-0137; Due prior to power operation for the first new reactor units. The staff intends to submit one Commission SECY paper informing the Commission of all planned ROP changes, including inspection procedure modifications/new inspection procedures, SDP changes, and PI changes.	Project Management
30	December 2018	Complete ROP inspection procedure revisions for AP1000 applicability	NRR/DIRS/IRIB	Not started; Effort contingent on RIM development; tracked by RI-11B	Inspection
31	December 2018	Issue revised IMC 0609 and/or Appendix to describe new reactor SDP	NRR/DIRS/IPAB		Significance Determination Process

32	December 2018	Issue revised IMC 0608 (PI program) and IP 71151 (PI verification) as needed to cover new reactor PIs	NRR/DIRS/IPAB		Performance Indicators
33	December 2018	Issue revised NEI 99-02 as needed to cover new reactor PIs	NEI		Performance Indicators
34	December 2018	Revise Consolidated Data Entry (CDE) coding to handle new reactor PI modifications, as needed	NEI/INPO		Performance Indicators
35	December 2018	Issue all AP1000 startup testing inspection procedures	NRR/DIRS/IRIB	Issue prior to 10CFR103(g) finding; effort underway; tracked by RI-07	Inspection – Startup testing
36	December 2018	Issue revised IMC 2515 to refer to IMCs 2503/2504 for ITAAC subject to a hearing and operational program development inspections subsequent to 10CFR52.103(g) finding	NRR/DIRS/IRIB	Not started; tracked by RI-06	Inspection
37	December 2018	Issue revised IMC 0612 and/or IMC 0609 to refer to IMC 2519 to disposition findings associated with inspections for ITAAC subject to a hearing and operational program development subsequent to 10CFR52.103(g) finding	NRR/DIRS/IRIB	Not started; tracked by RI-08	Inspection
38	December 2018	10CFR52.103(g) finding	Executive Director for Operations (delegated from the Commission)	For planning purposes, date is aligned with latest licensee estimates for fuel load at Vogtle Unit 3 and Summer Unit 2	Project Management
39	June 2019	Estimate for initial power operations	Industry	Based on latest available information from licensees	Project Management

(1) The staff intends to submit one Commission SECY paper informing the Commission of all planned ROP changes, including inspection

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Commission SECY Papers

Date	Staff Actions	Responsibility	Status	Subcategory
December 2016	Alignment SECY Paper for proposed ROP for New Reactors approach (I'd prefer to skip the info paper and simply have an EDO alignment meeting)	NRR/DIRS/IPAB	Staff is considering developing a SECY paper to ensure alignment with staff's proposed approach to the ROP for new reactors	Project Management
December 2017 ⁽¹⁾	SECY Paper with proposed approach for any revisions to the SDP for new reactors	NRR/DIRS/IPAB	Required by SRM-SECY-13-0137; Due 1 year prior to planned ROP for new reactor changes	Project Management
June 2018 ⁽¹⁾	SECY Paper with updates to PIs, including any new PIs or changes to thresholds	NRR/DIRS/IPAB	Required by SRM-SECY-13-0137; Due prior to power operation for the first new reactor units	Project Management

(1) The staff intends to submit one Commission SECY paper informing the Commission of all planned ROP changes, including inspection procedure modifications/new inspection procedures, SDP changes, and PI changes. The Commission has required information from the staff at various times prior to new reactor operations. The earliest due date required by the Commission is one year prior to implementing changes to the ROP for new reactors, which is equal to one year prior to the first anticipated 10CFR52.103(g) finding (currently planned for December 2018).

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Public Meetings

Date	Staff Actions	Responsibility	Status	Subcategory
May 20, 2015	Public kick-off meeting to discuss staff plans to develop ROP for new reactors	NRR/DIRS/IPAB	Complete	Project Management
September 16, 2015	Public meeting to further discuss initial thoughts and next steps and milestones	NRR/DIRS/IPAB	Complete	Project Management
March 17, 2016	Public meeting to further discuss ROP for New Reactors	NRR/DIRS/IPAB	Complete; Discussed PIs, ROP Inspection, safety-related and regulatory treatment of non-safety systems (RTNSS)	Project Management
April 13, 2016	Public meeting to further discuss ROP for New Reactors (Teleconference)	NRR/DIRS/IPAB	Complete	Project Management
May 18, 2016	Public meeting to further discuss ROP for New Reactors	NRR/DIRS/IPAB	Planned	Project Management
June 15, 2016	Public meeting to further discuss ROP for New Reactors (Teleconference)	NRR/DIRS/IPAB	Planned	Project Management
July 14, 2016	Public meeting to further discuss ROP for New Reactors	NRR/DIRS/IPAB	Planned	Project Management
September 14, 2016	Public meeting to further discuss ROP for New Reactors	NRR/DIRS/IPAB	Planned	Project Management
November 16, 2016	Public meeting to further discuss ROP for New Reactors	NRR/DIRS/IPAB	Planned	Project Management