

SENIOR REACTOR ANALYST (SRA) AND RISK ANALYST SUPPORT EXPECTATIONS

The NRC Senior Reactor Analysts (SRAs) are trained to help achieve specific expectations and tasks in support of the NRC Reactor Oversight Process (ROP). These tasks are important in helping agency decision-makers gain risk-insights from inspection findings and effectively communicate the significance of those findings to internal and external stakeholders. To successfully achieve these tasks, all SRA's are expected to:

- Risk-informed Regulation Activities - Support implementation of NRC's risk-informed regulatory activities to successfully accomplish the agency's mission. The SRAs are expected to participate and/or provide leadership in task forces or small working groups on risk-informed activities. The SRA efforts would be focused on risk-informed activities associated with improvements to the ROP.
- ROP Implementation - Evaluate the safety significance of 1) plant events in support of the reactive inspection program 2) inspection findings in support of the SDP, and 3) Notice of Enforcement Discretion (NOED) requests, using quantitative and qualitative assessment techniques and applicable guidance documents. Based on the safety significance evaluations and insights provide timely recommendations to NRC management, including expectations on resources (i.e., time of effort), to support effective risk-informed decisions. Includes peer reviews of other SRA's risk analyses and evaluations and supporting the reactor inspection staff by providing risk-insights to improve the inspection sample process and screening question logic implementation. Provide insights during mid-cycles and end-of-cycle assessment meetings.
- Risk Communication - Provide effective communication regarding risk-informed applications with internal and external stakeholders through interactions with other agency probabilistic risk assessment (PRA) groups, licensees, reactor vendors, other Federal agencies, National Laboratories, international organizations, and other stakeholders.
- Train Technical Staff and Management in Risk-informed Applications - Support the qualification training of reactor inspectors, particularly in the SDP and risk-informed inspection sample selection. Provide periodic refresher training (and initial training) to regional management (i.e., regional SERP members) and other technical staff as necessary to ensure a common understanding of risk-informed techniques and applications (e.g., uncertainty, SDP, MD 8.3, NOED, PRA techniques) in support of risk-informed decision-making. Provide support to SRA candidates during the qualification training and provide mentorship throughout the process.
- Support Revisions to ROP and SDP-related Guidance - Participate and attend, as often as possible, SDP-related meetings (e.g., monthly SRA phone call between HQ and the

regional offices, the Spring and Fall SRA counterpart meetings, RASP User Group (RUG) meetings). Review and provide comments on revisions to IMC 0609, and associated attachments and appendices, other ROP-related inspection manual chapters (IMCs) and inspection procedures (IPs), and RASP Handbooks.

- Awareness of PRA State-of-the-Art - Maintain awareness of the risk assessment capabilities, licensee-generated risk insights, and NRC-generated risk insights. Maintain a general awareness of overall industry risk insights and integrate these risk perspectives with other regulatory concepts (e.g., defense-in-depth, licensing basis, performance history), to provide recommendations to NRC management for inspection effort focus.
- Maintain SRA Qualifications - Maintain inspector and SRA certifications in accordance with the guidance in IMC 1245, Appendix C9, "Senior Reactor Analyst Training and Qualification Program."

Headquarters-based SRAs and risk analysts that support ROP activities are also responsible for these support expectations:

- Risk Communication - Maintain NRC management awareness of significant PRA and/or SDP issues and changes via periodic communications and meetings with technical staff.
- ROP Implementation - Provide specific risk assessment assistance to Region-based SRAs and inspectors by performing peer reviews of SDP, MD 8.3, and NOED risk analyses and additional support as requested.
- Train Technical Staff and Management in Risk-informed Applications - Support the qualification training of risk analysts. Provide periodic refresher training (and initial training) to HQ management (i.e., HQ SERP members), and other technical staff as necessary, to ensure a common understanding of risk-informed techniques and applications (e.g., uncertainty, SDP, MD 8.3, NOED, PRA techniques) in support of risk-informed decision-making. Provide support to regional SRA candidates during the qualification and training process (i.e., HQ rotation).
- Support Revisions to ROP and SDP-related Guidance - Participate and attend, as often as possible, SDP-related meetings (e.g., monthly SRA phone call between HQ and the regional offices, the Spring and Fall SRA counterpart meetings, RASP User Group (RUG) meetings). Review and provide comments on revisions to IMC 0609, and associated attachments and appendices, other ROP-related inspection manual chapters (IMCs) and inspection procedures (IPs), and RASP Handbooks.
- Awareness of PRA State-of-the-Art - Continue professional development in the PRA field through training and education opportunities. Maintain exposure to evolving best PRA practices and techniques through attendance and participation in PRA conferences.

END

ATTACHMENT 1

Revision History for MC 0609.03

Commitment Tracking Number	Accession Number Issue Date Change Notice	Description of Change	Description of Training Required and Completion Date	Comment and Feedback Resolution Accession Number (Pre-Decisional, Non-Public)
N/A	06/08/2006	Revision history reviewed for the last four years	N/A	N/A
N/A	04/21/2000 CN 00-007	This manual chapter supports the New Reactor Oversight Program for significant determination of findings. The significance determination process detailed in the manual chapter is designed to characterize the significance of inspection findings for the NRC licensee performance assessment process using risk insights, as appropriate.	N/A	N/A
N/A	08/16/2001 CN 01-015	0609.04 has been renamed 0609.03.	N/A	N/A
NA	07/26/06 CN 06-018	Revision updates the management expectations for Senior Reactor Analyst located in the regional offices and headquarters.	N/A	ML061590493

Commitment Tracking Number	Accession Number Issue Date Change Notice	Description of Change	Description of Training Required and Completion Date	Comment and Feedback Resolution Accession Number (Pre-Decisional, Non-Public)
NA	ML101400526 06/02/11 CN 11-009	Revision updates references and adds expectation for SRAs to maintain their SRA and inspector certifications by attending required training courses. The SRA is expected to participate in periodic communications and meeting and conduct inspection staff refresher training. Provide comments and improvements to the RASP handbook based on field use and support the RASP User Group, when possible.	N/A	ML103490443
NA	ML14314A921 04/29/15 CN 15-008	Several significant changes to the guidance were made based on recommendations from the SDP Business Process Improvement (BPI) Report (ML14318A512) and the ROP Independent Assessment (ML14035A571)	N/A	ML15072A323