





REGDOC-3.1.1, Reporting Requirements for Nuclear Power Plants, Version 3

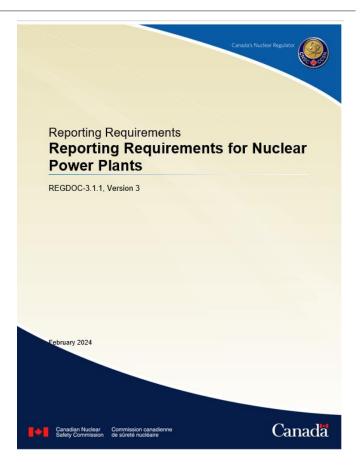
Commission Meeting February 21, 2024



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CMD 24-M4.A

CNSC staff are seeking
Commission acceptance of
REGDOC-3.1.1, Reporting
Requirements for Nuclear
Power Plants, version 3





OUTLINE

- REGDOC-3.1.1 overview
- REGDOC-3.1.1 revision goals
- Key changes
- Consultation results
- Implementation
- Conclusion



REGDOC-3.1.1 OVERVIEW

Objective:

Consolidates and clarifies reporting requirements found in:

- Nuclear Safety and Control Act (NSCA)
- Regulations
- REGDOCs

Purpose:

Provides information on content and timing of reporting for scheduled reports, event reports, and notifications to the CNSC

Scope:

Requirement for nuclear power plants



TYPES OF REPORTS IN REGDOC-3.1.1

Scheduled Reports

Quarterly Reports

- Safety Performance Indicators
- •NPP Pressure Boundaries
- NPP Personnel
- Operational Security

Annual Reports

- Radiation Protection
- Environmental Protection
- •Research and Development
- •Risk and Reliability
- Fuel Monitoring & Inspection

Event Reports & Notifications

Administrative Reports or Notifications

Preliminary Event Reports (PER) or Immediate Notifications

Detailed Event Reports (DER)



REGDOC REVISION GOALS (1/2)





Add requirements from updated regulations



Add requirements from new or updated regulatory documents



Removed requirements found elsewhere in the regulatory framework (Examples below)

 Radiation Protection Regulations

- REGDOC-2.2.4, Fitness for Duty, Managing Worker Fatigue
- REGDOC-2.2.4, Fitness for Duty, Volume II, Managing Alcohol and Drug Use
- REGDOC-2.4.2, Probabilistic Safety
 Assessment (PSA) for Reactor
 Facilities
- Principles, Assessments and Protection Measures
- **REGDOC-2.11.2,** *Decommissioning*
- REGDOC -2.12.3, Security of Nuclear Substances: Sealed Sources and Category I, II and III Nuclear Material



REGDOC REVISION GOALS (2/2)







Improve organization



- Integrate existing guidance
- Refine terminology & definitions

- Re-structure reporting requirements for scheduled reports
- Modify Appendix A to improve Details of **Reporting Requirements** for Event Reports

- Update content of scheduled reports
- Update timelines for preliminary event reports
- Update and improve templates for reporting

KEY CHANGES 1/4

Changes to Scheduled Reports

- Annual reporting on radiation protection (RP)
 - align with updated Radiation Protection Regulations
 - move RP reporting requirement from the fourth quarter NPP Personnel report
 - includes reporting on Radiation
 Protection Program



KEY CHANGES 2/4

Changes to Scheduled Reports

- Quarterly reporting operational security
 - introduce reporting requirements for cyber security
 - introduce reporting requirements for special security equipment

KEY CHANGES 3/4

Changes to Event Reporting

- Modify the timeline for Preliminary Event Reports
- Introduce retraction process
- Clarify when a Detailed Event Report is needed
- Introduce new reportable events
 - fitness for Duty
 - chemical and biological hazards



KEY CHANGES 4/4

Updates to terminology & definitions

- Systems, Structures, and Components (SSCs)
 Important to Safety
 - aligns with REGDOC-2.5.2, Design of Reactor Facilities
- Pressure Boundary (classified systems)
 - aligns with CSA N285.0, General requirements for pressure-retaining systems and components in CANDU nuclear power plants
- Serious Process Failure (SPF)
 - links SPF to fuel fitness for service



CONSULTATION THEMES

Version 3 was shared for consultation from April to August 2022, during which 103 comments were received from four commenters.

Topics covered by the comments included:

- Communicating relevant events with Indigenous Nations and communities
- Perceived increase in administrative burden
- 3 Opportunities for additional clarity

All commenters received a copy of the final CNSC staff responses



CONSULTATION RESULTS



Communicating relevant events with Indigenous Nations and communities

What we heard	How we addressed it
 Concern that REGDOC-3.1.1 doesn't identify mechanisms for licensee to use for communicating relevant reportable events to Indigenous Nations and communities 	 Comment will be considered during upcoming analyses of: REGDOC-3.2.1, Public Information and Disclosure REGDOC-3.2.2, Indigenous Engagement CNSC staff proposed leveraging regularly scheduled meetings between CNSC staff and Indigenous Nations and communities to discuss any concerns.



CONSULTATION RESULTS

2

Perceived increase in administrative burden

What we heard	How we addressed it					
 New reporting requirements relative to version 2 are burdensome 	 Evaluated and refined language to ensure intent and scope of reporting requirement were clear Confirmed that new requirements contribute to trending licensee performance or regulatory oversight 					
 Level of information required in scheduled reports is not needed 	 Where possible reduced the scope of what needs to be reported, and changed the reporting frequency from quarterly to annually 					
 Content of detailed event reports is onerous 	 Clarified that detailed event reports are only required for higher significance events 					



CONSULTATION RESULTS

3

Opportunities for additional clarity

What we heard	How we addressed it					
Additional guidance needed in many places	 Added guidance where suggested Often used text suggested by stakeholders 					
 Looking for simplified Appendix A, with less regulatory text 	 Simplified introductory text for Appendix A Separated contextual regulatory text from the actual reporting provisions 					



IMPLEMENTATION OF VERSION 3

Should the Commission accept the REGDOC, the key features of implementation are as follows:

- Publish REGDOC-3.1.1 and associated forms on CNSC website
- Request implementation plans from licensees
- Review implementation plans and timelines
- Revise Licence Conditions Handbooks (LCHs)
- Return to Commission to request amendment to the respective Power Reactor Operating Licences (PROLs), where applicable

REGDOC-3.1.1, Version 3:

- Incorporates reporting requirements from updated regulations
- Incorporates reporting requirements from new and updated REGDOCs
- Integrates operating experience
- Provides greater clarity on reporting requirements
- Supports CNSC staff in trending performance and informing regulatory oversight activities

CNSC staff recommend:

The Commission accept **REGDOC-3.1.1**, *Reporting Requirements for Nuclear Power Plants*, Version 3 for publication and use.





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Thank You! Questions?















REGDOC Section	Original			Correction						
Reference 13	CSA N292.3, Management of Low- and Intermediate-Level Radioactive Waste			Change to: CSA N292.0, General principles for the management of radioactive waste and irradiated fuel						
Section 3.5 2(d) Section 3.5 2(i) Appendix B.1 Table D.6	Terminology 'whole-body dose'			Change to: 'effective dose'						
Table D.1	Collective Dose for Internal Dose (p-mSv) Routine operations (p-mSv) Major Projects (p-mSv) Totals	or Station: External Dose (p-mSv)	Total Collective Effective Dose (p-mSv)	(may Note 2	Routine Operations	ctive Dose by Ar (p-mSv) Outages (including forced outages) outages in a separate ro upport of the lic	Major Projects (if applicable)	Collective Dos- Path (p-n Internal Dose Internal Dose effective doses for undergoing refu	way ISv) External Dose or units operating thishments or many	ajor projects.