

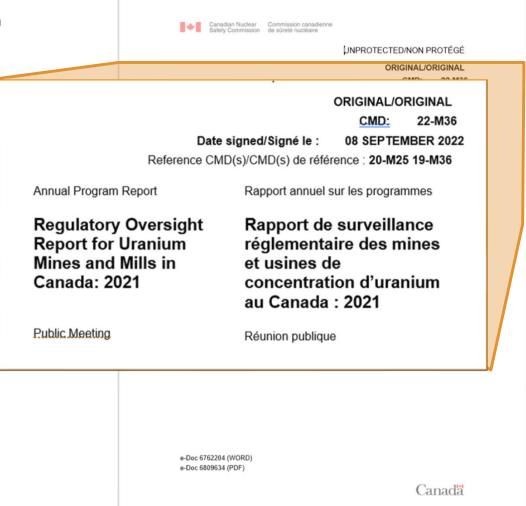
e-DOC 6799551 (PPTX) e-DOC 6931721 (PDF)





Presentation Outline

- Commission Member Document (CMD) submission
- Regulatory efforts
- Key Safety and Control Area (SCA) information
- Indigenous engagement activities
- Key themes from interventions
- Conclusions





Errata

- Dashboard incorrectly showed 12 inspections and 15 notices of noncompliances (NNCs), rather than the correct 18 inspections and 19 NNCs
- Date of information in table 2.8 should show as 2020, not 2021
- Safety significance of the action level exceedance in table J-1, and the lost-time injuries in table K-1, should be medium
- Figure 2.10 should show 5 spills for McClean Lake in 2021

None of these items change the overall conclusion in the report

Commission Member Document Submission

- Includes information on the 2021 calendar year for 5 operational sites
- Describes regulatory efforts by CNSC staff
- Focuses on 3 safety and control areas:
 - Radiation protection
 - Environmental protection
 - Conventional health and safety
- Includes Indigenous engagement activities

Note:

Facilities in red were in care and maintenance in 2021.

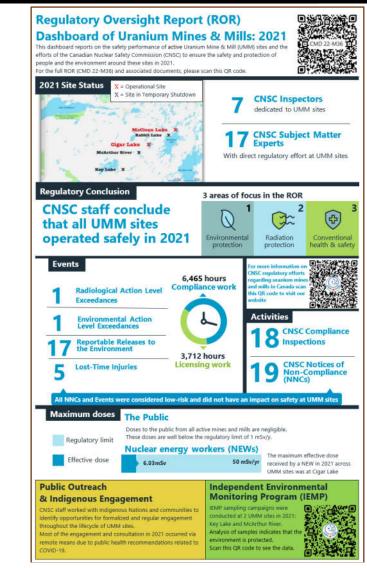




New in 2022: Regulatory Oversight Report Dashboard

ROR dashboard was developed to be:

- Included in 2021 UMM ROR (CMD 22-M36, appendix P)
- Used to complement engagement activities with Indigenous Nations and communities
- QR codes added for fast access to the CNSC's online information







Regulatory Efforts

Most inspections in 2021 were performed virtually.
All notices of non-compliance (NNCs) identified as low safety significance.



CNSC inspector discussing findings with licensee at Rabbit Lake, 2022 Source: CNSC

	2017	2018	2019	2020	2021
Number of Inspections	30	26	20	17	18
Notices of non-compliances	23	31	23	11	19



Regulating with the Province of Saskatchewan

- CNSC staff actively collaborate with provincial counterparts in Saskatchewan
- In particular:
 - Ministry of Environment
 - Ministry of Labour Relations and Workplace Safety
 - Ministry of Energy and Resources
- Work on updating the memorandum of understanding with the Government of Saskatchewan underway

CNSC and Saskatchewan benefit from regulatory collaboration





Reportable Events in 2021

REGDOC-3.1.2, Reporting Requirements, Volume 1: Non-Power Reactor Class I Nuclear Facilities and Uranium Mines and Mills, requires licensees to report to CNSC staff on various events.

- 2 action level exceedances:
 - 1 radiological action level exceedance
 - 1 environmental action level exceedance
- 15 spills recorded
- 5 lost time injuries

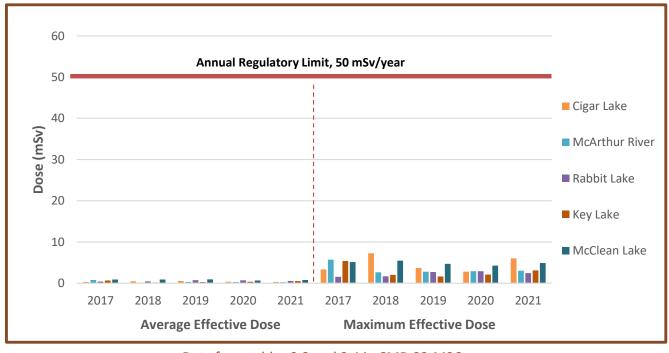
CNSC staff reviewed all event reports and are satisfied with the responses



Radiation Protection

Radiation protection programs implemented by licensees consistent with ALARA principles

CNSC staff rated the radiation protection SCA at all 5 operating facilities as satisfactory in 2021



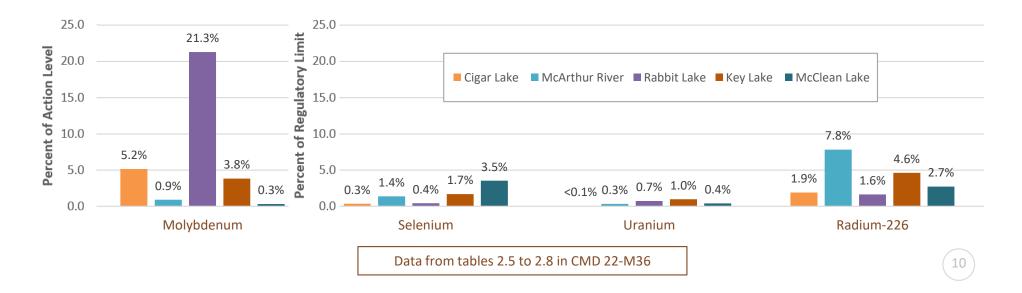
Data from tables 2.3 and 2.4 in CMD 22-M36



Environmental Protection

Environmental monitoring programs were effectively implemented

CNSC staff rated the environmental protection SCA at all 5 operating facilities as satisfactory in 2021





Conventional Health and Safety

- Conventional health and safety programs were effectively implemented
- CNSC staff rated the conventional health and safety SCA at all 5 operating facilities as satisfactory in 2021

	Cigar Lake	McArthur River	Rabbit Lake	Key Lake	McClean Lake
Lost-time injuries	2	0	0	0	3
Severity rate	6.31	0	0	0	49.8
Frequency rate	0.37	0	0	0	0.9
Total recordable incident rate	2.97	0.70	1.04	1.33	5.6



CNSC Staff Assessment

- All SCA ratings satisfactory
- Verified through compliance activities
 - Activities still performed remotely where possible due to COVID-19
 - 1 inspection performed on site for facilities covered by this ROR

CNSC staff confirmed licensees operated safely in 2021





Independent Environmental Monitoring Program (IEMP)

- Builds trust with Indigenous Nations and Communities and the public via an independent, technical and accessible environmental sampling program
- Supports ongoing compliance verification activities
- In 2021, samples collected in publicly accessible areas near the Key Lake and McArthur River operations
- In consultation with traditional land users, samples included:
 - Water
 - Labrador tea, wild blueberries
 - Fish and moose meat (moose meat provided by English River First Nation)



There were no IEMP results of concern

Results provided at www.nuclearsafety.gc.ca/IEMP



Indigenous Engagement Activities

Over 65 engagement activities and meetings took place in 2021.

- Topics included, but were not limited to:
 - Licence applications and amendments
 - Environmental assessments
 - Independent environmental monitoring program
 - Participant funding program opportunities
- September 15, 2022, engagement session, discussing Key Lake Operation. Source: CNSC

Key Lake Operation - Mill

- Engagement culminated in a 2021 ROR meeting held on September 15, 2022 in Saskatoon:
 - Sites covered by 2021 UMM ROR with information on some future and historic projects
 - Presented hybrid with opportunities for all participants to ask questions throughout
 - Provided dashboard of 2021 regulatory information and activities



Interventions Key Themes

Information on spills and incidents need to be communicated in a more comprehensible way

Recommend future ROR engagement sessions allow sufficient time for discussion in a 2-day meeting

Concerns about increasing contaminants in treated effluent releases

Recommend clarification on the effectiveness of virtual inspections versus in-person inspections



2022 Inspector's Order

- October 16-21, 2022 Cigar Lake inspection identified that waste rock Stockpile "C" was over approved volume
- CNSC inspector's order issued October 28, 2022, and available on CNSC's website
- Cameco did not exercise their right to an opportunity to be heard
- Order confirmed as written by Designated Officer on November 23, 2022
- Cameco's submissions are being analyzed by CNSC staff
- Environment and persons remain protected



Waste Stockpile "C" Source: Saskatchewan Ministry of Environment





Conclusions

CNSC staff confirm that all operational mines and mills in 2021 had:

- Satisfactory performance
- Comprehensive radiation protection programs that adequately control radiation exposures, keeping doses ALARA
- Comprehensive environmental protection programs to protect the environment
- Comprehensive health and safety programs to protect workers



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ANNEX I – ACTION LEVELS & REGULATORY LIMITS





Regulatory Limits and Action Levels

