

Point Lepreau Nuclear Generating Station PO Box 600, Lepreau, NB E5J 2S6

TU 06374

May 23, 2023

Ms. Dana Beaton, Director General Regulatory Policy Directorate Canadian Nuclear Safety Commission 280 Slater Street P.O. Box 1046, Station B Ottawa, Ontario K1P 5S9

Dear Ms. Beaton:

Subject: NB Power Comments on Draft REGDOC 1.2.3 – Licence Application Guide: Licence to Prepare Site for a Deep Geological Repository (DGR)

The purpose of this letter is to provide NB Power's comments on draft REGDOC 1.2.3 – Licence Application Guide: Licence to Prepare Site for a Deep Geological Repository (DGR) (Reference 1).

NB Power's Point Lepreau Nuclear Generating Station (PLNGS) has collaborated with industry to review the proposed regulatory document in detail. Comments are being provided (Attachment 1) recommending changes for improving the regulatory document.

NB Power appreciates the opportunity to provide comments on this regulatory document and is prepared to clarify our comments and concerns. If you require additional information, please contact Brian Thorne at 506-659-6264 or brian.org

Sincerely,

Momens For

Brett Plummer Vice President Nuclear and Chief Nuclear Officer

BP/BT

 cc. Lee Casterton, Anu Bulkan, Solly Karivelil, Isabelle Gingras, Tiffany Dunbar, Ryan Haszko, Michael Nicholas, Beth McConnell (CNSC - Ottawa) <u>consultation@cnsc-ccsn.gc.ca</u> <u>cnsc.licensee-titulaires.ccsn@canada.ca</u> <u>forms-formulaires@cnsc-ccsn.gc.ca</u> CNSC Site Office Brett Plummer, Amanda Gardner, Alex Bardsley, Nick Reicker, Brian Thorne, Scott Demmons, Jason Nouwens, Kathleen Duguay (NBP)

Reference:

1. Draft REGDOC 1.2.3 – Licence Application Guide: Licence to Prepare Site for a Deep Geological Repository (DGR), February 2023.

Attachment:

1. NB Power Comments on Draft REGDOC 1.2.3 – Licence Application Guide: Licence to Prepare Site for a Deep Geological Repository (DGR)

| # | Section | Industry Issue | Suggested Change | MAJOR or | Impact on Industry |
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| | | | | Clarification | |
| 0. | Overview | Industry appreciates the opportunity to comment on this dra welcome the opportunity to review future drafts as well as to publication. | | | |
| | | During a collective review of this initial version, subject matter Brunswick Power, and Canadian Nuclear Laboratories identif | | - | |
| | | This document lacks consistency with CSA N292.7. Since The figure provided in Section 2 is an example The document references many CSA standards and other Throughout the document, there appear to be required are more onerous or wouldn't be expected for a DGR LAG | e of many of these inconsistencies. REGDOCs that are not in scope for a Licence to ents listed that come from the NPP Licence App | Prepare Site (LTP | S) for a DGR. |
| | | Specific examples are provided in the table below along with | other requests for clarification. | | |
| 1. | General | Most of the REGDOCs/CSAs referenced are not scoped for a DGR. | Consider developing separate codes/regulations or expanding on the scope to include a DGR. | MAJOR | Creates significant barriers to any organization considering undertaking a DGR. The risks, complexity, and costs of licencing a DRG should not be the same as an NPP. |
| 2. | General | Technical scope for a DGR appears to have been copied almost entirely from REGDOC-1.1.3 Licence Application Guide: Licence to operate a Nuclear Power Plant. | Consider the technical scope in relation to a DGR. Similar comments have been made about SMR regulations being "too stringent" for the intent of preparing for a DGR. | MAJOR | Creates significant barriers to any organization considering undertaking a DGR. The risks, complexity, and costs of licensing a DRG should not be the same as an NPP. |
| 3. | General | Several sections request nuclear-specific information (e.g., sources) without a clear path on how/where to obtain information. | Consult with NRCan on the division of responsibilities and possible contacts to support the application. | Clarification | |
| 4. | General | Draft timelines should be developed within the REGDOC 1.2 series. It is understood that such a project and licencing phase(s) will take considerable time, but these timelines should be recognized in the regulatory framework for use in the business case development and to raise awareness for an organization preparing to make an application. | Consider consulting with NRCan and the mining industry. | Clarification | |

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| 5. | General | Reference to CSA N292.7 does not include the year of publication, while other referenced CSA standards include. | Change " CSA N292.7 " to " <u>CSA N292.7-22</u> " throughout the document including the appendices. | Clarification | |
| 6. | Section 1.1., 2 nd paragraph | The DGR facility is defined as a "facility where radioactive waste is placed in a deep, stable, geological formation (usually several hundred metres or more below the surface). The facility is engineered to isolate and contain radioactive waste to provide the long-term isolation of nuclear substances from the biosphere. The facility is engineered to isolate and contain radioactive waste to provide the long-term isolation of nuclear substances from the biosphere." This definition reflects that included in the CNSC REGDOC- 3.6, Glossary, and is also consistent with the definition of a <i>geological disposal facility</i> in the IAEA Nuclear Safety and Security Glossary (2022 Interim Edition), "A facility for radioactive waste disposal located underground (usually several hundred metres or more below the surface) in a stable geological formation to provide long term isolation of radionuclides from the biosphere." However, this definition does not include the surface facilities associated with the underground repository, such as the Used Fuel Packaging Plant, and it is unclear whether the draft REGDOC-1.2.3 would apply to these facilities. | The definition of the DGR facility needs to be clarified to explicitly include the surface facilities associated with the underground repository, and REGDOC 1.2.2 (once approved) should be referenced. | MAJOR | Ambiguous requirements will increase the regulatory uncertainty for the proponents and operators of a DGR. |
| 7. | Section 1.1, 3 rd paragraph | This document tends to align the start of the post-closure period with the completion of decommissioning and abandonment of the site. This may be logical from a licensing point of view, but unreasonable from a technical and management point of view. Once the DGR is closed by sealing the shafts or ramps, the multiple barriers system | Suggested revision: "the pre-closure period encompasses site preparation, construction, operation and closure <u>of the underground repository</u> - <u>including the decommissioning of ancillary</u> facilities" | Clarification | |
| | | has been fully completed and the waste has been fully isolated. From this moment, the post-closure safety case | facilities " | | |

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| | | takes effect, and the post-closure monitoring would start. | | | |
| | | Decommissioning of surface facilities is an important | | | |
| | | licensing step but does not necessarily affect the post- | | | |
| | | closure safety or performance. Also, decommissioning of | | | |
| | | the surface facility does not necessarily happen together | | | |
| | | with the closure of the repository. It may be possible that | | | |
| | | some surface structures/facilities are kept for post-closure | | | |
| | | monitoring or institutional control purposes. Aligning the | | | |
| | | post-closure period with licencing stages is not consistent | | | |
| | | with CSA N292.7. | | | |
| 8. | Section 1.1, 4 th | The document requires information in an application: | Suggest revising the bullet point as follows: | Clarification | |
| | paragraph, 4 th bullet | demonstrates that the site is suitable for a facility's | | | |
| | points | full lifecycle. | "demonstrates that the site characteristics | | |
| | | This requirement may be difficult to meet because: | are is consistent with the post-closure safety | | |
| | | a. The word "suitable" is ambiguous and lacks | <u>case</u> suitable for a facility's full lifecycle ." | | |
| | | definition. | | | |
| | | b. It is not very clear if the DGR lifecycle in this | The above statement is consistent with the | | |
| | | document includes the post-closure period that | idea that suitability is answered by both site | | |
| | | lasts indefinitely. Assuming the lifecycle includes | characterization and safety case. | | |
| | | post-closure, it is difficult to fully prove the site will | | | |
| | | remain good for the full lifecycle due to the large | | | |
| | | uncertainties associated with the time frame. | | | |
| 9. | Section 1.1 and | Both Section 1.1 and the figure on Page 7 acknowledge the | Provide clarification of the licence type for | Clarification | |
| | figure on page 7 | DGR lifecycle and differentiation between pre-closure (i.e., | the post-closure period. | - | |
| | | site preparation, construction, operation, and closure) from | | | |
| | | the post-closure period. Under the Nuclear Safety Control | | | |
| | | Act, what licence application will move a DGR from closure | | | |
| | | or into the post-closure period? | | | |
| 10. | Section 1.2 | Is the intention of the document to provide guidance for | Provide clarification in the scope. | Clarification | |
| | | geologic disposal facilities shallower than several hundred | | - | |
| | | meters below the surface? Shallower geologic disposal is | | | |
| | | not in the list of exclusions in Section 1.2. | | | |
| 11. | Section 1.3 | Since the Impact Assessment Act (IAA) clearly links to the | Consider an IAA reference as well as | MAJOR | Significant costs and complexities |
| | | NSCA and CNSC – should the IAA not be cited in the | Environmental Assessment regulations and | | associated with the broad range of |
| | | relevant legislation? | provincial environmental requirements. | | - |

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| | | | Furthermore, consider a clear distinction in CNSC oversight regarding nuclear and environmental aspects and those under other federal/provincial jurisdictions. | | regulations cited in this draft are likely to deter potential applicants. |
| 12. | Section 1.3 | The list is confusing; for an example with regards to Class I Nuclear Facilities Regulations: <i>section 3</i> <i>subsections 14(1), (2)</i> <i>paragraphs 3(a), (b), (d), (d.1), (e), (f), (g), (h), (i)</i> and (k), 4(a), (b), (c), (d) and (e) Does bullet #3 "paragraphs 3(a), (b)" refer to the same section 3 listed in bullet #1? However, a few items have been removed from the list, like. 3(c). | Simplify the list and consider adding an Appendix, similar to draft RegDoc-1.2.2, October 2021. | Clarification | |
| 13. | Section 2, Figure - Title: Pre-closure and post-closure licensing stages and lifecycle activities for a deep geological repository | The first row in the figure shows the "Lifecycle" of a DGR and includes "post institutional control" as a lifecycle stage. The definition of lifecycle in the latest version of REGDOC- 3.6 is "The various stages of a nuclear facility's lifespan, including site selection, site preparation, construction, operation, decommissioning and abandonment." This definition does not include the post institutional control which is post abandonment. The figure seems inconsistent with the REGDOC-3.6 definition. | Revise the figure to shade the "Post institutional control" in a different way and add a note to indicate that post institutional control is not considered a lifecycle stage per nuclear regulations. Alternatively, keep the figure as is and add a revised definition of lifecycle stages to the document, which includes the post institutional control as a lifecycle stage. | Clarification | |
| 14. | Section 2, Figure - Title: Pre-closure and post-closure licensing stages and lifecycle activities for a deep geological repository | The figure indicates the post-closure period starts after the site is released from CNSC control. However, Figure A.1 in CSA N292.7 indicates that post-closure period starts when the DGR is closed, while a post-closure monitoring period is still under the CNSC control. There are two questions: What is the starting point of the post-closure period (closure of the DGR or release from CNSC control)? Does the CNSC control cover the post-closure monitoring activities and these activities are | Seeking clarity for the starting point of the post-closure period and licensing coverage on post-closure monitoring in the document. | Clarification | |

Attachment 1 – NB Power Comments on Draft REGDOC 1.2.3 – Licence Application Guide: Licence to Prepare Site for a Deep

Geological Repository (DGR)

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| | | considered part of "Closure" and "License to decommission"? | | | |
| 15. | Section 2, Figure - Title: Pre-closure and post-closure licensing stages and lifecycle activities for a deep geological repository | The figure shows "indigenous and public engagement", "site evaluation", "site characterization" and "post-closure safety case" all extend beyond the release of CNSC control. CSA N292.7 Figure A.1 shows these activities all stop before release from CNSC control. In addition, the last bullet in Section 1.1 requires the proponent "demonstrates that the site is suitable for a facility's full lifecycle." It is unclear what activities would be required to be maintained during institutional controls with respect to site evaluation, site characterization and post-closure safety case, and under what jurisdiction. | Seeking clarity on the inconsistency with the CSA N292.7. If these activities are required to continue beyond release from CNSC control, please answer the following questions: Who is responsible to regulate these activities? How should the outcomes from these activities be used and for what purpose? Suggest either deleting 'site evaluation', 'site characterization' and 'post-closure safety case' activities from the graphic or adding clarification text with respect to the regulatory requirements for these activities after the closure of the DGR facility. | Clarification | |
| 16. | Section 2, Figure - Title: Pre-closure and post-closure licensing stages and lifecycle activities for a deep geological repository | The figure shows "site characterization" in parallel with "site evaluation". CSA N292.7 Section 6 indicates that site characterization is a subset of site evaluation, which is inconsistent. | Seeking clarity on the inconsistency with the CSA N292.7 on-site evaluation and site characterization. | Clarification | |
| 17. | Section 2, Figure - Title: Pre-closure and post-closure licensing stages and lifecycle activities for a deep geological repository | The design phase is shown to be completed at the end of construction; what happens with the construction that continues in parallel with the Operation phase? Also, the design will continue in Operations to support improvements and optimization. | Continue the Design Line through Operations. | Clarification | |

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| 18. | Section 2.2. | It would be beneficial, if it is not in the referenced documents, to have a Canadian equivalent to Table 1 in IAEA SSG-14 to be included to explain this concept. | Clearly reference or, if not available, provide a Canadian equivalent to Table 1 in IAEA SSG-14. | Clarification | |
| 19. | Section 3 | There are SCAs which may not be applicable during the licence to prepare the site so some of these sections are misleading (e.g., <i>Radiation protection</i>), especially since the licence to prepare the site does not permit the licensee to process, handle or store radioactive substances (as mentioned elsewhere in the document). | Review the citing of all 14 SCAs in this REGDOC to identify only those applicable for the LTPS. | MAJOR | Unnecessary references to SCAs that are not relevant to the LTPS increase administrative burden. |
| 20. | Section 3.1, bullets on Management System – a work schedule | Last bullet "A work schedule" appears to be incomplete or unclear on what it means – the licensing package will include a work schedule, however, it's not clear how it should be a requirement of the management system. | Add more text to clarify this bullet. | Clarification | |
| 21. | Section 3.1, bullets on Management System – policy for the use of contractor's resources | The prescriptive nature of requiring a policy for the use of contractors isn't clear – suggest changing this requirement to any type of control. | policy for the use of <u>management of</u> contractors' resources to supplement in- house capability. | Clarification | |
| 22. | Section 3.1, bullets on Management System – procedures to control the effectiveness | The following bullet: procedures to control the effectiveness of assessments and engineering activities performed in the different stages of the site evaluation process, including records of all work carried out during site evaluation and characterization, which must include a description of the measures for preservation of the records Concern is around the mixing of activities. The required expectation from this bullet is not clear. | Recommend reviewing the bullet and providing clarity around the required expectation. | Clarification | |
| 23. | Section 3.1, bullets on contractual obligation | The following statement and bullets are premature for a Licence to Prepare Site application: | Remove these bullets. At this point this is premature. A company would not be procuring components for the nuclear facilities until the construction phase. | MAJOR | Additional administrative burden on the applicant without any benefit to nuclear safety. |

Geological Repository (DGR) Section Industry Issue **Suggested Change** MAJOR or Impact on Industry Clarification The applicant must also ensure, as a contractual obligation, that: • the applicant and the CNSC will have right of access to the premises of any supplier carrying activities specified in the application. • all sub-suppliers will provide right of access to their premises by those clients who are suppliers. all sub-suppliers will provide right of access Clarification 24. Section 3.1, The wording for sub-suppliers is unclear – should the CNSC to their premises by those clients who are bullets on choose to keep the two bullets in the REGDOC (see contractual comment above), suggest similar language as the first suppliers obligation bullet. the applicant and the CNSC will have right of access to the premises of any sub-supplier carrying activities specified in the licence Section 3.1, last It is unclear the purpose of this statement - Implies the Delete unnecessary/redundant Clarification 25. licensees do not use qualified staff. Contradictory if paragraph requirements. required to comply with N286-12 which requires the workers to be qualified. "...including worker training, is addressed under the Delete unnecessary/redundant 26. Section 3.2 Clarification management system SCA." requirements from s. 3.1. This supports the redundancy identified in s. 3.1 comment. 27. Section 3.3 Some of the content described at Operating performance Move the second bulleted list to Clarification may be more applicable under other SCAs (e.g., the second Conventional Health and Safety section. bulleted list are risk or hazards that would be covered under a safety analysis or conventional health and safety). Clarification Section 3.3, The text states: "Where risks to the health and safety of Suggest revising the text to: 28. Where risks to the health and safety of either workers or the public could be higher than for a last paragraph conventional project, the applicant should provide credible either workers or the public could be higher research supporting the potential consequences and than for a conventional projectare identified, the applicant should provide measures to mitigate the risks. For example, if site

credible research supporting the potential

investigation has indicated the presence of a sub-surface

hazardous substance, the applicant should provide an

<u>Attachment 1 – NB Power Comments on Draft REGDOC 1.2.3 – Licence Application Guide: Licence to Prepare Site for a Deep</u>

| | | <u>Occiogical Repository (DOR)</u> | | | | |
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| | | investigation of the effects of that substance, if unearthed, on the health and safety of workers and the local public." | consequences and measures to mitigate the risks. | | | |
| | | It is unclear how the applicant should establish if the "risks to health and safety could be higher than for a conventional project". | | | | |
| 29. | Section 3.4, 1 st bullet | The current wording in Section 3.4 might be interpreted as requiring a full analysis at the site preparation stage, where some of the data might not be fully available until the Licence to Operate licence application stage. A graded approach should be applied. | When referring to the safety analysis for later licensing stages of a DGR, under different CNSC licences, the text in this section should be revised and " <u>preliminary</u> " <u>should be used. For example, preliminary</u> safety analysis of operational and post- closure activities. | MAJOR | Ambiguous requirements will increase the regulatory uncertainty for the proponents and operators of a DGR. | |
| 30. | Section 3.4 | Under Safety Analysis, the pre-closure portion is referred to as an "analysis" whereas the post-closure portion is referred to as an "assessment". Furthermore, Section 3.6 refers to a "pre- [and post-] closure safety assessment. REGDOC-2.11.1 (Waste Management, Volume III) states that "Safety assessment is often used interchangeably with safety analysis". If these terms can be used interchangeably with no difference in meaning, suggest defining safety analysis and stating that the terms "analysis" and "assessment" can be used interchangeably. | Add the definition of a safety analysis in the REGDOC with a note that " <u>Safety</u> <u>assessment is often used interchangeably</u> <u>with safety analysis."</u> | Clarification | | |
| 31. | Section 3.4, 4 th bullet | The fourth bullet says the applicant must include: <i>"• considerations for both design-basis events and beyond-design-basis events for the operational phase, with a focus on the concept of potential cliff-edge effects when analyzing external hazards, where a small change of conditions may lead to a catastrophic increase in the severity of consequences."</i> The <u>operational phase</u> covers activities and timescales that go beyond the activities under the licence to prepare site. Is this interpreted as the portion of the operational phase | It is suggested that the fourth bullet is deleted: "considerations for both design-basis events and beyond-design-basis events for the operational phase, with a focus on the concept of potential cliff-edge effects when analyzing external hazards, where a small change of conditions may lead to a catastrophic increase in the severity of consequences." | MAJOR | Ambiguous requirements will increase the regulatory uncertainty for the proponents and operators of a DGR. | |

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| | | that is only relevant to the activities required for preparation of site? | | | |
| 32. | Section 3.4 | The last bullet (<i>a post-closure safety assessment that is in accordance with REGDOC-2.11.1 Volume III</i>) should include the adjective "preliminary" to align with IAEA SSG 14. | Add "preliminary" in front of "post-closure". | Clarification | |
| 33. | Section 3.4, last paragraph | "The applicant should have a credible program for managing safety issues, which includes a research and development program." What defines an R&D Program and why does it need to be | Seeking clarity on the expectations for an R&D program and the rationale for why it is a requirement. | Clarification | |
| 34. | Section 3.5, last | a requirement? This sentence: | Either delete this sentence or add clarity to | MAJOR | Ambiguous requirements will increase the |
| | line | For structure design and system design at the site preparation stage for a DGR facility, the applicant should propose design descriptions and guides. doesn't appear to be adding any additional detail or guidance to the REGDOC. Clarity on deliverables or an explanation on what this sentence is adding to the requirements already provided in this section is requested. | the requirement (such as "conceptual of preliminary). | | regulatory uncertainty for the proponents and operators of a DGR. |
| 35. | Section 3.6 | It is unclear how SSCs as defined in REGDOC-2.6.3 apply to the features of the repository essential to the performance of the repository through the post-closure period, including the geosphere, the engineered sealing materials, the used fuel container, and the used fuel. Aging management plans for these components through the operations period would not be meaningful. Aging management should ensure that these SSCs are as described at the start of the post-closure period. | Suggest revised text: The application must include a preliminary aging management plan, listing all <u>identifying key</u> SSCs important to safety <u>during the lifecycle of the facility, and in</u> <u>particular addressing any such SSCs that are</u> <u>part of the LTPS</u> . to provide for the timely <u>detection and mitigation of the aging effects</u> <u>to ensure integrity and functional capacity of</u> <u>the SSCs throughout the pre-closure period</u> <u>and ensure that they are described in the</u> <u>pre- and post-closure safety assessments</u> (see Safety Analysis). For more information, <u>see Appendix A of REGDOC-2.6.2, Aging</u> <u>Management [9].</u> | Clarification | |

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| 36. | Section 3.7 | The licensed activity in the site preparation stage does not include any radioactive waste. Is the radiation protection (RP) program meant for radiation sources used for construction/inspection (e.g., X-ray examination)? | Seeking clarity on the scope for the RP program in the site preparation stage. | Clarification | |
| 37. | Section 3.8 | Conventional Health & Safety. | Seeking clarity on whether this section is just for the site preparation phase. If so, this should be clearly stated. | Clarification | |
| 38. | Section 3.9 | Defining baseline characteristics would have been part of the site selection process while continuing to collect baseline data could be activities part of the site preparation activities. | For site preparation, environmental monitoring consists of defining baseline characteristics and of monitoring the effects of site preparation activities on the environment. | Clarification | |
| 39. | Section 3.10 | Requirements for an Emergency Preparedness (EP) Program seem premature for this phase. | Seeking clarity on the scope for EP program in the site preparation phase. | Clarification | |
| 40. | Section 3.10 | The requirement to demonstrate a fire response capability as described in CSA N393:22 is for facilities that handle radioactive substances. During the site preparation phase, there will not be any radioactive substances, therefore, this CSA standard shouldn't apply at this time. | Remove reference to CSA N393:22, but keep the requirement to describe the fire protection program. | Clarification | |
| 41. | Section 3.12 | CSA N290.7 – scope should be reviewed for appropriateness and applicability to the DGR site preparation phase. | Review the scope of CSA N290.7 for applicability to DGR at the site preparation phase. | Clarification | |
| 42. | Section 3.15 | REGDOC 3.1.2 – scope should be reviewed for appropriateness and applicability to the DGR site preparation phase. | Review the scope of REGDOC 3.1.2 for applicability to DGR at the site preparation phase. | Clarification | |
| 43. | Section 4.12 | Considering the duration of the DGR, it would seem much too early to request cost projections. | Seeking clarity on the scope of tentative cost projections appropriate for this stage of development. Lessen rework for later changes to financial projections or misunderstandings leading up to cost estimates. | Clarification | |
| 44. | Appendix A | Since the LTPS does not permit the licensee to process, handle or store radioactive substances (as mentioned elsewhere in the document) a number of the CSA standards | Review the list of standards in the Appendix to identify which are applicable for the LTPS. | Clarification | |

Attachment 1 – NB Power Comments on Draft REGDOC 1.2.3 – Licence Application Guide: Licence to Prepare Site for a Deep

Geological Repository (DGR)

| # | Section | Industry Issue | Suggested Change | MAJOR or | Impact on Industry |
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| | | · · | | Clarification | . , |
| | | listed will not be applicable at the site preparation phase. | | | |
| | | While the licensee needs to demonstrate a management | | | |
| | | system framework meets the regulatory requirements for | | | |
| | | any specific safety and control area has been addressed, | | | |
| | | some of those functions are not required until the applicant | | | |
| | | is licenced to possess, handle, or store radioactive | | | |
| | | substances onsite. | | | |
| 45. | Appendix A | This appendix mentions CSA N292.6 as a reference | Seeking clarity on whether N292.6 is still | Clarification | |
| | | document. N292.6 is being withdrawn because of the | applicable. | | |
| | | restructuring of the N292 series. The N292 TC recently | | | |
| | | voted on this matter. | | | |
| 46. | Appendix A, | CSA N292.7-22 should be included as a reference | Add CSA N292.7-22 as a reference | Clarification | |
| | Physical design, Site | document. Section 2.2 points to this standard, so the | document. | | |
| | characterization | appendix should be consistent. | | | |
| 47. | Appendix A, | CSA N292.2-13 was listed as a reference document. It was | Remove reference to N292.2. | Clarification | |
| | Physical design, | the consensus that N292.2 (the dry storage standard) | | | |
| | Facility design | would not apply to the DGR. The DGR programs would not | | | |
| | | interface with the Dry Storage Container (DSC) as the | | | |
| | | responsibility of opening the DSCs and transferring the fuel | | | |
| | | to the transportation package falls on the utilities. | | | |
| 48. | Appendix A, | CSA N285.0 is listed as a reference document. N285 is | Remove reference to CSA N285 and replace | MAJOR | Following N285 to design the SCCs in a |
| | Physical design, | specific for NPP and reactor design. It is not appropriate for | with REGDOC-1.2.2. | | Class IB facility may create a significant |
| | Structure, system | the design of Class IB facilities, even with the graded | | | burden without increasing safety. For |
| | and component | approach. REGDOC 1.2.2 (Draft) would be the appropriate | | | example, N285 is structured around the |
| | design | guide. | | | classified process system, e.g., Class 1, 2, 3 |
| | | | | | and 6. Per the definitions for these classes, |
| | | CSA N285 is specific for the pressure boundary of NPPs. For | | | most (if not all) process systems in a used |
| | | reactors in the NPPs, the pressure boundary is the major | | | fuel packaging plant would be Class 6. |
| | | system (the entire reactor is a pressurized system), and | | | Design of Class 6 is referred to as CSA B51 |
| | | N285 would address the primary structural safety needs. In | | | which goes to ASME B31. It would be more |
| | | a nuclear substance processing facility, e.g., the used fuel | | | efficient and logical to identify the design |
| | | packaging plant. Pressure boundary is not the key. The key | | | guide commensurate with the need and |
| | | aspect of safety is on handling and manipulation of nuclear | | | refer to the appropriate standards without |
| | | substances, radiation protection and containment, which is | | | cycling around. REGDOC-1.2.2 provides a |
| | | not addressed by N285. | | | flexible and more reasonable framework |

Suggested Change MAJOR or Section Industry Issue Impact on Industry # Clarification for the physical design of the facilities. It is better than pointing to N285 (which can be misleading). Appendix A, Some ASME codes are listed as reference documents. Remove all ASME codes from the reference Clarification 49. Physical design, These codes are at the technical detail level and only list. Structure, system address some specific applications (i.e., pressure boundary and component construction). Why aren't other technical codes and design standards listed here, such as those governing automation, electric/electronic equipment, lifting equipment, control system, human interface, etc? The calling of references here seems random and lacks focus. It is better to limit the references to high-level requirements and guidance (i.e., REGDOCs, CSA standards) and not to include those at the detail level. Appendix A, Waste Reference list does not include CSA N292.7-22. Clause 14 of Add CSA N292.7-22 as a reference Clarification 50. Management, N292.7 provides guidance on repository closure. document. Decommissioning Plans 64. Appendix A, Unclear whether this list is guidance or requirements? Revise text to confirm the list is for guidance Clarification Table 1 purposes.