

May 5, 2017

NK21-CORR-00531-13567 NK29-CORR-00531-14193 NK37-CORR-00531-02772

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

Dear Mr. Torrie:

Bruce Power comments on REGDOC-2.13.1 Safeguards and Nuclear Material Accountancy

The purpose of this letter is to comment on this draft Regulatory Document, which will supersede RD-336 Accounting and Reporting of Nuclear Material and GD-336, Guidance for Accounting and Reporting of Nuclear Material.

Bruce Power appreciates the CNSC's efforts to seek stakeholder input and participated in a collaborative review of this draft along with our industry colleagues at Ontario Power Generation, New Brunswick Power, Canadian Nuclear Laboratories, SNC-Lavalin and Cameco Corporation.

That collective evaluation generated the series of comments and requests for clarification detailed in Appendix A, which is attached to this letter. It also highlighted the need for a workshop between subject matter experts from the CNSC and its licensees to clarify expectations and guidance in several areas of this current draft, including:

- Obligations regarding the installation and operation of IAEA equipment on a licensee's site.
- Time commitments associated with unannounced IAEA inspections.
- Implementation issues and the need for flexibility with regard to the format of inventory change documents.
- Obligations to provide current site drawings and building descriptions in cases where multiple licensees share a site.



If you require further information or have any questions regarding this submission, please contact Steve Cannon, Senior Strategist, Regulatory Affairs, at (519) 361-6559 or steve.cannon@brucepower.com.

Yours truly,

Frank Saunders

Vice President Nuclear Oversight and Regulatory Affairs

Bruce Power

cc: CNSC Bruce Site Office (Letter only)

K. Lafrenière, CNSC Ottawa K. Owen-Whitred, CNSC Ottawa

Attach.

Attachment A

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Scope	1.2	Scope	Preface	Document/ Excerpt of Section
following materials are not considered	Clarity is sought for the statement: "The	Although uranium ores are not nuclear material and mines and mills are not within the IAEA definition of "facilities," the IAEA considers safeguards to include nuclear material and activities (IAEA Factsheet: IAEA Safeguards Overview), including complementary access. If mines and mills are required to have a safeguard program to address IAEA access under section 4 of the draft REGDOC, the Scope section should make this clear. If the intention is to exclude mines and mills from the requirements in section 4, then it should be revised to clearly express that intent.	The following statement in the preface gives the impression that guidance is a requirement: "Guidance contained in this document exists to inform the applicant, to elaborate further on requirements or to provide direction to licensees and applicants on how to meet requirements. It also provides more information about how CNSC staff evaluates specific problems or data during their review of licence applications. Licensees are expected to review and consider guidance; should they choose not to follow it, they should explain how their chosen alternate approach meets regulatory requirements."	Industry Issue
materials are not considered nuclear	Suggest amending to say: "The following	If the intention is to require a safeguard program to address IAEA access at mines and mills then the second paragraph of 1.2 Scope on page 1 should read: "The term safeguards" refers tonuclear material and activities initiated by the IAEA, administered in Canada" The first paragraph on page 2 should be revised to: "The following materials are not subject to inspection, verification and detailed nuclear material accountancy in Canada:"	"Guidance contained in this document exists to inform the applicant, to elaborate further on requirements or to provide direction to licensees and applicants on how to meet requirements. It also provides more information about how CNSC staff evaluates specific problems or data during their review of licence applications. Licensees are expected to review and consider guidance; should they choose not to follow it, they should explain how their chosen alternate approach meets regulatory requirements."	Suggested Change (if applicable)
Clarification	Request for	Request for Clarification	MAJOR	Major Comment/ Request for Clarification 1
			Some CNSC staff interpret this statement to mean that guidance within the REGDOC is a requirement. This is not true. Guidance is not a requirement. This has major impacts on licensees in the time spent in discussion with CNSC staff as to why guidance is not followed in certain cases.	Impact on Industry, if major comment

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6.1 Inspections	6.1 Inspections	6 IAEA Access	5 Safeguards Equipment and Seals	5 Safeguards Equipment and Seals	5 Safeguards Equipment and Seals	Document/ Excerpt of Section
Clarity is sought for the line, "For inspections where samples of nuclear material are taken, at the CNSC's request" Does this mean licensees do not send samples taken to the IAEA without a request from the CNSC? How does that affect current sampling protocols?	Not all inspection types require an LII. For instance, an Unannounced Inspection typically has no requirement for an LII.	The requirement to "provide the required access" is unclear. Is the sentence just supposed to mean that licensees need to provide access to IAEA inspectors to their site?	Does this indicate the licensee is required to pay for operation/installation of IAEA equipment?	Please clarify what is meant by "all relevant persons".	Cases of damaged safeguards seals have not been communicated to Site Security in the past. What is the expected follow-up from Site Security?	Industry Issue
Clarification is required on the official process for sampling requests.	Suggest rephrasing to state: "During an inspection, when requested by the IAEA or CNSC, licensees shall provide an LII covering material subject to the inspection."	Remove "required" or provide clarification of why it was included.	Suggest clearly defining this. At who's cost? To what end? Do we install whatever they want? Industry suggests a <i>workshop</i> on this REGDOC should include a discussion of this issue.	Suggest changing "all relevant persons" to "all site staff."	Suggest rephrasing to inform Site Security for cases of damage to, theft, or sabotage of safeguards equipment only.	Suggested Change (if applicable)
Request for Clarification	Request for Clarification	Request for Clarification	MAJOR	Request for Clarification	Request for Clarification	Major Comment/ Request for Clarification 1
			Without clarity for scope and costing arrangements, this could have a major economic impact on licensees.			Impact on Industry, if major comment

	Document/			Major Comment/	
#	Excerpt of	industry Issue	Suggested Change (if applicable)	Request for	Impact on Industry, if major comment
	000000			Clarification	
31.	8.1.1	Electronic reporting through the NMAR e-		Request for	
	Information	business system will require initial setup and		Clarification	
	security and	resources such as Microsoft Excel version		•	
	electronic	changes. Licensees need to ensure they have			
	reporting	browser compatibility with the NMAR			
		website and confidence it will not change or			
		changes will be communicated ahead of time.			
32.	8.1.1	The guidance refers to CSA N290.7, Cyber	CSA N290.7 is not implemented nor	Request for	
	Guidance	Security for Nuclear Power Plants.	referenced in current LCHs of NPPs. It is not	Clarification	
			expected to be for several years. Recommend		
3			Tentoving reference until later version.		
33	8.1.2	The document says the shipper shall provide	Industry needs the flexibility to change ICDs	Request for	100000
	Inventory change	a copy of the inventory change document to	from .xml to .xls and vice versa. This could be	Clarification	
	document	the receiver, but does not specify the format	a topic of discussion during the proposed	,	
		of the ICD. Licensees may need the flexibility	REGDOC workshop.		
		to change ICDs from .xml to .xls and vice			
		versa.			
34.	8.1.2	The document says, "The correcting ICD will	Suggest specifying which label this date is	Request for	
	Inventory change	be identical to the original, save for the	referring to.	Clarification	
	document	date" Please confirm whether this is the			
		"Date" in field/box/label 1004 on the ICD.			
35.	8.1.2	The draft indicates that submitted ICDs to be	This section needs some more guidance;	Request for	
	inventory change	corrected for Date, Batch Name, MBA, IC	there have been many questions in the past	Clarification	
	document	Type, Safeguards Status and Element Code	about how corrections are shown on the ICDs		
		must now be done via the 'Delete ICD'	and ledgers. Please include details for		
		process.	corrections for Change of Form ICDs.		
36.	8.1.2	The document says, "An inventory change is	Suggest expanding the definition to cover	Request for	
	Inventory change	any increase or decrease in a licensee's	element separation if it does apply.	Clarification	
	document	nuclear material inventory." It is not clear			
		how to handle bundle separation.			

of material. Requirements in this section do not follow standard project schedule. Who determines the "relevance of safeguard"? How? Regarding point #2 and the submission of current drawings of the site and a general description of each building on the site: It is unclear how this applies in the case where multiple licensees share a site. Does each licensee provide a drawing of all buildings on site? Or, does each only include buildings they are operating? Regarding point #6, Information regarding Suggest adding a lin form	37. 38. 39.	Document/ Excerpt of Section 8.1.5 Physical-key measurement point inventory summary 8.1.6 Reconciliation statement 8.2 Design information	Reference to Table D-1 and the specific due date should be mentioned. (Due dates are mentioned for other reports in the other sections) The second paragraph should make reference to Table D-1 for the due date. Same comment for section 8.1.7, Obligated material inventory summary. Preliminary design is not available at the time of the decision to construct. The decision to construct happens before the start of preliminary design. Final drawings are not available 270 days before the receipt	Suggested Che Please include due Please include due Suggest allowing fo for Construction" didrawings" with the "Final" drawings wi available.	nange (if applicable) dates for Table D-1. r submission of "Approved rawings instead of "Final" understanding that Il be submitted when
Section 8.3 (4) Who determines the "relevance of Operational information 8.4 Information Regarding point #2 and the submission of current drawings of the site and a general description of each building on the site: It is unclear how this applies in the case where multiple licensees share a site. Does each licensee provide a drawing of all buildings on site? Or, does each only include buildings they are operating? 8.4 Regarding point #6, Information regarding the CNSC will information for this item section for the submission of the site and a general to include buildings they operated to include buildings on site? Or, does each only include buildings on site? Or, does each only include buildings they are operating? Suggest adding a lin the case where section for this item section for this item section for this item section for the submission of the site and a general to include buildings they operated to include buildings on site? Or, does each only include buildings on site?	39.99	8.2 Design information	Preliminary design is not available at the time of the decision to construct. The decision to construct happens before the start of preliminary design. Final drawings are not available 270 days before the receipt of material. Requirements in this section do not follow standard project schedule	Suggest allowing fo for Construction" didrawings" with the "Final" drawings wi available.	of "Approved ad of "Final" ig that id when
Information required by the Additional Protocol Information Regarding point #2 and the submission of current drawings of the site and a general description of each building on the site: It is unclear how this applies in the case where multiple licensees share a site. Does each licensee provide a drawing of all buildings on site? Or, does each only include buildings they are operating? 8.4 Regarding point #2 and the submission of to include buildings they operations of each buildings on site? Or, does each only include buildings they are operating? Suggest adding a lin the CNSC have a the CNSC will information regarding the CNSC will information.	40.	Section 8.3 (4) Operational information	Who determines the "relevance of safeguard"? How?	Please include criteria in the Guidance section for this item.	
8.4 Regarding point #6, Information regarding Information Group 1B material: Does the CNSC have a	41.	8.4 Information required by the Additional Protocol	Regarding point #2 and the submission of current drawings of the site and a general description of each building on the site: It is unclear how this applies in the case where multiple licensees share a site. Does each licensee provide a drawing of all buildings on site? Or, does each only include buildings they are operating?	Amend to say that licensees are only required to include buildings and descriptions of buildings they operate.	equired f
process to notify a licensee of whether the	42.	8.4 Information required by the	Regarding point #6, Information regarding Group 1B material: Does the CNSC have a process to notify a licensee of whether the	Suggest adding a line to the docume the CNSC will inform licensees of exmaterial being transited to them.	ent saying empted

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2516 00:	Table DE:	Table D4:		Line 370	Table D2	reports	accountancy	nuclear material	frequency for	Reporting	Table D1	Records	Retention of	9		Protocol	Additional	Section	Excerpt of	Document/
is to be applied.	T+ 10 50+ 0005 box; +bo 5000 100+000 000 000	Fuel – Assemblies Solid Waste - Hull	via GA from Canadian Non-MBA facilities?	Does this mean there is no need to receive	"Enter the code for the shipping MBA" –		group in preparity the ICDs and associated tuel information file.	a strain on the supporting Fuel & Physics	inventory change: This time requirement puts	reporting the next business day following the	Regarding ICD and the frequency of		on retention of records. In particular, ICDs.	Licensees would like to see more guidance	exemption under Article 36 or 37?	the licensee has never requested such an	licensee is in possession of such material, if		Industry Issue	
new code is to be used.	consistent with IAEA definitions	Please define "Assemblies" and "Hulls"		receiving material from non-MBA facilities.	Clarification is required for the process of						Suggest the CNSC provides more flexibility in		records.	Add additional guidance on retention of					Suggested Change (if applicable)	
Request for Clarification	Clarification	Request for		Clarification	Request for					Clarification	Request for		Clarification	Request for				Clarification 1	Request for	Major Comment/
																			Impact on Industry, if major comment	