

2017 January 31

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COMPLIANCE Regulatory Affairs 145-CNNO-17-0002-L

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

Dear Mr. Torrie:

Canadian Nuclear Laboratories Comments on Draft REGDOC-2.1.2: Safety Culture

The purpose of this letter is to provide CNSC staff with the comments from the Canadian Nuclear Laboratories (CNL) on the draft of the REGDOC -2.1.2, Safety Culture.

CNL agrees that the licensees need to develop and maintain a Nuclear Safety Policy that entails the overriding priority for a strong Nuclear Safety Culture within their organizations and supports the need to conduct self-assessments in order to evaluate the organizational behaviours related to the safety culture and to identify opportunities for improvement.

A brief outline of CNL's concerns is included below, as well as within the document attached (Attachment A), which includes greater detail and recommendations in support of developing Regulatory Document 2.1.2.

- It is unclear to CNL how requirements and guidance will be applied to non-nuclear power plants. This document states: "The requirements and guidance for safety culture assessments are intended for nuclear power plants" and is unclear on which requirements and guidance apply to different facilities. In other parts of the draft REGDOC, the wording suggests all facilities should develop processes to the same degree as the nuclear power plants. Some licensee types have no requirements for this document, only guidance. However, the preface suggests all licensees must follow guidance or justify why they do not. Section 1.2 then discusses how Sections 3 and 4 are intended only for nuclear power plants, yet all licensees must consider how they will address, use a graded approach, or justify a different approach for the guidance in these sections.
 - CNL suggests that the CNSC develop a crystal clear, graded approach to how this REGDOC is implemented and regulated for different types of facilities so all licensees can fully understand their requirements.

Canadian Nuclear Laboratories

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- "While industry believes it is premature to include nuclear security culture in this REGDOC, licensees clearly recognize the need for healthy nuclear security and nuclear safety cultures. Nuclear safety culture and nuclear security culture have important differences and the models require maturation before mandating integration.
 - CNL strongly encourages the CNSC remove references to nuclear security from this draft until industry-wide efforts in this area are complete.
- Licensees should not be expected to share information from a safety culture assessment with the public to protect the integrity of assessments and the privacy of their participants. Licensees need the freedom to be harshly critical of themselves to drive continuous improvement. Compelling public communication of results will inadvertently pressure licensees to ensure positive assessments through the setting of lower expectations.
 - CNL suggests the CNSC remove any references or implied requirements to • communicate nuclear security assessment results with external stakeholders. CNL has been and continues to support providing confidential briefings to the CNSC on safety culture results.

We take the opportunity to reaffirm our commitment to foster, maintain, and improve the safety culture within our organization.

If you should have any questions regarding this submission, please contact me directly.

Yours sincerely,

Solly Karivelil, Manager **Regulatory Affairs** Phone: 613-584-3311, ext. 48021 Email: solly.karivelil@cnl.ca

SK/mj Attachments (1)

- J. LeClair (CNSC) С
- Consultations (CNSC)
- T. Blejwas K. Daniels T. Preisig
- J. West

S.K. Cotnam J.D. Garrick J. Stone >CR CNSC Site Office

D. Cox K. Kehler R. Swartz >CR Licensing S. Faught H. Khartabil



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Attachment A Comments on Draft REGDOC-2.1.2, Safety Culture

 Neit are Sect Obje licer licer min licer supp • 	FOR INFORMATION on the proposed implement of ther this document nor the draft REGDOC itself of clear on how they will apply to non-NPPs. The transition of the Request for Information, under	ntation of REGDOC-2.1.2, Safety Culture Modify to clearly delineate requirements for	Major	
are Sect Obje licer licer min licer supp •	clear on how they will apply to non-NPPs.	Modify to clearly delineate requirements for	Major	
This licer requ	jectives, says this draft REGDOC "applies to all ensees: it sets requirements and guidance for ensees of Class I nuclear facilities and uranium nes and mills, and provides guidance to all other ensees. The following three requirements oport this objective: licensees shall document their commitment to fostering safety culture in their governing documentation licensees shall conduct comprehensive safety culture assessments that are empirical, valid, practical and functional upon completion of a safety culture assessment, the licensees shall prepare a summary report for submission to the CNSC s is written as if all sections are required for all ensees, though points 2 and point 3 are guirements for NPP's and guidance provided for	different facility types. The CNSC should have a very clear graded approach to implementation of this REGDOC for different types of licensees		Undue burden on facilities to try and understand the intent of regulator or to justify a partial implementation of processes to meet this regulatory document. See comment below.
2. Und	other facilities.			



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	culture assessments are intended for nuclear power plants" which is an unclear explanation of which requirements and guidance apply to different facilities. In other parts of this Request for Information and the draft REGDOC itself, the wording suggests all facilities should develop processes to the same degree as the NPPs.	are implemented and regulated for different types of facilities so all licensees can fully understand their requirements.		smaller facilities (non-NPPs) where requirements are unclear. Many thousands/millions of dollars could be spent trying to rationalize processes as acceptable or to address action notices where facilities did not understand the requirements (or a CNSC inspector incorrectly determined noncompliance with the requirements).
3.	In Section 5, Potential Impacts, CNSC staff erroneously note, "The requirement to provide a summary report of safety culture assessments may result in a modest administrative burden on nuclear power licensees." This is contrary to the Cabinet directive on Regulatory Management and the Red Tape Reduction Act and the One-for-One rule, since there does not appear to be any administrative burden being removed from licensees.	Licensees strongly urge the CNSC to follow the Cabinet directive and the intent of the One-for- One rule.	Major	There continue to be an increasing number of administrative burdens placed on licensees through REGDOCs without any relief via the Red Tape Reduction Act and the One-for-One rule. These administrative burdens generally have no nuclear safety benefit, but increase costs to licensees which are passed on to ratepayers. From the Government of Canada website (http://www.tbs- sct.gc.ca/hgw-cgf/priorities- priorites/rtrap-parfa/ofo-upu-eng.asp): "When a new or amended regulation increases the administrative burden on business, regulators are required to offset – from their existing regulations – an equal amount of administrative burden cost on business." Since the CNSC



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			is using REGDOCs instead of regulations to implement new Regulatory Requirements, they are not following the one-for-one rule, which is inappropriate. This is resulting in hundreds of thousands of dollars of administrative burden being added to the licensees each year for this and other REGDOCs.
REGI	DOC-2.1.2 – SAFETY CULTURE		
GEN			
4.	Intent: Could the CNSC please clarify the driver or purpose of the regulation for Class I Nuclear Facilities, which the CNSC acknowledges already do what is expected with regard to safety culture assessments? Is the intent of this REGDOC to be a method of measurement of safety culture or a method of improvement?	Question for Clarification	
5.	Why does the CNSC believe it necessary to include such level of detail in the guidance when it appears the requirements largely apply only to the NPPs, which already have detailed practices and processes?	Question for Clarification	
6.	Could you please clarify what "should" means throughout the draft regulatory document, specifically under the guidance sections?	Question for Clarification	
7.	What activities will the CNSC conduct to ensure	Question for	



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	compliance with the REGDOC? What additional activities will licensees need to perform to meet the requirements in this draft beyond those the CNSC has already observed from existing assessments?		Clarification	
PREF	-	1		
8.	The statement, "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" is not reasonable. Guidance is meant to be guidance, if the licensee is required to meet guidance criteria, then it is a requirement, not guidance.	Revise wording to: "Licensees are expected to review and consider guidance".	Major	Licensees note that a similar statement appears in all REGDOCs, which puts an unreasonable onus on licensees to demonstrate not only how requirements are met, but also how guidance is met. Guidance is meant to be guidance. If a licensee is required to meet guidance criteria (even by other means), then it is a requirement, not guidance.
9.	Some licensee types have no requirements for this document, only guidance. However, the preface suggests all licensees must follow guidance or justify why they do not. Section 1.2 then discusses how Section 3 and 4 are intended only for nuclear power plants, yet all licensees must consider how they will address, use a graded approach, or justify a different approach for the guidance in these sections.	This draft should be revised to clearly lay out requirements for all facilities, including what the requirements are for a given section in Table A1 on Page 13 when it lists a facility type as 'G'. In future drafts, licensees urge the CNSC to clearly describe its expectations for how "prudent management practices" should be addressed.		Potentially significant financial and administrative burdens could be placed on smaller facilities to interpret expectations, create arguments for a graded approach and justify the processes that are used or implemented as a result of this document. Undue hardship could result from failure to understand requirements. Disagreements between licensees and the regulator regarding interpretations could lead to regulatory actions taken against the licensee, which would



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				negatively affect the perception of their businesses with the regulator and the public in terms of perceived safety performance.
CNSC	Referring to existing facilities, the draft says, "The requirements contained in this document do not apply unless they have been included, in whole or in part in the licence or licensing basis." What is the intent of this statement? Can it be interpreted that this REGDOC applies or does not apply to existing facilities? Does this mean it only applies after relicensing changes? It this applicable to Nuclear Waste facilities? TON 1 – INTRODUCTION C Objective: To establish a common understanding of w nization	vhat constitutes a healthy safety culture and the im	Request for clarification portance of foste	ring safety culture in a licensee's
11.	The proposed CNSC definition of safety culture is technically sound in that it conveys a neutral stance to culture and can be either positive or negative in promoting certain outcomes. However, it differs from that of the various definitions industry uses and varies slightly between the Introduction and the Glossary. Was this intentional and can the definitions used by the industry continue? Where did the CNSC's proposed definition come from? As written, the definition in this paper is less useful as a communications tool to promote the importance of having a positive safety culture. The	Licensees suggest the CNSC adopt an existing, accepted international standard definition such as the IAEA or WANO/INPO definition of nuclear safety culture, which says: "Nuclear Safety Culture is defined as the core values and behaviours resulting from a collective commitment by leaders and individuals to emphasize safety over competing goals to ensure protection of people and the environment."	Major	Adopting an existing, internationally- recognized definition would help foster a common international understanding of nuclear safety culture.



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	WANO/INPO (2012) and the IAEA (2006) definitions are more effective in this regard and would help give a sense to a workforce that safety takes precedence over competing goals. The CNSC's proposed definition also emphasizes a perception - 'the importance that the licensee places on safety' - rather than an attitude towards the importance of safety in the workspace throughout a licensee's organization and the role licensees play in promoting safety, safe practices, etc.			
12.	The document makes no specific mention of 'nuclear safety culture,' opting instead for the more generic 'safety culture.' Without specifying 'nuclear,' the document does not recognize the industry's unique nature or that safety culture, in a nuclear context, has an enhanced focus beyond industrial or occupational safety.	Licensees urge the CNSC to add 'nuclear' to all references of safety culture. For additional clarity, industry suggests the document be amended as follows: In Section 1, Introduction, Para 1, Add: "For further certainty, it is expected that licensees ensure management and workers understand the higher-level obligations for nuclear safety over that of a conventional work environment." In keeping with industry's recommendation to remove references to nuclear security culture at this time (see comment #16), delete the final line of the Introduction, which says: "In this document, "safety culture" denotes safety culture and security culture collectively, except where a distinction is made."	Major	This document will be read and interpreted by members of the public who may not have a full awareness of the special and unique aspects of nuclear. Given this, the language must be particularly clear and not combine or confuse terminologies. Readers must understand that safety matters being discussed are not explicit to conventional safety, which could lead to misinterpretation of other Acts and regulations pertaining to occupational safety matters. Without a clear emphasis on nuclear safety culture, results of assessments could also be overly focused on conventional safety.
13.	Shaping and influencing culture is primarily an act	Industry suggests emphasizing how leadership,	Major	As currently written, this creates



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	of leadership, not workers. However, the introduction of this draft indicates all workers have a shared responsibility to ensure a healthy safety culture is a priority. While this may be true in principle, in practice a healthy culture is fostered when leadership makes it a priority. Workers do not always have the means or ability to ensure a healthy nuclear safety culture is a corporate priority or to influence values and rules or the importance placed on safety by the licensee.	not workers, shape culture in future drafts of this REGDOC.		confusion as to the meaning of nuclear safety culture
14.	Point #3 under section 1 says, "Safety culture is complex and <i>constantly changing</i> ." However, licensees believe the CNSC more accurately describes this sentiment in the third paragraph of page 10 when it says nuclear "safety culture can <i>change over time</i> "	Rewrite the point to say, "Safety culture is complex and changes over time."	Major	As currently written, the phrase 'constantly changing' might erroneously equate to 'constant monitoring', which would add an administrative burden to licensees with no appreciable impact on nuclear safety culture.
Secti	on 1.3 Relevant Legislation			
15.	Relevant legislation also includes the Nuclear Non- Proliferation Import and Export Controls Regulations (NNIECR).	Add paragraphs 1(1), (2), (3) and (4) of the NNIECR: 1 (1) The definitions in this subsection apply in these Regulations. Act means the Nuclear Safety and Control Act Controlled nuclear equipment means the controlled nuclear equipment and the parts and components for controlled nuclear equipment referred to in the schedule. Controlled nuclear information means the controlled nuclear information referred to in the	Major	The draft is incomplete and does not address relevant essential regulations essential for the implementation of this proposed REGDOC.



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		 schedule. <i>Controlled nuclear substance</i> means a controlled nuclear substance referred to in the schedule. <i>Transit</i> means the process of being transported through Canada after being imported into and before being exported from Canada, in a situation where the place of initial loading and the final destination are outside Canada. (transit) (2) All controlled nuclear substances are prescribed as nuclear substances for the purpose of paragraph (d) of the definition nuclear substance in section 2 of the Act, with respect to the import and export of those substances. (3) All controlled nuclear equipment is prescribed equipment for the purposes of the Act, with respect to the import and export of that equipment. (4) All controlled nuclear information is prescribed information for the purposes of the Act, with respect to the import and export of that equipment. (4) All controlled nuclear information is prescribed information for the purposes of the Act, with respect to the import and export of that equipment. 		
Sect	ion 1.4.1 Security Culture		I	



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16.	Nuclear safety culture and nuclear security culture have important differences and the models require maturation before mandating integration. This draft cites a number of IAEA documents related to nuclear security. However, the IAEA has not yet published any guidance on nuclear security culture, including frameworks and assessment methodologies, although collaborative international efforts are underway to define them. While licensees are proactively exploring ways to assess aspects of nuclear security culture using draft IAEA documents and industry expertise, it is simply premature to introduce security culture into this draft REGDOC. The industry has had 30 years to develop a common language, common understanding and to mature the frameworks and assessment methodologies for safety culture, whereas similar concepts for security culture are in their infancy. Why does the CNSC believe the IAEA security culture requirements, which remain in development and are not well-established or understood, need to be blended into a very mature, well-established nuclear safety culture framework at this time? While there is some overlap at a very high-level between nuclear safety culture and nuclear security culture, they have fundamentally different basis and origins. As the IAEA Nuclear Security	Licensees strongly encourage the CNSC to remove references to nuclear security culture from this draft until industry-wide efforts in this area are more advanced.	Major	Prematurely introducing requirements into a regulatory document could inadvertently, but effectively, stifle the collaboration and industry-wide learning necessary to mature the topic.



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	Culture Implementing Guide (2012) says, "both			
	nuclear safety and nuclear security consider the risk			
	of inadvertent human error, nuclear security places			
	additional emphasis on deliberate acts that are			
	intended to cause harm. Because security deals			
	with deliberate acts, security culture requires			
	different attitudes and behaviour, such as			
	confidentiality of information and efforts to deter			
	malicious acts, as compared with safety culture.			
	Fuer within this draft, the velotionship between			
	Even within this draft, the relationship between			
	nuclear safety culture and nuclear security culture			
	is described inconsistently:			
	- 'Security culture is a major component of safety			
	culture' (Introduction, Para 5);			
	- 'Safety culture and security culture coexist and			
	reinforce one another' (Introduction, paragraph 6);			
	- 'healthy safety and security cultures have similar			
	characteristics and indicators' (page 5, paragraph			
4=				
17.	The second sentence in Section 1.4.1 does not	Change second sentence in Section 1.4.1 to	Major	As written, the draft regulation is clear
	explicitly consider the need to provide greater	read: "This will provide greater assurance of		that nuclear security envelopes nuclear
	assurance of preventing, detecting, delaying and	preventing, detecting, delaying and responding		safety through the addition of the
	responding to theft, unauthorized access, illegal	to theft, sabotage, unauthorized access, illegal		additional attribute (i.e., matters
	transfer, or other malicious acts involving	transfer, or other malicious acts involving a		identified in *). In this regard, however,
	prescribed information or prescribed equipment in	nuclear substance, prescribed equipment or		the draft regulation must be enhanced to
	use, storage, or transfer. Also, the term nuclear	prescribed information in use, storage, or		the level of required continuity in use of
	substance should be used, rather than radioactive	transport."		language as that found in the family of



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	material.			the other Regulations and Acts.
SECT	ION 2 – FOSTERING SAFETY CULTURE			
CNSC	CREQUIREMENT - Licensees shall document their com	mitment to fostering safety culture in their governin	g documentation.	
18.	Licensee's management systems already document their commitment to nuclear safety. The expectation of this draft REGDOC is established in licences through the application of CSA N286. Licensees are transitioning to, or implementing, N286-12, whose Principle 1 states, "Safety is the paramount consideration guiding decisions and actions" and Clause 4.2 states, "Management shall use the management system to understand and promote a safety culture by: (a) issuing a statement committing workers to adhere to the management system; (b) defining and implementing practices that contribute to excellence in worker performance; (c) providing a means by which the business supports workers in carrying out their tasks safely and successfully, by taking into account the interactions between individuals, technology and the organization; and	Licensees encourage the CNSC to deemphasize the link between documentation and fostering a nuclear safety culture in future drafts of this REGDOC.	Major	Although governing documentation should include a statement of commitment making safety the overriding priority, and forming a basis for promoting a healthy nuclear safety culture, it is not through documentation that culture will be influenced. Rather, it is leadership decisions, words and actions that shape culture. To overemphasize the role of documentation is counterproductive since it will influence a culture that relies too heavily on established, written rules.
	 (d) monitoring to understand and improve the culture 			
19.	Under guidance, the proposed safety culture reference framework is overly rigid and	In subsequent drafts of this REGDOC, licensees encourage the CNSC to:	Major	Misalignment with the WANO/INPO traits will create an additional, non-value



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	 prescriptive. As currently written, this draft: 1) Utilizes characteristics which are not aligned to the 10 WANO/INPO Traits of a Healthy Nuclear Safety Culture currently used by many licensees. For instance, it refers to "questioning attitude," which in the traits includes "recognizing nuclear as special and unique." However, there is no characteristic in this REGDOC that supports this recognition. 2) Implies an expectation that licensees must, if not actually adopt the framework, at least explicitly address the details in the CNSC list. This interpretation is supported later in this draft by the final line of page 9, which says, "The licensee should be able to demonstrate that each characteristic in the CNSC's safety culture reference framework is clearly and effectively addressed." 	 Align the framework with the familiar, industry-accepted WANO/INPO traits and make it very clear this is simply an example framework that could be used to help licensees develop their own framework. This is already supported somewhat in the text by the phrase that calls the framework a "reference for demonstrating a commitment to safety" State that licensee should have a detailed framework, but not require them to cover all the detailed points listed by the CNSC. 		added burden to licensees rather than build on industry's current strengths in nuclear safety culture assessment. In addition, compelling licensees to use and/or address detailed safety culture characteristics that are currently listed in the CNSC framework but of limited applicability to their particular situation would only weaken the long-term viability of assessments.
20.	While industry believes it is premature to include nuclear security culture in this REGDOC, licensees clearly recognize the need for healthy nuclear security and nuclear safety cultures. However, other than the phrase, "Everyone understands that a credible threat to security exists" listed on page 4, the security indicators do not seem to reflect a characteristic specific to security.	Licensees urge the CNSC to remove references to nuclear security culture from this draft until industry-wide efforts in this area are complete. When cultural values are listed in any eventual guidance to help licensees develop their own frameworks, it would be helpful to include/create security-specific characteristics with security-specific indicators to accompany this REGDOC.	Major	To enhance safety, culture for security support across an organization is important, and this may differ from the characteristics specific to parts of the licensee which are security-specific organizations.
21.	The reference framework noted in section 2 says,	Suggest it say, "Workers understand" to make it	Minor	



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	"Everyone understands" throughout the section. It is difficult to measure, "Everyone's understanding".	less prescriptive.		
SECT	ION 3 – SAFETY CULTURE ASSESSMENTS			
	C Requirement: Licensees shall conduct comprehensive	safety culture assessments that are empirical, valid	d. practical and fu	nctional. Safety culture assessments shall
	onducted at least every three years.		,,	, ,
22.	The proposed requirement, when combined with the recommended guidance in this section, could potentially undermine the health of nuclear safety culture. As currently written, it will mandate an exercise which is concerned primarily with the gathering and analysis of data rather than fostering a process of self-discovery and reflection, supported by innovation in methodology, sharing experience and engaging leaders in the creative act of fostering a healthy nuclear safety culture over the entire lifecycle of an organization. This initial draft has a limited view of nuclear safety culture assessment. Culture may be assessed through any number of means, including surveys, external reviews, performance metric analysis, event analysis, etc. Yet the proposed approach is rigid and emphasizes a cookie-cutter method against a static framework to ease comparability, using phrases like: <i>observable facts; logical analysis; clear interpretation; comparative analysis over time; analysis is defensible and replicable; structure; validated, etc.</i> In reality, culture is an act	Licensees strongly believe the CNSC does not need to define how safety culture assessment is to be performed. That should be left to the discretion of the licensee, which may approach the assessment in a manner best suited to their own culture, operations and location. If guidance is offered in subsequent drafts, licensees urge the CNSC to deemphasize the restrictive and empirical nature of a nuclear safety culture assessment to protect the integrity of the assessments themselves.	Major	The restrictive and empirical underpinning of the regulatory expectations overemphasize the survey aspect of the assessment and could wrongly give an impression that culture i measurable from a quantitative perspective, rather than recognizing there is a significant qualitative or insight-driven aspect to the assessment. It risks the unintended consequence of undermining efforts to foster a healthy nuclear safety culture. It removes the desire from licensees to apply their creativity and identify assessment and improvement opportunities best suited to their unique organizations.



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	of discernment, with the development of insights			
	influenced by history and context. Direct			
	comparison from one period to the next, or one			
	licensee to the next, is ill advised and can be			
	misleading. For example, a reduction in results in			
	the survey tool could be the result of a healthier,			
	more self-critical organizational culture, rather			
	than a decline in commitment to safety.			
23.	What is the rationale for the prescriptive nature of		Request for	
	the requirement for the safety culture assessments		clarification	
	to be empirical, valid, practical and functional as			
	described in the guidance?			
24.	Is the methodology being used in Class 1 facilities		Request for	
	appropriate for smaller licensees? What		clarification	
	benchmarking was done to address the			
	methodology for smaller licensees?			
25.	The requirement that, "Safety culture assessments	Revise wording to: "Safety culture assessments	Major	Licensees require flexibility and
	shall be conducted at least every three years" is	should nominally be conducted every three		discretion to properly plan assessments.
	overly restrictive without reason. It is suggested	years and shall be conducted at least once every		These are large projects which impact a
	that some flexibility be built into this section to	five years."		licensee's business plan. Industry agrees
	allow for business needs to be considered in the			that a 3-year cycle is nominal, but
	planning process.			suggests some flexibility out to 5 years
				and some latitude with regard to scope,
				since an assessment for an entire
				organization may not always be required
				within that time frame. This is with the
				understanding that licensees are
				constantly evaluating safety culture



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				through other means (i.e. corrective action processes, safety culture monitoring panels, daily leadership meetings, etc.)
26.	While the requirement says assessments shall be conducted at least every three years, the guidance indicates that, "Organizations engaged in complex work involving many interdependent workers and processes will benefit from comprehensive monitoring, which can include safety culture assessments." The 1 st statement says assessments are mandatory, which seems to contradict the 2 nd statement saying that safety culture assessments are an optional part of comprehensive monitoring.		Request for Clarification	
27.	Why was this framework chosen over other proven frameworks that exist in the nuclear industry?		Request for Clarification	
28.	How does the CNSC plan to address changes resulting from international efforts between INPO/WANO, IAEA and the CNSC, when they are issued as a new common language framework later in 2017? What does the CNSC expect licences to do differently given they use the INPO Traits and Attributes that do not map explicitly to the CNSC's framework?		Request for Clarification	
29.	The statement, "the chosen assessment method and associated safety culture framework" implies that licensees can use a safety culture framework		Request for Clarification	



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	different from the one described in Section 2. Please clarify whether the continued use of the INPO model without revision meets the requirements?			
30.	On Page 6, what is the meaning of the bullet, "Managers do not abuse authority to circumvent security*" as part of the safety culture framework?		Request for Clarification	
	on 3.1 – Objectives applicable to safety culture asses		1	
31.	Empirical – Industry has concerns with the 2nd and 3rd bullets and the need for clarification of the 4 th bullet point. How is it possible to make a nuclear safety culture assessment replicable? As written, it could be interpreted that the CNSC expects licensees to provide all information collected. How are observations objective? To what extent would licensees have to use a method that uses objective observations?	Remove 2 nd and 3 rd bullet points and clarify the 4th.	Major	Regarding the 2 nd bullet point, industry does not want the information to be replicable to protect integrity of the assessments and the privacy of its participants. Licensees will not keep assessment data to assure workers it will be not used improperly or perceived to be held against them in any way.
	Regarding the 4 th bullet point, are the words cultural characteristics/traits being used in a general sense? It seems there is some flexibility here as to use the WANO/INPO Traits of a Healthy Nuclear Safety Culture rather than the culture characteristics. Does the word range , mean that every cultural characteristic/trait is to be assessed?			
32.	Practical, - Industry has questions around the meaning of the 1 st bullet: "Information obtained from the assessment method is clearly recorded to		Request for Clarification	



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33. I	allow logical analysis." Similar to the comment above, this could indicate the CNSC expects all information from the assessment to be recorded and provided to CNSC. Is this the intent? For the 2 nd bullet, what is meant by demographics? Is it necessary, and is there value added, to collect demographic information? Why do licensees need to include job position? The current wording threatens the anonymity of the responses. Functional – Industry has concerns with the phrase "observable facts" in the 1 st bullet. What is meant by the 2 nd bullet, which says, "The assessment yields relevant, actionable information"? Does the assessment also need to have actions?	Replace the phrase "observable facts" with "based on observations and perceptions" in the 1 st bullet and clarify the 2 nd bullet.	Major	Industry relies heavily on the perceptions of workers who participate in assessment surveys and discuss nuclear safety culture with interview teams. Changing the assessment methodology from what licensees in both Canadian and US facilities currently and effectively use would require significant additional effort without a corresponding benefit to nuclear safety. Observable facts are more of a continuous monitoring data- gathering technique and not applied extensively during the three-year assessment.
	ommunications Strategy			
	Licensees should not be expected to share	Licensees urge the CNSC to remove any	Major	To be useful, nuclear safety culture
	information from a safety culture assessment with	references or implied requirements to		



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	the public to protect the integrity of assessments and the privacy of their participants. Licensees need the freedom to be harshly critical of themselves to drive continuous improvement. Compelling public communication of results will inadvertently pressure licensees to ensure positive assessments through the setting of lower expectations.	communicate nuclear security assessment results with external stakeholders. How licensees opt to communicate their assessments should be a matter of choice in line with their existing communication strategies, which makes this guidance unnecessary.		expressed in language understood by licensees in the context of their internal business practices. Assessments need to be unfiltered so leadership can reflect upon and take actions on internal issues. Findings are based on the perceptions of workers steeped in the nuclear culture of being extremely self-critical, which is vital to continuous improvement but easily misinterpreted by those unfamiliar with the industry. There is significant danger that results would be misunderstood by the public and generate unwarranted angst without extensive education, which is not practical. External sharing of even high-level summaries creates the potential to sanitize reporting and ultimately lower the overall impact on nuclear safety.
35.	Paragraph 4, 3 rd bullet, can the CNSC clarify what is meant by "contractors"? Licensees utilize contractors in various forms and require clarity to ensure there is no misunderstanding as to the extent of application to third parties who support the licensee.		Request for clarification	
36.	This draft acknowledges that "for security culture, the communications plan must consider that some information is security sensitive" but also says "for	Licensees urge the CNSC to remove the statement from future drafts or, at a minimum, add the words "to the extent possible" to the	Major	Sharing security information even in a broad sense would not only expose vulnerabilities, but could also result in



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	the benefit of greater awareness, all aspects should be shared broadly even if this requires some incidents or lessons learned to be generalized."	statement.		public angst if improperly characterized. It is noted on Page 9 that "some expectations differ from a safety culture assessment, in areas such as information sharing and communications." It is not clear what the CNSC is willing to consider different.
Secti	ion 3.3 Preparing for the safety culture assessment			_
37.	The CNSC is providing inconsistent information as to what constitutes a nuclear safety culture assessment. Although licensees may use formal assessments tools described in section 3.3, this is not the only means of assessing the culture of the organization, which appears to be recognized in section 3.4. Licensees should be encouraged to review their performance and culture on an ongoing basis, respond to changes in metrics and positive and negative events, both internal and external.	Remove Section 3.3. Section 3.4 provides sufficient direction for licensees to perform assessments.	Major	By defining a nuclear safety culture assessment in such a prescribed manner, the CNSC is hindering licensee's flexibility to meet expectations.
38.	Industry has concerns with Section 3.3.1 of this draft, which says, "Licensees should ensure that the safety culture assessment framework is mapped against the five safety culture characteristics (section 2 of the document), and is used at all stages of the assessment process." Licensees believe this is overly prescriptive and feel the regulator should not impose how an assessment is performed, what framework is	Remove Section 3.3.1. Section 3.4 provides sufficient direction for licensees to perform assessments. Alternatively, industry suggests the use of the five safety culture characteristics be optional for utilities that may not currently have anything in place.	Major	Given that some licensees already use INPO's 10 Traits of a Healthy Nuclear Safety Culture, licensees would have to restructure their assessment processes greatly to meet what this section's expectations. This draft document does say, in section 3.4.1, that, "The licensee should be able to demonstrate that each characteristic in the CNSC's safety culture



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	chosen or how it is mapped against the regulatory			reference framework is clearly and
	framework.			effectively addressed." This suggests that
	Some Canadian operators are actively engaged in			if licensees can prove their framework is
	the joint IAEA–WANO/INPO initiative to harmonize			effective, they can continue to use it.
	safety culture frameworks and believe this is			
	counter to those efforts to use a common			The quality of assessments will be
	vocabulary in regard.			preserved if licensees that already use
	Several licensees already use the INPO/WANO			the INPO traits continue to do so because
	framework, which has been mapped against the			the traits: are familiar to personnel;
	IAEA Standard Framework, and would be willing to			already integrated into existing
	provide such a mapping of characteristics to the			frameworks; used by the NRC and other
	CNSC for future drafts of this REGDOC. It is unclear			worldwide regulatory agencies; adopted
	in the current version whether the CNSC			to align with nuclear industries for
	expectation is for the assessment itself to be			benchmarking purposes; used in previous
	mapped back to the bespoke CNSC framework,			assessments allowing for direct historical
	which would be a level of effort that would not add			(trend) mapping.
	value for licensees with mature programs.			
Secti	ion 3.3.3 Assessment team selection			-
39.	Licensees believe this section provides an extensive	Remove Section 3.3.3. Section 3.4 provides	Major	Industry needs flexibility to choose team
	list of "should" statement that, in practice, will be	sufficient direction for licensees to perform		members to conduct effective safety
	virtually impossible to satisfy. For instance, the	assessments.		culture assessments.
	assessment team leader selection is too detailed			
	and prescriptive, particularly for hybrid	Alternatively, the CNSC could: delete the		
	assessments. These responsibilities do not	detailed list of responsibilities and simply state		
	necessarily need to be done by the team leader	that responsibilities for the team leader and		
	and often would not if they had an internal team	members should be defined (recognizing that		
	lead. Nor does this section state that an	any team will be a compromise of potentially		
	assessment team should include someone with	competing factors and skill sets among its		



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	knowledge and expertise in assessments of security culture, should that requirement not be removed from this draft as urged by licensees.	members); revise the "should" factors, to "considerations" for choosing team members; add nuclear security culture to the list of qualifications for assessment team members.		
Secti	on 3.4 Safety culture assessment process			
40.	The draft identifies nuclear safety culture assessment as an ongoing process, but indicates assessments are to be conducted every three years which would make them periodic, repetitive events. The CNSC can provide clarity by removing the phrase, "'is an ongoing process" from future drafts.		Request for clarification	
41.	3.4.1 - Industry is concerned the CNSC is prescribing detailed safety culture characteristics, particularly with the final sentence on page 9, which says, "The licensee should be able to demonstrate that each characteristic in the CNSC's safety culture reference framework is clearly and effectively addressed." As earlier indicated, licensees believe it should be acceptable to perform a one-time mapping of how the characteristics are related to the INPO Traits of a Healthy Nuclear Safety Culture, or other credible nuclear safety culture documentation.	Replace the sentence with: "The licensee should be able to demonstrate that it addresses its own framework."	Major	It is important that licensees retain control of what it determines are the important characteristics of its own safety culture framework.
42.	3.4.3 - The document suggests that improvements following an assessment will lead to improvements	Rewrite to say, "How a licensee chooses improvements following an assessment, and the	Minor	
	in established policies and procedures. Not all improvements will change policy and procedures.	commitment to implementing these improvements, should be consistent with the		



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		existing management system."		
43.	3.4.4 - A list of safety culture monitoring activities has been included in section 3.4.4, which states that, "Licensees should consider these monitoring activities when planning subsequent assessments."	Change the word "should" to "may" and remove the reference to appendix B in the second paragraph of 3.4.4.	Major	Currently, industry does not use all of these monitoring activities. If it were to do so, it would require additional effort with no corresponding benefit to nuclear safety. Examples include: providing topic- based surveys; focus area surveys and follow up surveys; reflecting on formal and informal dialogue focused on safety between management and other workers.
44.	3.5 -The guidance on record keeping is too prescriptive and already covered by licensee management systems	Remove the section on record keeping.	Major	This is conflicting and unnecessary guidance.
Secti	ion 4 SUMMARY REPORTS			
CNS	C Requirement : Upon completion of a safety culture as	sessment, the licensees shall prepare a summary re	port for submission	on to the CNSC
45.	The requirement to submit a summary report to the regulator will negatively impact the validity and quality of future assessments because they will become publically available through the <i>Access to</i> <i>Information Act.</i> There is a real risk that participants in future assessments will be less self- critical or forthcoming knowing assessment summaries will be publically available. The need to protect the integrity of peer reviews is precisely why WANO continues to ensure its assessments remain as confidential and effective learning tools for the industry.	Remove the requirement to submit a summary report. Encourage licensees to provide the CNSC with their approach to the assessment, provide a confidential briefing on the key themes and planned actions to ensure continuous improvement in fostering a healthy nuclear safety culture.	Major	Licensees have conducted assessments in the past without submitting summary reports to the CNSC. It is highly likely that responses to surveys and interviews would be skewed once workers understand their responses are going to be summarized for the regulator and the public. This could have a negative effect on the validity of the assessments. The CNSC's current, non-intrusive approach has helped promote nuclear safety culture assessments as an effective



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				management tool, not a regulatory one. This has resulted in positive benefits like ongoing engagement from site management and open, honest internal discussions about nuclear safety culture. Should the perception of assessments be changed to simply "another regulatory report/requirement," there is a real risk the utility of the assessments will erode. Ensuring a measure of confidentiality in the results is important to preserve continued open and self-critical reflection.
46.	Has the CNSC considered and understood the chilling effect on open, honest answers from licensee staff that is likely to result from requiring a detailed summary report be provided to the CNSC? Similarly, what considerations has the CNSC given to the impact of public communications on safety culture data collected from workers promised confidentiality to ensure they would be self-critical and fulsome during assessments?		Request for clarification	
47.	Please clarify the level of detail the CNSC requires in a summary report, particularly as it relates to a chosen assessment model? Is it acceptable to refer to a licensee's procedure and not outline/reproduce that procedure in a summary report?		Request for clarification	



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			or clarification				
48.	The 3rd bullet says, "the chosen assessment		Request for				
	method and associated safety culture framework."		clarification				
	This implies that a licensee can use a safety culture						
	framework different than the one described in						
	Section 2. Please clarify.						
49.	Under guidance in Section 4 on the summary		Request for				
	report, what is meant by, "The description of the		clarification				
	safety culture assessment's goals should explain						
	how the assessment supports organizational						
	objectives. An overview of how the safety culture						
	assessment relates to relevant organizational						
	programs and practices should be included"?						
APPE	APPENDIX A - Applicable Requirements and Guidance, by Licence and Activity Type						
50.	Ensure consistency of language and intent between	Delete the term "prudent management	Minor				
	the main text and the appendix in the graded	practice" as part of the descriptor to guidance in					
	approach being adopted for some sections of the	Table A1, as this erodes the notion that these					
	REGDOC.	sections are guidance and can be applied in a					
		graded manner as is stated in Section 1.2.					
51.	The draft REGDOC needs to ensure continuity with	Import and export licences should be added to	Minor				
	export and import license regulations.	Table A1 as guidance					
APPE	NDIX B – Safety Culture Maturity Model	·					
52.	Industry believes the proposed nuclear safety	Licensees strongly recommend the CNSC remove	Major	This is a secondary methodology which is			
	culture maturity model is misaligned with the	the entirety of Appendix B and any references to		not aligned to the characteristics or			
	nuclear safety culture characteristics and poorly	the Maturity Model.		attributes (i.e. the diversity element).			
	integrated overall with the draft REGDOC. Its use			This introduces another framework and			
	could create an environment where a licensee's			would create an additional administrative			



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	culture is perceived as an absolute value that is simply pass or fail. Licensees are deeply concerned that indicator scores would be used to plot stage 1, 2 or 3 and culture cannot be measured by a set of indicators. Industry notes that in Table B1, the indicators section does not seem to list indicators at all. The IAEA has a number of documents and programs aimed at countries that are newly developing a nuclear industry and regulatory infrastructure. 'Stage 1: Requirement-driven' of the maturity model appears to be directed towards such countries. However, Canada has an established, internationally-recognized nuclear regulatory infrastructure. Operating within that infrastructure, licensees are already committed to remain within 'Stage 3: Continually improving.'			burden with no apparent, corresponding value. There could potentially be unintended outcomes and consequences of using this maturity model causing strict compliance and a lowering of standards. It could pressure licensees to meet fixed culture score requirements rather than focusing on utilizing nuclear safety culture surveys as another performance improvement tool. Considering a nuclear safety culture assessment is, in part, the workforce's perception of safety, using a maturity model based on rigid scores could create an environment in which licensees shy away from any initiatives that could give workers a perception that safety needs improvement since this could result in lower scores.
53.	Why does the CNSC want to incorporate an unfamiliar, untested maturity model requirement? What value is expected? How will it be used? Does the CNSC consider the maturity model an empirical method of measurement? Is this intended to be a secondary assessment methodology? Given industry's questions on the maturity model, what assurances do licensees have		Requests for clarification	



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	that guidance provided in the document will be managed as guidance and not as requirements?			