	Section	Industry issue	Suggested Change	MAJOR	Impact on industry		
				or Clarification			
0.	Overview	Industry appreciates the opportunity to comment on the proposed new document, while a few of the comments identify inconsistencies or confi		f our comments	focus on improving the clarity of the final		
		<ul> <li>Following a collective review by personnel with extensive experience developing and implementing Operations programs, licensees have identified several areas where clarification is required, or misunderstanding may be possible; these are detailed in this table of comments. The feedback is broken in to Major or requests for Clarification comments. Of note, below we highlight several themes, which are of particular importance and supported by the comments identified as Major. These include: <ol> <li><i>Large nuclear power plant bias</i>: the document should apply to other types of facilities and technologies so not to impede implementation. In particular: <ul> <li>As a result of the scope being biased towards existing large nuclear facilities (e.g., CANDU technology), it utilizes existing position titles, roles, and terminology whereas smaller facilities and other technologies may have a more multi-disciplinary approach with different positions, roles, and terminology.</li> <li>Looking to the future, NPPs, both large and small, may have a more multi-disciplinary work force in the field. The control room will remain dedicated to the operational concerns but the personnel in the field may have mechanical and/or control skills with an operational flavor.</li> </ul> </li> <li>Undefined terms: for example, the concept of an "Operating Duty Manager" is not defined in the CNSC framework. CNSC should not prescribe specific, but undefined, titles in regulatory requirements as this will unnecessarily impact the existing organizational structure of facilities.</li> <li>Unnecessary duplication/expansion of requirements: There are several references to existing requirements present in other REGDOCs and instances of an expansion in requirements. Content should apply the existing ilcence under s.15 of the GNSCR is an unnecessary expansion in requirements. b. The reporting and requirements for responding to a serious process failure are already captured in REGDOC-3.1.1 as well as existing licence conditions.</li> </ol></li></ul>					
1.	General	<ul> <li>The requirement to minimize the use of operator Alds</li> <li>This document is very specific to existing large nuclear facilities (potentially CANDU technology), utilizing existing position titles, roles, and terminology whereas smaller facilities (e.g., research reactors) may have a more multi-disciplinary organizational approach and other technologies may use different terminology.</li> <li>The document should be revised to allow for different approaches to the requirements.</li> </ul>	is concerning and counter to many initiatives being undertaken by Make the document technology neutral; generally being more applicable to all reactor facilities and technologies and where there are references to specific NPP requirements, state the equivalent for other reactor facilities	MAJOR	Limits the ability of non-CANDU and/or smaller facilities to fully implement this REGDOC.		
2.	General	<ul> <li>As some of these requirements are within other regulatory requirements, what is the assurance that these requirements are/will remain aligned? Has each one been checked to ensure there is not an additional requirement for an already established one?</li> <li>For example:</li> <li>Guidance for operations decision making invokes IAEA requirements. It is labelled as guidance and says <i>should</i> but then says <i>ensure</i>.</li> </ul>	Where requirements are already in other REGDOCs refer to that document rather than replicate/duplicate the requirements. Confirm this REGDOC is not intended to expand or introduce new requirements.	Clarification			

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		<ul> <li>Many guidance sections provide examples; it is unclear if these are <i>requirements</i> or just examples. Requirements should be clear not limited to the examples; industry continuously improves and looks to innovation to be more effective and efficient.</li> <li>Section 6.2 extends requirements of OPEX reporting from REGDOC-3.1.1.</li> </ul>			
3.	2.1 General overview	The guidance section singles out Training and Certification REGDOCs. This may be correct, but then many other REGDOCs are also relevant; by their absence, expectations on Scope are unclear.	Clarify scope of REGDOCs that should be considered.	Clarification	
4.	2.1 General overview	<ul> <li>The requirements in this section should reflect a more overarching statement that includes:</li> <li>establishment and maintenance of a strong safety and security culture</li> <li>Development of programmatic functions and features that are consistent with industry OPEX for effective operational performance.</li> <li>It is understood that CNSC cannot endorse INPO/WANO practices, but CNSC should expect an operational program to come from proven practices.</li> </ul>	Revise to: "The licensee shall document how the operations program's functions, features and activities are: consistent with industry OPEX for effective operational performance and are integrated to form a comprehensive framework for operations that fosters attributes of a strong Safety and Security culture."	Clarification	
	2.1 General overview	In the following sentence, it is not clear why the (precise) term 'procedures' is used: "the licensee shall establish provisions for adherence to safety requirements and procedures for safe control of the reactor facility under all conditions." Procedures are only one mechanism/tool for assuring safe control of the reactor facility so the requirement should be more broad.	Revise to: "the licensee shall establish control provisions to adhere to safety requirements and to ensure that appropriate actions are taken to assure prevention and mitigation of risks associated with the reactor facility at all times." Add item to guidance: "Control provisions should include an effective combination of personnel training and use of procedures to conduct routine activities and safely cope with abnormal conditions. " Revise existing guidance: "Training for <del>operators</del> personnel encompassed by the Operations Program should cover relevant areas of technology	Clarification	
6.	2.1 General overview	IAEA NS-G-2.14 has been superseded by IAEA Safety Standards Series No. 76.	to the levels necessary" Delete or update references.	Clarification	

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				Clarification	
ļ		If the CNSC thinks the IAEA document is sufficient to define the scope			
ļ		of an Operational program, it should clearly state this. The use of this			
]		reference is confusing.			
	2.2	Some of the guidance wording reads more as a requirement, rather	Revise the text to clarify what is a requirement and what is	Clarification	
	Interfacing	than guidance.	guidance.		
	programs 2.3.1	The concept of an "Operating Duty Manager" is not defined in the CNSC	Revise title to:	Clarification	
	Expectations	framework. CNSC should avoid prescribing specific, but undefined,	"Expectations for Management with authority to oversee and	clarmedition	
	for	titles in regulatory requirements.	direct day-to-day Operations"		
	operations	titles in regulatory requirements.	unect duy-to-duy Operations		
	duty	Also, Senior facility manager is also not defined.	Consider, modifying the first paragraph of 2.3.1 to:		
ļ	managers	Also, senior facility manager is also not defined.	"Certain roles in Management are assigned both duties and		
ļ		Focus on the relatestation rether then a specific title in	authority to direct day to day operations and maintenance in the		
ļ		Focus on the role/safety function rather than a specific title in justifying the requirements.			
ļ		justifying the requirements.	facility. Common examples in Canada include Shift		
ļ		The last bullet "other duties as required" is not needed.	Supervisors/Managers and facility senior management who are		
ļ		·	required to be on-call for specific supplementary decision making		
ļ			on shifts as required by the Management System. These		
ļ			managers are responsible for protection and safety (of the		
ļ			reactor facility, the workers and the public); oversees the		
ļ			performance and supervision of the shift personnel; and directs		
ļ			the control of facility operations and maintenance in accordance		
ļ			with the operating limits and conditions (OLCs) and approved		
			procedures."		
ļ					
ļ			Define operations duty manager and senior facility manager for consistency among facilities.		
9.	2.3.1	"The licensee shall consider operations duty managers to be	Remove the s.15 GNSCR requirement or exempt certified staff	MAJOR	This impacts the current structure of the
	Expectations	representatives of the licensee and, as described in section 15 of the	from the requirement.		organization at many facilities that has been
	for	General Nuclear Safety and Control Regulations, inform the CNSC of the			in place for numerous years.
	operations	names and contact information of all personnel designated as			
	duty	operations duty managers"			Furthermore, it is unnecessary duplication of regulation and increased administrative
	managers	This is a new requirement; we do not consider Operations Duty			burden.
, I		Manager (ODM) or equivalent as representatives of the licence. The			burucii.

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		person who would oversee the day-to-day operations isn't necessarily			
		the same person who would be the representative of the licensee.			
		Furthermore, ODMs is not a defined position and may differ from			
		facility to facility, e.g., is it Shift Manager, Senior Operations Authority,			
		Operations Manager, etc. It would typically be a certified staff position. If certified, then these individuals are already regulated under the			
		more stringent certification requirements, and this is an unnecessary			
		duplication. Application of s.15 GNSCR is not necessary at this level of			
		the organization and is an administrative burden.			
10.	2.3.1	This section seems to combine the roles and responsibilities of several	Clearly define the responsibilities of the Operations Duty	MAJOR	This section has the potential to significantly
	Expectations	existing facility positions but does not align with the current	Manager, are they on an assigned shift? If they are on an		impact the current Operations
	for	organizational structure which makes this section unclear and	assigned shift, then remove the reference to them being on call		organizational structure of existing facilities
	operations	confusing. For example, is the Operations Duty Manger, the Shift	and having to arrive within a prescribed time.		as well as impede its implementation with
	duty	Manager on duty or perhaps the Station Director on call? It looks like			new facilities and technologies.
	managers	this section is intended to cover the Station Director on call, but there	If the Operations Duty Manager is the Station Director on call,		
		are conflicting inferences to this position being the Shift Manager or	then remove the reference to being on an assigned shift.		
		Shift Supervisor.	Secondly remove references to them overseeing the performance and supervision of the shift personnel.		
		Who is the Operations Duty Manager? As stated in the first paragraph,			
		it appears to be the most senior certified person on each duty shift, as	Change the wording from "Substantial experience in the		
		it states.	operation of the type of reactor" to "Substantial exposure to the		
			operation of the type of reactor or similar reactors".		
		The Requirements' section fourth paragraph makes it sound like the			
		Operations Duty Manager is not on duty shift, which conflicts with the			
		purpose of being the "Duty" manager.			
		As the industry in Canada is seeking new SMR technologies it would not be practical to have qualified duty managers with substantial			
		experience in the operation of the new type of reactor. Previous			
		experience on different reactor types should be considered.			
11.	2.3.2	The word 'change' in the first bullet of Guidance is not properly linked	Revise to:	Clarification	
	Operations	to Risk Informed Decision Making.	"determine if, and to what degree, the change consequences of		
	decision		the decision affects their licensing basis"		
	making	Third bullet of guidance: "Safety Margins" should be qualified with an	And		
		adjective that reflects an appropriate level.	"ensure that sufficient safety margins are maintained"		
L	1				

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		Opening sentence of requirement is missing a fundamental feature of	Revise to:	Clarification	
	facility	effective control i.e., maintaining situational awareness.	"The licensee shall establish and maintain provisions for		
	operations		situational awareness and facility status control"		
		Bullet #4 needs a clarifier given that 'testing' is a vague term.	And, revise bullet 4 to include:		
			"in process testing (e.g. sampling, verifying functionality and reliability)"		
13.	3.1.2 Heat	"For each heat sink, the licensee shall identify" speaks to an	Revise to:	Clarification	
	sink	engineering action rather than management of heat sinks during	"For each heat sink, the licensee shall identify: Operations and		
	management	facility operation. It should be written from an Operations point of	maintenance provisions, including back-out actions for planned		
		view to ensure safety.	operating evolutions, shall take due account of:		
			the required heat removal capacity		
			• the capability of the heat sink under normal operations the		
			conditions under which it is required to perform its function."		
			• the reliability of process equipment and backup equipment		
			to maintain capability and capacity		
			monitoring requirements		
1.4		Dediction fields are concredibly not writigated by DDF. Absorbing	operator actions in case of primary heat sink failure"	Clarification	
	3.1.3 Control of operator	Radiation fields are generally not mitigated by PPE. Absorption, inhalation, ingestion of radioactive <b>materials</b> are mitigated by PPE. This	Revise to: "increased radiation fields hazardous environments requiring	Clarification	
	challenges -	statement is enhanced if you change 'radiation fields' to 'hazardous	personal protective equipment (PPE)"		
	guidance	environments'			
15.	3.1.3 Control	Title of section has too narrow a scope. Should cover all operations and	Revise title to:	Clarification	
	of operator	maintenance personnel supporting the Operations Program.	"Control of challenges to Personnel Conducting Operational and		
	challenges		Maintenance Activities."		
16.	3.1.4 Shift	Last sentence of Requirements – it is not practical to independently	Suggest changing wording to:	Clarification	
	operations	verify all Operator actions. Operator actions may dictate concurrent	"Operator actions shall be independently verified, as		
		verification, independent verification, peer-check, or self-check, each	appropriate"		
		of which include checking to confirm it has been carried out correctly			
17	2.4.4.6.56	and the expected results are achieved.		Clavification	
	3.1.4 Shift operations	The entire section should reflect all of Operations under the Operating	Revise to:	Clarification	
	operations	Program and not just what operators do.	"The licensee shall ensure that on-shift <del>operators</del> operations		
		The second for the second for the second s	<i>personnel</i> can control and maintain the facility and its supporting		
		The paragraph "when a facility maneuver is carried out remotely" is	systems, both:"		
		written in a confusing fashion and is therefore not clear on intent. The point to be covered is: <b>Always verify that a field response reflects the</b>	Second paragraph of requirements, revise to:		
		point to be covered is. Always verify that a new response reflects the			

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		intent of an operational action at a control facility. An operational	"When a facility maneuver is carried out remotely by an operator		
		action can be carried out by an operator or when authorized by an	in the control room, the operator shall verify, by checking		
		operator. As a result, the text should be written more clearly.	relevant indicators, that the maneuver has been carried out		
			correctly and the expected results are achieved. Operator actions		
			shall be independently verified, as appropriate Any operational		
			action initiated by authorized personnel from a control panel,		
			whether in a control room or in a field location, shall be verified		
			to confirm the expected result of the intended action has been		
			carried out correctly and the expected results are achieved.		
			The use of independent verification of operational actions by		
			another qualified personnel shall be implemented when the		
			action is important to safety or security. "		
18.	3.1.4 Shift	"Operators should closely monitor important facility parameters	Monitoring will always be based on a graded approach and is	Clarification	
	operations		typically laid out in Operations Expectations. Suggest revising to:		
			"Operators should closely monitor important facility parameters		
			in accordance with the department expectations"		
19.	3.1.5	Minor clarification to reflect all Operations personnel and not just	Revise title to "Control Facilities and Equipment"	Clarification	
	Operations	operators.			
	control		Revise requirement to:		
	rooms and	Because this applies to conduct of operations and working conditions,	"The licensee shall ensure that control facilities and equipment		
	control	the requirement, should be more broadly written to address any	rooms provide adequate working conditions for the facility		
	equipment	control facilities and equipment commensurate with their importance	operators operations personnel to discharge their duties during		
		to safety and their associated mission time. It is important that this	all operational states. The licensee shall take appropriate		
		design requirement not stray into design-space as REGDOC 2.5.2	measures to ensure that <del>control room</del> human access (e.g.		
		already covers off <u>design</u> requirements for Main Control Room and	habitability) of control facilities is maintained assured,		
		Secondary/Backup Control Room. This equipment should already be	commensurate with the expected mission and safety importance		
		properly designed and verified against the safety case well before the	of the facilities and equipment, in accident conditions.		
		licence to operate phase.	Such facilities shall also, include provisions for protection of		
			personnel from identifiable hazards, and provisions for life		
			support and means to safely escape when the facility is no longer		
			safe.		

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			The licensee shall ensure that up-to-date operations <del>ng</del>		
			documentation is readily available to the <del>control room operators</del>		
			operations personnel."		
			Under Guidance, revise to:		
			"Up-to-date operating operations documentation includes all		
			information that is needed for responding to operational		
			transients, and to situations and events and conducting		
			maintenance necessary to maintain structures, systems and		
			components within their specified operational limits and conditions.		
20.	3.1.5	Some control rooms are not designed for all accident scenarios.	Revise to:	Clarification	
	Operations	Therefore, the statement should be changed to state that either the	"The licensee shall take appropriate measures to ensure that		
	control	MCR and SCA should be available for all accidents for	control room or Secondary Control Areas habitability is		
	rooms and	control/cool/contain functions.	maintained in accident conditions, including providing		
	control		protection from identifiable hazards, and provisions for life		
24	equipment		support."	Clasification	
21.	3.1.6 Secondary	This requirement needs to consider potential Security versus Safety	Revise to:	Clarification	
	control	issues. Security needs to prevent unauthorized persons from entering	"The licensee shall ensure that the secondary control room and		
	locations	secondary control facilities, but Operations Personnel need to be able	all other secondary (or backup) operational panels for systems		
		to access the facilities when required.	important to safety in secondary locations outside the control		
			room are accessible to authorized personnel in the required		
		This will become important in future facilities which may use electronic means to achieve security objectives.	timeframe as required by operations procedures and kept:"		
22.	3.1.6	Guidance examples regarding work control and the plan of the day do	Delete examples or revise examples to discuss normal	Clarification	
	Secondary	not pertain to the Secondary Control room/Area.	communications and emergency communication methods to		
	control		and from the SCA.		
	locations	Revise examples or alternatively remove guidance section as examples	"Some examples of communications lines are:		
		are not necessary.	•appropriate information is posted in the control room and in		
			the maintenance work control centre		
			•the "plan of the day" includes discussion of pertinent items		
			•when communicating by handheld radio, the field operators		
			and main control room operators ensure the transmissions are		
			<del>clear and concise</del>		
			•Communication between the MCR and SCA		

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			Communication between field operators and the SCA     Emergency communications between SCA and either     emergency response organization, other SCAs, field operators,     etc."	Clarification	
23.	3.1.7 Monitoring and alarm response	The requirement: "the facility information system is designed in a manner such that off-normal conditions are easily recognizable by the operators" is not appropriate for an operations program as written because the system is established during the design of the facility and would be subject to Human Factors Engineering verification and validation activities. Instead, the requirement should be written from the point of view of training/reinforcement of Operations Personnel. In other words, for new facilities, the licensee may work with their respective vendors to design a more effective one, but there always exists a possibility the licensee is stuck with the system they have installed. Therefore, the onus should be on training the operators on understanding their information system.	Revise to: "The licensee shall ensure that: •the alarms in the main control room are managed appropriately •the facility information system is designed in a manner such that off normal conditions are easily recognizable by the operators Operators are trained in recognizing off normal conditions from the information system" control room alarms are clearly prioritized for operator action	Clarification	
24.	3.1.7 Monitoring and alarm response	The guidance section: "The licensee should ensure that the control room contains a safety parameter display system (SPDS) that presents sufficient information on safety-critical parameters for the diagnosis and mitigation of design-basis accidents (DBAs). The licensee should ensure that operators actively monitor the state of the process and of the facility equipment." The inclusion of the SPDS is design related and not directly relevant to the scope of the document. SPDS should be used to support operations during accident conditions including DBAs and DECs. The second sentence of this paragraph should not confuse its use, or suggest its adequacy to support normal operations.	The document should not set expectations on availability of the SPDS: this is part of design and determined at the time of licensing. Seeking confirmation this is not intended to be a new requirement and existing facilities already meet the intent of SPDS requirement.	Clarification	
25.	3.1.8 Material conditions	Reference to locking and tagging isolation points is not clear. Is this a work protection clause or a position assured component clause? If work protection, point to CSA Z460 and change to align verbiage.	Clarify how the guidance supports this topic, as the guidance appears to be related more to plant status or worker protection. Guidance should support the ways in which housekeeping, and	Clarification	

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	and	If PSC or PAC, then make it clear.	plant material condition are monitored and maintained. This		
	housekeeping		should be clarified.		
			Revise to:		
			"The licensee shall implement and maintain provisions for		
			locking, tagging or otherwise securing isolation points for		
			systems or components. isolation, or isolation and de-		
			energization for systems or components undergoing maintenance by means of lock-out and tag-out in accordance		
			with CSA Z460."		
26.	3.1.8	Guidance examples of isolation points needs adjustment.	Revise to:	Clarification	
	Material	First bullet is not an SSC.	"Some examples of SSCs with isolation points are:		
	conditions	Second bullet describes a position of a device and not an SSC	• <del>isolations</del>		
	and	The next two bullets are examples of SSCs	•positions of motor-operated and manually operated valves		
	housekeeping		<ul> <li>trains of protection systems</li> </ul>		
		Change the first two examples to SSCs that are isolatable. Such as:	<ul> <li>electrical supplies to different systems"</li> </ul>		
		-Pumps			
		-electrical buses			
27	3.2.1	-heat exchangers		Clauification	
27.	3.2.1 Communicati	Effective human communication practices are more important than the equipment being used.	Revise to:	Clarification	
	ons	equipment being used.	"The licensee shall ensure that reliable communication		
	0113		equipment is available established to support activities in the		
			control room and throughout the facility for all modes of		
			operation."		
20	3.2.1	Concerding the avidence continue to refer to home or reference of the		Clarification	
28.		Generalize the guidance section to refer to human performance tools rather than just the 3-way communication tool. Also make a reference	Revise to: "The licensee should establish a process to ensure effective	Clarification	
	ons	to Section 3.2.5.	communications, including 3-way oral communications, using		
	0115		human performance tools for operational activities.		
			See Section 3.2.5."		
29.	3.2.3 Shift	Position of 'shift supervisor' should be changed to be more generic as	Revise to:	Clarification	
	turnover and	new facilities may have a different title for the role the shift supervisor	"The licensee should ensure that shift briefings are conducted in		
	briefings	performs in the Main Control Room.	such a way that the expectations and objectives of the shift		
			supervisor _supervisors responsible for the conduct of control		
		See comment #1.	room operations_are effectively communicated to, and		
			understood by, all of the staff under supervision."		

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30.	3.2.3 Shift	Shift turnover also includes turnovers by shift management,	Revise to:	MAJOR	The section of the draft REGDOC as written
	turnover and	maintenance, and where necessary, engineering and trades - not just	"The licensee shall establish processes for conducting a safe and		is not "Technology Neutral" and is a
	briefings	operators.	controlled transfer of responsibilities of Operations personnel between the operator shifts.		requirement that some licensees may not be able to meet causing them to be in non-
		See comment #1	Specific to plant Operators, the processes should include:		compliance with the REGDOC. For instance,
			<ul> <li>panel walkdowns, if so equipped, or review of necessary</li> </ul>		some facilities may not have panel boards or
			displays, screens, annunciators for example.		panels.
			• review of control room logs (operating logs; operator		
			records)		
			Review of systems or equipment undergoing maintenance		
			evolutions that are carrying over to the next shift		
			• checklists		
			<ul> <li>briefing of any operator challenges and deviations from normal operating conditions</li> </ul>		
			<ul> <li>verification that the minimum shift complement is met</li> </ul>		
			(see REGDOC-2.2.5, Minimum Staff Complement [22]")		
31.	3.2.4 Control	The term "control equipment room" is specific to CANDU stations and is	Revise to:	Clarification	
	room access	not necessary because the concept is already covered by: 'control	"The licensee shall ensure that access to the control room(s),		
		rooms, secondary control areas (where available) and areas containing	control equipment room, secondary control areas (where		
		sensitive instrumentation'.	available), and areas containing sensitive instrumentation is		
			limited and controlled. The licensee shall establish standards for		
		In addition, please refer to REGDOC 2.5.2 requirements concerning	safe and secure personnel behaviour <del>s</del> while in these areas."		
		secondary control areas and clarify, for any reactor facility covered by			
		REGDOC 2.3.4, whether the wording "where available" is appropriate.			
		Even SLOWPOKEs have areas in the plant with secondary buttons,			
		which qualifies as a secondary control area.			
		The behaviours of personnel should be aligned with safety and security objectives.			
32.	3.2.4 Control	In guidance, add transients to the list of examples.	Revise to:	Clarification	
	room access		"The licensee should ensure that access of non-shift personnel to		
			the main control room is restricted or minimized during shift		
			turnover, <u>transients</u> , infrequently performed tests or evolutions (IPTEs)."		
			OR		
			"Licensee should establish a set of rules for control room access		
			during normal and off-normal operation."		

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33.	3.2.5 Human Performance tools for operations	Human performance tools should be used as "error reduction" tools as they help to mitigate but not necessarily prevent all events. Thus, it is not realistic to use the term "event-free" as this is not always achievable and leads to a lack of reporting for fear of the pressures of "event free" expectations. "Conservative Decision Making "is not an HU Tool but rather an Operations Fundamental. Suggest replacing with "Self Check with Verbalization".	Revise to: "The licensee shall have a program for human performance tools that considers the roles and responsibilities of each user of the tool, at all levels of the organization. <b>Guidance</b> The licensee should ensure that human performance tools are effectively integrated into all ongoing operational processes. • Human performance tools are also referred to as error reduction event free tools. Some examples are: • pre-job briefing and post-job debriefing • conservative decision making-Self Check with Verbalization • questioning attitude • procedure use and adherence"	Clarification	
34.	3.2.6 Performance of activities that may affect operations	Does the first paragraph mean every time equipment is taken out of service, the Probabilistic Safety Analysis needs to be run?	Revise to: "The licensee shall assess all routine and non-routine activities, including maintenance, for potential impacts on the facility's operation. The assessments shall characterize impacts on operational margins predicted by the <del>deterministic</del> safety analysis <del>, on the probabilistic safety goals,</del> and on the hazards that may affect worker safety."	Clarification	
	3.3.1 Verification rounds	Example of boric acid is unclear - is that because there is a housekeeping issue (containers of chemicals), or are you referring to accumulation of chemical deposits in systems or on equipment due to leaks and evaporation?	Revise to: "deterioration in material conditions of any kind, corrosion, leakage from components, accumulation of chemicals <u>deposits</u> (for example, boric acid), excessive vibration, unfamiliar noise, inadequate labelling, foreign bodies, and deficiencies necessitating maintenance or other action"	Clarification	
36.	3.3.1 Verification rounds	The housekeeping example incorrectly describes steam barriers. Steam barriers/doors are part of the Environmental Qualification process and generally do not include large bay doors, or doors that only control access to hazardous areas.	Revise to: "posting and status of steam barriers (such as steam doors), large bay doors, or doors restricting access to potentially hazardous areas)"	Clarification	
37.	3.3.1 Verification rounds	Fire Resistant hydraulic fluid (FRF) is not part of fire protection but the example could lead the reader to believe it was put there on purpose. Leaks of FRF can lead to tripping hazards, negative environmental impacts, and pose a health hazard if inhaled, ingested, or absorbed through the skin which could complicate response to a fire.	Revise to: "deviations in fire protection, such as: •deterioration in fire protection systems and the status of fire doors •accumulations of materials that create fire hazards, such as wood, paper, refuse, and oil leakages	Clarification	

	Section	Industry issue	Suggested Change	MAJOR	Impact on industry
				or Classification	
			<ul> <li>industrial safety problems such as leaks of fire resistant hydraulic fluid, hazardous equipment, and slip and trip hazards"</li> </ul>	Clarification	
38.	3.3.3 Safety- critical and infrequently performed tests or evolutions (IPTE)	Notification to the CNSC prior to IPTEs is an additional requirement that increases administrative burden with no benefit to nuclear safety.	Remove: "The licensee should ensure the process includes informing the CNSC of planned IPTEs and special tests before the tests are conducted."	Clarification	
39.	4.2 Fuel management	The first bullet for the requirements of fuel management states that procedures are required for fuel 'control'. Further elaboration on the meaning of 'control' is required as this implies a security function to prevent the unauthorized movement or removal of nuclear material. Often 'control' is conflated with 'accounting' and these terms should be specified such that 'accounting' is not assumed to mean 'control' since accounting is a passive tracking of fuel defined by the designed fuel route and is performed following normal movements. 'Control' implies an active monitoring system of detection and restricted access. Deterrence and detection cannot be assumed for fuel accounting systems designed for recording operational fuel movements for business purposes including IAEA safeguards reporting. Control needs to be clearly separated from accounting such that assumptions are not made that accounting is equated with control. Apply the fuel control requirement as a distinct bullet.	Revise to: "The licensee shall have fuel specifications and procedures for the following fuel management tasks: • procurement, verification, receipt, and accounting • nuclear security measures to deter and detect unauthorized removal of nuclear material • storage in a sub-critical configuration • loading, utilization, and relocation • controlling deviations from procedures"	clarification	
40.	4.3 Fuel Management	Suggest that the concepts of out of core criticality provided in 4.5 should be merged in this section.		Clarification	
41.	5 Operating Procedures	"Operating procedures should include a level of approval for deviation from procedure. "	Remove: "Operating procedures should include 	Clarification	
		This statement implies each procedure should have this information. This exception for levels of deviation should be defined broadly for all	<i>level of approval for deviation from procedure</i> "     OR change sentence to:     " <i>level of approval for deviations from operating procedures should be defined in the management system</i> "		

	Section	Industry issue	Suggested Change	MAJOR or Clarification	Impact on industry
		procedures to ensure consistency in the event of exception change; not repeatedly in multiple procedures?			
42.	5.1 Operator aids	<ul> <li>Operator aids should not be discouraged - in fact they should be encouraged to reduce task complexity where appropriate.</li> <li>The use of operator aids should be controlled and made permanent. Understanding that operator aids may not be as detailed as an operating procedure, but there are benefits to using approved and tracked operator aids. Simplicity and ease of use increase compliance with procedural use and adherence.</li> <li>Examples include: <ul> <li>aids that point out how to interpret the expiry date of respirator cartridges</li> <li>radiation protection aids on how to use survey equipment or how to calibrate them</li> <li>sump pump out instructions for operators located at the local field panel.</li> </ul> </li> <li>An affixed aid reduces the reliance on paper procedures and reduces the production of waste (and radioactive waste for when procedures are used in contaminated areas)</li> <li>Provided the aid is approved, and reviewed at the same frequency as operating procedures, an aid should absolutely be used.</li> </ul>	Allow for and encourage the use of "Operator Aids" that are taken directly from operating documentation and placed in strategic locations, which will assist operators with simple and well-known repetitive tasks. Revise to: "The licensee shall have a clear operating policy to minimize control the use of, and reliance on, operator aids to ensure that use of informal and temporary aids are minimized and effective aids are incorporated into the facility configuration and procedures."	MAJOR	Operator aids can remove complexity from certain processes and complexity can lead to increased risk of human error. Tasks that are 'skill-of-the-trade' are also enhanced by operator aids.
43.	6.4	The title is too vague.	Revise to: "Review of external operating experience"	Clarification	
44.	7 Outage Management	Use of RSG and GSS terms may not be consistent across different tech- nologies. See comment #1.	Revise to: "The licensee shall ensure that: •reactivity of the reactor is controlled and monitored at all times throughout the outage •the reactor shutdown guarantees (RSGs) are maintained in an approved configuration to ensure guaranteed shutdown state (GSS) the reactor shall be maintained in approved Shutdown Configuration"	Clarification	
45.	8 Safe Operating Envelope	It is noted that there is a difference between the REGDOC 3.6 defini- tion for the Safe Operating Envelope referenced in the first paragraph and CSA N290.15:19 definition referenced in Guidance section.	Seeking clarification in which definition to use?	Clarification	

	Section	Industry issue	Suggested Change	MAJOR	Impact on industry
				or	
				Clarification	
		This may create confusion on which definition to refer to.			
46.	9.1 Response	The requirements should be kept to AOOs and design-basis accidents	Revise to:	MAJOR	Unreasonable expectation that will likely
	to accidents	and not include Beyond Design basis Accidents to align closer with	"Requirements		result in non-compliances.
	and	REGDOC 3.5.3.	The licensee shall develop procedures and guidelines for		
	anticipated		accidents and AOOs, including accidents more severe than		
	operational	Procedures and guidelines are developed for abnormal events that are	design-basis accidents. The procedures and guidelines shall		
	occurrences	reasonably postulated to occur, but it is not practical to develop,	identify:"		
		provide training and remain current in all permutations of possible beyond design-basis accidents.			
47.	9.2 Business	Business Continuity provides a framework for building organizational	Revise to:	MAJOR	This is an unreasonable expectation that will
	continuity	resilience and the capability for an effective business recovery in the	"Requirements		likely result in non-compliances.
	related to	event of a business interruption.	The licensee shall establish and implement provisions for		Requirements are also an unnecessary
	operations		business continuity related to operations programs. <del>The</del>		duplication of requirements from other
	programs	Some of the requirements and guidance listed are unnecessary and too	provisions shall include measures to ensure:		REGDOCs.
		specific to only certain areas of business continuity.	• safety of workers		
			access to the facility location		The requirements and guidance are specific
		It is not practical that time or the conditions of the specific scenario	reliability of the supply chain		to one area of business continuity and are
		will allow for actions to be taken prior to the start of all severe weather	continued safe operation		not applicable to all aspects of the program.
		events. For example, there is not enough advance warning to make these arrangements prior to a tornado, microbursts, etc.	Guidance		
		these arrangements prior to a tornado, microbursts, etc.	Provisions for business continuity related to operations programs		
		The guidance is also a duplication of REGDOC 2.2.5, Minimum Staff	may be accomplished through the licensee's business continuity		
		Complement, section 3.3 to have adequate plans in place for	planning documentation in their management system.		
		addressing short-term and long-term threats to the minimum staff			
		complement.	For access to the facility location, the licensee should ensure that		
			arrangements are in place to respond to a situation that may		
			cause difficulties for the outgoing shift staff in leaving the site, or		
			for the incoming shift staff in arriving at the site in a timely		
			manner; for example, severe weather conditions. Such		
			arrangements should include preparedness for the use of all		
			practicable means of transporting staff to and from the site, in		
			particular the means for transporting the incoming shift staff to		
			the site.		
			In the event of a severe weather incident, the licensee should		
			ensure that provisions exist to call extra staff before the severe		
			weather starts (so that staff can take turns to rest)."		

	Section	Industry issue	Suggested Change	MAJOR	Impact on industry
				or	
				Clarification	
48.	9.3 Return to	The requirement in the paragraph below is already a requirement of	Request clarification on the duplication of the requirement with	Clarification	
	safe	the licence – it is unclear if this requirement is meant to replace the	the existing licence condition?		
	operational	existing licence condition or the rationale for its repetition?			
	state	"When an event is determined to be a serious process failure or	Seeking further clarity on the basis for the 3-year frequency		
		where the determination as to the cause or to the extent of	including how the repeated occurrence relates to the		
		condition is inconclusive (that is, a serious process failure cannot be	unit/facility/licensee - if no basis then remove this requirement.		
		ruled out), the licensee shall submit a written request for approval			
		to restart the reactor."	Recommend any additional reporting requirements be captured		
			in REGDOC-3.1.1 not this REGDOC.		
		In the paragraph below, what is the basis for the new reporting			
		requirement and its 3-year period frequency – seems unnecessary as a			
		SPF can, and should be, addressed on a case-by-case basis via the			
		review for request for approval to restart?			
		"If more than 1 serious process failure occurs within a 3-year period,			
		the licensee shall submit a report to the Commission and the			
		Commission will make a decision on the ongoing status of the			
		reactor facility"			
		Does the occurrence of more than one SPF within a 3-year period refer			
		to the unit, station (licence), or licensee?			
		It is noted Serious Process Failure is not applicable to all facilities (e.g.,			
		non-NPPs, see comment #1).			