#	Document/ Excerpt of Section	Industry Issue	Suggested Change (if applicable)	Major Comment/ Request for Clarification	Impact on Industry, if major comment
1.	General	The timing of the proposed documents is premature because the new RP regulations have not been finalized. The stated purpose of the proposed documents is to "align with and provide relevant information to licences for meeting the new requirements resulting from the forthcoming amendments to the Radiation Protection Regulations." Since these have not been published, it is difficult to provide many specific comments on potential points that need clarification or further information in the proposed documents.	Industry suggests the CNSC defer the discussion on the proposed documents until the new RP regulations have been adopted.	MAJOR	Industry is unable to fully assess the potential impact of the documents because the revised RP regulations have not been published.
2.	General	There appear to be a number of new topics in the proposed documents, particularly proposed REGDOC-2.7.1 <i>Radiation</i> <i>Protection</i> , that do not relate to the regulations, but to the generic science of radiation protection. The need for a number of sections of REGDOC 2.7.1 is unclear. For example, the CNSC has stated it will not adopt the concept of Dose Constraint in DIS-13-01 :	Limit the scope of the documents to areas directly tied to the RP regulations.	MAJOR	As stated, the proposed content of REGDOC 2.7.1 could introduce a number of unnecessarily prescriptive practices that are not needed nor tied directly to implementing the radiation protection regulations.

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		Proposals to Amend the Radiation Protection Regulations. Given this, why is this section in the document? This reinforces industry's view that it is not possible to fully comment on this document because the revisions to the RP regulations have not been published. Other than the sections on exceedances of dose limits, it is not clear what would be covered in the section on radiation dose limits that wouldn't be covered in the regulations. Most of the sections of Control of Radiological Hazards are likely to be facility-specific and/or matters of general science. For example, shielding, ventilation, dust control, various types of monitoring and control, radiation protection equipment and			
3.	General	Instrumentation. The scope of the document is very large, especially when all additional regulatory documents referenced are considered. This makes it difficult to provide comprehensive and meaningful comments on	OPG seeks assurance that there will be extended discussion periods when the actual regulatory guides are developed, including workshops particularly for any new content.	MAJOR	The CNSC's expectations will create a resource burden for licensees who will find it difficult to provide needed resources to properly assess the large scope of the documents in a short period of time.

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		any concerns with these referenced documents. Despite this, the paper says the "CNSC would like to hear comments on the CNSC's assessment of each existing documentation for inclusion in the regulatory documents and the proposed updates").			
4.	General	Industry questions the fundamental benefit of consolidating these REGDOCs.	Rather than create two large REGDOCs, industry suggests they be divided into a series of smaller, more user-friendly documents, much like the CSA series of nuclear standards.	MAJOR	As stated earlier, this document is very broad in terms of content and scope. As a result, both guidance documents will be very large. Making changes to a 20-page document requires significant effort and time. By extension, documents of the breadth and size of the proposed documents will be a massive undertaking to update and keep current with evolving science and/or international recommendations. Consolidation runs the risk of creating documents that are so large they cannot be reviewed comprehensively and updated at sufficient intervals to be aligned with current best practices.
5.	Section 3.1, page 3	Under 'Changes to international benchmarks,' OPG has concerns with the line, "These revised international benchmarks need to be reflected in the Radiation Protection Regulations." This is particularly true with regard	OPG believes it is premature to adopt proposed dose of the eye limits until existing technical and operational issues are resolved. The CNSC is urged to implement regulations only when solid evidence is provided to support changes in the dose limits for lens of eye and approved methods for workplace monitoring and measurement of lens of eye dose are developed.	MAJOR	The Nuclear Regulatory Commission in the United States has not accepted the International Commission on Radiological Protection recommendation and will not be changing the dose limits to the lens of the eye. As such, it is too soon for the Canadian industry to adopt all of the proposed limits as written. For example, the instrumentation is not currently available

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		 to dose limits to the lens of the eye. As discussed with CNSC staff in August 2016, OPG believes it is too early to reduce the dose limit to the lens of the eye for the following reasons: There is no evidence of increased health impacts to Canadian nuclear energy workers. Research results have been inconclusive and contain large uncertainties at the very low exposure levels (0-1 Gy). The instrumentation is not currently available to measure lens of eye dose with any type of accuracy or precision in the power industry. 			to perform workplace monitoring and measure lens of eye dose with any type of accuracy or precision in the power industry. The substantial costs licensees would incur to measure and control the eye dose appear out of line with the detriment compared to other potential safety improvements.
6.	Section 3.2, Strengthening existing CNSC documents	Industry questions the value of introducing the concept of Dose Constraints for facilities that already use other internal limits such as Administrative Dose Limits, Exposure Control Levels and the Radiation Exposure Permit Limit. These limits are set below the Regulatory Limits.	The CNSC has recognized that licensee's RP programs are mature and well managed. There is no need to introduce dose constraints.	MAJOR	The introduction of dose constraints could lead to a significant administrative burden with questionable added value given the pre-existing internal dose limits in use at nuclear facilities.
7.	Section 3.2, Strengthening	It is not clear what the references for "current best		Clarification	

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	existing CNSC documents	practices" are for the development of meaningful action levels. How will CNSC staff determine current best practices?			
8.	Section 3.2 G-91, Ascertaining and Recording Radiation Doses to Individuals	Currently, G-91 provides sufficient guidance as well as flexibility to make decisions on a risk based approach that is appropriate for each site. It also acknowledges there needs to be some flexibility on reasonableness with regard to use of a dosimetry service for internal dosimetry. For implementation purposes, it is important for this flexibility to remain. OPG awaits further information regarding "additional guidance clarifying the interpretation of section 5 (e.g., "direct measurement" and "estimation") and section 8 (i.e., use of licensed dosimetry services) of the <i>Radiation Protection Regulations."</i>	If there are intended changes regarding how G-91 is applied then further discussions are required with industry.	Clarification	
9.	Section 3.2 G- 129: Keeping Radiation Exposure and Dose ALARA	The CNSC has stated it will not be introducing dose constraints into the RP regulations. Therefore, OPG does not believe dose restraints should be	 OPG recommends the document remain largely as is, though items that may strengthen it include: Introduction of the monetary cost per rem concept (for individual and collective dose); how it is derived and applied in dose optimization and cost-benefit analysis. Guidance on how to keep dose ALARA for different 	Clarification	

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		introduced into a regulatory guide document as a mandatory requirement. Beyond the comment above, this document currently provides good general guidance and framework for an ALARA program.	 phases of the plant, e.g. Commissioning, Operation, Decommissioning and Waste Management. Provide examples of what good looks like, including good and best practices. 		
10.	Section 3.2 General - G-147, Radiobioassay Protocols for Responding to Abnormal Intakes of Radionuclides	OPG awaits further information.	Provide additional information.	MAJOR	OPG will be better able to assess the impact of potential changes once a detailed draft is made available for comment.
11.	Section 3.2 GD- 150, Designing and Implementing a Bioassay program	OPG awaits further information.		MAJOR	OPG will be better able to assess the impact of potential changes once a detailed draft is made available for comment.
12.	Section 3.2 G- 218	G-218 is acceptable as currently written. It provides sufficient guidance along with the recognition that a Code of Practice can be quite site dependent. Specifically, it provides a well-worded summary of		Clarification	

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		action levels, including the recommendation they should be linked to effective dose as this is a useful indicator of a potential loss of control. If any additional detail or guidance is added, care must be taken to avoid reducing the flexibility in the existing text.			
13.	Section 3.2, G- 313 Radiation Safety Training Program for Workers Involved in Licensed Activities with Nuclear Substances and Radiation Devices and with Class II Nuclear Facilities and Prescribed Equipment	This has the potential to create confusion and duplication of information. OPG maintains both NSRD and /or Class II licences and its training programs include elements of the appropriate regulations and recommended training content.	Do not include G-313 in proposed REGDOC .This is covered under REGDOC-2.2.2 <i>Personnel Training</i> . It is suggested that using an Annex similar to what was done for the Workers Involved in Licensed Activities with Nuclear Substances and Radiation Devices, and with Class II Nuclear Facilities and Prescribed Equipment may be appropriate	MAJOR	Consolidating G-313 with REGDOC-2.2.2 will avoid confusion and duplication of information.
14.	Section 3.2, GD- 314, Radiation Protection Programs for the Transport of Nuclear Substances	OPG awaits further information.	Provide additional information.	Clarification	OPG may have comments when the draft changes are incorporated into the Packaging and Transport regulatory document.
15.	Section 3.2, RD- 58 Thyroid	OPG awaits further information.	Provide additional information.	MAJOR	OPG will be better able to assess the impact of potential changes once a detailed

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	Screening for Radioiodine				draft is made available for comment.
16.	Section 3.2, S-106, rev. 1, Technical and Quality Assurance Requirements for Dosimetry Services	OPG does not agree with the inclusion of this document in REGDOC-2.7.2 because S-106 is the license document for dosimetry lab licensees and is detailed, specific and focused on dosimetry labs. OPG does not feel it is appropriate for dosimetry labs to be audited against other elements of REGDOC 2.7.2 .	S-106 should be integrated into a separate REGDOC	MAJOR	Placing this QA document into a larger guidance document would impact the dosimetry licencing process and lead to potential confusion of requirements. S-106 would become applicable to companies who are not actually licensed operators under any additional regulations. Combining it with all other content listed in these documents would be difficult and confusing for those companies.
17.	S-106, rev. 1, Technical and Quality Assurance Requirements for Dosimetry Services	The proposed replacement for existing performance criteria: DIS 16-02 , does not specifically identify the document. When this paper says, "New performance criteria for bioassay have recently been published by the American National Standards Institute in 2011" is it referencing ANSI/HPS N13.30-2011 <i>Performance</i> <i>Criteria for</i> <i>Radiobioassay</i> ? If so, industry is concerned that adopting the ANSI standard would lead to additional administrative burden with no improvement to safety and quality.	It is strongly recommended that references and the basis of ANSI/HPS N13.30-2011 be scrutinized to prevent inadvertent consequences or to become incompatible with current accepted practices. Industry should be consulted to identify what problems are being solved.	MAJOR	There will be an administrative burden with no improvement to safety and quality if this standard is adopted. Depending on the extent that ANSI/HPS N13.30-2011 is to be followed, OPG will be better able to assess the impact of additional changes.

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18.	Section 3.2, S-106, rev. 1, Technical and Quality Assurance Requirements for Dosimetry Services	On page 6, this paper says, "clarifications regarding CNSC expectations with respect to quality assurance programs for licensed dosimetry programs are proposed to be included."	Industry requests guidance on how many missing dosimeter results constitute a test failure, as well as how to deal with cases where the group/ organization exposing dosimeters (or providing bioassay performance test samples) provide incorrect values.	Clarification	
19.	Section 3.2, S-106, rev. 1, Technical and Quality Assurance Requirements for Dosimetry Services	Some jurisdictions are moving towards implementing only one primary dosimeter, and it is electronic.	Include guidance for using electronic personal dosimeters as primary dosimeters for whole body, skin, extremity and lens of the eye.	MAJOR	There may be a benefit to having only one primary dosimeter that is electronic.
20.	Section 3.2, S-106, rev. 1, Technical and Quality Assurance Requirements for Dosimetry Services	Current OPG dosimetry service licence conditions specify that events which affect the reliability of dosimetry results obtained shall be reported.	Define what standard of reliability is expected in dosimetry service.	Clarification	
21.	Section 3.2, S-106, rev. 1, Technical and Quality Assurance Requirements for Dosimetry Services	Re Section 4.2.7.2: In OPG's experience, this particular test has been historically problematic to coordinate and evaluate. As a result, one has not taken place in more than five years.	Industry recommends eliminating this section from S-106 .	MAJOR	There will be an additional burden with no corresponding improvement to safety or quality.
22.	Section 3.2, S-106, rev. 1, Technical and Quality Assurance Requirements for Dosimetry	Industry will need to know the performance and type test criteria for lens of the eye dosimetry.	 Please address: What phantom to use (for a dosimeter specifically designed for the lens, a variant of the ORAMED cylindrical phantom is suggested, but for using existing WB TLDs, a 15 cm x 30 cm x 30 cm PMMA water-filled phantom is appropriate to minimize re- 	MAJOR	This will be required so licensees can either amend their dosimetry service licences or enable them to be smart buyers of these services.

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	Services		 doing type testing). What Dose Conversion Factors to use, for beta and photons, for the two phantoms. How to do beta type testing, when only the Beta Secondary Standard 2 (BSS2) Sr/Y-90 beta source is the only one available. Accuracy and precision specifications for lens dosimetry. Specific requirements for use of existing H_P(3) lens dose results from WB TLDs. 		
23.	Section 3.2, S-260, Making Changes to Dose-Related Information Filed With the National Dose Registry,	 The current version of S-260 treats all dose record changes as a dose correction. There is no provision for making changes that are purely of an administrative nature and should not require CNSC approval. These administrative changes include such things as: Wrong employer serial number Late submission/report Change to dose data as a result of error in quantities used to obtain analytical result (e.g. TLD ECC, calibration data) Correction made to a dose algorithm 	 Define what constitutes a dose correction. Add the concept of an administrative change that does not require CNSC approval. Remove CNSC authorization of dose corrections to the NDR for licenced facilities. Rephrase from worker approval to worker notification. 	MAJOR	There will be an additional burden with no corresponding improvement to safety or quality.

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		changes and not a dose			
		correction.			
24.	Section 3.2,	OPG supports a streamlined	Streamline the process to address "mass changes" to	Clarification	
	S-260, Making	process to address "mass	dose records.		
	Changes to	changes" to dose records.			
	Dose-Related	Currently, each dose record			
	Information Filed	change requires completion			
	With the National	of a CNSC Dose Information			
	Dose Registry,	Correction Form, which			
		requires CNSC approval to			
		doso proviously submitted to			
		NDR There is no provision			
		for processing large			
		numbers of dose			
		corrections, without use of			
		the form for each record.			
25.	Section 3.2. S-	Re Section B of the CNSC	Remove the requirement that workers must accept dose	Clarification	
	260, Making	Dose Information Change	record change.		
	Changes to	Request Form: This form			
	Dose-Related	requires the person to	Require workers to acknowledge being told record has		
	Information Filed	acknowledge and accept in	been changed and why.		
	With the National	writing that a change is			
	Dose Registry,	being made to their dose	The NDR should flag dose corrections in their system for		
		information filed in the NDR.	communication to the worker.		
		The form further requires			
		that Section B must be			
		completed before OPG may			
		submit the request. While			
		industry believes in the			
		necessity of notifying an			
		Individual that a correction			
		to their data filed in NDR			
		is yory difficult to comply			
		is very announ to comply			

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		 with this requirement when the person has left a facility and has not provided a forwarding address or contact or when the person is: A contractor to a facility and has left the site, Retired from a facility, or Deceased. Further, there is an implication that if the person does not accept the change, then the process ends and no change is made. Making this change will result in improved timeliness in processing dose corrections. 			
26.	Section 3.3, Improvement opportunities	The CNSC has identified a number of specific improvement opportunities, the first three of which relate more directly to radiation protection programs while the others relate to radiation dosimetry. As previously stated, the intent to combine all regulatory guidance into two documents may generate an exceedingly long document or omit significant relevant detail if the individual documents are shortened in the	Industry would like the CNSC to provide: examples where the proposed approach has worked well; more information regarding the standards or international guidance upon which they are based.	Clarification	

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		process. Another challenge with large documents is that their very size and wide range of topics make the revision process problematic.			
27.	Section 3.3, Improvement opportunities	All of the elements listed in this section may have an impact on OPG. See specifics in the comments below.	Where appropriate, it may be beneficial to identify an existing, recognized external standard and identify the extent to which licensees are expected to follow those documents. OPG also asks for guidance on using electronic personal dosimeters as primary dosimeters.	MAJOR	Any changes may require licence amendments and significant resource commitments with no corresponding improvement to safety or quality. OPG will be better able to assess the impact of potential changes once a detailed draft is made available for comment.
28.	Section 3.3 Radiation Protection program design and associated processes	Licensees have invested large amounts of time, expertise and experience to develop their RP programs. CNSC acceptance/ notification are required for key program documents. Revisions need to respect the maturity and robust design of the NPP programs and the safety culture that uses and depends upon them. Revisions must not impede the progressive changes to program design which allow refinement of their Nuclear Safety Culture. They must reflect the business need to align with CSA N286-12 . As an inclusion to REGDOC-2.7.1 , it should be	Any changes need to acknowledge that licensees have invested significant resources to develop mature RP programs that will need to evolve over time to align with other standards and refine their nuclear safety culture	MAJOR	Any changes may require licence amendments and significant resource commitments with no corresponding improvement to safety or quality. OPG will be better able to assess the impact of potential changes once a detailed draft is made available for comment.

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		as guidance only.			
29.	Section 3.3 Calibration and maintenance of radiation protection equipment	Technology in the radiation protection equipment area is developing quickly and regulators need to keep pace. Given the speed of technological advancements, licensees need the ability to develop acceptance criteria and adopt these unforeseen technologies.	Guidance is sought on the framework of acceptable processes including the following attributes: QA; use of secondary standards; frequencies.	MAJOR	Any changes may require licence amendments and significant resource commitments with no corresponding improvement to safety or quality. OPG will be better able to assess the impact of potential changes once a detailed draft is made available for comment.
30.	Section 3.3 Radiation dose rate and contam control program	Industry seeks guidance only that allows flexibility of application. NPPs already invest significant effort with CANDU owners, nuclear vendors and INPO/WANO to develop excellence in dose rate and contamination control.	Any changes need to acknowledge that licensees have invested significant resources to develop RP programs that are mature and already recognized as effective by the CNSC	MAJOR	Any changes may require licence amendments and significant resource commitments with no corresponding improvement to safety or quality. OPG will be better able to assess the impact of potential changes once a detailed draft is made available for comment.
31.	Section 3.3 Ascertaining radiation doses to workers, when no licenced dosimetry service is utilized	Maturity of existing programs should be recognized. The stations already have a requirement to know their source term, and should be considered a mature program. This program can be utilized to ascertain or estimate radiation doses to workers.	Define trivial dose (no further action required) and provide guidance on use for dose calculations. Industry recommends 1 mSv per year or less than 0.1 mSv per event.	MAJOR	Any changes may require licence amendments and significant resource commitments with no corresponding improvement to safety or quality. OPG will be better able to assess the impact of potential changes once a detailed draft is made available for comment
32.	Section 3.3 Use of monitoring results from direct reading	The guidance document should allow licensees to pursue use of direct reading dosimeters as licenced	The guidance document should allow licensees to pursue the use of electronic direct reading dosimeters as licenced dosimetry. A different set of standards/technical requirements (Specific section is REGDOC 2.7.2 as a	MAJOR	Resource savings could be realized by all facilities if electronic direct reading dosimeters as the dosimetry of record were recognized in the guidance documents.

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	dosimeters	dosimetry.	licenced dosimeter) will be required for the acceptance of electronic direct reading dosimeters.		Electronic direct reading dosimeters are one of the industry's improvements in the last 15 years. They are as reliable as older types of dosimeters and can measure the required dose quantities. However, to date, no NPP has implemented this advancement in technology as licenced dosimetry.
33.	Section 3.3 Dose calculation methods for skin contamination, multiple badging and non- uniform exposures	NPPs are rarely limited by skin dose limits given the protections used when conducting work. Thus, unlicenced dosimetry should be considered. Using available reference material, simple field instruments should be permitted to give initial dose estimates. And, similar to derived activities for internal dosimetry, combinations of field instrument results and exposure times should be used to determine if further dose investigation is required.	Guidance is sought on what would constitute unlicenced dosimetry for these situations. Criteria for current multiple badging should remain unchanged.	Clarification	
34.	Section 3.3 Radionuclide- specific methods for internal dosimetry (for example, dose assessments for transuranics, uranium compounds, and tritium)	OPG does not concur with radionuclide-specific methods detailed in a guidance document. The pressure to measure for trivial hazards will increase.	It is the licensee's responsibility to define the hazards and provide adequate dosimetry for them. The guidance document should, at a high level, detail these dosimetry requirements. Some improvements could be made to the dosimetry methods mentioned in guidance documents. Ratio analysis is not covered, whereby hard-to-detect nuclide dose can be computed from known ratios to indicator nuclides.	MAJOR	Any changes may require licence amendments and significant resource commitments with no corresponding improvement to safety or quality. OPG will be better able to assess the impact of potential changes once a detailed draft is made available for comment.

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35.	Section 3.3 Ascertaining the equivalent dose to the lens of the eye	Clear language is needed to allow the licensee to correctly determine the required dosimetry protocols. Clear methods of calculation are desirable in tabular format to provide clear go/no-go criteria for selection of estimates or direct measurements requirements (align with table 1 of CNSC e Doc:4894468)	A graduated response is necessary for hard-to-detect nuclides since it's not reasonably likely for exposures over 1mSv/annum to occur. Personal Air sampling is the easiest technique to screen for intakes of TRU. The field of internal dosimetry for TRU is too complicated for a regulatory document. High level guidance based on a graduated response similar to other internal hazards should be considered, but this document should not delve too deeply into internal dosimetry considerations. This is not done for other readily available nuclides, (Cobalt, Zirconium) and should not be specified here. Any internal dosimetry section should be able to encompass all nuclides of concern. At best, some distinction for radiation types which drive appropriate analytical types can be made. Line 4 of table 1 of eDoc:4894468 might imply that estimates or computations of Hp(3) using Hp(10) and Hp(07) might be acceptable. Line 9 suggests that direct measurements will be mandated for beta if there is energetic beta, safety glasses but no further protections. This intent needs to be clarified. Provide standards for protective eye wear for prevention of lens of eye dose.	MAJOR	The language chosen for the document estimate vs direct measurement has a significant impact on resource and implementation cost. Estimating from available dosimetry systems would minimize the costs of implementation. Direct measurement would be very costly to implement. The determination of which is acceptable must be very clear so the additional costs are justified.
36.	Section 3.3 Methods for monitoring neutron	Neutron dose is difficult to accurately measure in fields with 7 decade spectrums. Industry has few options.	Clear guidance on acceptable protocols for use-of-stay times, survey meters or personal dosimeters is required.	MAJOR	Neutron dosimetry is difficult for full spectrum fields. Currently, licenced dosimetry is a snoopy which cannot be worn as a personal dosimeter. Thus, it is

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	dosimetry				overly conservatively placed in the high dose area while work is ongoing. Leading industry-provided dosimeters have response deficiencies to a full spectrum. Industry could use guidance for use of dose ratios applied to dosimeters to account for dose not observed by a dosimeter, but can be shown to be proportional to the observed response.
37.	Section 3.3 Use of radiation personal protective equipment and respiratory protection	Choice and selection of RP personal protective equipment and respiratory protection needs to be guidance only and give licensees the flexibility to meet work requirements and adopt/develop new equipment. If equipment or protections provided to workers reduce the dose estimates to less than trivial dose levels, dosimetry is not required unless those protections fail. Current guidelines state that dosimetry is recommended if respiratory protection is worn to protect a worker against a given hazard. The term 'recommended' is too restrictive. If it can be demonstrated that the exposure to the worker is	Clarification is requested in that if a-priori dose estimates indicated worker exposure to less than trivial levels, no dosimetry is required unless protections fail.	MAJOR	Any changes may require licence amendments and significant resource commitments with no corresponding improvement to safety or quality. OPG will be better able to assess the impact of potential changes once a detailed draft is made available for comment.

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		less than trivial values, it is not ALARA to go further with dosimetry unless those protections fail.			
38.	Section 3.3	Thoughts on additional guidance	Industry requests guidance on how to ascertain eye dose for workers originating from other countries that are not required to adhere to the lens of eye dosimetry requirements. It is believed the USA and other countries may not implement the new lens of eye dosimetry limits, which would imply that workers who have worked in those countries will not have lens of eye dose on their dose records.	Clarification	
39.	Section 4.1 General	There is significant danger of 'scope creep' in the inclusion of existing regulatory documents with clearly defined scopes, e.g. G-313, into a common document with potential applicability across all licensees. Applicability of each section may not be consistent across industries and licensees, resulting in confusion. Also, if documents such as RD/GD- 369 continue to exist, there will be redundant information and potential confusion since two documents will provide guidance on the same thing. Some of the proposed new content and referenced documents for inclusion are	Provide a scope of applicability (i.e. to whom does the section apply) before each section in the REGDOC	MAJOR	This may lead to confusion. Any changes may also require licence amendments and significant resource commitments with no corresponding improvement to safety or quality. OPG will be better able to assess the impact of potential changes once a detailed draft is made available for comment.

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		not applicable across all licensees. For example, G - 313 , thyroid screening, training, etc. How is content from this regulatory guide to be applied to all licensees if they do not all have the same risks and or requirements?			
40.	Section 4.1 General	S-106 is applicable to companies who are not actually licensed operators under any additional regulations. Combining it with the other content listed in these documents would be difficult and confusing for these companies. As such, this document should remain separate from the proposed regulatory guidance.	S-106 should remain a separate document.		
41.	Section 4.1 Content from G- 129, rev. 1 will be adopted & refined to provide guidance on the framework for radiation protection including the application of the ALARA principle	Additional guidance and definitions are required.	A definition of trivial dose, i.e. dose at which further RP efforts are not required is requested. Maintain the management commitment statements which translate into effective action.	MAJOR	Significant station resources are spent considering trivial doses. If there were hard guidelines stating these values, once that level is achieved, efforts at further protections could be put to more productive use.

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42.	Section 4.1 Content from G- 313 on categories of workers and corresponding radiation protection training topic areas (skills and knowledge) will be adopted and refined	This has the potential to create confusion and duplication of information. OPG maintains both NSRD and /or Class II licences and its training programs include elements of the appropriate regulations and recommended training content.	Do not include G-313 in proposed REGDOC .This is covered under REGDOC-2.2.2 <i>Personnel Training</i> . It is suggested that using an Annex similar to what was done for the Workers Involved in Licensed Activities with Nuclear Substances and Radiation Devices, and with Class II Nuclear Facilities and Prescribed Equipment may be appropriate.	MAJOR	Consolidating G-313 with REGDOC-2.2.2 will avoid confusion and duplication of information.
43.	Section 4.1 CNSC guidance for principles of worker dose control will be established and aligned with CNSC's G-91, RD-58, G-121, G- 147, G-150, and RD/GD-369 (section 11)	Better definitions sought.	Define trivial dose (no further action required) and provide guidance on use for dose calculations. OPG recommends 1 mSv per year or less than 0.1 mSv per event. Define "component" in G-91 table in section 7.	Clarification	

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44.	Section 4.1 Thoughts on additional guidance	Consider alignment with CSA N286-12, Management System requirements for nuclear facilities		Clarification	
45.	Section 4.1 Content from G-91 will include the interpretation of section 5 of the Radiation Protection Regulations (e.g. "direct measurement" and "estimation"), and section 8 of the Radiation Protection Regulations (wher a licensed dosimetry service must be used to ascertain workers' doses)	OPG agrees with integrating the document if it is maintained in its entirety	If there are intended changes regarding how G-91 is applied, then further discussions are required with industry.	Clarification	
46.	Section 4.1	G-147	G-147	MAJOR	G-147
	Guidance on ascertaining	1. Ascertaining of dose, dose interpretation as it	1. A table with these various levels, (dose from special, dose from routine) above and below MRD, and derived		 NPPs maintain a source term characterization that produces actual
	doses from	pertains to assignable	activities as well as actions and required NDR reporting		ratios of all nuclides to each other in
	Intakes of radionuclides	aose, or aose below the	Would Clarify These Issues.		different areas of the plant. Ce144 is
	will be aligned	dose or below the	source term ratios to other, easily identifiable nuclides		found in these surveys. More useful

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	with GD-150 and G-147	 derived activities, to be clarified. 2. The specific mention of Ce144 is difficult to achieve in practice. There are other nuclides which are more readily detectable by commercially field instrumentation (Nal based) and have higher fission yields (Zirconium, Cesium). Ce144 gamma emissions are below manufacturer's specified detection capabilities for many Nal based in-vivo counting systems. With the low to no dose assignments estimates for WBC, resource commitments to move to more sensitive/expensive instrumentation does not meet G91 ALARA principles. 3. Common terminology 	 which may be in the source term. 3. As far as common terminology, section 4.3 could be aligned better with GD-150 and the use of derived activities which drives facility response based on bioassay results. 		 nuclide and the concept of indicator nuclides and known source term ratios would better serve the NPP industry. Use of derived activities for all internal dosimetry is ALARA and would be of benefit to the NPP industry. Derived activities shows true understanding of internal dosimetry. Routine sampling does not know the date of intake, and derived activities take this into consideration. A positive sample does not automatically result in dose assignment because if the intake occurred recently compared to sample submission, the dose is small to trivial. The derived activity protocol as defined in GD-150 then collects a second sample. If the intake was worthy of dose computation and assignment, it will still be observable in the second sample. If the intake was recent compared to the first sample, the second will not likely detect it given the intervening time between samples. This is especially of use for fecal sampling when the periods of intake concern may extend over many months. For low intakes the bioassay sample quickly falls to less than detection limits. For larger intakes, it will be observable for many months.
		GD-150	GD-150	MAJOR	GD-150
		Industry seeks clarity on	Clear language and limits are required for:		• The section on of derived activities is
		language and limits for a	• Routine bioassay samples are submitted on a set		found to be a good ALARA practice. It
		number of items in this	frequency. They are intended to be set for workers		drives appropriate station response
		guidance document.	who are possibly exposed to internal radiation		based on bioassay findings. It reflects a

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			 hazards. They can be analyzed by licenced or unlicenced laboratories. Screening bioassay samples use protocols which may not meet the 1 mSv per year or 0.1 mSv per infrequent event, but the licensee has demonstrated that such exposures are not reasonably probable. Licenced dosimetry is a statement of quality assurance of the laboratory. Licenced dosimetry is to be used if the anticipated hazard will expose the worker to more than 5 mSv, or 1 mSv if there are combinations of hazards which may expose the worker to more than 5 mSv. Unlicenced dosimetry services do not need to demonstrate the quality assurance as required for licenced dosimetry. Dose Estimate is a preliminary calculation of the dose to a worker in an actual or theoretical scenario. If the estimate is below threshold levels, no further refinement or protections are required. The threshold levels are to be tied to 1 mSv/annum. Estimates can be reported to the NDR as dose records. Ascertaining dose is a methodology to calculate a dose which will be reported to the national Dose Registry. It is to be performed by qualified individuals using approved protocols. The protocols may or may not be considered licenced dosimetry. Reportable doses are those required to be sent to the National Dose Registry. They may come from licenced or unlicenced protocols. All dose estimates over 1 mSv per year must be considered reportable doses. Trivial dose is a dose, possibly from an estimate which warrants no further consideration. This is taken to be 0.15 mSv per event or 1 mSv per annum. The application of this is varied but could include items such as the GD-150 recommendation for bioassay samples 		good understanding of internal dosimetry specifically excretion characteristics. For example real significant intakes are observable many months after exposure. Routine samples do not know the intake date. To find out the station response to a sample over the DA is to obtain another sample. This involves a time delay. For a real significant intake, this sample too will be positive. If the intake was recent, then it will not be observable, the dose is small (trivial?) and no further action including non-reporting to the NDR is appropriate.

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			 if PPE is worn to protect against a hazard. If the PPE reduces the dose estimate to less than trivial levels, then no bioassay is recommended (unless the PPE fails). Reasonably probable is a professional judgement that a given event could occur in a given time frame. Historical or mathematical arguments can be used for this determination. For routine sampling considerations, this could be considered annually for example. If an event does not occur in a given year with many challenges to that event occurring, it should be considered not reasonably probable. For example if no dose has been assigned via a methodology type which has a routine frequency by many workers, exposure to that hazard is not reasonably probable, and the dosimetry should be unlicenced and or reduced from routine to screening at best. Maintain the preference for PAS for the screening of intakes. Fecal is not appropriate for screening. Could expand definition of what screening implies, where it can be used and dose response if positive. Screening is useful when anticipated dose is < 1 mSv/annum or 0.1 mSv per infrequent event. Licenced screening methods are not required (though they can be used) 		
47.	Section 4.1 S-106 Rev. 1 will be incorporated, with changes reflecting the updates described in section 3.2 of the discussion paper	OPG does not agree with the inclusion of this document in REGDOC-2.7.2 because S-106 is the license document for dosimetry lab licensees and is detailed, specific and focused on dosimetry labs. OPG does not feel it is appropriate for dosimetry labs to be audited against	S-106 should be integrated into a separate REGDOC. Industry also recommends strongly that references and the basis of ANSI/HPS N13.30-2011 be scrutinized to prevent inadvertent consequences or to become incompatible with current accepted practices. Industry should be consulted to identify what problems are being solved.	MAJOR	There will be an administrative burden with no improvement to safety and quality if this standard is adopted Placing this QA document into a larger guidance document would impact the dosimetry licencing process and lead to potential confusion of requirements.S-106 would become applicable to companies who are not actually licensed operators under any additional regulations.

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		other elements of REGDOC 2.7.2. Also, the proposed replacement for existing performance criteria: DIS 16-02, does not specifically identify the document. When this paper says, "New performance criteria for bioassay have recently been published by the American National Standards Institute in 2011" is it referencing ANSI/HPS N13.30-2011 <i>Performance Criteria for</i> <i>Radiobioassay</i> ? If so, industry is concerned that adopting the ANSI standard would lead to additional administrative burden with no improvement to safety and quality.			Combining it with all other content listed in these documents would be difficult and confusing for those companies. Depending on the extent that ANSI/HPS N13.30-2011 is to be followed, OPG will be better able to assess the impact of additional changes.
48.	Section 4.1 Thoughts on additional Guidance	Consider alignment with CSA N286-12, Management Systems requirements for nuclear facilities.			
49.	Section 4.2 – New Content	Under new content, the first bullet suggests the use of licensed dosimetry services for annual doses to extremities greater than 50 mSv. This is acceptable to			

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		OPG.			
50.	Section 4.2 –	Regarding the second bullet, the current proposal for the new RPRs specifies a fixed 5-year dosimetry period. OPG suggests users also be allowed to use a 5- year rolling average dose to determine compliance with dose limits.			
51.	Section 4.2 – New Content	Please provide a definition of the hands and feet, otherwise known as extremities.	In the past (circa 1997), extremities included the elbows and knees (see ANS/HPS N13.41 (1997)). Current thinking does not include the elbows and knees (see ANS/HPS N13.41 (2011)).	Clarification	
52.	Section 4.2 – New Content	OPG supports limiting intakes to infants from breast feeding parents.			
53.	Section 4.2 – New Content	What is being included in radiation protection equipment and instrumentation? Other than the requirements for the annual calibration of radiation instruments, the current regulations are vague on requirements.	Define what is being included in radiation protection equipment and instrumentation. Requirements added over and above what is currently in the Regulations could potentially have a significant impact on the radiation instrument laboratory and its current processes.	MAJOR	OPG will be better able to assess the impact of potential changes once a detailed draft is made available for comment.
54.	Section 4.2 – New Content	The latest ICRP recommendations (ICRP 103, OIR, and associated documents) might be considered by the CNSC for adoption in Canada. Before we adopt them, we need to understand their	OPG requires that it be consulted prior to consideration of the latest ICRP.	MAJOR	Implementation of the new/revised dosimetry regulatory documents with recommendations for the use of revised ICRP dosimetric and biokinetic models as presented in the ICRP OIR series of documents will have significant impact on Industry's licenced internal dosimetry services. Industry's internal dosimetry

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		implications. Any discrepancy or misalignment between the new regulatory document and the ICRP recommendations may result in regulatory requirements that may not be technically sound. The impact of such situations on industry is difficult to assess at this point, but it is clearly not desirable for such discrepancies to exist.			program and its technical basis document was developed using IMBA (Integrated Modules for Bioassay Analysis) Professional software, which is based on dosimetric and biokinetic models as per recommendations in ICRP60 publication. With the CNSC recommendation for use of the latest ICRP dosimetric and biokinetic models as presented in the ICRP103 publication, industry will be required to re- model its current internal dosimetry program and technical basis document to conform to the new models. ICRP dosimetric and biokinetic models are relatively complex mathematical compartmental models and require sophisticated software to complete the calculations. Industry will be required to find and purchase software, which would incorporate the latest ICRP dosimetric and biokinetic models. This poses a significant challenge that cannot be addressed until the updated software can be obtained. If adopted following consultation with industry, licensees request the CNSC allocate an adequate amount of time to implement and comply with the revised dosimetry regulatory documents.
55.	Section 4.2 – New Content	It was noted that neutron and eye dosimetry were listed in topics under New Content in the discussion paper, but do not appear to be covered in the table of	OPG notes the CNSC has issued a separate technical document on eye dosimetry. As this is a dynamic area, both from a scientific and licensing perspective, it is recommended this topic not be incorporated into this guidance until it is more stable.	MAJOR	Any changes may require licence amendments and significant resource commitments with no corresponding improvement to safety or quality. OPG will be better able to assess the impact of potential changes once a detailed draft is

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		contents of either proposed			made available for comment.
		guidance document.			
56.	Section 4.2,	Technology of RP		Clarification	
	Provide	instruments is rapidly			
	guidance for	developing, some of it			
	new .	unforeseen. Any guidance			
	requirements	needs to allow these			
	stemming from	improvements to be			
	the amendments	engaged within a managed			
	to the Radiation	It will be difficult to include			
	Protection	It will be difficult to include			
	Regulations.	an or the relevant guidance			
		radiation protection			
		aquipment and			
		instrumentation Perhaps			
		this aspect could be			
		separated from the			
		proposed new document			
		and issued as a stand-alone			
		quidance document			
		(considering that CNSC staff			
		previously compared the			
		proposed requirements to			
		those outlined in the IAEA			
		Safety Series Report			
		No.16).			
57.	Section 4.2	As discussed with CNSC	OPG believes it is premature to adopt proposed dose of	MAJOR	The substantial costs licensees would incur
	Provide	staff in August 2016, OPG	the eye limits until the existing technical and operational		to measure and control the eye dose
	guidance for	believes strongly that it is	issues are resolved. Clear direction on expectations will		appear out of line with the detriment
	ascertaining and	too early to reduce the dose	eventually be needed. What is the process to evaluate		compared to other potential safety
	recording the	limit to the lens of the eye	this? Provide criteria at which estimates are acceptable.		improvements. There would be a large
	equivalent dose	for the following reasons:	If estimates are low enough, is there a trivial dose		variation in implementation costs depending
	to the lens of the	- There is no evidence of	whereby further considerations and protections are not		on the language chosen in the guidance
	eye and methods	increased health impacts to	required? What doses are sent to the NDR? What		document, estimate vs direct measurement.
	to afford worker	Canadian nuclear energy	methods for estimates are acceptable; is a skin dose		

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	protection with regard to the lens of the eye	 workers. Research results have inconclusive and large uncertainties at the very low exposure levels (0-1 Gy) The instrumentation is not currently available to measure lens of eye dose with any type of accuracy or precision in the power industry. Lens of eye dosimetry, if fully developed, might render the requirement for whole body dosimetry redundant. Eye dose is everywhere and always more than whole body dose, and if the same dose limits apply, eye dose therefore would become the limiting dose for the human person. 	reading from the head location acceptable and up to what dose? OPG also requests language which would permit the application of eye dosimetry to be pinpointed to only those workers who may have eye dose greater than whole body dose. Provisions are needed to drop whole body dose monitoring if lens of eye dosimetry is implemented.		
58.	Section 4.2, Provide guidance for principles of radiological hazard control	Licensees have mature programs developed with the CNSC and industry peers. NPPs need to have flexibility to design controls based on work to support their ALARA principles.	Provide high level guidance only		
59.	Section 4.2 Provide guidance on methods for	Accurate neutron dosimetry is still a challenge to the NPP industry. Current practice of ascertaining	Clarification is required for whether personal neutron dosimeters are permitted in S-106 . If there are intended changes, then further discussions are required with industry.	Clarification	

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	monitoring for neutron exposures	neutron dose is the use of stay times and pre- determined dose rates. This			
		approach is acceptable because the neutron dose rates do not change over			
60.	Section 4.2 Provide guidance on ascertaining the equivalent dose to the skin as a result of nuclear substances deposited on or absorbed in the skin (i.e. skin contamination)	Guidance is needed. It must be a graduated response, with low level dose estimations first coming from field instrumentation possibly in the form of CPM by a pancake. This can then be graduated based on defined dose estimates to nuclide identification, specific shielding calculations etc. What are the exact NDR reporting criteria? Consideration should be			
		given for available software to perform dose calculations.			
61.	Section 4.2, page 9	What standards or international guidance is the proposed guidance on monitoring for neutron exposures and wearing of multiple badges based?		Clarification	
62.	Section 4.2, page 9	What are the certain dosimetry types not typically part of a licensed dosimetry service?		Clarification	

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63.	Section.5.1, Operational and administrative burden	REGDOC-2.7.2, <i>Dosimetry</i> For the QA requirements, define an equivalency statement to align with existing standards (e.g., ISO 17025)		Clarification	
64.	Section 5.1/6.0	While it is impossible to accurately assess the operational and/or administrative burden without clarification on some of the points expressed in these comments, industry believes they would be significant. OPG will only be able to ascertain the full cost when the CNSC distributes draft version(s) of the new document(s) for review and comment.	Industry recommends updating the existing regulatory and guidance documents. Consolidation of these documents will add little value and result in a significant amount of re- work and administrative updates to licensee's governance. Further, adding new requirements to a regulation makes it legally binding, while updating a regulatory guidance document makes it legally binding document only for those licenses in which it is referenced.	MAJOR	Industry has a mature program developed with the CNSC and industry peers. Any change will have a significant administrative impact just to respond to the change. Operational burden can't be determined due to the breadth of the proposals. Implementation challenges would include documentation changes and change management as well as potential requirement to purchase new equipment. The true impact is impossible to assess at this stage of the consultation process.
65.	Section 6, Implementation Challenges with REGDOC-2.7.2, Dosimetry	Creating an all-inclusive REGDOC for dosimetry is neither practical nor appropriate. Consolidation runs the risk of creating documents that are so large they cannot be reviewed comprehensively and updated at sufficient intervals to be aligned with current best practices. As detailed earlier, there would also be significant challenges to implement specific items such as eye dosimetry. It is simply too	Undertake proper R&D and technical basis development before making changes.	MAJOR	The substantial costs licensees would incur to measure and control the eye dose appear out of line with the detriment compared to other potential safety improvements. The reduction of relative effective dose a worker can receive because they are now limited by eye dose as soon as there is an uneven dose exposure to the head could be significant for NPPs. For example, current planning for refurbishments/Major Component Replacements (MCR) will require significant work in areas where uneven exposures will occur. As a result, more workers will be required to complete the work because of the relative lowering of

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		soon to impose changes at a time when there is no method of measuring accurately or any proven, licenced technology.			the effective dose a worker can receive due to uneven exposure. There will be significant start-up costs if new dosimetry systems are to be specified, designed, type tested, tested, and implemented. All procedures relative to ALARA and work planning will require revision. Training will require revision. Software will have to be revised to include data fields for lens of eye dosimetry. The National Dose Registry will also have to revise its data handling protocols to receive new lens of eye dosimetry fields.
66.	Section 7	REDOC- 2.7.2 Dosimetry Proposed Table of contents	Under "Requirements for Licenced Dosimetry Services, external radiation" – add new section for Dose Control Devices (DCD's.)		
67.	Appendix A	 All of the following proposed new elements will have an impact on OPG: Justification, Limitation, Optimization, and dose constraints. As stated above, there are many different opinions on how to implement the concept of dose constraint. This would lead to significant administrative burden to demonstrate regulatory compliance. 	If there are intended changes then further discussions are required with industry.	MAJOR	OPG will be better able to assess the impact of potential changes once a detailed draft is made available for comment.

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		Radiation Protection			
		Training and			
		Qualification			
		Training requirements			
		for Class II and NSRD			
		licences should be			
		included in their			
		respective Regulations.			
		Adding them to this			
		with OPCs Systematic			
		Approach to Training			
		(SAT) requirements for			
		its Class Loperating			
		licenses.			
		Radiological personal			
		protective equipment.			
		What new requirements			
		will be added regarding			
		RPPE, as the current			
		regulations and			
		regulatory documents			
		provide minimal			
		guidance on their use?			
		 Respiratory protection 			
		for airborne nuclear			
		substances.			
		Respiratory protection is			
		generally addressed by			
		meeting CSA			
		there he now			
		roquiromente? Design			
		features / engineered			
		controls for radiation			

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		protection (shielding,			
		ventilation, dust			
		control). Will the CNSC			
		requirements over and			
		above what has			
		currently been			
		accepted? If so, the			
		changes could			
		introduce significant			
		monetary burdens upon			
		licensees.			
		 Classification of Areas 			
		and Access Control.			
		The requirements			
		Classification and			
		Access control has			
		historically been set by			
		Retection programs			
		This should be left as			
		such as changes to			
		engineered systems are			
		cost intensive.			
		Labelling of			
		containers and			
		devices containing			
		nuclear substances			
		The requirement for			
		labelling containers and			
		devices in the RPRs			
		conflicts with the			
		requirements in the			
		NSRD regulations. An			
		exception should be			
		added to not require			

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		 labelling on containers or devices that are exempt under the NSRD regulations (e.g. a radium watch). Radiation protection equipment and instrumentation. Depending on what is meant by RP equipment and instrumentation, this could introduce a significant regulatory burden on licensees (e.g. decontamination kits or chemistry stack monitors being considered radiation protection equipment). Clearance of persons and materials from regulatory control. This heading is not addressed in the discussion paper, but could introduce a significant impact on current industry programs. 			