Michelle DeBose - Updated Issues Matrix

From:"Brian Gutherman" <bgutherman@acines.com>To:"Meraj Rahimi'' <MXR2@nrc.gov>Date:09/22/2006 1:50 PMSubject:Updated Issues Matrix

Meraj,

Attached is an issues matrix updated to include the 9th Circuit Court Diablo Canyon ISFSI issue.

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ISSUE NO.	PRIORITY	STATUS	ISSUE DESCRIPTION	REMARKS	ACTION	DSTF LEAD
1	Н	Open (Tracking)	Criticality Control (RIS 2005-05): Part 50 and Part 72 requirements apply during cask loading in pool. Requirements overlap and NRC (NRR and SFPO) burnup credit methods are not consistent. NRC requesting LARs from all affected plants as interim compliance measure.	Meeting held 11/10/05 between NRC and industry. Industry requested NRC to re- look at interim solutions involving no TS or enforcement discretion.	50.68 rulemaking in progress. Presented to ACRS 9/7/06. Expect FR notice for direct-final rule 4Q '06.	Gutherman
la	М	Open	Criticality Accident Requirements: §72.124(c): Regulations provide exemptions from monitoring when fuel is under water and in "storage configuration" During cask preparation (out of pool but before in "storage configuration"), no exemption applies and monitoring is required.	Appears rule change is necessary to clarify. See NRC letter to Holtec dated 8/1/00 for additional information. NRC accepted Southern Co. approach to use area gamma radiation monitors. Refer to presentation material from 3/14/06 meeting and Southern exemption response.	Rule still appears to require a change to fix permanently. Can this be added to the rulemaking approved under SRM SECY-06- 0152 (Issue 36)?	Gutherman

ISSUE NO.	PRIORITY	STATUS	ISSUE DESCRIPTION	REMARKS	ACTION	DSTF LEAD
2	Н	Open (Tracking)	Burnup Credit: ISG-8 does not allow fission product credit, making BUC methodology limited. SFPO method is different than NRR. Except for geometry, methods should be the same.	Acquire and evaluate French data to expand ISG-8 guidance. In parallel, evaluate Part 50 and SFPO criticality analysis and BUC methods and assumptions for differences. Resolve differences and recommend single criticality/BUC analysis method where possible.	Revise ISG-8.	Quinn/Anton
2a	H	Open	Burnup Measurements: ISG-8 recommends measuring burnup on a sampling basis to increase confidence in reactor records. Industry does not believe this is necessary.	(EPRI input) Evaluate safety benefit of BU measurements and recommend guidance change, as appropriate (EPRI input)	Industry to provide technical basis for no burnup measurements. NRC to provide expectation for technology and what results are expected.	Nesbit/Franklin
3	Η	Open	Damaged Fuel: Definition in ISG-1, Rev. 1 is very broad and difficult to implement. Need a definition generated with industry participation before implementation. RG may be more appropriate than ISG. Need to ensure fuel previously loaded as intact for storage can be transported without re- packaging.	Determine damaged fuel criteria for storage and transportation. Issue RG or add as defined term in the rules. CoCs will need to be revised to reflect new guidance and/or rule. (EPRI input)	Revise ISG-1 to agree with ANSI N14.33.	Gutherman/Eyre

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ISSUE NO.	PRIORITY	STATUS	ISSUE DESCRIPTION	REMARKS	ACTION	· DSTF LEAD
4	Н	Open	Control of Cask Licensing Basis: a) backfit	Licensees, CoC holders,	DSTF internal.	Sides
			of changes to ongoing TS (cask surveillance) to previously deployed casks. b) Backward	and NRC may have different views on these	FAQ issue	
			and forward compatibility of hardware. c)	issues. Need mutually		
			Removal of information from SAR/CoC that	agreeable position.		
			applies to previously deployed casks and/or			
			site-specific licensee who incorporated the			
5	M	Onan	information by reference. Regulatory Process: Certain issues are	Process feedback issue	Discuss between	Kraft
5	111	Open	being addressed outside of recognized	in 2/8/05 workshop.	NEI and NRC	Klan
			regulatory processes and should be addressed	Work with NRC as	senior	
			in a more structured process, such as a	topics arise to determine	management	
		•	Regulatory Guide, rulemaking, or other	appropriate process to	5	
			formal generic communication (i.e., GL), to	use.		
			allow front-end industry participation and			
			independent backfit evaluation by NRC			
			(CRGR). Examples: ISGs, cask Technical			
		CL	Specifications, RIS 2005-05, fuel-air issue.		NISSE PIZZ STAR	
6	M	Closed	CoC Noncompliance: What process governs if licensee discovers noncompliance with	GL 91-18 (or successor) can be used for	None. Use plant corrective action	
			CoC after cask is in storage? There is no	degraded conditions not	program. NOED	
			NOED process in Part 72.	involving	process not	
				noncompliance with	needed.	
				CoC. May need NOED		
				process for CoC		
				noncompliance.		

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7	L	Open	Moderator Exclusion: 71.55(b) does not permit moderator exclusion by design for normal conditions outside of limited exceptions (i.e., entire cask designs cannot be excepted from moderator intrusion). Regulations (per ISG-19) permit moderator exclusion for accident conditions. Seems contradictory. See EPRI Report 1011815.	Work with NRC on regulatory issues associated with a rule change. Rule change may have broad (i.e., YM EIS) implications (EPRI input)	Continue discussion to determine path forward. Need separate meeting with NRC.	Gutherman
8	М	Open	High Burnup Fuel: ISG-11, Rev 3 does not provide guidance for transportation of HBU fuel.	Tracking item. Determine criteria for review of transport requirements for high burnup fuel. (EPRI input)	Revise ISG-11	
9	L ·	Open	Cask Technical Specifications (NUREG- 1745): Level of detail in cask TS and CoCs (e.g., fuel parameters) is not commensurate with risk. Fuel parameter change process in NUREG-1745 is not consistent with regulations.	Work with NRC to make risk-based rule change to TS inclusion criteria and revise NUREG-1745. Need cask loading PRA issued.	Need separate meeting with NRC to discuss criteria for TS similar to Part 50. CoC contents should be risk- informed.	Gutherman
10	М	Open	Risk Informed regulations and review guidance: Cask loading PRAs need to be used to risk inform regulations and guidance.	Draft presented to ACNW 7/20/06. Final issue expected by 9/30/06. EPRI PRA issued	Once issued, how do we use the results?	Gutherman/EPRI (Canavan)/NEI (Bradley)

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ISSUE NO.	PRIORITY	STATUS	ISSUE DESCRIPTION	REMARKS	ACTION	DSTF LEAD
11	L	Closed	Part 71 QA Program (RIS 2004-18): Some	Work with NRC to	None. NRC	
			Part 50 licensees who use Part 71-certified	clarify whether a Form	working.	
			packages under a previously approved QA	311 for Part 50		
			program (i.e., their Appendix B program) are	licensees to use a		
			required to have their Part 50 QA programs	previously approved		
			separately approved under Part 71. NRC	program under Part 71		
			issues a Form 311 indicating their approval	is necessary. If so, how	1 10 1 1 A.	
			under Part 71. The Part 50 QA program can	do QA program changes		
			be modified by the licensee under 10 CFR	get implemented, given		
			50.54 without prior NRC approval provided	the authority of 50.54?		
			the commitments in the program are not			
			reduced. There is no such provision in Part			
			71 and renewal is required every 5 (now 10)			
			years. These rules appear to conflict.			
12	L	Open	72.48 Guidance: Based on experience since	Based on lessons	DSTF internal.	Gutherman
			4/01, NEI guidance on malfunctions,	learned, consider	NEI task force	
			consequences, and methods of evaluation	revising guidance to	being assembled	
			may need updating and more customizing for	clarify implementation	to address	
			casks. For example, casks do not typically	of 72.48.	revision to 50.59	
			have single failure criteria requirements and		and 72.48	
			often accidents have no offsite dose		guidance in NEI	
			consequences.		96-07	
13	L	Open	Licensee 72.48 Processing: a) What are GL	FAQs and/or other	DSTF internal.	Sides
			obligations (i.e., timing, actions) for	communication vehicle	FAQ issue.	
			processing CoC holder 72.48s? b) What's	to establish industry		
			required if GL does not adopt? c) What is	consensus.		
-			effective date for CoC holder-issued 72.48s			
			on GLs (e.g., operating changes)? d) What is			
			CoC holder 72.48 deletes or modifies			
			information incorporated by reference by an			
			SL and SL does not want to change?			

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ISSUE NO.	PRIORITY	STATUS	ISSUE DESCRIPTION	REMARKS	ACTION	DSTF LEAD
14	M	Closed		Industry believes the	E climite les l'estrutions	
14	IVI	Closed	Computational Modeling Software (ISG-21): Proposed ISG defines information to be	ISG over-reaches into	Industry commented 8-05.	
			submitted for cask licensing to permit NRC	QA and is not	ISG-21 issued 4-	
			to review use of computer modeling	necessary. Comment	06	
	Carlos antes		software.	letter sent to NRC		
				8/11/05		
15	М	Closed	Retrievability: NRC was though to be	ISG-2 will not be	None	
		<u></u>	developing an ISG on this issue.	revised		
16	New	Closed	Amendment Applications: There are a	Is there a consensus for	None. Each CoC	
			variety of difference formats for amendment	developing a standard	holder has a	
			applications (i.e., with or without SAR markups). Should industry develop	template for amendment	process.	
			guidance?	requests?		
17	L	Open	SRP Updates: NRC needs to update SRPs to	Status?	NRC action.	Gutherman
		(Tracking)	incorporate ISGs.		Industry to	
					review and	
					comment on	
					proposed	,
1.0	т	0		Need to diamon alon	revisions	Gutherman
18	L ·	Open (Tracking)	Reg Guide Updates: NRC needs to update RGs 3.48, 3.61 and 3.62 to match SRP	Need to discuss plan with NRC. Currently	No current plans to update these	Guinerman
		(macking)	format.	using SRPs where RGs	RGs.	
				are the correct guidance		
	,			for industry		
19	New	Closed	Review Schedules: Include front and back	NRC has provided some	Complete	
			end activities in total review schedule.	information. Emailed		
				info to DSTF 2/15/05.		
20	L	Closed	Part 72 License Renewal: Modify rule to	SECY 04-0175	NRC working.	
			extend license renewal period beyond 20		Industry to	
			years.		comment on	
			rycais.		proposed rule	

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21	New	Closed	Use of RG 1.91 for ISFSI Licensing: The 1 psig overpressure value for missiles may not be appropriate for use in ISFSI licensing.	Revise guidance specific for ISFSI licensing	None. Industry does not believe this is a generic concern.	
22	L	Open	CoC Amendments: Rulemaking is required for all Part 72 CoC amendments. This is an unnecessarily burdensome process. Results in exemptions as a normal licensing process.	NWPA uses term "by rule" for cask amendments	DSTF internal. Industry to consider possible approaches given previous denial.	Gutherman
23	L	Closed	GSI-196; BORAL Degradation: NRC recently identified BORAL blistering as a generic safety issue. What effects, if any, does the blistering have on the design function of the BORAL?	Tracking item. NRC Research is gathering data at this point. Support, with EPRI as necessary.	None. Re-open as necessary per results of GSI research.	NA
24	Н	Open	Fuel Cladding Integrity Analysis: Cask designers have not historically analyzed fuel cladding integrity. Fuel material data is limited. Guidance in ISG-12 only addresses buckling.	Broaden licensing guidance in SRP.	Revise ISG-12	
25	L	Open (Tracking)	DOE Standardized Canister: DOE proposes to use a standard Transportation, Aging, and Disposal (TAD) fuel canister that will be compatible with the waste package at YM.	Working with DOE to develop performance spec.	None.	Gutherman
26	L	Open	10CFR72.13: Some sections may not be appropriately listed.	Review and make suggestions to NRC for rule change	Industry to consider petition.	Sides
27	М	Open	Tornado Missiles: How do general licensees compare site-specific missiles against generic missiles? By spectrum or missile by missile comparison?	Develop industry consensus.	DSTF internal. FAQ issue	

ISSUE						
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28	Н	Closed	Fuel-in-Air: ISG-22 addresses air coming	NRC issued draft ISG-	Final ISG issued	
			into contact with fuel and potential fuel rod	22 11/15/05. Industry	5/8/06.	
			splitting due to oxidation.	comments submitted		
		12		12/29/05. DOE also submitted comments.		
29	Low	Open	RIS 2005-31, Security Sensitive	No regulatory	Need	
		_	Information: SFPO would like industry's	requirement for	clarification of	
			input on developing procedures for the	withholding SSI	NRC	
			treatment of sensitive information in		expectations for	
			incoming documents.		implementation	
30	Low	Open	Correcting CoC Errors: SFPO is		NRC to engage	
			considering how to correct errors in an		stakeholders.	
			existing CoC.			
31	Medium	Open	Repetitive RAIs: Similar RAIs issued by		NRC to follow	
			staff on applications submitted by different		up	
			licensees or vendors.			
32	Low	Closed	NRC's plan and schedule for casework:	See RIS 2005-27.	Industry had no	
			Industry provide "look-ahead" schedule for		comments	
			application submittals. NRC would provide			
			timeliness goals and general scheduling			
			criteria available to public.			

ISSUE						
NO.	PRIORITY	STATUS	ISSUE DESCRIPTION	REMARKS	ACTION	DSTF LEAD
33	TBD	Open	Neutron absorber material: The staff would like to engage industry on how to treat neutron absorber material process controls (how the material is manufactured and tested) in dry storage cask applications. In recent applications these process controls have been captured in technical specifications.	The staff is considering generic guidance in this area. The staff would like to engage industry on whether neutron absorber material process control guidance should be developed, and if it is to be developed, how that guidance should be captured. Need priority. NRC believes it is "high."		
34	TBD	Open	Canister leakage testing (ISG-18): The NRC staff is considering revising ISG-18 to capture lessons learned from recent reviews and to make the guidance more clear.	The NRC staff is targeting issuing a draft of the revised guidance in the Winter of 2006. (This date is subject to change based on staff priorities.)	Industry will comment on the draft ISG revision when issued. Need priority. NRC believes it is "high."	
. 35	TBD	Open	Beyond Design Basis Threats: SFPO has made recommendations to the Commission based on Sandia work that could result in new design standards for casks.	After Commission action, need to meet with SFPO to determine specific actions required, if any, and implementation plan.	Commission to rule on SFPO recommendations	•
36	TBD	Open	Part 72 Rulemaking: SECY-06-0152 endorses rulemaking effort to address CoC and GL terms and conditions	Industry will provide input on proposed rule changes.	NRC to create rule changes.	

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37	TBD	Open	9th Circuit Decision: What are the generic implications of the 9 th Circuit Court's decision on the Diablo Canyon ISFSI re: NEPA and terrorist threats?	PG&E is appealing the decision to the Supreme Court. NRC is not appealing but may file amicus brief.		Grebel

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