

Rick Jervey

September 2017

United States Nuclear Regulatory Commission

Protecting People and the Environment

NRC Lessons Learned from WEC Scrubber Event

This information is available on the NRC Public Website: https://www.nrc.gov/materials/fuel-cycle-fac/regs-guides-comm.html#cumeffects The lessons learned actions are focused on 5 internal areas. The goal is improved effectiveness and increased efficiency.

- License review
- Inspection program
- Operating experience program
- Roles and responsibilities
- Knowledge management



Updated WEC-LL Project Schedule

	W	estinghouse Lessons L	earned Action Plan Items	
		2017	2018	Comments
High Priority Items	Revised	Nov Oct Sept Aug July June May	Dec Nov Oct Sept Aug July June May April Mar Feb	
Develop guidance for examining the technical justification for accident sequences designated as low risk Lead: Donnie Harrison	09/21/2017			Potential revision to NUREG 1520
Revise inspection program to modify scope and focus of insepctions such that processes with potential for high or intermediate consequences are inspected within specified time Lead: Jeremy Munson	09/21/2017			Revisions to IMC 2600 and ROI 2211
Develop guidance for inspectors on 10 CFR 70.72 changes to support inspection sampling Lead: Brannen Adkins	09/21/2017			Revision to IP 88070
Enhance operating experience database and its application to licensing and oversight programs Lead: Annie Ramirez	09/21/2017			Populating Sharepoint database, and revision of internal procedures
Revise qualification programs to ensure staff has knowledge base to challenge licensees' assumptions Lead: Rick Jervey and Jenny Fisher	09/21/2017			IMC 1246 and IMC 1247 are under internal review. Revisions to be published 4Q17.
Revise guidance and training on use of ISA Summary Updates and development of safety evaluations Lead: Matt Bartlett	09/21/2017			Drafted changes to License Reviewer Handbook
			= Public Meeting = Project Timeline	= Draft Document = Final Document

License Review Process

Westinghouse Lessons Learned Action Plan Items							
		2017	2018	Comments			
High Priority Items	Revised	Nov Oct Sept Aug July June May	Dec Nov Oct Sept Aug July June May April Mar Feb				
Develop guidance for examining the technical justification for accident sequences designated as low risk Lead: Donnie Harrison	06/05/2017			Potential revision to NUREG 1520			

		Develop guidance for: • performing thorough vertical slice reviews in addition to horizontal reviews,
		determining the risk significance of a system for facilities that do not use a quantitative risk index method,
	Key Information	the level of review low risk systems should receive, especially those systems in which the basis for the determination relies heavily on an assumption,
Contact: Donnie Harrison NMSS/FCSE 301-415-5252		review of underlying assumptions or technical justification of frequencies for qualifications of "low risk" criterion, such as accident sequences with low frequency and intermediate or high consequences.
001 110 0202		This new guidance will be covered in NUREG-1520 and/or the American Nuclear Society (ANS) standard on the performance of ISA
	Status	The evaluation has been performed and recommendations are in the final stages prior to a decision on action with implementation schedule to follow.

Inspection Program

Westinghouse Lessons Learned Action Plan Items																				
				20	017				2018										Comments	
High Priority Items	Revised	May	July	Aug	Sept	Oct	Nov	Jan	Feb	Mar	April	May	June	July	Aug	Sept	CCI	Nov	Dec	
Revise inspection program to modify scope and focus of inspections such																				
that processes with potential for high or intermediate consequences are inspected within specified time Lead: Jeremy Munson	06/05/2017																			Revisions to IMC 2600 and ROI 2211

		The Goal is earlier identification of weaknesses in facility operations and programs through improved effectiveness and focus of inspection resources.								
	Key Information	Determine an appropriate periodicity for inspection of systems and processes with the potential for intermediate or high consequences.								
		Develop a method of planning and tracking these items.								
n	Status	Developing test matrices to ensure that all systems and processes with the potential for high or intermediate consequence are inspected at least once in a specific timeframe.								

Contact: Jeremy Munsor NMSS/FCSE 404/997-4732

Inspection Program

Westinghouse Lessons Learned Action Plan Items							
		201	7	2018	Comments		
High Priority Items	Revised	Aug July June May	Dec Nov Oct	Dec Nov Oct Sept Aug July June May April Mar Feb			
Develop guidance for inspectors on 10							
CFR 70.72 changes to support inspection sampling Lead: Brannen Adkins	06/05/2017				Revision to IP 88070		

	Key Information	 IP 88070 (Plant Modifications) changes including: Development of guidance/criteria for using ISA insights to support sampling and to perform a holistic in-depth sample that reviews iterative 10 CFR 70.72 changes over a long time frame (5-10 years).
ntact: nnen Adkins		Provide criteria on how to use ISA insights to prioritize §70.72 inspection samples to support a more risk-informed sample selection process.
DFFI /997-4620	Status	The staff is developing/brainstorming ideas/guidance to improve sample selection.

Operating Experience Program

Westinghouse Lessons Learned Action Plan Items							
		2017	2018	Comments			
High Priority Items	Revised	Nov Oct Sept Aug July June May	Dec Nov Oct Sept Aug July June May April Mar Feb				
Enhance operating experience database and its application to licensing and oversight programs Lead: Annie Ramirez	06/05/2017			Populating Sharepoint database, and revision of internal procedures			

Key Information	 Define database capabilities to support trending and analysis. Assure information flow between Inspection, licensing and the OpE program are sufficient and that guidance documents are aligned. Input desired data. Provide training to staff.
Status	Staff is developing a SharePoint database with events from 2007 to most recent events. Events included: Part 21, inspection findings, DOE or Industry events, fire database events, and international experiences (FINAS).

Contact: Annie Ramirez NMSS/FCSE 301-415-6780

Knowledge Management

Westinghouse Lessons Learned Action Plan Items								
		2017	2018	Comments				
High Priority Items	Revised	Dec Nov Oct Sept Aug July June	Dec Nov Oct Sept Aug July June May April Mar Feb					
Revise qualification programs to ensure staff has knowledge base to challenge licensees' assumptions Lead: Rick Jervey and Jenny Fisher	06/05/2017			IMC 1246 and IMC 1247 are under internal review. Revisions to be published 4Q17.				

Key Information	 Include in the qualification program training on critical thinking, effective communication and conflict resolution. Determine if other changes in the training program should be made based on results of the WEC-LL. Incorporate changes into draft revisions of IMC1246 and IMC1247.
Status	Qualification programs are being revised and are expected to be completed by the end of the year.

Contact:

Rick Jervey/Jenny Fisher NMSS/FCSE/PORSB 301-415-6201 (Rick) 301/415-1456 (Jenny)

Knowledge Management

Westinghouse Lessons Learned Action Plan Items								
		2017	2018	Comments				
High Priority Items	Revised	Dec Nov Oct Sept Aug July June	Dec Nov Oct Sept Aug July June May April Mar Feb					
Revise guidance and training on use of ISA Summary Updates and development of safety evaluations Lead: Matt Bartlett	06/05/2017			Drafted changes to License Reviewer Handbook				

Contact: Matt Bartlett NMSS/FCSE 301-415-7154

Key Information	 Develop guidance for use of information contained in ISA summary updates to inform license amendment reviews. Develop guidance that describes preparation of the licensing documentation in a manner that supports the inspector's ability to conduct inspections and enforcement.
Status	Changes were drafted within the Licensing Reviewer Handbook. Proposed guidance is being reviewed and evaluated by management.

Roles and Responsibilities

Key Information	 Clarify the role of HQ and RII staff . Evaluate and determine where changes should occur. Make appropriate changes to guidance documents such as LRHB
Status	The roles and responsibilities actions are being evaluated.

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