



Oconee / Harris NFPA 805 Pilot Observation Meeting

Charlotte, NC
April 14 - 16, 2008

Statistics - NRC Peer Review

Element	Not Met	Met	I	I/II	II	II/III	III	Not Rev	NA	TOTAL
PP	3	6	1			1			1	12
ES		8	1		2		4			15
CS	2	13	1							16
QLS	1	6								7
PRM	2	18							2	22
FSS	10	20	6	5	4	1	1		3	50
IGN		10					3		2	15
QNS		5	1							6
CF		2				1				3
HRA	3	3							2	8
SF	3	3								6
FQ	5	4							1	10
UNC								2	1	3
MU	4	9							1	14
TOTAL	33	107	10	5	6	3	8	2	13	187

Key Findings

- Labeled “conservative”
 - Remedy requires departure from 6850 (draft FAQ’s generated in parallel)
 - Credit of modifications not yet installed may also be required to reduce total CDF/LERF
- Peer Review
 - Need for limited/focused assessment?
 - Elements ‘Not Reviewed’
 - “Substantial” changes
 - Not planned for Oconee FPRA
 - Uncertainty assessment appropriate for application will accompany LAR submittal
 - F&O resolution process expected to address remaining elements

Preliminary Results from draft report

- NRC draft report (rec'd 4/10/08) identified areas requiring the most additional work to be:
 - Resolution of internal events PRA peer review comments
 - Fire modeling (especially multi-compartment analysis)
 - Identification and refinement of higher risk scenarios
 - Completion of an uncertainty analysis

Status of FPIE Peer Review Comments

- Resolution documentation not available during NRC Peer Review of FPRA
- Most items have been addressed
- Most of the remaining items are in the documentation arena
- Responses to NRC findings during review of FPRA to be generated
- Small population of FPIE open items may have to be addressed for each application

Status of Remaining Key Areas

- MCA Screening Analysis completed and attached to Scenario Report
- Identification and refinement of higher risk scenarios
 - Attachment providing summary of CDF results modified to include initiator
 - Significant contributors (high FV basic events) identified from draft integrated model (XINITIS)
 - LERF documentation improved (includes identification of containment bypass scenarios)
 - Inconsistencies between CDF and expected LERF results resolved
- Uncertainty & Sensitivity Matrix completed and appended to Summary Report

Technical Issue Summary

SR	Topic	Status
CS-B1	Breaker coordination issue (self identified open item)	Post-LAR; safety-related loads coordinated
FSS-A5	Horizontal propagation for cables with PVC jackets (self identified open item)	On-going; supporting basis for current treatment in development; to be resolved prior to LAR
FSS-C5	Pooling of PVC; may impact damage threshold (self identified open item)	On-going; to be resolved prior to LAR
FSS-D6	Fire brigade response time with respect to formation of HGL	On-going; to be resolved prior to LAR
FSS-G1 thru G6	Multi-compartment analysis did not address failure of rated barriers	Complete - MCA screening analysis identified no new scenarios for quantification
HRA-C1	Relative timing of HFE in fire scenario; time from cue versus time from fire	Complete - Important actions revisited
FQ-B1	Demonstration of convergence for selected truncation limit	Post-LAR; primarily an IE issue (F&O QU-8)
FQ-C1	Use of nominal HEP values may result in loss of cutsets before application of recoveries/multipliers	Complete - HEP values set to 0.1 during initial solve before recovery
FQ-E1	Identification of significant contributors; inconsistencies between LERF and CDF cutsets	Complete – inconsistencies between LERF and CDF cutsets resolved

Documentation Related

SR	Topic	Status
PP-B2 & B3	Partitioning	Post-LAR – explain role of partitions related to containing damaging effects of a fire
PP-C3	Improve general description and identification of unique features	Post-LAR – enhancements to be provided in planned revision
CS-C4	Breaker coordination	Post-LAR - breaker coordination documentation expected to remain open
QLS-A3	Qualitative screening	Post-LAR – calc revision planned to clarify elimination of structures from global analysis boundary
PRM-D1	Changes made to FPIE model to support 2005 FPRA not documented	On-going - eliminate reliance on special initiators
FSS-G2	Define screening criteria for multi-compartment analysis	Complete – added to Scenario Report
FSS-H2	Document resolution of PVC pooling issue	On-going; to be resolved prior to LAR
FSS-H8	Multi-compartment analysis documentation	Complete – MCA provided as Attachment D to Scenario Report

Documentation Related

SR	Topic	Status
HRA-E1	Address how Alarm Response and Emergency & Abnormal Operating Procedures are followed given a fire	Complete – added discussion to FPRA Model Development Report
SF-A2	Evaluate suppression diversion	No impact on FPRA quantification
SF-A4	Seismic response procedure does not cover fire	No impact on FPRA quantification
SF-A5	Fire preplan does not cover seismic	No impact on FPRA quantification
FQ-A2	Initiating events not defined for all fire scenarios	Complete - initiating event added to results summary info provided in Attachment A of Summary Report
FQ-F1	Improve LERF documentation	Complete – added LERF discussion to Summary Report
MU-B4, B5, B6	PRA configuration control	Action to be completed before LAR submittal
MU-E1	Perform QA acceptance for FRANCO	Action to be completed before LAR submittal