

NEI FFTF Update

FFTF – NRC Meeting
June 12, 2014



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Topics

- Integrated Assessment Example Status
- FLO-2D Questions
- LIP Warning Time
- Site Specific Meteorology Studies
- Re-Base Lining IA Schedules

Integrated Assessment Example Status

- Simple Integrated Assessment
 - Complete
 - Released to industry
- Simple Integrated Assessment with Simple Operator Actions
 - Addressing comments
 - Resend in mid-July

Integrated Assessment Example Status

- Simple Integrated Assessment with Simplified PRA approach
 - Awaiting Staff comments
- Scenario Based Mitigation Strategy
 - Complete, comments addressed
 - Forwarded to NRC on June 6th
 - Will share with industry after this meeting

FLO-2D Questions

- It is not clear what generic concerns exist with use of FLO-2D
- Industry take-aways from the webinar
 - Initially unable to reproduce results with older versions; able to reproduce using exact version from the licensee
 - Related to default settings
 - Different versions modeled roof drainage differently
 - Related to default settings
 - Discrepancy modeling blockage in culvert
 - User issue; possibly use 1D link to model culvert
 - Not successful in meeting criteria for 3 key parameters (volume, inundation area, and velocities)
 - User issue
- Based on the results of the webinar, we concluded that the software itself is acceptable, but there may be questions on its use in particular applications that will be dealt with via RAI
- Is there additional feedback on generic FLO-2D issues?

LIP Warning Time

- LIP Warning Time White Paper forwarded on June 4th
 - LIP event would be caused by a major storm if not in an area susceptible to orographic lift
 - Use NWS tools to predict the possibility of a major storm (unable to explicitly predict LIP values)
 - Set conservative thresholds for monitoring and mitigation
 - Monitor once per shift if an extreme weather event is possible
 - Trigger mitigation if predicted rainfall exceeds 50% of the LIP event or causes consequential flooding considering
 - the 24 hour total (as a proxy for a 1 hour LIP total)
 - 95% confidence forecast tool
 - Rely on qualified meteorologist to evaluate topography, historic storm, and the value set for determining extreme rainfall

Site Specific Meteorology Studies

- Industry is using site / region specific meteorological studies
- Are there any NRC lessons learned on studies reviewed-to-date

Re-Base Lining IA Schedules

- Completion of NRC staff assessments on reevaluations will challenge IA schedule
 - Staff assessment defines the input for the IA
 - Staff assessment should reflect a complete and accepted hazard report
 - Work on the IA prior to receipt of the staff assessment is limited due to the possibility of rework
- IA submittal dates should be 2 years after HRR Staff Assessment is issued