



Welcome

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3rd Annual PFHA Research Workshop

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Why PFHA Research?

- Address gap in Risk-Informed Regulatory Framework
 - Commission policy to use risk-informed approaches to the extent practical
 - Other external hazards (e.g., wind, seismic) are evaluated using probabilistic approaches and metrics.
 - Current regulatory basis wrt flooding hazards (Reg Guides, Standard Review Plan, etc.) is deterministic
- Recent experience has highlighted importance of risk-informing flood hazard assessment and consequence analysis
 - Flooding events at NPPs in U.S. and abroad
 - Post-Fukushima flood hazard reevaluations

Progress and Next Steps

- Phased Approach
 - Technical basis and draft guidance
 - Pilot Studies
 - Finalize Guidance
- Bulk of technical basis research should be completed in FY19
 - Precipitation
 - Local Intense precipitation (LIP) flooding
 - Riverine flooding
 - Storm surge
 - Reliability of flood protection and mitigation
 - PFHA frameworks
- Need to turn our focus towards meaningful pilot studies
 - Site-specific issues
 - e.g., coastal/estuary vs. inland/river location
 - Full hazard curves
 - Coincident and correlated flooding processes
 - Integrating flood hazard assessment information into plant risk assessment models