



GSI-191
Industry Path Forward for Deterministic Programs to
Address In-Vessel Fiber

NRC Meeting, August 22, 2012

Bases for the PWROG Path Forward



NRC Meeting, August 22, 2012

Path Forward

- Industry Turning Point
 - ACRS: Open questions challenge the credibility of the in-vessel test results to date
- Industry Response
 - Formation of the PWROG Tiger Team
 - Tiger Team Evaluation of WCAP 16793 program
 - PWROG generic program attempted to evaluate in-vessel effects to bound all plants with a single criterion
 - Acknowledge that individual conservatisms exist, but understand ACRS concerns
 - A “holistic” approach is necessary to establish reasonable bounds for in-vessel fiber based on appropriately defined success criteria applicable to all 69 US PWRs



Path Forward

- Elements of the path forward - Concept
 - Long term core cooling – 10CFR50.46
 - Establish required flow conditions to ensure long term core cooling
 - Characterize fibrous debris and by-pass process
 - Establish prototypical chemical precipitation conditions
 - Standardize and maintain a consistent testing protocol
 - Address appropriate water chemistry for testing
 - Diverse expertise
 - Integrated system analysis
 - Final “menu of options”



Path Forward

- Definition of Success
 - Establish range of options available for utilities to determine conditions to satisfy LTCC
 - Minimize overall impact on PWR utilities
 - Cost and dose
 - Enhance margins for future design changes and or operability evaluations
 - Industry and NRC alignment

