

Resolution of GSI-191: Industry Actions and Schedule

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Overview

- **A conservative, deterministic approach was developed to address GSI-191**
- **Conservative test methods are also being applied**
- **Licensees are moving forward with significant design and operational enhancements**
- **Industry working to achieve closure expeditiously**

GSI-191 Resolution Status

- **Resolution activities well underway at all 69 US Pressurized Water Reactors**
- **Strainer designs generally complete**
 - **New strainers use complex geometry and increased surface area**
 - **Installations either finished or planned for upcoming outages**
 - **Additional testing to address chemical effects through end of 2007**

GSI-191 Resolution Status

- **Resolution actions go well beyond “larger strainers”**
 - **Insulation modifications**
 - **Latent debris reduction**
 - **Material removal/relocation**
 - **pH buffer changes**
 - **Testing**
 - **Design/operation modifications**
 - **Debris interceptors, flow diverters**
 - **“Downstream” equipment modifications**

Key Challenges

- **Chemical Precipitates being addressed through combination of actions**
 - Reduce debris at screens
 - Reduce precipitate generation
- **Downstream Evaluation**
 - Efforts underway to address effects of debris “bypass” on systems and equipment downstream of strainers
 - Pumps/Valves – Plant specific evaluations
 - Core/Fuel – PWROG program
- **Coatings**
 - Testing conducted to support treatment of containment coating materials

Closure = Reasonable Assurance of Long Term Cooling

- **GSI-191 in context**
 - Low risk significant event
 - Significant safety enhancements
- **Industry working with NRC to achieve closure under assigned schedule**
 - Each plant resolution package unique to their design
 - No silver bullet
 - Working with staff on holistic treatment of issue