

# NRC PRESENTATION

## Salem Containment Sump Project

### Bypass Testing Discussion

*February 28, 2013*



# Meeting Agenda

- Introduction of Attendees
- Review of Recent NRC/PSEG GSI-191 Correspondence
- Bypass Testing Fiber Debris Preparation Overview
- Strainer Fiber Bypass Testing Overview
- Discussion Regarding NRC Bypass Testing Questions
- Remaining Tasks for GL 2004-02 Closeout

# Introduction of Attendees

- **PSEG – Salem**
  - Gregory Sosson – Director Salem Engineering
  - Sam Markos – Salem Design Engineering Manager
  - Kiran Mathur – Senior Engineer, Salem Design Engineering
  - Paul Duke – Licensing Manager
  - Emily Bauer – Lead Engineer Licensing
- **Sargent & Lundy**
  - Bob Peterson – Senior Manager, Nuclear Plant Analysis
  - Helmut Kopke – Project Associate 2, Nuclear Plant Analysis

# Recent NRC/PSEG Correspondence Regarding GSI-191

- PSEG submitted Updated Supplemental Response to Generic Letter 2004-02 on April 27, 2012
- PSEG discussed fiber debris preparation methods with NRC during a phone call on November 28, 2012
- NRC provided PSEG with a list of 18 questions regarding bypass testing on December 3, 2012
- PSEG provided NRC with a responses to all 18 questions on February 21, 2013

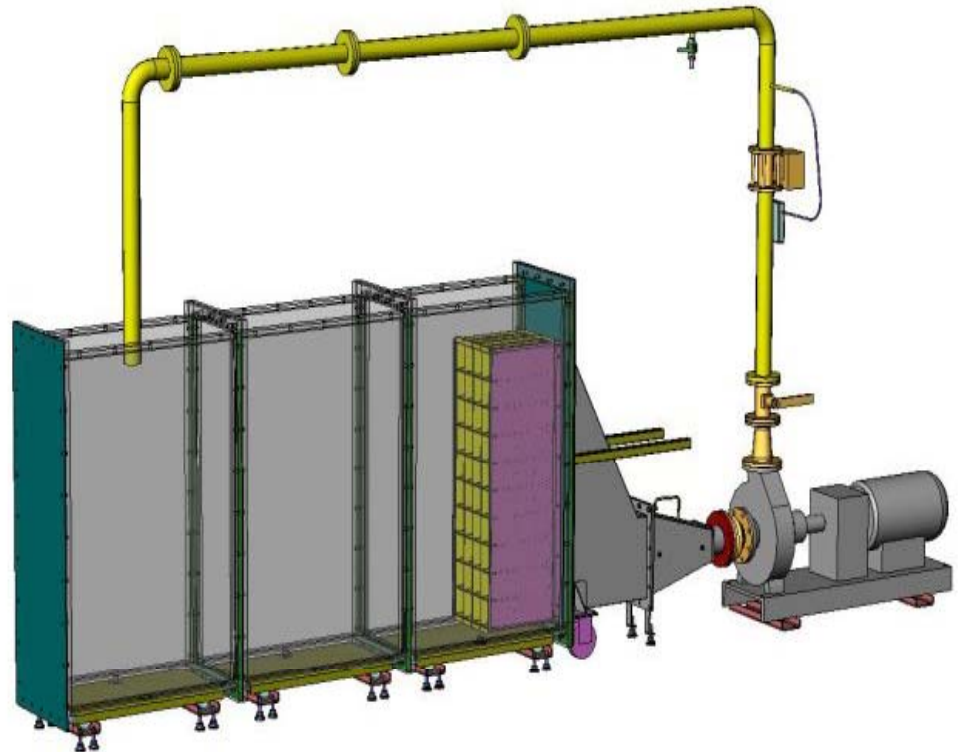


# Bypass Testing Fiber Debris Preparation

- Differences between 2006 and 2008 fiber debris preparation methods were minor:
  - Fibers not baked in 2006
  - Fibers leaf shredded in 2006 and hand cut in 2008
- CCI fiber preparation methodology is generally consistent with the January 2012, NEI guidance with a few minor deviations:
  - Hot plate heating versus oven baking
  - Fiber to water ratio prior to blasting
- Fiber preparation methodology used for Salem was previously presented to the NRC during a phone call on November 28, 2012, and was found to be acceptable

# Strainer Fiber Bypass Testing Overview

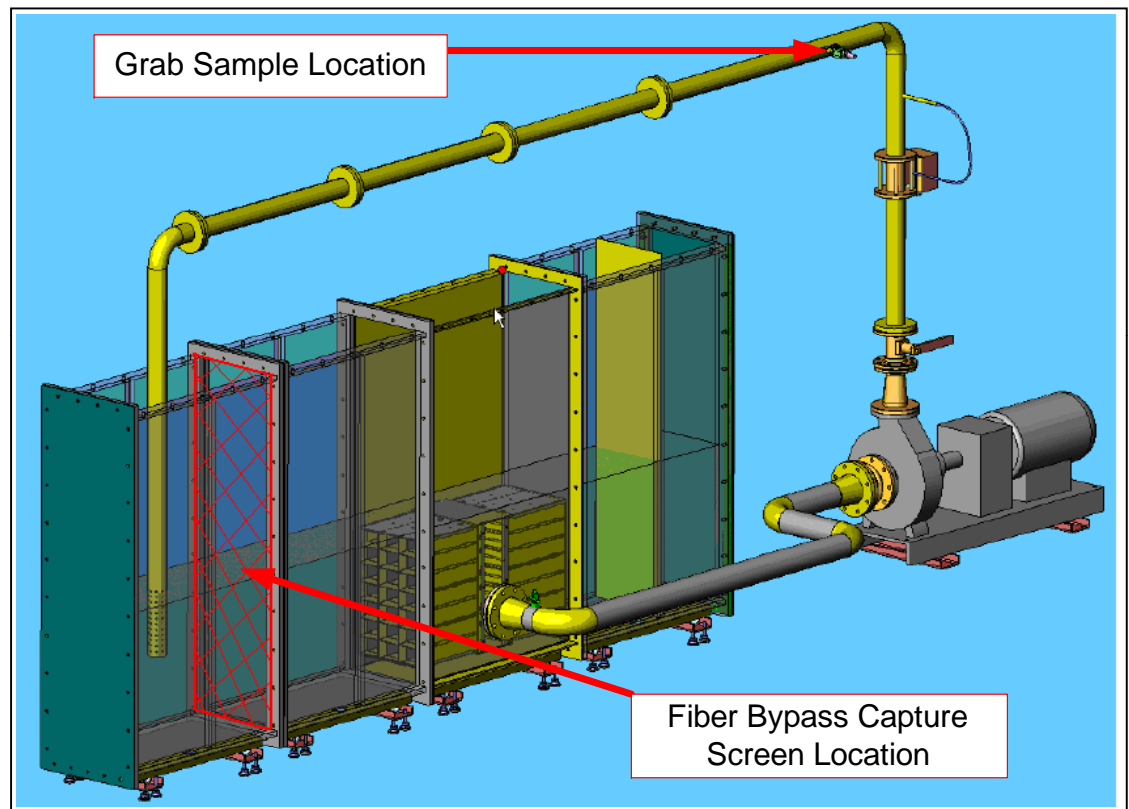
- Strainer fiber bypass tests were performed at CCI vendor facility in 2006 and 2008
- 2006 Fiber Bypass Testing
  - Primarily used NUKON insulation for testing
  - Used CCI typical 1-Sided MFTL configuration
  - Tested multiple strainer sizes (i.e. different approach velocities)



# Strainer Fiber Bypass Testing Overview

- 2008 Fiber Bypass Testing

- Tests done to show 2006 test results were conservative
- Test module was prototypical
- Used NUKON, Fiberglass, & Kaowool for testing



- Comparison between the two tests showed that 2006 test results envelope 2008 testing

# Discussion on NRC Bypass Testing Questions

- NRC provided PSEG with 18 questions regarding Salem bypass testing on December 3, 2012
- Responses to NRC questions were provided to NRC on February 21, 2013



# Remaining Tasks for GL 2004-02 Closeout

- **In Vessel Effects (WCAP-16793-NP and Associated SE)**
  - NRC Draft Safety Evaluation for WCAP-16793-NP, Revision 2, was issued for public comment on January 29, 2013
  - Salem will provide the GSI-191 resolution path (e.g. option) 30 days after final NRC Safety Evaluation for WCAP-16793-NP
  - Salem will provide a response to the final NRC Safety Evaluation on WCAP-16793-NP within 90 days of issuance