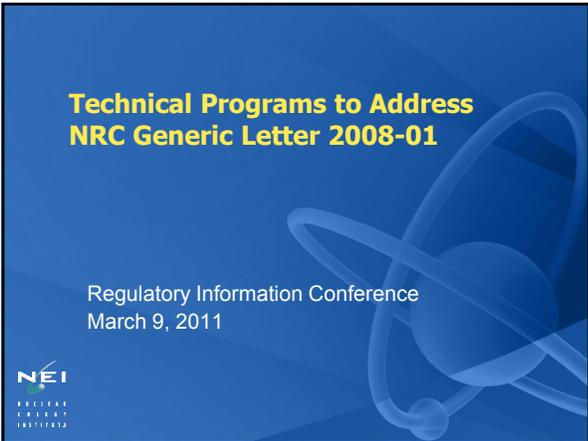


**Technical Programs to Address
NRC Generic Letter 2008-01**

Regulatory Information Conference
March 9, 2011

Overview

- Completed Technical Programs
- On-Going Technical Programs
- Schedule
- Goal



2

Completed Technical Programs

- Gas Transport Phenomena Investigation
 - Fundamental processes investigation for gas transport and void fraction estimation
 - Scaling of test results based on a range of test section reference diameters
 - 4, 6, 8, and 12 inch
 - Results applicable to large diameter pump suction pipes



3

Completed Technical Programs

- Simplified Gas Transport Equation
 - Correlation based on Gas Transport Phenomena Investigation results
 - Provides estimate of acceptable void size for operability assessment
 - Pump suction void fraction remains less than “interim” criteria (APC 09-20)



4

On-Going Technical Activities

- Dynamic venting criteria – Recently approved
- Pump Roadmap Program
 - Objective is to validate interim pump suction void criteria
 - Expert panel to use existing industry data to determine efficacy of APC 09-20 data and or establish necessary elements of pump test requirements.



5

On-Going Technical Activities

- Pump Roadmap Program (Cont)
 - Program provides assessment of applicability of Simplified Equation
 - SE applicability results to be used to direct pump test program
 - Risk may be used to establish testing or non-testing basis
 - Expert panel to assess program for potential margin in excess of APC 09-20 criteria



6

Schedule

- Roadmap technical program – June, 2011
- Final roadmap program completion – December 2011
 - Presentation of results to Industry and NRC
- Dynamic venting program – February, 2012

NEI 7

Technical Program Goal

- Provide a technical basis for utility operability assessments for identified gas voids in accordance with NRC GL 2008-01 and consistent with NEI 09-10

NEI 8
