

Introduction

NRC Public Meeting on Risk-Informed Resolution of GSI-191

Topic: LOCA Frequency

1 March 2012

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Attendees

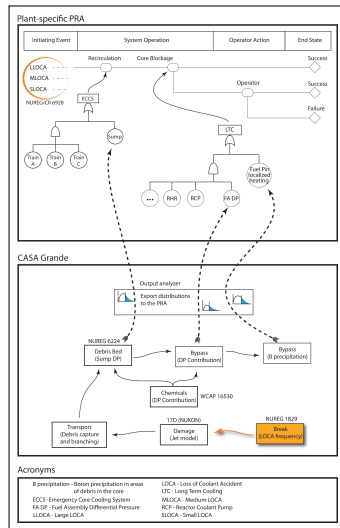
- LOCA Frequency and Uncertainty Quantification, the University of Texas at Austin
 - Elmira Popova
 - Alexander Galenko
- CASA Grande, Los Alamos National Laboratory
 - Bruce Letellier
- PRA, ABS Consulting
 - David Johnson
 - Don Wakefield
- Oversight, Soteria Consultants
 - Zahra Mohaghegh
 - Seyed Reihani
- The South Texas Project
 - Steve Blossom
 - Rick Grantom
 - Ernie Kee
 - Jamie Paul

Project Objectives

- Through a risk-informed approach, provide the necessary technical basis for the NRC to close the safety issues related to GSI-191 by the end of 2013
- Understand and implement the necessary licensing requirements needed to support an exemption to certain requirements of 10 CFR 50.46
 - Follow and build upon previous successful regulatory actions such as:
 - 14-day Diesel AOT
 - 10 CFR 50.69 Exemption Request
 - Initiative 4b, Risk Managed Technical Specifications
- The licensing approach is based on Regulatory Guide 1.174
- Decision making is based on the difference in risk between a “perfect” design and the existing design

Computational Flow

- The LOCA frequency, based on NUREG 1829, is used in both “CASA Grande” and “Plant-specific PRA” modules of the integrated model.
- CASA Grande provides estimates for the likelihood of three basic events of the plant-specific PRA by modeling their underlying physical phenomena and, by adding uncertainty analysis to the physical models



Meeting Materials and Summary

- LOCA Frequency:
 - Article: A. Galenko and E. Popova, “Sampling of LOCA frequencies and break size for the STP GSI-191 resolution”
 - Presentation on article: “Sampling of LOCA frequencies and break size for the STP GSI-191 resolution”
(presentation given by Elmira Popova and follow-up discussion)

Meeting Materials and Summary (continued)

- Supplemental documents, not directly related to this meeting, have been provided to aid in general review and evaluation of the Pilot Project:
 - Internal meeting document: “STP Post-meeting Notes for January 26-27, 2012 Public Meeting”, February 02, 2012
 - Internal technical document: “Risk-Informed Resolution of GSI-191 at South Texas Project”, January, 2012 [with proprietary data redacted]
 - Internal technical document: Kerry Howe, “Resolution of Outstanding Chemical Effects PIRT Issues”, February 09, 2012