

December 10, 2015

LICENSEE: Purdue University

FACILITY: Purdue University Research Reactor

SUBJECT: SUMMARY OF DECEMBER 4, 2015, PUBLIC MEETING WITH PURDUE
UNIVERSITY REGARDING DIGITAL INSTRUMENTATION AND CONTROL
UPGRADE PROPOSED LICENSE AMENDMENT APPLICATION

On December 4, 2015, a Category 1 public meeting was held between the U.S. Nuclear Regulatory Commission (NRC) and representatives of the Purdue University Research Reactor (Purdue), by teleconference at the NRC Headquarters, One White Flint North, 11555 Rockville Pike, Rockville, Maryland. The purpose of this meeting was to discuss the Purdue design concept for the proposed digital instrumentation and control upgrade. Purdue stated that it plans to submit the associated license amendment request in Spring 2016. The meeting notice and agenda, dated November 20, 2015, are available in the Agencywide Documents Access and Management Systems (ADAMS) at Accession No. ML15324A115. A list of attendees is provided as an enclosure.

This meeting specifically addressed the formulation of design bases, independence considerations of various control systems, and system performance analysis. The discussion included the differences between the definitions of reactor control system (RCS) and reactor protection system (RPS). Other discussion topics included the designation of design bases, the independence of RCS and RPS, and a general outline and considerations for system performance analysis. NRC staff emphasized that it will use criteria in the Interim Staff Guidance, augmenting Chapter 7 of NUREG-1537, to evaluate the license amendment request.

Please direct any inquiries to me at 301-415-3398, or via email at Cindy.Montgomery@nrc.gov.

/RA/

Cindy K. Montgomery, Project Manager
Research and Test Reactors Licensing Branch
Division of Policy and Rulemaking
Office of Nuclear Reactor Regulation

Enclosure:
As stated

cc: See next page

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This meeting specifically addressed the formulation of design bases, independence considerations of various systems, and system performance analysis. The goal of this meeting was to aid Purdue with interpreting the guidance as set forth in the Interim Staff Guidance Augmenting for Chapter 7 of NUREG-1537 and identifying criteria that NRC will use to evaluate license amendment requests. The discussion included the differences between the definitions of reactor control system (RCS) and reactor protection system (RPS). Other discussion topics included the designation of design bases, the independence of RCS and RPS, and a general outline and considerations for system performance analysis.

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ADAMS Accession Nos.: Package: ML15342A305; Notice: ML15324A115; Summary: ML15342A307
*concurrent via e-mail NRC-001

OFFICE	NRR/DPR/PLPB	NRR/DPR/LA*	NRR/DPR/PLPB	NRR/DPR/PLPB
NAME	CMontgomery	NParker	AAdams	CMontgomery
DATE	12/8/2015	12/8/2015	12/10/2015	12/10/2015

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LIST OF ATTENDEES

DECEMBER 4, 2015

<u>Name</u>	<u>Organization</u>
Robert Bean	Purdue University
Clive Townsend	Purdue University
Robert Abboud	Purdue University
Duane Hardesty	U.S. Nuclear Regulatory Commission (NRC)
Norbert Carte	NRC
Cindy Montgomery	NRC
Dan Warner	NRC
Robert Ammon	Mirion Technologies

Enclosure

Purdue University

Docket No. 50-182

cc:

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