

January 31, 2018

ORGANIZATIONS: National Organization of Test, Research, and Training Reactors and  
U.S. Nuclear Regulatory Commission

SUBJECT: SUMMARY OF SEPTEMBER 21, 2017, NON-POWER PRODUCTION  
OR UTILIZATION FACILITY DIGITAL INSTRUMENTATION AND  
CONTROL WORKSHOP, SAN DIEGO, CALIFORNIA

On September 21, 2017, a Category 3 public meeting was held between the U.S. Nuclear Regulatory Commission (NRC) staff and the National Organization of Test, Research, and Training Reactors (TRTR) at the TRTR Annual Conference, 1 Market Place, San Diego, California. The purpose of this meeting was to foster a common understanding related to digital instrumentation and control upgrades for the TRTR community and the NRC staff. The meeting notice and agenda, dated May 23, 2017, are available in the Agencywide Documents Access and Management System at Accession No. ML17263B084. A list of attendees is provided as an enclosure.

The workshop began with a discussion led by Mr. Dan Warner, on pre-application activities: phase zero meetings, suggested documentation, and acceptance reviews. Mr. Duane Hardesty presented on system and component classification and Title 10 of the *Code of Federal Regulations* Section 50.59 considerations and qualitative evaluations. Mr. Patrick Boyle gave a presentation on submitting a complete application. Mr. Boyle covered the contents of an application, including the safety analysis report and technical specifications, using the interim staff guidance and other guidance, and the process by which NRC requests additional information and licensees respond to these requests. Ms. Rosssnyev Alvarado presented on technical review considerations: site audits; commercial off the shelf systems versus home-built systems; and verification, validation and test planning. Three facilities, Massachusetts Institute of Technology, University of Massachusetts at Lowell, and Purdue University gave presentations on facility lessons-learned and feedback.

Please direct any inquiries to me at 301-415-3398, or by e-mail at [Cindy.Montgomery@nrc.gov](mailto:Cindy.Montgomery@nrc.gov).

Sincerely,

*/RA/*

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

Enclosure:  
As stated

cc: w/enclosure: See next page

SUBJECT: SUMMARY OF SEPTEMBER 21, 2017, NON-POWER PRODUCTION OR UTILIZATION FACILITY DIGITAL INSTRUMENTATION AND CONTROL WORKSHOP, SAN DIEGO, CALIFORNIA DATE: JANUARY 31, 2018

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**NRC-001**

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<b>NAME</b>	CMontgomery	NParker	AAdams	CMontgomery
<b>DATE</b>	1/19/18	1/24/18	1/31/18	2/1/18

**OFFICIAL RECORD COPY**

LIST OF ATTENDEES

THE NATIONAL ORGANIZATION OF TEST, RESEARCH, AND TRAINING REACTORS

September 21, 2017

<u>Name</u>	<u>Organization</u>
Don Chase	Curtiss-Wright
Dan Cronin	University of Florida
Maxwell Daniels	Idaho State University
Brenden Heidrich	Idaho National Laboratory
Max Nager	Kansas State University
Leo Bobek	University of Massachusetts at Lowell
Tom Regan	University of Massachusetts at Lowell
Sarah Don	Massachusetts Institute of Technology
Susan Tucker	Massachusetts Institute of Technology
Edward Lau	Massachusetts Institute of Technology
Roy Ray	Mirion Technologies
Jeremy Custer	University of Missouri
Bruce Meffert	University of Missouri
Craig Reisner	Missouri University of Science and Technology
Andrew Cook	North Carolina State University
Marcus Schwaderer	National Institute of Standards and Technology
Oscar Wiygul	National Institute of Standards and Technology
Tom Newton	National Institute of Standards and Technology
Andrew Main	National Institute of Standards and Technology
Susan White	Ohio State University
Robert Schickler	Oregon State University
Jeff Geuther	Pennsylvania State University
Dan Beck	Pennsylvania State University
Adams Tong	Pennsylvania State University
Jim Turso	Pennsylvania State University
Randall Hyde	Plantation Productions
Clive Townsend	Purdue University
David Storz	Purdue University
Melinda Krahenbuhl	Reed College
Jeff Davis	Rhode Island
Ryan Marcum	Schneider Electric
Jeff Tuetken	Thermo Fisher
Jere Jenkins	National Organization of Test, Research, and Training Reactors
Steve Miller	National Organization of Test, Research, and Training Reactors
Martin Harrison	Ultra Electronics
Walter Steingass	University of California at Davis
George Miller	University of California at Irvine
Johnathan Wallick	University of California at Irvine
Matthew Lund	University of Utah

Enclosure

Addressee List for Research and Test Reactor Licensees

cc:

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