

Dwight A. Clayton.
Post Office Box 2008
Oak Ridge, TN 37831-6174
Telephone: (865) 576-8134
Facsimile: (865) 574-5429
E-mail: claytonda@ornl.gov

August 9, 2012

Dr. Jeremy Busby
Oak Ridge National Laboratory
Nuclear Materials Aging and Degradation Pathway Lead
1 Bethel Valley Road
PO Box 2008 MS6138
Oak Ridge, TN 37831-6138

Dr. Jeremy Busby,

Successful Completion of the LWRS Concrete NDE Workshop

The purpose of this letter is to inform you that the workshop on nondestructive evaluation for concrete components typically found in a nuclear power plant (NPP) was successfully completed on July 31, 2012. The workshop was held at the Oak Ridge National Laboratory (ORNL) Conference Center with 28 attendees: four representatives from the Electrical Power Research Institute (EPRI), two representatives from the Nuclear Regulatory Commission (NRC), six representatives from universities (University of Tennessee-Knoxville, Georgia Tech, Iowa State University, and University of Houston), one representative from industry (WesDyne), one representative from a non-USA nonprofit organization (Swiss Association for Technical Inspection), and 14 representatives from DOE National Laboratories (ORNL, Pacific Northwest National Laboratory, Idaho National Laboratory, and Argonne National Laboratory).

As can be seen from the agenda (see attached) after an introduction to the challenges of making NDE measurements on thick sections of concrete as seen in NPPs, the focus of the workshop was defining R&D actions to address gaps between available techniques and the technology needed to make these measurements on our current NPP fleet. Several important themes were formulated:

- 1) Need to survey available samples
- 2) Technique to perform volumetric imaging on thick reinforced concrete sections
- 3) Determine physical and chemical properties as a function of depth
- 4) Techniques to examine interfaces between concrete and other materials
- 5) Development of acceptance criteria – model and validation

Information from this workshop and continuing communications with participants will be incorporated into the Research and Development (R&D) Roadmap for the LWRS-NDE Concrete effort.

Busby, J. T.
August 9, 2012
Page 2 of 2

If you have any questions or need additional information, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Dwight A. Clayton". The signature is written in a cursive style with a large, prominent 'D'.

Dwight A. Clayton, Leader
Electronic and Embedded Systems Group
Measurement Science and Systems Engineering Division

DAC:jmb

Attachment(s): Final Attendee List for Concrete
 Final Concrete Agenda