

MEETING CANCELED

April 24, 2007

MEMORANDUM TO: Andrea Valentin, Chief
Corrosion and Metallurgy Branch
Division of Fuel, Engineering, and Radiological Research
Office of Nuclear Regulatory Research

FROM: William Cullen, Project Manager **/RA/**
Corrosion and Metallurgy Branch
Division of Fuel, Engineering, and Radiological Research
Office of Nuclear Regulatory Research

SUBJECT: NOTICE OF MEETING BETWEEN THE NUCLEAR REGULATORY
COMMISSION (NRC) STAFF, ARGONNE NATIONAL LABORATORY
STAFF AND INDUSTRY REPRESENTATIVES ON PROGRAM PLANS
FOR ENVIRONMENTALLY ASSISTED CRACKING (EAC) OF LIGHT
WATER REACTOR (LWR) STRUCTURAL MATERIALS

DATE AND TIME: **MEETING CANCELED**
May 14, 2007; 8:30 a.m. - 4:45 p.m.
May 15, 2007; 8:30 a.m. - 3:00 p.m.

LOCATION: Room DL-208, Building 212
Argonne National Laboratory
9700 S. Cass Avenue
Argonne, IL 60439

PURPOSE: The purpose of this meeting is to coordinate and kick-off a research
program on EAC of LWR structural materials with the intention of
avoiding unnecessary overlap, minimizing attention on the most
important or timely topics, and appraising each other of recent, germane
results or redirection. This meeting will cover the following topics:
evaluation of the causes and mechanisms of irradiation assisted stress
corrosion cracking (IASCC) in boiling water reactors, evaluation of the
causes and mechanisms of IASCC of austenitic stainless steels in
pressurized water reactors, and cracking of nickel alloys and welds.

PARTICIPANTS: USNRC
W. Cullen, RES/DFERR/ME/CMB
E. Reichelt, RES/DFERR/ME/CMB
S. Crane, RES/DFERR/ME/CMB
Industry
A. Ahluwalia, EPRI
A. Demma, EPRI
P. Crooker, EPRI
R. Hall, Exelon
J. Smith, Exelon
J. Wilson, Exelon

Argonne National Laboratory
O. Chopra
Y. Chen
B. Alexandreanu

CATEGORY: This is a category 2 meeting. The public is invited to participate in this meeting by discussing regulatory issues with the NRC at a designated point identified on the agenda.

Enclosure:
Agenda

*Meetings between NRC technical staff and applicants or licensees are open for interested members of the public, petitioners, interveners, or other parties to attend pursuant to the Commission Policy Statement on "Staff Meetings Open to the Public: Final Policy Statement," 67 Federal Register 36920, May 28, 2002. Members of the public who wish to attend should contact Samantha Crane at (301) 415-6380 or stc3@nrc.gov for information.

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B. Sheron	J. Wiggins
M. Cunningham	J. Uhle
A. Valentin	D. A. Jackson
R. Hardies	C. Moyer
E. Reichelt	M. Mayfield
W. Bateman	T. Chan
E. Sullivan	J. Collins
W. Koo	

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NAME	W.Cullen /RA/	A. Valentin /RA/ William Cullen for	W.Cullen /RA/	A. Valentin /RA/ William Cullen for
DATE	04 /24/07	04 /24/07	04/24/07	04/24/07

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MEETING CANCELED

AGENDA

Kick-Off Meeting for ANL Program on
Environmentally Assisted Cracking of LWR Structural Materials
May 14 and 15, 2007
Room DL-208, Building 212
Argonne National Laboratory

Monday May 14, 2007

08:30-08:45 Welcome (Chris Grandy)

08:45-09:00 NRC Comments

09:00-09:15 EAC Program Overview (Omesh Chopra)

Task 1: Evaluation of the Causes and Mechanisms of IASCC in BWRs

09:15-09:30 Overview - Prior Effort (Omesh Chopra)

09:30-10:15 IASCC of Halden Materials (Yiren Chen)

10:15-10:30 Break

10:30-11:30 Crack Growth & Fracture Toughness of Irradiated SSs (Omesh Chopra)

11:30-11:50 Scope of Future Work (Omesh Chopra)

11:50-12:00 Questions/Comments from Public Participants

12:00-01:00 Lunch

01:00-02:30 ***Tour of Hot-Cell Mechanical Test Facility*** (Yiren Chen, Omesh Chopra)

02:30-02:45 Break

Task 2: Evaluation of the Causes and Mechanisms of IASCC of Austenitic SSs in PWRs

02:45-03:00 Overview - Prior Effort (Omesh Chopra)

03:00-03:30 IASCC of BOR-60 Materials Preliminary Results (Yiren Chen)

03:30-04:00 Microstructural Examination of 20 dpa BOR-60 Materials (Yiren Chen)

04:00-04:15 Ball Punch Tests (Bill Soppet)

04:15-04:35 Scope of Future Work (Omesh Chopra)

04:35-04:45 Questions/Comments from Public Participants

ENCLOSURE

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Kick-Off Meeting for ANL Program on
Environmentally Assisted Cracking of LWRs
May 14 and 15, 2007
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Tuesday May 15, 2007

Task 3: Cracking of Nickel Alloys and Welds

- 08:30-08:45 Overview - Prior Effort (Omesh Chopra)
- 08:45-09:15 Metallographic Studies (Bogdan Alexandreanu)
- 09:15-10:00 CGRs of Ni-Alloy Welds in PWR Water (Bogdan Alexandreanu)
- 10:10-10:15 Break
- 10:15:10:45 Activation Energy for SCC Growth of Ni-Alloy Welds (Bogdan Alexandreanu)
- 10:45-11:30 CGRs of Alloys 600 & 690 in PWR Water (Bogdan Alexandreanu)
- 11:30-12:00 Scope of Future Work (Omesh Chopra)
- 12:00-01:00 Lunch
- 01:00-02:30 ***Tour of Crack Growth Test Facility*** (Bill Soppet, Bogdan Alexandreanu)
- 02:30-02:50 Discussion of All Tasks
- 02:50-03:00 Questions/Comments from Public Participants

ENCLOSURE