

April 9, 2013

MEMORANDUM TO: Gloria J. Kulesa, Chief
Steam Generator Tube Integrity and
Chemical Engineering Branch
Division of Engineering
Office of Nuclear Reactor Regulation

FROM: Aloysius O. Obodoako, Materials Engineer */RA/*
Steam Generator Tube Integrity and
Chemical Engineering Branch
Division of Engineering
Office of Nuclear Reactor Regulation

SUBJECT: SUMMARY OF THE MARCH 14, 2013, CATEGORY 2 PUBLIC
MEETING WITH NUCLEAR INDUSTRY VENDORS TO DISCUSS
NEUTRON ABSORBING MATERIALS IN SPENT FUEL POOLS

On March 14, 2013, the Nuclear Regulatory Commission (NRC) staff participated in a public meeting with nuclear industry vendors regarding neutron absorbing materials in spent fuel pools. The meeting was held at the NRC Two White Flint North building in Rockville, Maryland. The topics discussed are summarized in the staff and industry slides, which are available in the Agencywide Documents Access and Management System (ADAMS) under Accession No. ML13095A175. This meeting was noticed as a public meeting and the notice can be found under ADAMS Accession No. ML13053A229. The meeting agenda found in the meeting notice was amended and the amended version is provided in the enclosure, along with a list of those in attendance.

The purpose of the meeting was for NRC staff to dialogue with nuclear industry vendors on relevant information pertaining to neutron absorbing materials. Neutron absorbers are important because many licensees credit them for maintaining subcriticality in their spent fuel pools. At the meeting, the vendors gave presentations on more recently developed neutron absorbing materials for spent fuel pool applications. In particular, the vendors presented information on various topics such as manufacturing processes, quality controls, testing, and material properties.

CONTACT: Aloysius O. Obodoako, NRR/DE/ESGB
(301) 415-1502

Enclosure:
Meeting Agenda and List of Attendees

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Enclosure:
Meeting Agenda and List of Attendees

ADAMS Accession Numbers:
Summary: ML13095A168
Presentations: ML13095A175
Public Meeting Notice: ML13053A229

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|---------------|-------------|-------------|
| OFFICE | NRR/DE/ESGB | NRR/DE/ESGB |
| NAME | AObodoako | GKulesa |
| DATE | 04/05/2013 | 04/09/2013 |

OFFICIAL RECORD COPY

Memo to Gloria J. Kulesa from Aloysius O. Obodooako dated

SUBJECT: SUMMARY OF THE MARCH 14, 2013, CATEGORY 2 PUBLIC MEETING WITH NUCLEAR INDUSTRY VENDORS TO DISCUSS NEUTRON ABSORBING MATERIALS IN SPENT FUEL POOLS

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| EWong | CHunt | MYoder | APatel |

AGENDA FOR MEETING WITH NUCLEAR
INDUSTRY VENDORS – NEUTRON ABSORBING
MATERIALS IN SPENT FUEL POOLS
AT U.S. NUCLEAR REGULATORY COMMISSION
ADVISORY COMMITTEE ON REACTOR SAFEGUARDS (ACRS) ROOM T-2B3
11545 ROCKVILLE PIKE, ROCKVILLE, MARYLAND 20852
MARCH 14, 2013, 1:00 PM – 5:00 PM

Teleconference Number: 800-369-1716, Pin: 26751

| | |
|--|------------------------|
| Meeting Check-in | 12:45 – 1:00 PM |
| Opening Remarks: Mike Cheok, Deputy Director, DE/NRR | 1:00 – 1:05 PM |
| Aude Prestl, BÖHLER Bleche GmbH & Co KG Topic: Neutronit® | 1:05 – 1:30 PM |
| Laszlo Zsidai, Project Manager/Materials Engineer, Holtec Topic: Metamic Inserts and the Installation Process | 1:30 – 1:55 PM |
| Annie Villeneuve, Product Manager, Ceradyne Inc. Topic: Ceradyne Canada's Neutron Absorbers | 1:55 – 2:20 PM |
| Louis Lherbier, Director, Carpenter Technology Corporation Topic: Micro-Melt® DuoSorb™ and NeutroSorb® Alloys | 2:20 – 2:45 PM |
| Kazuto Sanada, General Manager, Nippon Light Metal Topic: MAXUS® | 2:45 – 3:10 PM |
| Break | 3:10 – 3:20 PM |
| Pierre Marchand, Rio Tinto Alcan Topic: Boralcan™ | 3:20 – 3:45 PM |
| Charles Stinner, Allegheny Technologies Inc. Topic: NuShield™ Borated Stainless Steels | 3:45 – 3:55 PM |
| Matt Eyre, Director, Northeast Technology Corporation (NETCO) Topic: NETCO Snap-In Projects | 3:55 – 4:05 PM |
| Public Comments/Questions | 4:05 – 4:20 PM |
| Break | 4:20 – 4:25 PM |
| Closed Portion of Meeting | |
| Matt Eyre, Director, NETCO | 4:25 – 4:40 PM |
| Charles Stinner, Allegheny Technologies Inc. | 4:40 – 4:55 PM |

ENCLOSURE

LIST OF ATTENDEES
MARCH 14, 2013, MEETING WITH THE NUCLEAR INDUSTRY
REGARDING NEUTRON ABSORBING MATERIAL DEGRADATION
IN SPENT FUEL POOLS

Industry

Charles Stinner, ATI
Xavier Clausse, NLM
Robert Cote, BÖHLER Bleche
Keith Waldrop, EPRI
Matt Eyre, NETCO
Matt Harris, NETCO
Toshiaki Yamazaki, Nikkeikin ACT
Al Strasser, Aquarius Services
Annie Villeneuve, Ceradyne Canada
Kazuto Sanada, NLM
Aude Prestl, BÖHLER Bleche
Pierre Marchand, Rio Tinto Alcan
David Novotnak, Carpenter
Andy Jung, AREVA
Louis Lherbier, Carpenter
Andrew Yeshnik, AREVA
Greg Del Corso, Carpenter
Hiruy Hadsu, AREVA
Daisuke Nagasawa, NLM
John Kessler, EPRI
Rod McCullum, NEI
Laszlo Zsidai, Holtec

Phone Participants

Robert Smith, AREVA
Vefa N. Kucukboyaci, Westinghouse
Emilio Fuentes, NextEra Energy
Glenn Adams, Xcel Energy
Jim Rootes, Xcel Energy
Kevin Koski, FENOC
Dave Overton, FENOC

NRC

Mike Cheok
Christopher Hunt
Tanya Hood
John Wise
Jen Gall
Emma Wong
Mirela Gavrilas
Matthew Gordan
Kent Wood
Greg Makar
Jay Wallace
April Pulvirenti
Aloysius Obodoako
Gloria Kulesa