

April 7, 2014

MEMORANDUM TO: William D. Reckley, Chief
Policy and Support Branch
Japan Lessons-Learned Project Directorate
Office of Nuclear Reactor Regulation

FROM: Rajender Auluck, Senior Project Manager **/RA/**
Policy and Support Branch
Japan Lessons-Learned Project Directorate
Office of Nuclear Reactor Regulation

SUBJECT: SUMMARY OF MARCH 5, 2014 MEETING TO DISCUSS
ACTIVITIES ASSOCIATED WITH IMPLEMENTATION OF
NEAR - TERM TASK FORCE RECOMMENDATION 5.1
RELATED TO CONTAINMENT VENTING SYSTEMS

On March 5, 2014, a Category 2 public meeting was held between the U. S. Nuclear Regulatory Commission (NRC) staff, and representatives from the Nuclear Energy Institute (NEI) and the Boiling Water Reactor Owners Group (BWROG) related to the Implementation of Recommendation 5.1 of the Near-Term Task Force (NTTF) Recommendations for Enhancing Reactor Safety in the 21st Century report, issued July 12, 2011, (Agencywide Documents Access and Management System (ADAMS) Accession No. ML111861807). As in previous public meetings on this subject, the focus of the meeting was to continue discussions on the development of a template for use by Boiling Water Reactor (BWR) licensees with Mark I and Mark II containments in responding to the requirements of Order EA-13-109, issued on June 6, 2013, "Reliable Severe Accident Capable Hardened Containment Venting System" [HCVS] (ADAMS Accession No. ML13130A067).

The NRC staff opened the meeting, thanked everyone for supporting these public meetings; and highlighted the importance of these public meetings in developing a template which includes appropriate vent design and other relevant information to meet the order requirements. In their opening remarks, the NEI 13-02 core team representative also thanked the NRC staff for holding these public meetings and stated that these meetings have been very useful and substantial progress has been made in developing appropriate template elements.

Following the introductory remarks, the NRC staff first provided their comments on selected issues raised by the industry working group (WG) at the February 19, 2014, public meeting. These were part of the frequently asked questions (FAQs) process database developed by the industry WG. The subject areas included: HCVS-01: Primary and Alternate Controls and Monitoring Locations, HCVS-03: Alternate Control Operating Mechanisms, HCVS-04: HCVS Release Point, and HCVS-05: HCVS Control and Boundary valves.

CONTACT: Rajender Auluck, NRR/JLD
301-415-1025

Specifically, for HCVS-01, the staff agrees that the main control room (MCR) is the preferred primary location and implementation procedures must recognize that during severe accident conditions, MCR may not meet the general design Criteria 19 requirements and special measures may be needed to continue to operate the HCVS. Additionally, the overall integrated plan (OIP) should clearly identify the minimum operator actions that are being relied upon to assure operating capability of HCVS equipment. With respect to HCVS-05, the staff suggested that the OIP should include details of the current design of the boundary valves, and the modifications that will be performed to achieve conformance with the requirements of Order EA-13-109. These staff comments were also summarized in the handout slides (ADAMS Accession No. ML14071A527) provided at the meeting. The NRC staff also provided specific comments on selected sections of the draft Edwin I. Hatch Nuclear Plant, Units 1 and 2 (Hatch) - OIP. The Hatch plant was selected as the pilot for BWR Mark I licensees' for their OIP submittals. These were also included in the meeting handouts. The industry WG agreed to review those comments and will make appropriate changes to the draft template.

The industry core team representative briefly summarized their interpretation and initial responses to the staff comments on FAQs HCVS-01, HCVS-03, and HCVS-05. They also described a new FAQ HCVS-09 related to use of "Toolbox" which will include actions within the skill of the craft or general personnel knowledge. Examples could include: opening of doors when room temperature becomes elevated, use of flash lights, exchange of personnel, and use of small fans for air movement. The Next presentation included an overview of the "White Paper" (WP) HCVS-WP-01 related to HCVS dedicated motive force. As stated in previous public meetings, the industry WG is preparing "White Papers" on selected topics and would request NRC staff review and acceptance. The contents of HCVS-WP-01 includes scope of operator actions for selected HCVS electrical and pneumatic power supplies, HCVS components powered electrically or pneumatically by non-dedicated sources, and sharing of portions of HCVS and components with other plant systems. In summary, HCVS-WP-01 conclusions includes: (i) use of some plant components to supply HCVS electrical and pneumatic power provided these components can supply for 24 hours with simple and easily accomplished operator action, and (ii) use of portable equipment after 24 hours to replenish these power supplies provided the planned actions are evaluated with expected plant conditions and the location the action will take place. The NRC staff stated that they will review this WP and provide their comments at the next public meeting scheduled for March 26, 2014. The industry presentation also noted that two other WPs, HCVS-WP-03: Hydrogen/CO Control Measures and HCVS-WP-04: FLEX/HCVS Interactions are under development and will be sent to the NRC for staff reviews.

The second part of the meeting related to discussions on template development for use by the BWR Mark I and II licensees in preparation of their OIP and NRC staff comments on Hatch plant draft template which is the pilot for severe accident HCVS OIP template for licensees with BWR Mark I containments. The specific comments were included in the slides and are attached to this meeting summary. The last part of the industry presentation focused on the Nine Mile Point Nuclear Station, Unit 2 Severe Accident HCVS pilot template which is a BWR Mark II OIP template and highlighted the differences from BWR Mark I pilot. These differences included site characteristics, time and environment items, use and sharing of components, discharge point location, and use of power supplies. These were also summarized in the meeting handouts. The NRC staff agreed to review these items and will provide their comments at the next public meeting. The industry WG also confirmed the dates for the proposed industry template workshop as April 9 and 10, 2014 for all BWR Mark I and II licensees and the need to finalize

the OIP template as soon as possible. The NRC staff agreed to support their schedule to the extent possible.

Members of the public attended in person, through the bridge-line and via webcast. At designated points during the meeting, members of the public were invited to provide any comments on the presentations. Members of the public asked some clarifying questions. The NRC staff responded to all questions adequately.

Enclosure:
List of Attendees

the OIP template as soon as possible. The NRC staff agreed to support their schedule to the extent possible.

Members of the public attended in person, through the bridge-line and via webcast. At designated points during the meeting, members of the public were invited to provide any comments on the presentations. Members of the public asked some clarifying questions. The NRC staff responded to all questions adequately.

Enclosure:
List of Attendees

DISTRIBUTION:

PUBLIC

JLD R/F

RidsOpaMail

TWertz

RidsNrrDorl

RidRidsRgn1MailCenter

RidsRgn2MailCenter

RAuluck

RidsRgn3MailCenter

DScrenci

RidsRgn4MailCenter

RHannah

RidsAcrcAcnw_MailCTR

VMitlyng

SKennedy

VDricks

RidsNrrLASLent

ADAMS Accession Nos.: (Pkg) ML14091A107; (Summary) ML14091A124 *via email

OFFICE	NRR/JLD/PSB/PM	NRR/JLD/LA*	NRR/JLD/PSB/PM	NRR/JLD/PSB/PM
NAME	RAuluck	SLent	WReckley	RAuluck
DATE	04/2/2014	04/1/2014	04/3/2014	04/7/2014

OFFICIAL RECORD COPY



NRC Public Meeting
Recommendation 5.1 Related to Containment Venting System
March 5, 2014
List of Attendees

Name	Organization
Rajender Auluck	Nuclear Regulatory Commission (NRC)
Randy Bunt	Southern Nuclear Operating Company (SNC)
William Reckley	NRC
Nageswara Karipineni	NRC
Jerome Bettel	NRC
Karl Sturzebecher	NRC
Sud Basu	NRC
Ed. Fuller	NRC
Kevin Witt	NRC
Paul Gunter	Beyond Nuclear
Deep Ghosh	SNC
Phil Amway	CENG
Robert Ginsberg	Brunswick Plant
Jena Bergman	Curtis-Wright Corp.
Lisa Matis	Tetrattech
Nancy Chapman	Bechtel
Richard Rogaliski	Columbia Station
Thomas Hafera	Worley Parson
Derwood Tootle	Southern Nuclear
Tom Parker	Boiling Water Reactor Owners Group
Michael Gowthers	PPS Susquehanna
David Burch	Fitzpatrick Plant
Dan Jacobson	Entergy

Enclosure