March 25, 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 FEBRUARY 19, 2014 MEETING TO DISCUSS ACTIVITIES ASSOCIATED WITH IMPLEMENTATION OF NEAR - TERM TASK FORCE RECOMMENDATION 5.1 RELATED TO CONTAINMENT VENTING SYSTEMS

On February 19, 2014, a Category 2 public meeting was held between the 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). 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" (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 sufficient vent design 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 agreed with the staff for the need to develop appropriate template elements.

Following the introductory remarks, the NRC staff first provided their interpretation on some of the questions raised and clarifications requested by the industry working group (WG) at the January 29, 2014 public meeting. These were part of the frequently asked questions (FAQs) process database presented at the January 29, 2014 meeting. The subject areas included:HCVS-04: Hardened Containment Venting System (HCVS) Release Point, HCVS-05: HCVS Functional Boundary valves, and HCVS-07: Source Term from Spent Fuel Pool (SFP). Specifically, for HCVS-04, the staff clarified that the referenced plant stack is the single highest release point currently existing at the site. Additionally, the overall integrated plan (OIP) should

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recognize that a mixing zone at the vent discharge exists where an gaseous flow will mix with air and result in a flammable or detonable mixture. With respect to HCVS-05, the staff suggested that the OIP should include acceptable leakage criteria for the boundary and control valves. These staff comments were also summarized in the handout slides (ADAMS Accession No. ML14052A039) provided at the meeting. The NRC staff also provided specific comments on selected sections of the draft OIP. These were also included in the meeting handouts. The industry working group agreed to review those comments and will make appropriate changes to the draft template.

The industry core team representative briefly summarized the second set of FAQs raised by the affected BWR licenses. These were HCVS-06: FLEX Assumptions/HCVS Generic Assumptions, HCVS-07: Consideration of Release from Spent Fuel Pool Anomalies, and HCVS-08: HCVS Instrumentation Qualification. The industry representatives provided their views and recommendations on these three areas, which were also included in their meeting slides, which can be found in ADAMS under Package Accession No. ML14079A106 . The NRC staff agreed to review these industry positions and will be prepared to discuss them at the next public meeting. The industry presentation also noted the development of “White Papers” on the selected topics. The current list includes HCVS-WP-01: HCVS Dedicated Power and Motive Force, HCVS-WP-02: HCVS Cyclic Operations Approach, HCVS-WP-03: Hydrogen/CO Control Measures, and HCVS-WP-04: FLEX/HCVS Interactions. The details will be presented in a future meeting.

The second part of the meeting related to discussions on template development, which will be used by the BWR Mark I and II licensees in preparation of their OIP which is scheduled for submittal to the NRC by June 30, 2014. The presentation focused on the Edwin I. Hatch Nuclear Plant, severe accident HCVS pilot template elements. The draft plan will include a description of how compliance with the Phase 1 requirements described in Attachment 2 of Order EA-13-109 will be achieved. The slide presentation provided details on several areas of the proposed submittal. These included HCVS venting timelines, site characteristics, time and environmental constraint items, vent characteristics, use of portable equipment, and examples of drawings. The presentation also noted that the industry WG is currently preparing a draft OIP for Nine Mile Point Nuclear Station, Unit 2 and will be prepared to discuss it at the next public meeting. As stated in previous meetings, the main objective and goals of these pilot plants, is to promote consistency in industry responses, and identify problem areas which may require additional focus early in the OIP preparation process. 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 it is important to finalize the OIP template by late March 2014. 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

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:
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ADAMS Accession Nos.: (Pkg) ML14079A106; (Summary) ML14079A116 *via email

OFFICE	NRR/JLD/PSB/PM	NRR/JLD/LA*	NRR/JLD/PSB/PM	NRR/JLD/PSB/PM
NAME	RAuluck	SLent	WReckley	RAuluck
DATE	03/24/2014	03/20/2014	03/25/2014	03/25/2014

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NRC Public Meeting
Recommendation 5.1 Related to Containment Venting System
February 19, 2014
List of Attendees

Name	Organization
Rajender Auluck	Nuclear Regulatory Commission(NRC)
Steve Kraft	Nuclear Energy Institute(NEI)
William Reckley	NRC
Nageswara Karipineni	NRC
Jerome Bettle	NRC
Karl Sturzebecher	NRC
Sud Basu	NRC
Ed. Fuller	NRC
Jeff Gabor	ERIN
Paul Gunter	Beyond Nuclear
Randy Bunt	Sierra Nuclear Corp
Phil Amway	CENG
Timothy Moran	Bechtel
Francis Loscalzo	Tennessee Valley Authority
Tom Stevens	NEI
Nancy Chapman	Bechtel
Karen Fujikawa	Westinghouse
Stephen Curtis	Southern Nuclear
Derwood Tootle	Southern Nuclear
Tom Parker	Boiling Water Reactor Owners Group
James Shey	NRC
Patrick Fallon	DTE Energy
Robert Callon	Public

Enclosure