

April 14, 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 26, 2014 MEETING TO DISCUSS  
ACTIVITIES ASSOCIATED WITH IMPLEMENTATION OF  
NEAR - TERM TASK FORCE RECOMMENDATION 5.1  
RELATED TO CONTAINMENT VENTING SYSTEMS

On March 26, 2014, a Category 2 public meeting was held between the U. S. Nuclear Regulatory Commission (NRC) staff, 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 and to finalize to the extent possible 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 noted that substantial progress has been made in developing a template which will include adequate vent design and other appropriate 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 agreed with the staff that substantial progress has been made in developing template elements.

Following introductory remarks, the industry representative summarized the template development process and the progress made so far by the working group (WG). Next, the industry WG representative provided responses to the staff questions on the draft Nine Mile Point Nuclear Station, Unit 2 (NMP 2) Overall Integrated Plan (OIP).

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

These related to (1) Assumption 049-8 "All activities associated with Order EA-12-049 (FLEX) that are not specific to implementation of the HCVS (i.e., HCVS valves, instruments and motive force) can be credited as having been accomplished," (2) Assumption 109-10 "Permanent modifications installed per Order EA-12-049 are assumed implemented and may be credited for use in OrderEA-13-109 response," (3) Seismic qualification of the reactor building track bay structure, (4) Vent path and discharge schematic, and several questions and clarifications regarding instrumentation control systems. These responses were included in the slides provided at the meeting (ADAMS Accession No. ML14084A521). The staff was generally satisfied with the industry responses. However, the staff did highlight the concern that if the alternate Order EA-13-109 panel is located in the reactor building track bay which is not classified as a category 1 structure, security concerns must be addressed for this area during normal and outage conditions. Next, the NRC staff summarized their comments in the instrumentation and controls area on draft OIP's for the Edwin I. Hatch Nuclear Plant and NMP 2 . Most of these comments were already included in industry's presentation. The staff's main suggestion was to include as much information and detail as possible in this area.

Next, the staff provided their specific comments on the generic HCVS Phase 1 OIP template, Revision E3-1, dated March 13, 2014 (ADAMS Accession No. ML14083A443). Many of these comments focused on Part 2 of the template related to boundary conditions for the wet well vent and design considerations. These included location of control panels, power and pneumatic power sources, cross flow of vented fluids, and component qualifications. The staff also suggested that it would be useful to include conceptual sketches of plan view and vertical cross sections to show vent line routing and location of HCVS components.

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

These related to (1) Assumption 049-8 "All activities associated with Order EA-12-049 (FLEX) that are not specific to implementation of the HCVS (i.e., HCVS valves, instruments and motive force) can be credited as having been accomplished," (2) Assumption 109-10 "Permanent modifications installed per Order EA-12-049 are assumed implemented and may be credited for use in Order EA-13-109 response," (3) Seismic qualification of the reactor building track bay structure, (4) Vent path and discharge schematic, and several questions and clarifications regarding instrumentation control systems. These responses were included in the slides provided at the meeting (ADAMS Accession No. ML14084A521). The staff was generally satisfied with the industry responses. However, the staff did highlight the concern that if the alternate Order EA-13-109 panel is located in the reactor building track bay which is not classified as a category 1 structure, security concerns must be addressed for this area during normal and outage conditions. Next, the NRC staff summarized their comments in the instrumentation and controls area on draft OIP's for the Edwin I. Hatch Nuclear Plant and NMP 2 plants. Most of these comments were already included in industry's presentation. The staff's main suggestion was to include as much information and detail as possible in this area.

Next, the staff provided their specific comments on the generic HCVS Phase 1 OIP template, Revision E3-1, dated March 13, 2014 (ADAMS Accession No. ML14083A443). Many of these comments focused on Part 2 of the template related to boundary conditions for the wet well vent and design considerations. These included location of control panels, power and pneumatic power sources, cross flow of vented fluids, and component qualifications. The staff also suggested that it would be useful to include conceptual sketches of plan view and vertical cross sections to show vent line routing and location of HCVS components.

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	RAuluck	RHannah
JLD R/F	RidsRgn3MailCenter	VMitlyng
RidsOpaMail	RidsRgn4MailCenter	SKennedy
TWertz	RidsAcrcAcnw_MailCTR	VDricks
RidsNrrDorl	RidsNrrLASLent	
RidRidsRgn1MailCenter	DScrenci	
RidsRgn2MailCenter		

**ADAMS Accession Nos.:** (Pkg) ML14100A147; (Summary) ML14100A144 \*via email

OFFICE	NRR/JLD/PSB/PM	NRR/JLD/LA*	NRR/JLD/PSB/PM	NRR/JLD/PSB/PM
NAME	RAuluck	SLent	WReckley	RAuluck
DATE	04/9/2014	04/ 9/2014	04/14/2014	04/14/2014

**OFFICIAL RECORD COPY**



**NRC Public Meeting  
Recommendation 5.1 Related to Containment Venting System  
March 26, 2014  
List of Attendees**

<b>Name</b>	<b>Organization</b>
Rajender Auluck	Nuclear Regulatory Commission (NRC)
Randy Bunt	Southern Nuclear Operating Company (SNC)
William Reckley	NRC
Nageswara Karipineni	NRC
Jerome Bettie	NRC
Karl Sturzebecher	NRC
Sud Basu	NRC
Steve Kraft	Nuclear Energy Institute
Brett Titus	NRC
Paul Gunter	Beyond Nuclear
Steven Curtis	SNC
Phil Amway	CENG
Robert Ginsberg	Brunswick Plant
Jena Bergman	Curtis-Wright Corp.
Robert Janecek	Sargent & Lundy LLC
Nancy Chapman	Bechtel
Richard Rogaliski	Columbia Station
Dennis Henneke	General Electric Hitachi (GEH)
Terry Farthing	GEH
Marvin Lewis	Public
Steve Dolly	PLATTS
Edward Bates	CENG
Dan Jacobson	Entergy

Enclosure