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DEC 23 2014

U.S. Nuclear Regulatory Commission  
ATTN: Document Control Desk  
Washington, DC 20555-0001

**SUSQUEHANNA STEAM ELECTRIC STATION  
FIRST SIX-MONTH STATUS REPORT IN RESPONSE  
TO JUNE 6, 2013 COMMISSION ORDER MODIFYING  
LICENSES WITH REGARD TO RELIABLE HARDENED  
CONTAINMENT VENTS CAPABLE OF OPERATION  
UNDER SEVERE ACCIDENT CONDITIONS  
(ORDER NUMBER EA-13-109)  
PLA-7269**

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**Docket Nos. 50-387  
and 50-388**

References:

1. *NRC Order Number EA-13-109, Order Modifying Licenses with Regard to Reliable Hardened Containment Vents Capable of Operation Under Severe Accident Conditions, dated June 6, 2013.*
2. *NRC Interim Staff Guidance JLD-ISG-2013-02, "Compliance with Order EA-13-109, Order Modifying Licenses with Regard to Reliable Hardened Containment Vents Capable of Operation Under Severe Accident Conditions," Revision 0, dated November 2013 (Accession No. ML13304B836).*
3. *NRC Endorsement of industry "Hardened Containment Venting System (HCVS) Phase 1 Overall Integrated Plan Template (EA-13-109) Rev 0" (Accession No. ML14128A219).*
4. *NEI 13-02, "Industry Guidance for Compliance with NRC Order EA-13-109, "To Modify Licenses with Regard to Reliable Hardened Containment Vents Capable of Operation under Severe Accident Conditions," Revision 0, dated November 2013.*
5. *PPL Letter (PLA-7180), "Overall Integrated Plan in Response to June 6, 2013 Commission Order Modifying Licenses with Regard to Reliable Hardened Containment Vents Capable of Operation Under Severe Accident Conditions (Order Number EA-13-109)," dated June 26, 2014.*

On June 6, 2013, the Nuclear Regulatory Commission ("NRC" or "Commission") issued an order (Reference 1) to PPL Susquehanna, LLC (PPL). Reference 1 was immediately effective and directs PPL to install a venting capability in accordance with the requirements outlined in Attachment 2 of Reference 1.

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Reference 1 required submission of a Phase 1 Overall Integrated Plan pursuant to Section IV, Condition D. Reference 2 endorses industry guidance document NEI 13-02, Revision 0 (Reference 4) with clarifications and exceptions identified in Reference 2. Reference 5 provided PPL's initial Reliable Hardened Containment Vent Overall Integrated Plan.

Reference 1 requires submission of a status report at six-month intervals following submittal of the Overall Integrated Plan. References 2 and 4 provide direction regarding the content of the status reports. The purpose of this letter is to provide the first six-month status report pursuant to Section IV, Condition D, of Reference 1, that delineates progress made in implementing the requirements of Reference 1. The enclosed Status Report provides the first update of milestone accomplishments since submittal of the Overall Integrated Plan, including any changes to the compliance method, schedule, or need for relief and the basis, if any.

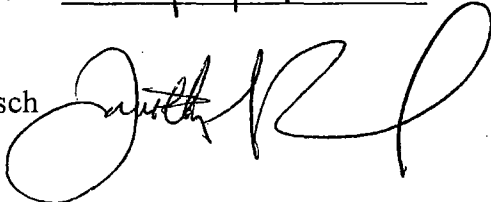
This letter contains no new regulatory commitments.

If you have any questions regarding this report, please contact Mr. Jeffery N. Grisewood at 570-542-1330.

I declare under penalty of perjury that the foregoing is true and correct.

Executed on: 12/23/14

T. S. Rausch



Enclosure: PPL Susquehanna, LLC's First Six-Month Status Report in Response to the June 6, 2013 Commission Order Modifying Licenses with Regard to Reliable Hardened Containment Vents Capable of Operation Under Severe Accident Conditions (Order Number EA-13-109)

cc: Director, Office of Nuclear Reactor Regulation  
NRC Region I  
Mr. Rajender Auluck, NRR/JLD/PSB, NRC  
Mr. J. E. Greives, NRC Sr. Resident Inspector  
Mr. W. D. Reckley, NRR/JLD/PSB, NRC  
Mr. J. A. Whited, NRC Project Manager  
Mr. L. J. Winker, PA DEP/BRP

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**Enclosure to PLA-7269**

**First Six-Month Status Report  
In Response to the June 6, 2013 Commission Order  
Modifying Licenses with Regard to Reliable Hardened  
Containment Vents Capable of Operation  
Under Severe Accident Conditions  
(Order Number EA-13-109)**

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**PPL Susquehanna, LLC's First Six Month Status Report for the Implementation of Order EA-13-109, "Order Modifying Licenses with Regard to Reliable Hardened Containment Vents Capable of Operation under Severe Accident Conditions"**

**1 Introduction**

PPL Susquehanna LLC developed an Overall Integrated Plan (Reference 1 in Section 8), documenting the installation of a Hardened Containment Vent System (HCVS) that provides a reliable hardened venting capability for pre-core damage and under severe accident conditions, including those involving a breach of the reactor vessel by molten core debris, in response to Reference 2. This attachment provides an update of milestone accomplishments since submittal of the Phase 1 Overall Integrated Plan, including any changes to the compliance method, schedule, or need for relief/relaxation and the basis, if any.

**2 Milestone Accomplishments**

None

**3 Milestone Schedule Status**

The following provides an update to the Milestone schedule included in the Overall Integrated Plan. It provides the activity status of each item, and whether the expected completion date has changed. The dates are planning dates subject to change as design and implementation details are developed.

<b>Milestone</b>	<b>Target Completion Date</b>	<b>Activity Status</b>	<b>Comments {Include date changes in this column}</b>
<b>Phase 1 HCVS Milestone Table</b>			
Hold preliminary/conceptual design meeting	June 2014	Complete	
Submit Overall Integrated Plan	June 2014	Complete	
Submit 6 Month Status Report 1	Dec. 2014	Complete	
Submit 6 Month Status Report 2	June 2015	Not Started	
Submit 6 Month Status Report 3 - Simultaneous with Phase 2 OIP	Dec. 2015	Not Started	
U2 Design Engineering Complete	Mar. 2016	Not Started	
Submit 6 Month Status Report 4	June 2016	Not Started	
U2 Operations Procedure Changes Developed	Dec. 2016	Not Started	
U2 Maintenance Procedure Changes Developed	Dec. 2016	Not Started	
Submit 6 Month Status Report 5	Dec. 2016	Not Started	
U2 Training Complete	Dec. 2016	Not Started	
U2 Implementation Outage	Feb. 2017	Not Started	

Milestone	Target Completion Date	Activity Status	Comments {Include date changes in this column}
<b>Phase 1 HCVS Milestone Table</b>			
U2 Procedure Changes Active	Mar. 2017	Not Started	
U2 Walk Through Demonstration/Functional Test	Mar. 2017	Not Started	
U1 Design Engineering Complete	Mar. 2017	Not Started	
Submit 6 Month Status Report 6	June 2017	Not Started	
Submit 6 Month Status Report 7	Dec. 2017	Not Started	
U1 Operations Procedure Changes Developed	Dec. 2017	Not Started	
U1 Maintenance Procedure Changes Developed	Dec. 2017	Not Started	
U1 Training Complete	Dec. 2017	Not Started	
U1 Implementation Outage	Feb. 2018	Not Started	
U1 Procedure Changes Active	Mar. 2018	Not Started	
U1 Walk Through Demonstration/Functional Test	Mar. 2018	Not Started	
Submit Phase 1 Compliance Letter	May 2019	Not Started	

**4 Changes to Compliance Method**

There are no changes to the compliance method as documented in the Phase 1 Overall Integrated Plan (Reference 1).

**5 Need for Relief/Relaxation and Basis for the Relief/Relaxation**

PPL expects to comply with the order implementation date and no relief/relaxation is required at this time.

**6 Open Items from Overall Integrated Plan and Interim Staff Evaluation**

The following tables provide a summary of the open items documented in the Phase 1 Overall Integrated Plan or the Interim Staff Evaluation (ISE) and the status of each item.

Open Item	Overall Integrated Plan Phase 1 Open Item	Status
1	Confirm suppression pool heat capacity	Not Started
2	Deployment under severe accident conditions will be confirmed for the deployment of the FLEX generators credited to re-energize battery chargers.	Not Started

Open Item	Overall Integrated Plan Phase 1 Open Item	Status
3	Deployment under severe accident conditions will be confirmed for deployment of the supplemental nitrogen bottles.	Not Started
4	The gas supply will be sized to support HCVS operation for a minimum of 24 hours (a minimum of 12 valve cycles of valve operation is assumed, consistent with recommendations in HCVS-WP-02). This design assumption will require future validation in the design phase of this project.	Not Started
5	An assessment of temperature and radiological conditions will be performed to ensure that operating personnel can safely access and operate controls at the remote operating station, based on time constraints listed in Attachment 2 of the Overall Integrated Plan.	Not Started
6	Evaluate viable options to address Hydrogen detonation concerns in HCVS piping to meet the requirements of EA-13-109, Section 1.2.11 and incorporate in HCVS design. SSES will determine the method to be deployed once NRC review of HCVS-WP-03 is complete.	Started
7	An evaluation will be performed to confirm the HCVS power supply can support HCVS operation for a minimum of 24 hours.	Not Started

Interim Staff Evaluation Open Item	Status
None	None identified.

#### 7 Interim Staff Evaluation Impacts

There are no potential impacts to the Interim Staff Evaluation identified at this time.

## 8 References

The following references support the updates to the Phase 1 Overall Integrated Plan described in this enclosure.

1. PPL Letter (PLA-7180), Susquehanna Steam Electric Station Overall Integrated Plan in Response to June 6, 2013 Commission Order Modifying Licenses with Regard to Reliable Hardened Containment Vents Capable of Operation Under Severe Accident Conditions (Order Number EA-13-109)," dated June 26, 2014.
2. NRC Order Number EA-13-109, "Order Modifying Licenses with Regard to Reliable Hardened Containment Vents Capable of Operation under Severe Accident Conditions," dated June 6, 2013.
3. NEI 13-02, "Industry Guidance for Compliance with NRC Order EA-13-109, "To Modify Licenses with Regard to Reliable Hardened Containment Vents Capable of Operation under Severe Accident Conditions," Revision 0, dated November 2013.
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