

**AR 0099752 Report**

<b>Aff Fac:</b>	Three Mile Island	<b>AR Type:</b>	CR	<b>Status:</b>	APPROVED
<b>Aff Unit:</b>	01	<b>Owed To:</b>	A5531CAP	<b>Due Date:</b>	12/31/2009
<b>Aff System:</b>	--	<b>RB Airborne Controls</b>		<b>Event Date:</b>	11/30/2009
<b>CR Level/Class:</b>	4/D		<b>Disc Date:</b>	11/30/2009	
<b>How Discovered:</b>	H02		<b>Orig Date:</b>	12/01/2009	
<b>WR/PIMS AR:</b>		<b>Component #:</b>	-		

**Action Request Details**

**Subject:** RP AIRBORNE ENGINEERING CONTROLS VALIDATION

**Description:** Originator: DAVID W ETHRIDGE Supv Contacted: R. Davis

**Condition Description:**

Based on the initial findings from the root cause report following the unexpected increase in reactor building airborne levels on 11/21/09, the TMI Radiation Protection Manager has requested that TMI station RP Airborne Engineering Controls be validated by RP personnel following a job site review of all plant installed portable HEPA ventilation systems and HEPA vacuums to ensure that procedure controls and requirements are being met. This validation will include a detailed review to ensure that all portable HEPA ventilation systems are installed and operating correctly, that there are no uncontrolled non-HEPA vacuums in plant radiological controlled areas, that periodic inspections meet procedure guidelines, and that each HEPA and vacuum is properly logged out to the appropriate location.

**Immediate actions taken:**

Initiated a detailed inspection via a checklist of portable HEPA ventilation units and HEPA vacuums in use at TMI within the RCAs. The inspection will also ensure all non-HEPA wet vacuums are taken out of service.

**Recommended Actions:**

Results of the detailed inspections of portable HEPA ventilation units and HEPA vacuums and non-HEPA wet vacuums will be documented and corrective actions will be initiated as necessary based on these results.

All non-HEPA wet vacuums found in a RCA will be taken out of service by cutting the electrical cord.

**Operable Basis:**

**Reportable Basis:**

Reviewed by: EDWARD M CARRERAS 12/01/2009 02:00:33 CST

**Reviewer Comments:**

There area no operability or reportability concerns.

**Assignments**

<b>Assign #:</b>	<u>01</u>	<b>Assigned To:</b>		<b>Status:</b>	AWAIT/C
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<b>Aff Fac:</b>	Three Mile Island	<b>Prim Grp:</b>	ACAPALL	<b>Due Date:</b>	12/06/2009
<b>Assign Type:</b>	TRKG	<b>Sec Grp:</b>		<b>Orig Due Date:</b>	mm/mm/yyyy
<b>Priority:</b>					
<b>Schedule Ref:</b>					
<b>Unit Condition:</b>					
<b>Subject/Description:</b>	RP AIRBORNE ENGINEERING CONTROLS VALIDATION				

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## AR 0100225 Report

<b>Aff Fac:</b>	Three Mile Island	<b>AR Type:</b>	CR	<b>Status:</b>	APPROVED
<b>Aff Unit:</b>	01	<b>Owed To:</b>	ACAPALL	<b>Due Date:</b>	12/31/2009
<b>Aff System:</b>	823			<b>Event Date:</b>	12/01/2009
<b>CR Level/Class:</b>	/			<b>Disc Date:</b>	12/01/2009
<b>How Discovered:</b>	H02			<b>Orig Date:</b>	12/01/2009
<b>WR/PIMS AR:</b>		<b>Component #:</b>	-		

## Action Request Details

**Subject:** INTERMITTENT AIR FLOW OUT OF THE RB CONSTRUCTION OPENING

**Description:**

Originator: JEFFREY A GOLDMAN Supv Contacted: Blair

**Condition Description:**

While the RB Construction Opening Curtain (COC) was open in preparation for moving the new "B" OTSG into the RB, ribbons on the outside of the opening intermittently indicated flow out of the RB.

**Immediate actions taken:**

TMI-1 Standing Order for breach of the RB Liner was implemented. Specifically, the actions required when outflow is observed were taken, including closing the COC. Radiation monitors at the construction opening indicated no airborne contamination was present. Based on this, no EAL thresholds are affected. RB ventilation and Aux Building ventilation parameters were reviewed and no anomalies were noted. Note that when the COC was closed, it billowed inward, indicating airflow into the RB.

**Recommended Actions:**

Continue to monitor conditions at the construction opening. Open the COC when required to transport the OTSG into the RB, and if outflow is still present take periodic flow measurements and perform bounding calculations for inclusion in ODCM reports for non-routine release.

**What activities, processes, or procedures were involved?**

Preparation for transporting the B OTSG into the RB

**Why did the condition happen?**

Unknown. Suspect outside weather/wind conditions.

**What are the consequences?**

None other than observations need to be considered for ODCM non-routine release.

**Were there any adverse physical conditions?**

The COC was first opened at 18:30. Flow measurements taken at 19:30 indicated an average outflow of 145 fpm. The COC was closed at 20:00. Once closed, the curtain billowed in, and flow measurements at the cracks around the curtain indicated an average inflow of 148 fpm. The COC was reopened at 21:00 for final transport of the OTSG. Tell-tail ribbons intermittently indicated inflow and outflow. Flow readings will be taken every 2 hours while the COC is open for OTSG transport.

List of knowledgeable individuals:  
Goldman, Roberts, Blair, Heishman

Operable Basis:

Reportable Basis:

Reviewed by: EDWARD M CARRERAS 12/01/2009 22:10:43 CST

Reviewer Comments:

There are no operability or reportability concerns. Monitoring of air flow and activity levels is in progress to support required reporting. Sampling shows no signs of any airborne contamination. Required standing order actions are completed or in progress. This does not meet any thresholds for the E-Plan. Opening will be closed with the tarp once teh EOTSG is in the RB.

### Assignments

<b>Assign #:</b>	<u>01</u>	<b>Assigned To:</b>		<b>Status:</b>	AWAIT/C
<b>Aff Fac:</b>	Three Mile Island	<b>Prim Grp:</b>	ACAPALL	<b>Due Date:</b>	12/06/2009
<b>Assign Type:</b>	TRKG	<b>Sec Grp:</b>		<b>Orig Due Date:</b>	MM/MM/YYYY
<b>Priority:</b>					
<b>Schedule Ref:</b>					
<b>Unit Condition:</b>					
<b>Subject/Description:</b>	INTERMITTENT AIR FLOW OUT OF THE RB CONSTRUCTION OPENING				

Day	12/1/2009 4:22:22 PM	The following robust barriers were: Applied: NS-P-1A Removed: NS-P-1B View Robust Barrier Listing Attachment located at: \\Tmimfs01\Tmicsf\Public\T1R18\Protected Equipment Listing [This Entry Copied From Protected Equipment Log - Daily - 12/01/2009 by Megill, Thomas, MISC]	Megill, Thomas	MISC
Night	12/1/2009 5:30:28 PM	Roberts, Todd Assumed RP/Safety Outage Manager Position. NOTE: Performed by: Roberts, Todd	Roberts, Todd	RP/Safety Outage Manager
Night	12/1/2009 5:45:00 PM	Wilkerson, Scott Assumed Maint Outage Manager Position. NOTE: Late log entry Performed by: Wilkerson, Scott	Wilkerson, Scott	Main Outage Manager
Night	12/1/2009 5:55:00 PM	Spaulding, Russell Assumed Shutdown Safety Manager Position. NOTE: Performed by: Spaulding, Russell	Spaulding, Russell	Shutdown Safety Manager
Night	12/1/2009 6:27:07 PM	Boring, Keith Assumed Eng Outage Manager Position. NOTE: Performed by: Boring, Keith	Boring, Keith	Eng Outage Manager
Night	12/1/2009 6:47:47 PM	Goldman, Jeffrey A Assumed Ops Outage Manager Position. NOTE: Performed by: Goldman, Jeffrey A	Goldman, Jeffrey A	Ops Outage Manager
Night	12/1/2009 8:38:51 PM	Fuel Transfer Canal Level Check at Rx Services Trailer FTC LEVEL IS ACCEPTABLE check made from CR	Vanwinkle, Michael	MISC
Night	12/1/2009 9:34:34 PM	Commenced moving fuel in the SFP. 5 pedestals are to be restocked for Upper End Fitting replacement. SNM move sheets 09-141 & 09-142 steps 7 & 8. Then 09-145 & 09-146, Steps 9 through 16. [This Entry Copied From Fuel Handling Log - Nights - 12/01/2009 by Hertkorn, Edward, CLE 1]	Hertkorn, Edward	CLE
Night	12/1/2009 9:56:36 PM	While the RB Construction Opening Curtain (COC) was open in preparation for moving the new "B" OTSG into the RB, ribbons on the outside of the opening intermittently indicated flow out of the RB. Immediate actions taken: TMI-1 Standing Order for breach of the RB Liner was implemented.	Goldman, Jeffrey A	Ops Outage Manager

OK

Specifically, the actions required when outflow is observed were taken, including closing the COC. Radiation monitors at the construction opening indicated no airborne contamination was present. Based on this, no EAL thresholds are affected. RB ventilation and Aux Building ventilation parameters were reviewed and no anomalies were noted. Note that when the COC was closed, it billowed inward, indicating airflow into the RB. Recommendation for action: Continue to monitor conditions at the construction opening. Open the COC when required to transport the OTSG into the RB, and if outflow is still present take periodic flow measurements and perform bounding calculations for inclusion in ODCM reports for non-routine release. IR 01000225 generated.

Night	12/1/2009 11:18:34 PM	Completed walkdown of Robust Barriers. No discrepancies noted.	Spaulding, Russell	Shutde Safety Manag
Night	12/1/2009 11:21:41 PM	Smith Jr, George W Assumed Shift Outage Director Position. NOTE: Performed by: Smith Jr, George W	Smith Jr, George W	Shift Outa Direc
Night	12/2/2009 4:52:37 AM	A hard hat was dropped inside the A-D-ring. Additional chin straps were provided to the SGT working group.	Smith Jr, George W	Shift Outa Direc
Night	12/2/2009 4:53:47 AM	An RP instrument fell to the ground due to a broken strap. The strap was replaced and an issue report was generated.	Smith Jr, George W	Shift Outa Direc
Night	12/2/2009 4:55:27 AM	A ruler fell approximately 20 feet. No equipment was damaged no one was injured. An issue report was generated.	Smith Jr, George W	Shift Outa Direc
Night	12/2/2009 5:00:11 AM	A second hard hat, tonight, fell from the HTS. No equipment was damaged-no one was injured.	Smith Jr, George W	Shift Outa Direc
Night	12/2/2009 5:19:45 AM	Validated that air flow was going into containment via measurements by I&C at the construction opening and into the RB. Readings were taken at 6, 12, 18 feet and flow was into the RB at all locations and at an	Smith Jr, George W	Shift Outa Direc

<p>elevation of 6 feet and 12 feet. Readings were given to the oncoming SOD. Construction opening right side-225 and 125 (6 feet and 12 feet in elevation) Construction opening left side-220 and 150 At 6 feet in on right side-250 and 40 At 6 feet in on left side-25 and 9 At 12 feet in on right side-25 and 10 At 12 feet in on left side-30 and 13 At 18 feet in on right side-20 and 20 At 18 feet in on left side-43 and 5</p>				
Night	12/2/2009 5:56:50 AM	Goldman, Jeffrey A Relieved from Ops Outage Manager Position. NOTE: Performed by: Alvey, Tim D.	Alvey, Tim D.	Ops Outage Manager
Day	12/2/2009 6:00:06 AM	Megill, Thomas Assumed Shutdown Safety Manager Position. NOTE: Performed by: Megill, Thomas.	Megill, Thomas	Shutdown Safety Manager
Day	12/2/2009 6:02:07 AM	Connelly II, John E Assumed Maint Outage Manager Position. NOTE: Performed by: Connelly II, John E	Connelly II, John E	Main Outage Manager
Day	12/2/2009 6:15:21 AM	DeBoer, Daniel D Assumed Shift Outage Manager Position. NOTE: Performed by: DeBoer, Daniel D	DeBoer, Daniel D	Shift Outage Manager
Day	12/2/2009 6:52:27 AM	Wickel, Todd Assumed Eng Outage Manager Position. NOTE: Performed by: Wickel, Todd	Wickel, Todd	Eng Outage Manager