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Bamford, Peter

From: Wendi.Croft@exeloncorp.com (EXELON)
Sent: Monday, November 23, 2009 5:01 PM
To: Bamford, Peter; edward.miller@nrc.gov; Chernoff, Harold (NRR)
Cc: Pamela.Cowan@exeloncorp.com; david.helker@exeloncorp.com
Subject: TMI-1 INES Report with Site Comments
Attachments: TMI High Activity Preliminary ERF with Site Comments.doc

Importance: High

Peter,

Thank you for the opportunity to review the TMI High Activity ERF prior to INES submittal. In the attached document we have provided minor comments from the site.

Please let us know if you have any questions.

Thank you!

Wendi Croft

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"Success is getting what you want, and happiness is wanting what you get." – Dale Carnegie

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EVENT RATING FORM (ERF)

Event No.:

Sent Date:

THE INTERNATIONAL NUCLEAR EVENT SCALE (INES)																	
EVENT TITLE		RADIATION RELEASE IN CONTAINMENT ASSOCIATED WITH STEAM GENERATOR REMOVAL								EVENT DATE							
										11/21/2009							
RATING		RATING DATE	OUT OF SCALE	DEVIATION	INCIDENT			ACCIDENT				FACILITY TYPE					
PROVISIONAL	<input checked="" type="checkbox"/>			0	1	2	3	4	5	6	7	Power Reactor	<input checked="" type="checkbox"/>	Research Reactor	<input type="checkbox"/>		
FINAL	<input type="checkbox"/>	11/23/2009	<input type="checkbox"/>	X	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	RadWaste Facility	<input type="checkbox"/>	Radiation Source	<input type="checkbox"/>		
COUNTRY				FACILITY NAME / PLACE								Irradiation		Transportation			
United States				Three Mile Island, Unit 1/Middletown, PA								Irradiation		<input type="checkbox"/>	Transportation		<input type="checkbox"/>
												Fuel Fabrication		<input type="checkbox"/>	Fuel Reprocessing		<input type="checkbox"/>
												Research Facility		<input type="checkbox"/>	Mining/Milling		<input type="checkbox"/>
												Enrichment Facility		<input type="checkbox"/>	Other		<input type="checkbox"/>
												YES	NO				
Off-site impact																	
Release Beyond Authorised Limits												<input type="checkbox"/>	X				
Overexposure of Members of Public												<input type="checkbox"/>	X				
On-Site Impact																	
Contamination Spread												X	<input type="checkbox"/>				
Worker Overexposure												<input type="checkbox"/>	X				
Damage to Radiological Barriers												<input type="checkbox"/>	X				
Degradation of Defence In-depth												<input type="checkbox"/>	X				
Person Injured Physically or Casualty												<input type="checkbox"/>	X				
Is There a Continuing Problem												<input type="checkbox"/>	X				
Press Release Issued (if yes, please attach)												<input type="checkbox"/>	X				
Event Description																	
<p>During refueling outage activities, which included operations to replace both of the unit's steam generators, low levels of radiation activity were measured on radiation monitors installed in the reactor building. Personnel were directed to immediately leave the reactor building until the source of the activity could be identified. Monitoring devices at the reactor building steam generator replacement construction opening indicated a slight increase in activity. Levels have since returned to normal. No contamination was identified outside of the reactor building. Of 145 workers monitored for exposure to the radiation activity, about 19 were initially found to have exposures greater than 0.1 mSv (10 mrem), with the highest exposure estimated to be 0.38 mSv (38 mrem). No worker approached or exceeded any exposure limits. The sources of the activity are believed to be from maintenance tasks related to the removal of the plant's steam generators or ventilation line-up changes, though the exact cause of the increase in activity levels is still unknown. The reactor was defueled at the time of the event.</p>																	
Rating Justification and Difficulties Encountered																	
(quote relevant user manual paragraphs)																	
<p>This event has been given a preliminary rating of 0, "Below Scale" based on section 2.3.1 of the International Nuclear and Radiological Event Scale 2008 User's Manual (http://www-pub.iaea.org/MTCD/publications/PubDetails.asp?pubId=8120). The justification for the rating is that no member of the public was exposed to any excess activity, and all exposures to workers were well within established statutory limits and licensee-established dose constraints. Though increasing the rating based on the number of personnel exposed is indicated for higher levels of exposure, at these levels no such increase is warranted. This event is being submitted due to interest expressed by member states of the IAEA for the INES rating of the event.</p>																	
Contact Person for Further Information																	

This form is provided by the **IAEA INES Coordinator**: Rejane Spiegelberg Planer,
 Incident and Emergency Centre,
 Department of Nuclear Safety and Security,
 Tel: +43 (1) 2600-26074, Fax: +43 (1) 26007-26074,
 email: r.spiegelberg-planer@iaea.org

NOTE: This form *should not* be used for sending information to the IAEA about an actual event!
 For this purpose the Nuclear Events Web-based System (<http://www-news.iaea.org>) should be used instead.

EVENT RATING FORM (ERF)

Name Dr. Cynthia Jones, Office of Nuclear Security and Incident Response		Affiliation U.S. Nuclear Regulatory Commission
Address: Mail Stop T4-D22A, Washington, DC 20555		
Phone: 301-415-0298	Fax: 301-415-6382	eMail: cynthia.jones@nrc.gov

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