

Perry, Neil

From:
Sent:
To:

Thomas, Eric
Wednesday, November 25, 2009 1:30 PM
Haskell, Russell; Wilson, Adam; Hull, Amy; Wang, Alan; Malliakos, Asimios; Patel, Amar; Garmoe, Alex; Palmer, Anthony; Howe, Allen; Blamey, Alan; Lising, JASON; Burritt, Arthur; Pate, Tony; Zoulis, Antonios; Barker, Allan; Boland, Anne; Billoch, Araceli; Gody, Tony; Howell, Art; Sabisch, Andrew; Ziedonis, Adam; Lewin, Aron; Rezai, Ali; Sengupta, Abhijit; Turilin, Andrey; True, Andrea; Boger, Bruce; Bickett, Brice; Rini, Brett; Watson, Bruce; Haagensen, Brian; Lehman, Bryce; Welling, Blake; Holian, Brian; Beasley, Benjamin; White, Bernard; Fuller, Brian; Singal, Balwant; Vaidya, Bhalchandra; Bartlett, Bruce; Mozafari, Brenda; Yip, Brian; Smith, Brian; Jose, Benny; Casto, Chuck; Hott, Christopher; Julian, Caudle; Lipa, Christine; Sanchez, Chanel; Cauffman, Christopher; Khan, Cheryl; Pederson, Cynthia; Moulton, Charles; Lyon, Fred; Cahill, Christopher; Miller, Chris; Ng, Ching; Young, Cale; Paulk, Chuck; Rosselle, Chuck; Sanders, Carleen; Roquecruz, Carla; Kontz, Craig; Goodwin, Cameron; Gratton, Christopher; Crisden, Cherie; Lochbaum, David; Powers, Dale; Everhart, Dave; Tifft, Doug; Graves, Chris; Johnson, Dante; Lew, David; Payne, Charlie; Hills, David; Jackson, Donald; White, Duane; Strickland, Duane; NRR_DIRS_IOEB Resource; Spindler, David; Roberts, Darrell; Allsopp, David; Egan, Dennis; Mas, Delza; Werkheiser, David; Kern, David; Dority, Dayna; Reinert, Dustin; Hoang, Dan; Pickett, Douglas; Andrukat, Dennis; Chyu, Doris; Frumkin, Daniel; Garmon-Candelaria, David; Merzke, Daniel; Patel, Dimple; Wright, Donna; Brown, Eva; Kleeh, Edmund; Ruesch, Eric; Goldfeiz, Eliezer; Burket, Elise; Knutson, Ed; Michel, Eric; Morris, Eddie; Miller, Eric; Bowman, Eric; Collins, Elmo; Huang, Eugene; Roach, Edward; Benner, Eric; Cunningham, Liza; Leeds, Eric; Sullivan, Ted; Stamm, Eric; DiPaolo, Eugene; Keighley, Elizabeth; Coffman, Ellery; Cobey, Eugene; Robinson, Edward; Brown, Frederick; Saba, Farideh; Arner, Frank; Ehrhardt, Frank; Bower, Fred; Bonnett, Paul; Jaxheimer, Frederick; Newman, Garrett; Pick, Greg; Kelly, Glenn; Miller, Geoffrey; Replogle, George; Larkin, Grant; McCoy, Gerald; Hunegs, Gordon; Ottenberg, Geoffrey; Shear, Gary; Tracy, Glenn; Tutak, Greg; Bowman, Gregory; Dentel, Glenn; MacDonald, George; Callaway, Gary; Kulesa, Gloria; Miller, Ed; Chernoff, Harold; Jones, Heather; Christensen, Harold; Balian, Harry; Barrett, Harold; Crouch, Howard; Prokofiev, Iouri; Cutler, Iris; Jung, Ian; Tifft, Jennifer; Clark, Jeff; Grobe, Jack; Hickey, James; Isom, James; Kulp, Jeffrey; Lennartz, Jay; McHugh, James; Lane, John; Paige, Jason; Poole, Justin; Tsao, John; Hughey, John; Orr, Dan; Beall, James; Gaslevic, James; Rivera-Ortiz, Joel; Rutkowski, John; Thorp, John; Lara, Julio; Rogge, John; Stang, John; Giitter, Joseph; Ibarra, Jose; Kramer, John; Lamb, John; Schoppy, Joseph; Nadel, Jared; Thompson, Jon; Blake, Jerome; Commiskey, John; Corujo-Sandin, Jorge; McHale, John; Ashcraft, Joseph; Brand, Javier; Giantelli, Joseph; Lilliendahl, Jon; Trapp, James; Donohew, Jack; Adams, James; Boska, John; DeBoer, Joseph; Reynoso, John; Segala, John; Bream, Jeffrey; Hall, Randy; Hawkins, Justin; Jennings, Jason; White, John; Walsh, J; Kim, James; Kaizer, Joshua; Robbins, John; Wiebe, Joel; Heinly, Justin; Johnson, Jonathan; Mitman, Jeffrey; Wiggins, Jim; Kauffman, John; Andersen, James; Clifford, James; Lubinski, John; Shea, Joseph; Ayala, Juan; Cushing, Jack; Dozier, Jerry; Gall, Jennifer; Heisserer, Jamie; Kellum, Jim; Rady, Jeff; Robles, Jesse; Bucholtz, Kristy; Gray, Kathy; Young, Keith; Feintuch, Karl; Stoedter, Karla; Hoffman, Keith; Kennedy, Kriss; Cotton, Karen; Mattern, Kevin; West, Steven; Fields, Leslie; Wilkins, Lynnea; Scholl, Larry; James, Lois; Casey, Lauren; Criscione, Lawrence; Doerflein, Lawrence; Raghavan, Rags; Trocine, Leigh; Wert, Leonard; Boggi, Michael; Cunningham, Mark; Galloway, Melanie; Satorius, Mark; Cheok, Michael; Hay, Michael; Thadani, Mohan; Sykes, Marvin; Tschiltz, Michael; Hamm, Matthew; Speck, Mark; Balazik, Michael; Farnan, Michael; Evans, Michele; Vaaler, Marlayna; Case, Michael; David, Marshall; Marshfield, Mark; Ross-Lee, MaryJane; Halter, Mandy; Webb, Michael; Brown, Michael; Chawla, Mahesh; Dapas, Marc; Scott, Michael; Panicker, Mathew; Thorpe-Kavanaugh, Meghan; Phillips, Monte; Patel, Manan; Catts, Michelle; Reisifard, Mehdi; Sheikh, Mina; Young, Matt; Ferdas, Marc; King, Mark; Wegner, Mary; Markley, Michael; Abid, Mohammed; Banerjee, Maitri; Davis, Marlene; Fernandez, Mario; Gray, Mel; Junge, Michael; Jardaneh, Mahmoud; Kowal, Mark; Mahoney, Michael; Orr, Michael; Taylor, Nick; DiFrancesco, Nicholas; Salgado, Nancy; Lafferty, Nathan; Morgan, Nadiyah; Perry, Neil; Sieller, Nicole; Coleman, Nicole; Kalyanam, Kaly; Ayegbusi, Odunayo; Tabatabai, Omid; Yee, On; Pederson, Perry; Kaufman, Paul; Milano, Patrick; Prescott, Paul; Boyle, Patrick; Alter, Peter; Bamford, Peter; McKenna, Philip; Niebaum, Phillip; Hiland, Patrick; Loudon, Patrick; Wilson, Peter; Lee, Pete; Finney, Patrick; Harris, Paul; Wen, Peter; Jerve, Richard; Montgomery, Richard; Nelson, Robert; Rasmussen, Richard; Cohen, Ronald; Elliott, Robert; Branch, Richard; Telson, Ross; Cureton, Ronald; Hickok, Roy; Martin,

To: Robert; Krsek, Robert; Rolph, Ronald; Beall, Robert; Perkins, Richard; Bernardo, Robert; Conte, Richard; Caniano, Roy; Craffey, Ryan; Kumana, Rayomand; Orlikowski, Robert; Powell, Raymond; Stattel, Richard; Wolfgang, Robert; Lorson, Raymond; Franovich, Rani; Nimitz, Ronald; Lerch, Robert; Hardies, Robert; Grover, Ravinder; Moore, Ross; McKinley, Raymond; Clement, Richard; Guzman, Richard; Vogt-Lowell, Rene; Deese, Rick; LaVera, Ronald; Musser, Randy; Sigmon, Rebecca; Richards, Stuart; Walker, Shakur; Meighan, Sean; Rich, Sarah; Ibarrola, Sherlyn; Iyer, Shri; Collins, Sam; Pannier, Stephen; Vaughn, Stephen; Hansell, Samuel; Garry, Steven; Pindale, Stephen; Rutledge, Steven; Schneider, Max; Smith, Stacy; Bailey, Stewart; Lingam, Siva; Sanchez, Steven; Sands, Stephen; Hackworth, Sandra; Jones, Steve; Kennedy, Silas; Lee, Samuel; Lai, Sandra; Peng, Shie-Jeng; Beltz, Terry; Moslak, Thomas; Hartman, Thomas; Kolb, Timothy; Setzer, Thomas; Bloomer, Tamara; Burton, Thomas; Hedigan, Tom; Walker, Tracy; Boyce, Tom (NRR); Kobetz, Timothy; McGinty, Tim; Orf, Tracy; Wengert, Thomas; Harriman, Thomas; Fredette, Thomas; Hipschman, Thomas; Pruett, Troy; Mossman, Timothy; Perin, Vanice; Gaddy, Vincent; Ordaz, Vonna; McCree, Victor; Rodriguez, Veronica; Sreenivas, V; Cook, William; Chalk, Wayne; Cartwright, William; Jones, William; Walker, Wayne; Ruland, William; Raymond, William; Borden, William; Deschaine, Wesley; Orders, William

Subject: IOEB Clearinghouse Screening Summary for Wednesday, November 25, 2009

Attachments: PNO-II-09-006.doc; PNO-I-09-006 - TMI Contamination Event.doc

*****NOTE: THIS SUMMARY IS OFFICIAL USE ONLY -- MAY CONTAIN SENSITIVE INTERNAL INFORMATION*** DO NOT FORWARD ANY PORTIONS OUTSIDE OF NRC WITHOUT FIRST OBTAINING PERMISSION FROM ORIGINATOR**

Issues for Resolution (IFR): None

OpE Forum Postings (COMMS): None

Management Requests: None

Follow-up/Other Tasks: Three

Outside of Scope

2.) (Update) TMI - RADIATION RELEASE IN CONTAINMENT ASSOCIATED WITH STEAM GENERATOR REMOVAL

A-OTSG has been transported to mausoleum;
B-OTSG removal is in progress. Activities are in progress to move it to the shipping platform for removal from containment

TMI experienced 4 additional alarms associated with AMS-4s (airborne radiation monitors). Local work areas were evacuated until the condition was understood and resolved. The containment building was maintained under negative pressure. Details of the 4 additional alarms are as follows:

- 1) 2219 /11/24 - One occurred on top of the B "D" ring 365 ft in Containment. Confirmatory sampling showed no airborne. Low flow alarm.
- 2) 2325/11/24 - Outside personnel hatch in auxiliary building area. Cause was radon inversion.
- 3/4) 0445/0550/11/25- AMS alarmed (same machine) at B "D" ring 281 ft elevation. Sampling showed no airborne. Cause attributed to lifting of B steam generator resulting in elevated dose rates. No airborne identified.

Workers were briefed about local evacuation situation from last night and the morning. The NRC has confirmed no airborne radiation issues existed; in addition, the NRC is reviewing containment evacuation procedures and policy today.

The licensee has established new protocol to notify NRC and State within 60 minutes of any alarm.

The State was notified of the conditions last night. None of these conditions was the result of airborne radioactivity. (Send update to TRGs for Containment; Jerome Bettie, Emergency Preparedness; Jeffrey Temple, Health Physics; Steven Garry, Human Performance; Michael Boggi, Dose Assessment; Mark Blumberg and Public Affairs; Scott Burnell). Assigned to Mike Brown.

Outside of Scope

Outside of Scope

**(i.e., Screened /reviewed against LIC-401 criteria for initiating an "Issue for Resolution" (IFR), which is IOEB's process for conducting further evaluation of an issue to determine what, if any, additional actions should be taken to communicate and organizationally learn from OpE.)*

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Attendees:

Mike Brown
Bob Bernardo
Russ Haskell
Rebecca Sigmon
Eric Thomas
John Thorp
Derek Scully (NRO) – Phone

Eric Thomas
U.S. Nuclear Regulatory Commission
NRR/DIRS/IOEB
OWFN-7H23
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301-415-6772 (office)

(b)(6)

Date: November 24, 2009

PRELIMINARY NOTIFICATION OF EVENT OR UNUSUAL OCCURRENCE -- PNO-I-09-006

This preliminary notification constitutes EARLY notice of events of POSSIBLE safety or public interest significance. The information is as initially received without verification or evaluation, and is basically all that is known by the Region I staff on this date.

Facility

Exelon Generation Company, LLC
Three Mile Island, Unit 1
Middletown, PA
Docket: 50-289

Licensee Emergency Classification

☐ Notification of Unusual Event
☐ Alert
☐ Site Area Emergency
☐ General Emergency
☒ Not Applicable

SUBJECT: THREE MILE ISLAND UNIT 1 CONTAMINATION EVENT (UPDATE)

This preliminary notification updates information previously communicated in a commissioner's technical assistant briefing, NRC Event Notification (EN 45514) and NRC Press Release (No. I 09-046).

At about 4:00 p.m., on November 21, while shut down for a refueling outage and steam generator (SG) replacement, TMI experienced local alarms inside the containment building due to airborne radioactivity levels.

As a precaution in response to the alarms, approximately 175 workers exited the containment. Several workers alarmed the portal monitors while leaving the radiologically controlled area around the containment building due to contamination levels, and were whole body counted to assess their radiation dose. Of these workers, initially 19 workers received doses ranging from 10 mrem to 38 mrem, which is a very small fraction of the annual federal occupational exposure limit (5000 mrem/yr). The number of personnel with residual contamination continued to decrease as normal biological elimination processes of internally deposited radioactivity takes place. It is not unusual for contamination events to occur during refueling outages and workers to be processed as they were in this event.

Exelon attributed the cause of the contamination event to a change in air pressure inside the containment building that dislodged loose surface contamination in primary piping systems. Some of the contamination became airborne and was detected by local containment air monitors. Exelon surveyed the area around the containment construction opening and did not detect any contamination. The airborne radioactivity readings returned to pre-event levels 4 to 6 hours after the initial alarms.

There was no effect on public health and safety as a result of this event. This event did not result in exceeding any emergency action levels, nor were any formal event notification criteria met. The workers that were affected by this event received radiation doses that were a small percentage of the annual occupational exposure limit. As a conservative measure, Exelon withheld these workers from future exposure pending detailed evaluation.

A number of Region I personnel and Headquarters personnel have responded to this event over the weekend. The Resident Inspectors, Health Physics Specialist Inspectors, and the Public Affairs Officer responded to the site to investigate the event and to address media inquiries. Exelon issued two press releases, and the NRC issued one press release on the event. The Region I Public Affairs Officers have responded to numerous media inquiries. Region I is

continuing to follow Exelon's evaluation of this event through the NRC's baseline inspection program.

The Commonwealth of Pennsylvania, as well as several Congressional representatives, were informed of the event.

The information presented herein has been confirmed with the Site Vice President - Three Mile Island, William Noll, and is current as of November 24, 2009 at 2:23 p.m.

This PN is issued for information only.

ADAMS Accession Number: ML093280879

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(610) 337-5232

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Regional Offices

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RI Resident Office

Licensee: Exelon Generation Company LLC
Three Mile Island, Unit 1

ADAMS Accession Number: **ML093280879**

SUNSI Review Complete: GSB (Reviewer's Initials)

DOCUMENT NAME: G:\DRP\PNs\PNO-I-09-006 - TMI Contamination Event.doc

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DATE	11/24/09		11/24/09		11/24/09		11/24/09		11/24/09	

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