

Newport, Christopher

NRR

From: King, Mark  
 Sent: Monday, November 23, 2009 3:02 PM  
 To: 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; Tift, 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; Thomas, Eric; 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; Tift, 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; 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, Marlone; 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; Jervy, Richard; Montgomery, Richard; Nelson, Robert; Rasmussen, Richard; Cohen, Ronald; Elliott, Robert; Branch, Richard; Telson, Ross; Cureton, Ronald; Hickok, Roy; Martin,

D/5

**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; Haskell, Russell; 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 Monday, November 23, 2009

**Attachments:** SEN280.pdf

**\*\*\*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): One (1)**

Outside of Scope

**1) EN 45514 – TMI - RADIATION RELEASE IN CONTAINMENT ASSOCIATED WITH STEAM GENERATOR REMOVAL**

Note: Lots of media attention to this event since it occurred at TMI.

Approximately 4 PM Saturday 11/21 TMI had an event involving loss of contamination control inside containment. At the time the reactor was defueled with a hole cut in the containment wall to support the ongoing once through steam generators (OTSG) replacement outage. The licensee is not sure at this time what activity inside containment led to the problem. Their investigation is focusing on two activities (1) "A" piping loop decontamination activities or (2) some work on a drain line on the B" SG.

At the time of the event 175 workers were inside containment. Of these workers 144 people were selected for detailed monitoring based on nasal smears and alarming the portal monitor readings while exiting containment. Of the 144, about 20 people have potentially received doses greater than 10 mR. The highest dose to a worker was between 30 and 40 mR. No site worker left the site with external contamination. Airborne contamination levels inside containment have been restored to pre-event levels and cleanup of containment surfaces is in progress. The tarp that was covering the containment opening was contaminated on its inside surface and has been replaced.

At the time of the event there was a slight positive pressure in containment. This condition has been corrected and there is now a slight negative pressure in containment. The licensee has performed a release calculation for the period of time where the containment was at positive pressure and determined the maximum release was 0.04 mr. The quarterly limit for a release allowed by their ODCM is 7.5 mr. Therefore, this release is less than 1% of the quarterly limit.

The "A" OTSG, which was in the process of being lifted when this event occurred, is still hanging vertically inside containment. It is being deconned/encapsulated and the licensee hopes to down-end it today onto the transfer mechanism that will eventually move it out through the OTSG opening. The downending process will end up with part of the SG poking out the hole in the containment wall.

This event has generated a significant amount of media interest. Regional OPA and state liason officers have responded to inquiries from multiple radio, print media and TV stations. They performed a press release at TMI at 2 pm on Sunday, November 22.

The PA governor's office was previously notified and they understand that this is a low level event. They have some concerns about notification timeliness. The state was notified about 9:30 pm on Saturday (event time was 4 pm). Based on the PA state notification, an event report was filed with the HOO (event number 45514). This event was far below levels that would warrant an unusual event declaration.

TMI still has not determined the root cause for the event.

The Region dispatched a HP inspector and the HP inspection branch chief to the site on Sunday. In addition, the Resident inspector and one other inspector responded to the site for additional coverage. A Manual Chapter 0309 evaluation was conducted and it was determined that no reactive inspection is warranted at this time. The Region is closely following the licensee's response and will be evaluating their root cause determination once it is issued. (Send to TRGs for Containment; Jerome Bettle, EP; 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

Outside of Scope

**Research Items: None**

**New Reactors Items: None**

**Items Screened\* Out:**

**1) EN 45514 - TM Unit 1I - RADIATION RELEASE IN CONTAINMENT ASSOCIATED WITH STEAM GENERATOR REMOVAL**

Outside of Scope

Outside of Scope

---

Attendees at Screening Meeting:

Mike Brown  
Dave Garmon-Candelaria  
Russ Haskell  
Jesse Robles  
Mary Wegner - (RES) - by phone  
Derek Scully - NRO - by phone  
Steve Pannier  
Joe Giantelli  
Mark King - by phone