

**From:** <Marc.Ferdas@exeloncorp.com>  
**To:** <msf2@nrc.gov>  
**Date:** 10/22/2006 4:34:46 PM  
**Subject:** FW: REVISED SUPERVISORY BRIEF - USE THIS VERSION: Update on 1R21 License Renewal Activities

-----Original Message-----

**From:** Zaremba, Marita  
**Sent:** Sunday, October 22, 2006 4:22 PM  
**To:** Ferdas, Marc  
**Subject:** FW: REVISED SUPERVISORY BRIEF - USE THIS VERSION: Update on 1R21 License Renewal Activities

-----Original Message-----

**From:** Benson, Rachelle  
**Sent:** Sunday, October 22, 2006 3:25 PM  
**To:** Emershaw, Kenneth A.; Newcomer, Mark; Clay, Dennis; Robillard, David; Sturtecky, Kenneth; Appelget, Bill; Artz, Robert J; Baechler, Craig R; Barnes, Daniel T; Barnes, Kathy; Basti, Martin; Beglin, Earl F; Benson, Rachelle; Berg, Sylvia A. 'Pris'; Birkmire, Leanne K.; Bloss, Peter A; Bradley, Mark D; Brown, Robin E; Buckley, Fred; Burke, Paul H; Busk, Thomas J; Button, Michael E; Camire, John A; Carter, James; Chanda, Michael P; Chernesky, David A; Ciganik, Frank R; Cipolla, Anthony J; Clark, John F; Colangelo, Michael; Colluci J. Chris; Conley, Richard K; Cosgrove, Keith; Costic, Joseph T; Dadone, Avigail; DeMonch, Eric; Detwiler, Ronald E; DiBuonaventura, Albert; Donahue, James; Dostal, Jeffrey P; Drysdale, Bradley; Duffy, Georgia; Dunn, Thomas A; Dunsmuir, Steven P; Ehrnstrom, Cordell L; Elliott Jr, Clifford L; Eriksen, Nancy E; Ewart, Richard T; Ewasiuk, Thomas M.; Farenga, Anthony W; Fawcett, David I; Fischler Jr, Peter A; Ford, Michael; Frank, James E; Freeman Jr, Jere E; Fuller Jr, Stephen H; Ganss, Steven E; Greig, Karen; Greiner, Russell D; Grey III, Charles E; Griffin Jr, Edward W; Gulla, Gerald J; Hackenberg, Jesse D; Hansen, Mary E; Hatfield, J. Duncan; Hayden, Joseph; Hedigan, Thomas E; Heffner, Robert; Hollenbach, James W; Hutchins, Steven P; Hutton, Glenn R; Ivan, Dana C; Jaskot, John H; Kandasamy, Jhansi R.; Kettering, David B.; Korker, Russell H; Laird, James L; Laning, Richard G; Larson, John E; Larzo, Ralph C; Leonard, Kevin; Lewis, Richard O; Lonsdale, Thomas S; Lopkoff, William W; MAGEE, JOHN A; Makar, John B.; Mangiamele, John; Martin, David; Mason, David; Matternson, Benjamin P; May, Jayne E; May, Joseph; May, William C; McDevitt, John P; McKenna, Michael; Milos, Richard A; Miranda, Frances C; Mongiovi, Lois; Moore, Jacqueline M; Mulholland, Graham; Murphy, John F; Nelson, Jennifer M; Newton, Lynn M; Norton, Dennis J; Peiffer, David; Pezzella, Rocco P; Pierce, Robert M.; Poletti, Kenneth G; Powell, Tom; Pruskowski, Marcia; Randich, James; Rausch, Timothy S; Ray, Howie; Renda, John A; Rider, Brian K; Ritchie, James; Roberts, Todd; Romberg, Wayne D; Ruffo, John; Rumbin, James C; Sands, Belinda B; Scallon Jr, Philip F; Schmeichel, Eric; Sevcik, George P; Sexsmith, Timothy; Shaffer, David A; Skelskey Jr, Richard J; Smith, Tim R.; Sontchi, Jonathan; Stewart, William V; Streeper, Ronald; Suchting, Carl J; Thompson, Peter; Tifft, Terry; Tilton, Robert E; Tritt II, Herbert G; Trombley, Walter; True, Gary W; Tucker, Edward K; Vaccaro, Julius J; Voishnis Jr, George J; Wagner, Mark J; Waldrep, Gary; Ward, Roger; Zacholski, Raymond; Zaremba, Marita  
**Subject:** REVISED SUPERVISORY BRIEF - USE THIS VERSION: Update on 1R21 License Renewal Activities

Update on 1R21 License Renewal Activities

Drywell Shell Inspections and Status of Water Existing in the Internal Sand Bed Trench Area

Date: Sunday, Oct. 22, 2006

From: Tim Rausch, Site Vice President

Instructions: Please share the following information with all personnel at shift turnover meetings. Ensure that you have a face-to-face discussion with your team. Please use the attached schematic for more information.

Note: Please delete the original Supervisory Brief on this subject and utilizing this briefing sheet in your team discussions. Thank you.

Every refueling and maintenance outage is important to a nuclear power plant because it sets the station up for safe and reliable operations for the next 24-month operating cycle. For Oyster Creek this outage is particularly important because it is another step in preparing us for safe and reliable operation through 2029, the extended period of operation. I want to express my appreciation to all of you for your continued hard work. Overall, you have done a good job at working safely. Please continue the good safe work practices you've demonstrated thus far.

Our original license renewal inspection scope was to mainly focus these inspections on the exterior of the drywell in the sand bed region, however, throughout the license renewal planning process, we decided to broaden our scope to include inspections on the upper portions of the shell and the interior of the drywell. Our goal is to perform an extensive and comprehensive evaluation of the drywell to ensure that it can perform its designed safety function throughout the extended period of operation.

I'm proud to tell you that preliminary results of the drywell shell inspections are excellent, however, we did identify another significant issue that we will resolve prior to restart. This issue is related to the water found in the trench area in the interior of the drywell. I will talk about what we have found in the trench and what we are doing about it after I give you a status on our inspections.

The following is a list of drywell shell activities and findings, if applicable:

1. Apply a strippable coating on the reactor cavity to eliminate leakage to the drywell shell sand bed region. - Complete.
2. Inspect reactor cavity trough drain line to ensure it is not clogged. Monitor water leakage daily. - Ongoing.
3. Inspect water leakage into poly bottles from the sand bed drains. Ongoing. No water leakage has been found to date.
4. Inspect sand bed drain lines to ensure they are not clogged. In progress. Of the five drain lines inspected, two had some blockage and debris. We will remove the blockage prior to restart.
5. Perform 100 percent visual inspection (all ten bays) of the epoxy coating on external surfaces of the drywell in the sand bed region. - Complete. Preliminary results: Satisfactory.
6. Videotape 100 percent of the exterior surfaces of the drywell in the sand bed region and floor. - In progress.
7. Perform ultrasonic test (UT) thickness measurements on 19 grids (each location has up to 49 separate locations on each grid) in the sand bed region from the interior of the drywell. - Complete. Preliminary results: Satisfactory.

- 8. Perform UT examinations on 9 locations in the upper regions from the interior of the drywell. - 5 locations complete. 4 locations in progress. Preliminary results: Satisfactory.
- 9. Perform UT examinations on approximately 115 locations in the sand bed region of the exterior drywell shell to ensure that we have located the thinnest locations in all 10 bays. - Complete. Preliminary results: Satisfactory.
- 10. Perform UT examinations at transition zones at elevations 23' and 75'. In progress.
- 11. Perform UT examinations at portions below the concrete, inside the drywell, commonly known as the trenches, in excess of 240 locations on each of the trenches. - In progress.

All of these findings will be validated after a rigorous, independent third-party review is complete.

As you can see, our preliminary inspection results indicate that the drywell shell can perform its designed safety function throughout 2029.

However, during our inspections of the interior and exterior of the drywell, we identified a small amount of standing water in one of two trenches inside the drywell. After the water was removed, some water returned to the location.

The moisture in the trench could be from one of several sources. A cross-functional technical team has been formed to investigate the issue, determine the source of the water, evaluate its impact on the drywell and most importantly, stop the water leakage. Also, UT examinations are in progress to verify that the water has no adverse impact to the drywell shell thickness in those areas.

It should be noted that we do not expect to find corrosion due to the environment in the drywell. During operations, the air inside the drywell is replaced with inert nitrogen which is not conducive to corrosion. Furthermore, in 1994 and 1996, moisture in the trench area was also identified and did not result in increased corrosion of the drywell.

I would like to leave you with this: the presence of water in the trench area does not indicate that the structural integrity of the drywell vessel has been comprised. Since we did not expect to find water there, we will perform a rigorous evaluation of all potential sources, their potential impact on drywell integrity and resolve the issue so that we eliminate the water leakage. This activity is a major priority for the station and it will be resolved prior to restart. If you are asked to work on this project, it should be your highest priority and receive your undivided attention.

We have a responsibility to the public, our employees, the environment and the nuclear industry to maintain the safe operation of Oyster Creek and to ensure we do not compromise our margin of safety. This responsibility is our top priority.

Once again, thank you for being part of the team that will set the station up for future success. Please remember to continue to focus on working safely, practicing good human performance tools and keeping your dose as low as reasonably achievable.

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Thank You.

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**Subject:** FW: REVISED SUPERVISORY BRIEF - USE THIS VERSION:  
 Update on 1R21 License Renewal Activities  
**Creation Date** 10/22/2006 4:33:28 PM  
**From:** <Marc.Ferdas@exeloncorp.com>  
**Created By:** Marc.Ferdas@exeloncorp.com

**Recipients**

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<b>Files</b>	<b>Size</b>	<b>Date &amp; Time</b>
MESSAGE	10264	10/22/2006 4:33:28 PM
TEXT.htm	32256	
image001.wmz	15220	
image002.gif	7506	
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Mime.822	223989	

**Options**

**Expiration Date:** None  
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**ReplyRequested:** No  
**Return Notification:** None

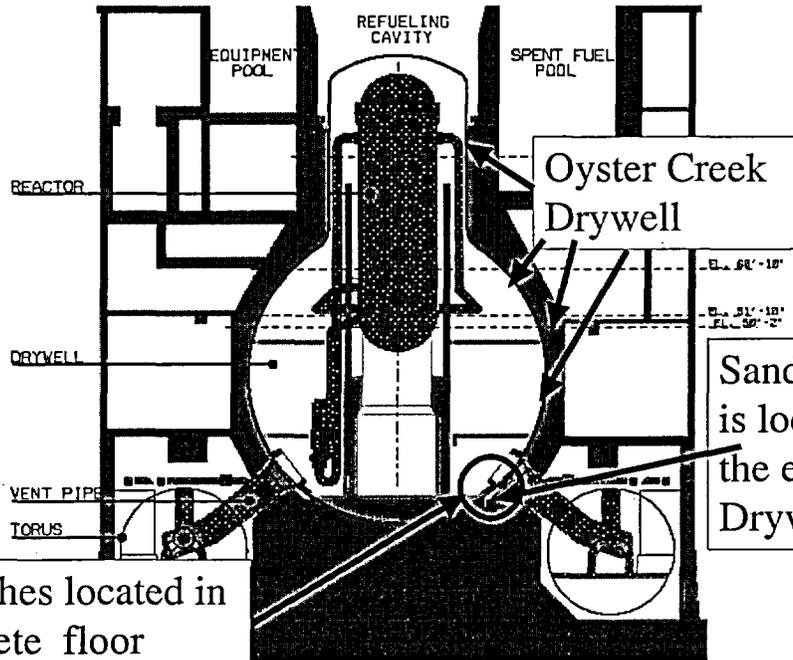
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Trenches located in concrete floor inside the Drywell in two locations

Sandbed region is located on the exterior of Drywell

In 1986, the station removed concrete at two locations inside the drywell to create the "trench area" to gain access to the drywell shell adjacent to the sand bed region. The purpose of clearing out the area was to obtain UT thickness measurements.