

From: D. Ashley
To: John Hufnagel
Date: 06/22/2006 11:36:17 AM
Subject: items from the 6-21 telecon

John-

This is the list that has been distilled from the 6/21 telecon to focus and clarify your documentation search and package preparation.

Noel-

Please review and coordinate with John and Hans to assist in the collection and forwarding of the required information to Jason.

Thanks

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regards,

Donnie Ashley
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CC: Noel Dudley

Mail Envelope Properties (449AB8F1.1F0 : 9 : 10848)

Subject: items from the 6-21 telecon
Creation Date 06/22/2006 11:36:17 AM
From: D. Ashley

Created By: DJA1@nrc.gov

Recipients	Action	Date & Time
exeloncorp.com john.hufnagel (John Hufnagel) 11:37:02 AM	Transferred	22 June, 2006
nrc.gov NFD CC (Noel Dudley) 11:36:23 AM	Delivered	22 June, 2006
AM	Opened	23 June, 2006 8:42:26
Post Office	Delivered	Route exeloncorp.com nrc.gov

Files	Size	Date & Time
MESSAGE	1170	22 June, 2006 11:36:17 AM
Oyster_Creek_Assessment Essential_Items from 6-21 telecon.pdf	31593	22 June, 2006 11:31:40 AM
D. Ashley.vcf	232	22 June, 2006 11:36:16 AM

Options

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Essential Materials (Oyster Creek Integrity Analysis)

Drywell Structural Drawings & Geometry (not including corrosion details)

- Penetrations, headers, beam seats, stiffeners, etc., (locations and details)
 - o Structural details and locations for large penetrations and attachments (*to be modeled explicitly*)
 - f Listed in Tables 2-5a, 2-5b and 2-5c of GE Part I*, and Table 3-2 of GE Part II*
 - o Elevation and azimuth for minor penetrations or other loads (*to be modeled with shell loads*)
 - f Listed in Tables 2-5a, 2-5b and 2-5c of GE Part I*, and Table 3-2 of GE Part II*
 - o *Without seeing the details of these items, it is difficult to determine which are significant enough to be modeled explicitly, and which can be included with shell loads only. Obviously, major equipment doors, hatches, and stiffeners will be modeled explicitly. In addition, small piping penetrations (less than -18") will not be modeled explicitly.*
- Location of differing plate thicknesses and details of the weld transitions
 - o Structural layout of the drywell shell plates
 - f Table 3-1 of GE Part II* includes all of Drywell Shell Thicknesses (*some of these regions are not identifiable in the drawings in the report*)
 - o Plate transition details (*especially between plates of different thickness*)
- Details on vent jet deflectors, ventlines, bellows, etc.
 - o Some extent of the ventline will be modeled as in the GE analyses.
 - o *The GE analysis connects the ventline to the vertical header support inside the torus with spring elements. We will need as much information as possible regarding the ventline and ventline connection to the torus since the details for the spring stiffness are not given in the GE report.*
- * Tables being referenced are from
 - "An ASME Section VIII Evaluation of the Oyster Creek Drywell - Part I Stress Analysis, GE Report No. 9-3, DRF# 00664, February 1991, prepared by GFUN.", and
 - "An ASME Section VIII Evaluation of the Oyster Creek Drywell - Part II Stability Analysis, GE Report No. 9-4, DRF# 00664, February 1991, prepared by GFUN."

Drawing Titles

Here is a list of ~20 structural drawing sheet titles for another Mark I by CB&I. Hopefully, the titles are similar for Oyster Creek. This list does not include all of the information outlined above, but should provide a good starting point.

- General Plan
- Drywell Shell Stretchout
- Penetration Schedule & Orientation Below Equator
- Penetration Schedule & Orientation Above Equator
- Drywell Shell Field Assembly
- Drywell Shell Field Joint Details
- Reference Details
- Drywell Vent Insert Assembly & Jet Deflectors
- Drywell Support Skirt
- Drywell Top Flanges Assembly

- 120" Diameter Equipment Door Assembly
- Male Stabilizer Assembly
- Female Stabilizer Assembly
- Basic Curve
- Drywell Penetration (there are many of these, only need drawing for large penetrations)
- Beam Seats Field Assembly Drawing
- Welding Pad Locations for Drywell
- Vent Header Assembly Vent Line Vacuum Breakers
- Expansion Bellows for Vent Lines
- General Arrangement Personnel Lock

Seismic Loading (Dynamic vs. Static Analysis Comparison)

- A full dynamic analysis of the model with appropriated ground motions should be documented in:
 - o Seismic Analysis Details, Appendix B of letter dated December 21, 1990 from H.S. Mehta of GE to SC. Tumminelli of GFUN.
- The FSAR (page 3.8-15 from Revision 13, April 2003) provides lateral and vertical static seismic coefficients which are claimed to be consistent with more detailed dynamic analyses. Provide details on comparisons between detailed dynamic analysis and static loading for seismic. The FSAR states that John A. Blume & Associates performed the full dynamic analysis and reported static coefficients equal to those used by CB&I (22% lateral, and 10% vertical).