

PMTurkeyCOLPEm Resource

From: Comar, Manny
Sent: Thursday, June 04, 2015 4:47 PM
To: TurkeyCOL Resource
Subject: FW: Turkey Point SRP Section 3.5.3 Missile Barriers
Attachments: HurricaneMissilefrom L-2014-130 AunDated 05-09-2014 Barrier Design Proprietary Response_.pdf

From: Franzone, Steve [mailto:Steve.Franzone@fpl.com]
Sent: Tuesday, May 12, 2015 2:42 PM
To: Comar, Manny
Cc: Burski, Raymond; Maher, William
Subject: FW: Turkey Point SRP Section 3.5.3 Missile Barriers

Manny

The associated calculation & report (Ref. 1 & 2 from RAI, see attached page) are available at the Westinghouse Office. Here is the contact information:

The address is:

11333 Wood Glen Drive

Suite 202

Rockville, MD 20852

The office hours are from 7:30 to 4pm.

This office is only 0.3 miles from your office.

Contact Cheryl Robinson at 301.881.7040.

She will need the names and times when any NRC Staff would like to review the documents.

Please call me if anyone has any problems.

Thanks

Steve Franzone

NNP Licensing Manager - COLA

“If you listen to your fears, you will die never knowing what a great person you might have been.” ~ Robert H. Schuller

561.694.3209 (office)

754.204.5996 (cell)

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From: Comar, Manny [mailto:Manny.Comar@nrc.gov]
Sent: Thursday, April 30, 2015 3:01 PM
To: Franzone, Steve
Cc: Burski, Raymond; TurkeyCOL Resource
Subject: FW: Turkey Point SRP Section 3.5.3

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Please let me know if you understand this

From: Chuang, Tze-Jer
Sent: Thursday, April 30, 2015 2:32 PM
To: Comar, Manny
Subject: Turkey Point SRP Section 3.5.3

Hello, Manny:

Here is the source of analysis that are included in the Response to NRC Request for Additional Information Letter No. 64 (eRAI 6544) dated September 19, 2012.

I am looking for the revised analysis that was subject to audit by NRC staff at the Twin Brook Westinghouse Office.

Thanks,
Jerry

Tze-~~jer~~ (Jerry) Chuang, Ph.D.,P.E., FASME
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Hearing Identifier: TurkeyPoint_COL_Public
Email Number: 1023

Mail Envelope Properties (377CB97DD54F0F4FAAC7E9FD88BCA6D0021FCCBDB4FE)

Subject: FW: Turkey Point SRP Section 3.5.3 Missile Barriers
Sent Date: 6/4/2015 4:46:44 PM
Received Date: 6/4/2015 4:46:45 PM
From: Comar, Manny

Created By: Manny.Comar@nrc.gov

Recipients:
"TurkeyCOL Resource" <TurkeyCOL.Resource@nrc.gov>
Tracking Status: None

Post Office: HQCLSTR01.nrc.gov

Files	Size	Date & Time
MESSAGE	2783	6/4/2015 4:46:45 PM
HurricaneMissilefrom L-2014-130 AunDated 05-09-2014 Barrier Design Proprietary Response_.pdf		
193927		

Options

Priority: Standard
Return Notification: No
Reply Requested: No
Sensitivity: Normal
Expiration Date:
Recipients Received:

Westinghouse Proprietary Class 2

shear calculation is based on ACI 349-01, Section 11.12.1.2 requirements, and the 0.3 factor is not used in defining the punching shear perimeter from the automobile missile dimensions.

Conclusion to Action Item 7

The Turkey Point site is evaluated with larger automobile missile velocities for the horizontal direction. The exterior auxiliary building walls above the ground elevation were evaluated. The effective widths for the ductility calculations of the auxiliary building walls are consistent with TR 133. The Turkey Point site punching shear calculations follow ACI 349-01.

This response is PLANT SPECIFIC.

References

1. [Westinghouse Report Calculation TPG-1000-CCC-001, Rev. 1, "Turkey Point Units 6 & 7 Nuclear Island – Hurricane Missile Impact."]^{a,c}
2. [Westinghouse Summary Report TPG-1000-S3R-001, Rev. 1, "Turkey Point Units 6 & 7 Nuclear Island – Hurricane Missile Impact."]^{a,c}
3. R. B. Linderman, J. V. Rotz, G. C. K. Yeh, "Design of Structures for Missile Impact," BC-TOP-9-A., Rev. 2, Bechtel Power Corporation, San Francisco, California, September 1974.
4. TM5-1300, Structures to Resist the Effects of Accidental Explosions, Department of the Army, Navy and Air Force, Washington DC, 19 November 1990.
5. Theory of Plates and Shells, Timoshenko, Stephen P., Woinowsky-Krieger, S., Second Edition, 1959, McGraw-Hill.
6. APP-GW-GLR-133, **AP1000** Standard Combined License Technical Report, "Summary of Automobile Tornado Missile 30' above Grade," Revision 1.
7. Reynolds, C.E., Reinforced Concrete Designer's Handbook, Concrete Publications Limited, London, 6th edition, 1964.
8. FPL Letter L-2012-352 to NRC dated September 19, 2012, Response to NRC Request for Additional Information Letter No. 64 (eRAI 6544) Related to SRP Section 03.05.03 - Barrier Design Procedures. [ML12265A065]

ASSOCIATED COLA REVISIONS:

Refer to Enclosure 4.

ASSOCIATED ENCLOSURES:

None