

PMTurkeyCOLPEm Resource

From: Comar, Manny
Sent: Wednesday, August 26, 2015 10:34 AM
To: Steve Franzone
Cc: TurkeyCOL Resource
Subject: Revised writeup
Attachments: Hurricane Missile Impact For the Turkey Point Site.docx

Steve:

Revised writeup for the review.

Thanks

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Hurricane Missile Impact for the Turkey Point Site

The staff reviewed the applicant's supplement response to RAI-6544, entitled, "Supplement to RAI-6544," (TPG-GW-FLR-002, Revision 1) dated December 2014, in addition to Technical Report (TR)133 (APP-GW-GLR-133), Revision 1, "Summary of Automobile Tornado Missile 30' Above Grade," and noted that additional information is needed in order to complete its safety review of the impact of the automobile missile on the wall and roof of the Auxiliary (Aux) building presented in the documents listed above. As such, the applicant is requested to address the following questions:

- a. In the applicant response to staff RAI, RAI 6544, Question 03.05.03-34 (1), where the staff requested the applicant to demonstrate how the critical location(s) for punching shear were located and addressed, the applicant stated, "On each of the wall segments the location of the automobile missile impact varies. Beam action (one-way action) and punching shear (two-way action) are evaluated on each wall panel at three locations: interior, edge, and corner." The applicant concluded that the automobile missile impacts were calculated at the midspan, the edges, and the corners of the Aux building walls, consistent with ACI 349-01. However, the staff reviewed the applicant response and noted that the tables (Table 3 – Beam Action Reactions and Table 4 – Punching Shear Reactions) presented only show the comparison of the results (One-Way vs Two-Way Action) of the automobile missile impact at the midspan of Aux building walls. The applicant is requested to provide the comparison of the results for the other two cases (edge and corner of the Aux building walls).
- b. TR 133 provides combined license (COL) information related to the impact of automobile missile at any elevation of nuclear island safety-related structures. The report states that five typical walls and three typical roof slabs are selected for evaluation (Walls: 1W, 2W, 3W, 4W, 5W; and Roof Slabs: 1R, 2R, 2R). Per TR 133, the applicant is requested to demonstrate the adequacy of critical sections of the roof slabs subject to hurricane automobile missile impact.