

NRR-PMDAPem Resource

From: Distel, David J:(GenCo-Nuc) <David.Distel@exeloncorp.com>
Sent: Thursday, January 14, 2016 10:49 AM
To: Govan, Tekia
Cc: Joe Bellini; Samlal, Valmicky:(GenCo-Nuc)
Subject: [External_Sender] Oyster Creek FHRR Clarification Question 1.a Response

Tekia – The following information provides the response for NRC clarification Question 1.a, as discussed in today’s follow-up conference call.

Follow-up Response to Question 1a of the Oyster Creek FHRR Audit Information Request

In Question 1a of the Oyster Creek FHRR Audit Information Request, the NRC sought clarification as to whether structures at the northeast corner of the Reactor Building would permit the conveyance of LIP-generated surface water runoff along the east face of the Reactor Building. Exelon clarified that the area at the northeast corner of the Reactor Building and along the east side of the Reactor Building (between the Reactor Building and the Old Rad Waste Building) is obstructed to flow. The NRC agreed with this clarification but did not agree that the FLO-2D model (updated to replace Area Reduction Factors with raised ground elements to more conservatively account for roof runoff) represented this obstruction. Exelon reviewed the updated model and concur that, when Area Reductions Factors were removed, a gap was inadvertently created between the Reactor Building and Old Radwaste Building, which is occupied by the Drywell Processing Center. The FLO-2D model was corrected to fill this gap with a raise ground element and prevent flow from passing between the buildings, which resulted in a flooding depth of 0.87 foot above the door sill (a 0.36 foot increase) at Door 9. The increase appears to be the same as the NRC’s sensitivity analysis described in the follow-up question. The flooding duration also increased by 0.58 hour. The table below presents the corrected results for each door location. Exelon is currently preparing an updated LIP calculation to incorporate the correction.

Door No.	Reference Grid Element No.	Max. Water Surface		Station Grade/ Door Sill Elevation	Max. Flooding Depth Above the Station Grade/Door Sill Elevation	Flooding Duration Above the Station Grade/Door Sill Elevation
		ft. (NAVD 88)	ft. (MSL)	Ft (MSL)	ft.	hrs.
Door 1	24458	22.70	22.72	23.50	-0.78	0.00
Door 2	26887	22.75	22.77	23.50	-0.73	0.00
Door 3	23275	22.70	22.72	23.50	-0.78	0.00
Door 4	26895	23.16	23.18	23.50	-0.32	0.00
Door 5	22982	22.70	22.72	23.50	-0.78	0.00
Door 6	27829	23.02	23.04	23.50	-0.46	0.00
Door 7	30020	23.07	23.09	23.50	-0.41	0.00
Door 8	31919	23.20	23.22	23.50	-0.28	0.00
Door 9	26009	24.35	24.37	23.50	0.87	1.52
Door 10	20654	22.62	22.64	23.62	-0.98	0.00
Door 11	20647	22.82	22.84	23.61	-0.77	0.00

Door 12	19802	23.57	23.59	23.60	-0.01	0.00
Door 13	18978	23.63	23.65	23.69	-0.04	0.00

Please let me know if any additional information is needed.

Thanks.
Dave Distel

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