January 24, 2000

Nuclear Energy Institute 1776 I Street, NW Suite 400 Washington, DC 20006-3708

SUBJECT: CONFIRMATION OF SELECTED SUMP DESIGN SURVEY RESPONSES

REFERENCES: (1) Modeen, D. (NEI), Letter to Marshall, M. (NRC), Subject: Additional Sump Design Survey Results and Feedback on NRC Sump Research Program, Date: September 30, 1999.

(2) Modeen, D. (NEI), Letter to Hannon, J. (NRC), Subject: Results of Survey Conducted on Pressurized Water Containments and Recirculation Sumps, Date: June 9, 1999.

Dear Mr. Modeen:

Thank you for coordinating the collection of responses to the pressurized water reactors sump design survey (References 1 and 2). As we have stated at several public meetings concerning the ongoing PWR sump blockage study, both the NRC and LANL staff have found the information that NEI has collected extremely useful.

We have completed our review of the survey responses. We believe some of the responses given by plants may be inaccurate. During one of the public meetings, Mr. Kurt Cozens of your staff offered to confirm the accuracy of survey responses that we believe may be inaccurate. Enclosed is a list of responses that are questionable.

If you have any questions regarding the enclosed list or would like to arrange a telephone conference to discuss the enclosed list, please, contact me at 301-415-5895 (phone), 301-415-5151 (fax), or mxm2@nrc.gov (email). We appreciate the support that your organization and the PWR owners groups have provided and look forward to a continuing cooperative working relationship.

Cordially,

Michael L. Marshall, Jr. Project Manager and Mechanical Engineer

Enclosures:

- (1) List of Questionable Responses to Sump Design Survey
- CC: J. Hannon, NRC R. Elliott, NRC D. Rao, LANL K. Cozens, NEI

#	Plant	Response	Comments
ollow	ring a LBLOCA, whe ulating pumps start t	n does the low press o draw suction from	sure safety injection (LPSI), residual heat removal (RHR), and/or the sump? {sec}
1	Calvert Cliffs 1	480 minutes	This seems like too much time.
2	Calvert Cliffs 2	480 minutes	
3	San Onofre 2	0.33 minutes	This seems like too little time.
ollow	ing a LBLOCA, whe	en is the maximum co	ontainment flood level reached? {sec.}
4	San Onofre 2	0.5 minutes	This seems like too little time.
ow n	nuch trash rack is av	/ailable? {ft. sq.}	
5	St. Lucie 2	883 ft ²	It appears credit is being taken for gates and other obstacles that a not local to the sump.
/hat i	is the hole size in th	e trash rack? {inches	\$}
6	Salem 1	0.23 in ²	This seems too small.
7	Salem 2	0.23 in ²	
oes t	the sump have a de	bris curb? What is	the height of the debris curb? {ft}
8	ANO-2	No Response	Any solid obstruction at the containment floor level, in front of, or under the sump screen can be considered a curb. A good example of this would be the angle iron or channel used to fasten the screens to the floor.
9	Davis-Besse	No Response	
10	Fort Calhoun	No Response	
11	Indian Point 2	No Response	
12	Indian Point 3	No Response	
13	Farley 1 and 2	No Response	
14	North Anna 1	No Response	
15	Nrth Anna 2	No Response	
16	Pt. Beach 1&2	No Response	
17	Surry 1 &2	No Response	
pproa	ach Velocity (Not a	Survey Question)	
18	Vogtle	12 ft/s*	Based on screen area reported in survey and pump flow rates reported in GL 97-04, LANL staff calculated an approach velocity for each plant. Some of the calculated values seem too high or too low
19	Indian Point 3	1.4 ft/s*	
20	Callaway	0.05 ft/s*	* Calculated by LANL.
ow N	⊥ luch Screen Area is	Available?	
21	Vogtle	5.84 ft2	Screen area reported in the survey seem too high or too low.
21	St. Lucie 2	571 ft2	
22	Callaway	692 ft2	