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LICENSEE: IOWA ELECTRIC LIGHT AND POWER COMPANY (IELP)

FACILITY: DUANE ARNOLD ENERGY CENTER

DOCKET NO.: 50-331

SUMMARY OF MEETING HELD ON AUGUST 19, 1975 TO DISCUSS IN-CORE INSTRUMENTATION DATA OBTAINED SINCE PLUGGING THE BYPASS FLOW HOLES IN THE LOWER CORE PLATE

On August 19, 1975, a meeting was held with representatives of Iowa Electric Light and Power Company (IELP) and General Electric Company (GE) to discuss the in-core instrumentation data and accelerometer data obtained since the bypass flow holes in the bottom core plate were plugged. The purpose of plugging the bypass flow holes was to reduce the hydraulic turbulence which caused the impacting of the instrument tubes on the adjacent channel boxes. Enclosure 1 is a list of meeting attendees.

Summary

IELP and GE representatives summarized the data obtained since the bypass flow holes were plugged. A summary of traversing in-core probe data (TIP and local power range monitor (LPRM) time trace data are shown on Enclosure 2. In addition, it was stated by the licensee that the power spectral density (PSD) data shows that the ratio of the integral of the PSD from 1.5 to 3.0 Hz to the integral of the PSD from 0.2 to 0.8 Hz is about an order of magnitude lower for the plugged configuration compared to the data obtained in the unplugged configuration. IELP stated that the FM data tape that recorded the accelerometer output was sent to GE for data reduction.

Based on the data obtained to date, IELP representatives concluded that there is no in-core impacting of the instrument tubes against the channel boxes. IELP agreed to submit a follow-on surveillance program for our review.

/s/

Walter A. Paulson
Operating Reactors Branch #3
Division of Reactor Licensing

Enclosures:
1. Attendance List
2. Start Up Phase Data Summary Table

OFFICE	ORB#3	ORB#3				
SURNAME	WAPaulson:kmf	GLear				
DATE	9/10/75	9/10/75				

ENCLOSURE 1

ATTENDANCE LIST

MEETING WITH IOWA ELECTRIC LIGHT & POWER COMPANY
AND NUCLEAR REGULATORY COMMISSION

INCORE INSTRUMENTATION DATA SINCE PLUGGING BYPASS FLOW HOLES

Nuclear Regulatory Commission

W. A. Paulson
O. J. Sheaks
D. Fieno
H. VanderMolen
F. D. Coffman
E. H. Verdery
L. S. Rubenstein
P. Chen

Iowa Electric Light & Power Company

R. Hannen
J. Ward
E. L. Hammond
J. Vinquist

General Electric Company

N. Shirly
J. Weiss

ENCLOSURE 2

START UP PHASE DATA SUMMARY

Flow at Data Collection Point	Tip* Data				Time Trace Data	
	P-P% *		P-P divisions		%	
	Mean	S.D. *	Mean	S.D.	Mean	S.D.
50	0.230	0.113	0.093	0.052	7.66	0.61
60	0.230	0.122	0.120	0.073	7.37	0.73
70	0.243	0.109	0.132	0.064	8.51	1.21
80	0.435	0.382	0.200	0.126	11.44	1.54
87	0.650	0.547	0.393	0.307	11.68	1.04
100	0.970	0.557	0.523	0.344	10.10	1.45
99% Unplugged	2.74	1.714	1.788	1.212	17.17	2.12

Plugged - Unplugged Comparison of Means

	Plugged % of Unplugged
P-P%	35.4
P-P divisions	29.3
Time Trace %	58.8

*TIP = Traversing Incore Probe
P-P = Peak-to-Peak
S.D = Standard Deviation