

NRC DISTRIBUTION FOR PART 50 DOCKET MATERIAL

TO: Dr. Ernst Volgenau		FROM: C-E Power Systems Windsor, CN 06095 A. E. Scherer		DATE OF DOCUMENT 03/13/78
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DESCRIPTION Furnishing addl info concerning the successive failures of the two Low Pressure Safety Injection Pumps' impeller retaining parts at the initiation of shutdown cooling during Pre-Operational testing at Subject Facility.....	ENCLOSURE
1p	
MILLSTONE 2 SAN ONOFRE UNITS 2 & 3 ARKANSAS UNIT 2 WATERFORD UNIT 3	jcm 03/27/78
PLANT NAME : Dist Per D. Tibbatts 3/23/78	

SAFETY		FOR ACTION/INFORMATION		ENVIRONMENTAL	
ASSIGNED AD:	VASSALLO	ASSIGNED AD:	V. MOORE (LTR)		
BRANCH CHIEF:	KNIEL	BRANCH CHIEF:			
PROJECT MANAGER:	ROOD	PROJECT MANAGER:			
LIC. ASST:	J. LEE	LIC. ASST:			
	BENEDICT				
			B. HARLESS		

INTERNAL DISTRIBUTION			
REG FILES	SYSTEMS SAFETY	PLANT SYSTEMS	SITE SAFETY &
NRC PDR	P. MATTSON	TEDESCO	ENVIRON ANALYSIS
I & E (2)	SCHROEDER	BENAROYA	DENTON & MULLER
FIELD		LATYAS	CRUTCHFIELD
GOSSICK & STAFF	ENGINEERING	IPPOLITO	
HANAUER	KNIGHT	F. ROSA	ENVIRON TECH
MTRC	ROSNACK		ERNST
CASE	STEWELL	OPERATING REACTORS	BALLARD
ROYD	PANLICKI	STELLO	YOUNGBLOOD
DeYoung		EISENHUT	
PROJECT MANAGEMENT	REACTOR SAFETY	SHAO	SITE TECH
SKOVHOLT	ROSS	BAER	GAMMILL (2)
P. COLLINS	NOVAK	BUTLER	
HOUSTON	ROSZTOCZY	GRIMES	SITE ANALYSIS
MELTZ	CHECK		VOLLMER
HELMES		S. D	BUNCH
SZ	AT & I	REID (4)	J. COLLINS
	SALTZMAN	GOLLER	KREGER
	RUTBERG	STOLZ	

(4) WATERFORD/Mission Viejo/	EXTERNAL DISTRIBUTION	R. MARTIN	CONTROL NUMBER
LPDR: Russellville/	AT LAB:	E. HYLTON	
TIC			
NSIC	REGION II		
REG V (J. HANCHETT)			
15 CVS SENT CATEGORY			

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C-E Power Systems
Combustion Engineering, Inc.
1000 Prospect Hill Road
Windsor, Connecticut 06095

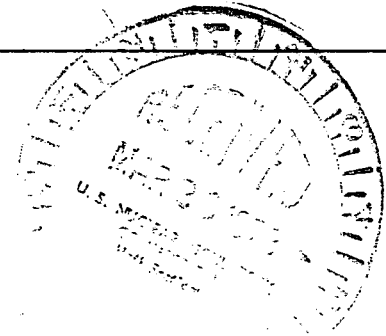
Tel. 203/688-1914
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REGULATORY DOCKET FILE COPY

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CE POWER SYSTEMS

March 13, 1978
LD-78-019



Dr. Ernst Volgenau, Director
Office of Inspection and Enforcement
U. S. Nuclear Regulatory Commission
Washington, D. C. 20555

Dear Dr. Volgenau:

This is to confirm my telephone conversation with Mr. Davis of your office on March 10, 1978.

On February 17, 1978 Arkansas Power and Light reported to Mr. Jim Gagliardo, NRC Region IV, the successive failures of the two Low Pressure Safety Injection Pumps' impeller retaining parts at the initiation of shutdown cooling during Pre-Operational testing at ANO-2. That report was made pursuant to the provisions of 10 CFR 50.55(e).


Since that time, Combustion Engineering has investigated whether similarly designed pumps (Ingersoll-Rand WD & WDF models) have been supplied by C-E to other nuclear facilities. We have determined that four other Combustion Engineering supplied Nuclear Steam Supply Systems have this type of impeller locking system on their Ingersoll-Rand pumps and may be susceptible to this type of failure. They are Northeast Utilities' Millstone Unit II, Louisiana Power and Light's Waterford Unit 3 and Southern California Edison's San Onofre Units 2 and 3. Millstone Unit II is currently shutdown for refueling and maintenance; the earliest initial operation of either Waterford Unit 3 or San Onofre Units 2 and 3 pumps is expected in late 1979. In our opinion no condition currently exists which adversely affects the health and safety of the public.

Arkansas Power and Light has committed to provide the Nuclear Regulatory Commission a detailed report of the pump failures and their intended corrective action. Combustion Engineering, in conjunction with Ingersoll-Rand, is supporting that effort. Ingersoll-Rand has modification kits available which provide a more positive locking design. Combustion Engineering is recommending prompt installation of these modification kits on ANO-2 and Millstone II. We are recommending to Louisiana Power and Light and Southern California Edison that the modification kits be installed prior to initial operation of their pumps.

Very truly yours,

COMBUSTION ENGINEERING, INC.


A. E. Scherer
Licensing Manager



AES:dag



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