LICENSEE EVENT REPORT (LER)									NUCLEAR REGULATORY COMMISSION APPROVED OMS NO. 3150-0104 EXPIRES 8/31/85							
FACILITY		1								DOCKET NUMBER	(2)		AGE (S)			
		TER CR	EEK	, UNIT 1				_		0 5 0 0	102111	9 1 0	FOLS			
TITLE (4)		SPRAY	AN	D DIESEL	GENERAT	OR INITIAT	ION C	AUSED	BY PROCE	EDURAL DEP	FICIENCY					
EVE	INT DATE		7414	LER NUMBER		REPORT DAT			of some of the second se	FACILITIES INVO	A COLUMN TWO IS NOT THE OWNER.					
MONTH	DAY					ON MONTH DAY YEAR FACILITY N				MES	DOCKET NUM	ER(S)				
											0 15 0 1	0101	11			
0 4	0 7	868	3 6	-005	- 0 0		8 6			of the following 13	0 15 10 1	0 1 0 1	11			
	RATING	I H	-	04T IS SUBMITTE	PURSUANT	20.406(c)	INTE OF IS	X	50.73(a)(2)(iv)		73,71(b)					
POWE	R 21			106 (5)(1)(i)	60.36(c)(1)			60.73(a)(2)(v)		73.71(c)						
(10)	0	815	20.4	105(a)(1)(ii)		50.36(e)(2)			50.73(a)(2)(vii)		below en	Specify in A d in Text, Ni				
			-	406(a)(1)(iii)	-	50.73(a)(2)(i) 50.73(a)(2)(ii)		-	50.73(a)(2)(viii)(50.73(a)(2)(viii)(366A)					
		F	-	405(a)(1)(iv)		50.73(a)(2)(iii)		-	60.73(a)(2)(x)		1					
			-		L	ICENSEE CONTACT	FOR THIS	LER (12)								
NAME										AREA CODE	TELEPHONE NO	MBER				
	Lvnn	e W I	eit	man, Oper	ations	Fnaineer				6 10 0	917111	4. 3	0, 8, 5			
	cynn	<u> </u>		and the second second second		EACH COMPONENT	FAILURE	DESCRIBE	D IN THIS REPOR	1-1- 1-	13 1/ 11	- 1 - 1 -	1015			
CAUSE	SYSTEM	COMPON	ENT	MANUFAC	REPORTABLE	1	T	SYSTEM	COMPONENT	MANUFAC	REPORTABL	-				
CAUSE	313124	COMPONE		TURER	TO NPROS		CAUSE	573164	COMPONENT	TURER	TO NPROS					
-	1	11	1	111						111	-					
		11	1	111					111	L L L	1					
				SUPPLEM	ENTAL REPORT	EXPECTED (14)				EXPECT		TH DAY	YEAR			
VE	5 111 yes, c	ompiete EXP	ECTED	SUBMISSION DATE	t)	X NO				SUBMISSI DATE (1			1.			
ABSTRAC	init read The valv conr The the REOS low- appr syst mini did low the befo	An in iation tor lo event ing on hected test g common /19A1 low re roximat ems re mal. not sp level plant re com	hadv bw w occ bw w occ he o to gaug seact tely espo The beci sen was nple	curred or ater leve urred whe f the low a test ga e and lir nsing lir valved i or water one minu nded as r apparent fy that t sor into in a sat tion of t	ore Spra April el scram en a ste i level nuge to ne were ne share nto ser level a ite, Cor required cause the test service e condi cesting.	y System a 7, 1986 at sensors w p in the t sensors, F verify com not filled d by react vice. The nd Core Sp e Spray Sy to the ev of the occ gauge had tion and t Long ter 1 lines be	t 1429 while cest p REO5/1 munic i with tor lo e press vstem vent, curren i to b the su rm cor	hour the p roced 9A1, ation wate w-low sure ystem opera and s ce wa e fil rrecti rrecti	s during lant was ure was into ser of the r and can level so drop cau operative tion was afety si s an ina led and ive active ve actio	a survei operating performed vice after sensor with used a pro- ensor REO2 sed REO2A on was in terminate gnificance dequate pro- vented be oncedure with n planned	llance o g at 165 requiri r being th the r essure d 2A when to sens itiated. ed. Oth e is con rocedure fore val taken to as revis is trai	f O MWt. ng eactor rop ir e Afte er pla sidere that ving t ensur ed ning o	r. n er ant ed tne re			
NRC For	PS			K 05000												

(9-83)

١

1

IE 22

LICENSEE	EVENT	REPORT	(LER) TEXT	CONTINUATION

U.S. NUCLEAR REGULATORY COMMISSION

EXPIRES 8/31/85

FACILITY NAME (1)	DOCKET NUMBER (2)		ER NUMBER (6)	PAGE (3)					
		YEAR		SEQUENTIAL	RN	UMBER		Π	
Oyster Creek, Unit 1	0 5 0 0 0 2 1 9	8 6	-	01015		010	0 2	OF	03

DATE OF OCCURRENCE

The event occurred on April 7, 1986 at approximately 1429 hours.

IDENTIFICATION OF OCCURRENCE

The Core Spray System and Emergency Diesel Generators were automatically initiated during a surveillance of reactor low water level sensors. This event is considered reportable under 10CFR50.73(a)(2)(iv).

CONDITIONS PRIOR TO OCCURRENCE

The plant was operating at 1650 MWt in the RUN mode.

DESCRIPTION OF OCCURRENCE

On April 7, 1986, a routine low reactor water level scram sensor test and calibration (Procedure 619.3.013) was in progress. A step in the procedure was reached requiring sensor RE05/19A1 to be valved into service after being connected to a test gauge to verify communication of the sensor with the reactor. The test gauge and line, which are unique to this surveillance, were not required by the procedure to be filled prior to their connection to the sensor. When REO5/19A1's isolation valves were opened a pressure drop occurred in the sensing lines as the test lines filled (1/4" outer diameter thick wall stainless steel tubing approximately 12 inches long). This pressure drop caused the reactor low-low level sensor, REO2A, which shares the same variable leg sensing line to sense low-low reactor water level when level was actually normal (See attached sketch for sensing line configuration). REO2A tripped its relay in the Reactor Protection System (RPS) and both Core Spray systems and the Emergency Diesel Generators initiated at 1429 hours. After approximately one second, REO2A and its associated RPS relay reset. Control Room operators verified proper reactor water level on two independent instruments and turned off the Core Spray pumps after approximately one minute of operation, at 1430 hours. Both diesel generators ran for the required 11.5 minutes after idle start and automatically shut off. The Containment Isolation, Standby Gas Treatment and Reactor Isolation systems were checked for proper operation and were found not to have tripped spuriously. Reactor water level, pressure and power did not change throughout the event. The surveillance was terminated and sensor RE05/19A1 was valved back into service.

APPARENT CAUSE OF OCCURRENCE

The apparent cause of the occurrence has been attributed to an inadequate procedure. The surveillance procedure being used did not provide instructions to the user to fill the test gauge line attached to the reactor low water level

NAC Form 366A

NRC Form 368A (9-83) LICEN SEE EV	LICEN SEE EVENT REPORT (LER) TEXT CONTINUATION APPROVED OMB NO. 3150-0104 EXPIRES: 8/31/85										
FACILITY NAME (1)	DOCKET NUMBER (2)		LE	ER NUMBER (6)		PAGE (3)					
		YEAR		SEQUENTIAL NUMBER	REVIS			T	T		
Oyster Creek, Unit 1	0 5 0 0 0 2 1 9	8 6	-	0 0 5	- q	0	01	3 0	0	3	

sensor before valving the sensor into service. When the sensor was valved into service with the unfilled test gauge and line, the pressure drop caused by filling the lines caused the reactor low-low level sensor sharing RE05/19A1's sensing line to trip and initiate Core Spray.

ANALYSIS OF OCCURRENCE & SAFETY ASSESSMENT

Several protective functions are actuated when reactor water level drops below 7'2" (low-low level) above the core. These are: Core Spray initiation; primary and secondary containment isolation; recirculation pump trip; reactor isolation; Emergency Diesel Generator initiation; and Isolation Condenser initiation. Of these, only Core Spray and Emergency Diesel Generator initiated because its initiation logic requires only one low-low reactor water level signal unlike the other protective functions listed above which have a one out of two twice logic for initiation.

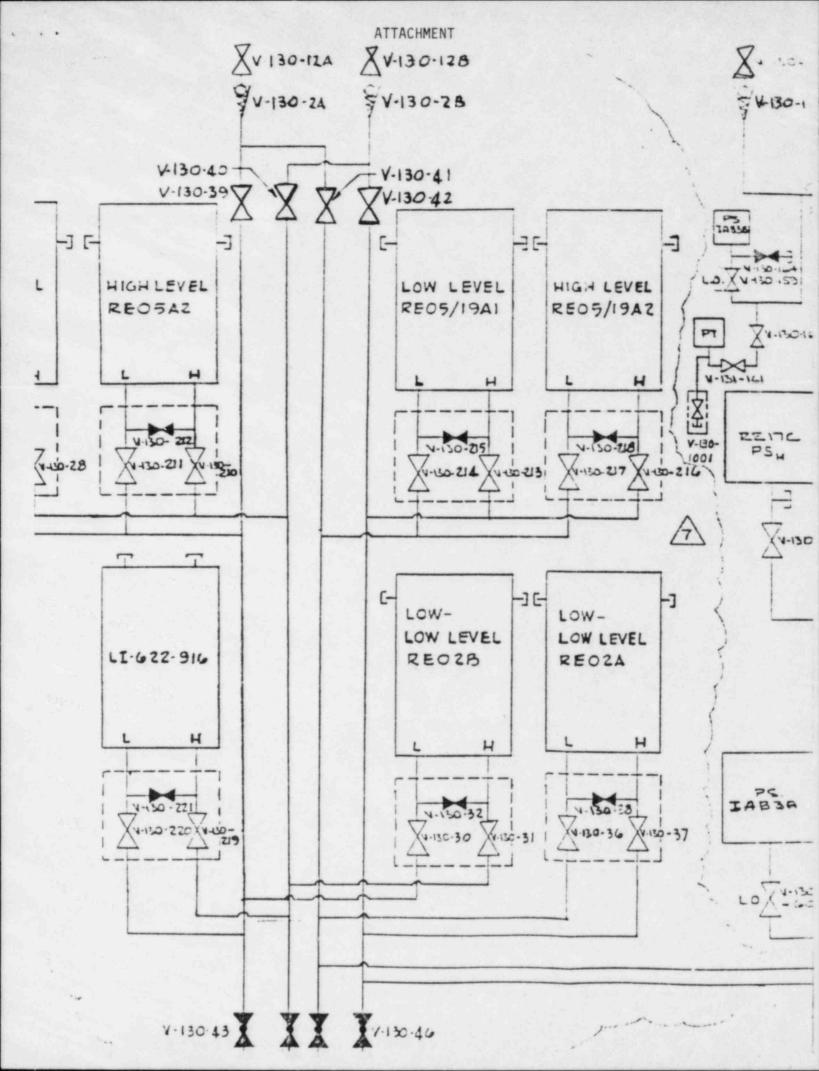
If this incident had occurred with reactor pressure less than 300 psig, actual Core Spray injection would have taken place. In this case, Core Spray initiated properly on a low-low level signal sensed by REO2A and other systems including the Emergency Diesel Generators, Containment Isolation, Standby Gas Treatment, and Reactor Isolation systems responded as required. Under the conditions, at the time of occurrence, this event represents only an unnecessary challenge to the Core Spray system and Emergency Diesel Generators. Therefore, the safety significance of this event is considered minimal.

CORRECTIVE ACTIONS

After the Core Spray initiation, immediate corrective actions were taken to ensure the plant was in a safe condition and Core Spray operation was terminated. The Post Trip Review Group was convened to analyze the event. Prior to the recommencement of the reactor low water level sensor test and calibration, the procedure was revised to ensure all test gauges and test lines are full of water prior to valving sensors back into service.

Long term corrective action will consist of instruction on the proper technique for filling lines before valving instruments into service and will be included in Instrumentation & Controls Technician training.

dam:0180A





GPU Nuclear Corporation

Post Office Box 388 Route 9 South Forked River, New Jersey 08731-0388 609 971-4000 Writer's Direct Dial Number:

May 6, 1986

U.S. Nuclear Regulatory Commission Document Control Desk Washington, DC 20555

Dear Sir:

Subject: Oyster Creek Nuclear Generating Station Docket No. 50-219 Licensee Event Report

This letter forwards one (1) copy of Licensee Event Report (LER) No. 86-005.

Very truly yours,

aly

Peter B. Fledler Vice President and Director Oyster Creek

PBF:BH:dam(0180A) Enclosures

cc: Dr. Thomas E. Murley, Administrator Region I U.S. Nuclear Regulatory Commission 631 Park Avenue King of Prussia, PA 19406

Mr. Jack N. Donohew, Jr. U.S. Nuclear Regulatory Commission 7920 Norfolk Avenue, Phillips Bldg. Bethesda, MD 20014 Mail Stop No. 314

NRC Resident Inspector Oyster Creek Nuclear Generating Station Forked River, NJ 08731

E22 '1