NRC Form (9-83)	LICENSEE EVENT REPORT (LER)							U.S. NUCLEAR REGULATORY COMMISSION APPROVED OMB NO. 3150-0104 EXPIRES 8/31/95							
FACILIES	NAME (1											DOCKET NUMBER	(2)	PAGE (3)	
D. C. COOK UNIT					2					0 5 0 0	10131116	1 OF 012			
TITLE 14			F	REAC	CTOR TI	RIP									
EVENT DATE (5) LER NUMBER (6)				REPORT DATE (7) OTHE				OTHE	R FACILITIES INVOLVED (8)						
MONTH	DAY	YEAR	YE	YEAR SEQUENTIAL NUMBER			MONTH	DAY	YEAR	FACILITY NAMES		AMES	DOCKET NUMBE	MBER(S)	
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MODE (9) 1				20.402(b)			20.405(c)		X 50.73(a)(2)(iv)		73.71(b)				
POWER			20.406(a)(1)(i)			50.36(c)(1)			50.73(a)(2)(v)			73.71(c)			
(10) 01916		5	20.405(a)(1)(ii)				50.38(c)(2)			50.73(a)(2)(vii)			OTHER (Specify in Abstract below and in Text, NRC Form		
			-	20.406(a)(1)(iii) 20.406(a)(1)(iv)			50.73(a)(2)(ii) 50.73(a)(2)(iii)			50.73(a)(2)(viii)(A) 50.73(a)(2)(viii)(B)		366A/			
			-) (B)			
			1	26.40	5(a)(1)(v)		50.73(a			. 50 (12)	50.73(e)(2)(x)				
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CAUES	SYSTEM	сом	PONEN	γT	MANUFAC TURER	REPORTABLE TO NPRDS			CAUSE	SYSTEM	COMPONENT	MANUFAC TURER	REPORTABLE TO NPRDS		
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					SUPPLEA	MENTAL REPORT	EXPECT	ED (14)				EXPECT: SUBMISSI		H DAY YEAR	

ON NOVEMBER 19, 1984, UNIT 2 WAS OPERATING AT 96 PERCENT REACTOR THERMAL POWER WITH THE LOOP 3 STEAM GENERATOR FEEDWATER LEVEL BISTABLES FOR REACTOR PROTECTION SYSTEM CHANNEL III TRIPPED. THE BISTABLES WERE IN A TRIPPED CONDITION DUE TO THE INOPERABILITY OF THE LOOP 3 STEAM GENERATOR FEEDWATER LEVEL INDICATION.

AT APPROXIMATELY 0356 HOURS, A SPURIOUS ACTUATION OF THE REACTOR PROTECTION SYSTEM FEEDWATER/STEAM FLOW MISMATCH BISTABLE FOR THE LOOP 3 STEAM GENERATOR OCCURRED. THIS TRIPPED BISTABLE, IN COMBINATION WITH THE EXISTING TRIPPED CONDITION OF THE STEAM GENERATOR LEVEL BISTABLE, ACTIVATED THE REACTOR PROTECTION SYSTEM LOGIC AND PRODUCED A REACTOR TRIP.

THE BISTABLE AND ASSOCIATED FEEDWATER/STEAM FLOW TRANSMITTERS WERE SUBSEQUENTLY TESTED BUT NO REASON FOR THE SPURIOUS ACTUATION WAS FOUND. CONSEQUENTLY, NO CORRECTIVE ACTIONS ARE PLANNED.

8412130378 841211 PDR ADOCK 05000316 PDR

YES III yes, complete EXPECTED SUBMISSION DATE!

ABSTRACT (Limit to 1400 spaces i.e. approximately fifteen single-space typewritten lines) (18)

NRC Form 366A (9-63)	LICENSEE EVENT	NOITAUN	U.S. NUCLEAR REGULATORY COMMISSION APPROVED OMB NO. 3150-0104 EXPIRES. 8/31/85			
FACILITY NAME (1)		DOCKET NUMBER (2)	. LER NUMBER (6)		PAGE (3)	
D. C. C	COOK UNIT 2		YEAR SEGUE	NTIAL REVISION		
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ON NOVEMBER 19, 1984, UNIT 2 WAS OPERATING AT 96 PERCENT REACTOR

TEXT (If more space is required, use additional NAC Form 366A's) (17)

ON NOVEMBER 19, 1984, UNIT 2 WAS OPERATING AT 96 PERCENT REACTOR THERMAL POWER WITH THE LOOP 3 STEAM GENERATOR FEEDWATER LEVEL BISTABLES FOR REACTOR PROTECTION SYSTEM CHANNEL III (IEEE COMPONENT FUNCTION IDENTIFIER = LS) TRIPPED. THE BISTABLES WERE IN A TRIPPED CONDITION DUE TO THE INOPERABILITY OF THE LOOP 3 STEAM GENERATOR FEEDWATER LEVEL TRANSMITTER BLP-132 (PER ACTION STATEMENT 7, TECHNICAL SPECIFICATION 3.3.3.1).

AT APPROXIMATELY 0356 HOURS, A SPURIOUS ACTUATION OF THE REACTOR PROTECTION SYSTEM FEEDWATER/STEAM FLOW MISMATCH BISTABLE (IEEE COMPONENT FUNCTION IDENTIFIER = FFS) FOR THE LOOP 3 STEAM GENERATOR OCCURRED. THIS TRIPPED BISTABLE, IN COMBINATION WITH THE EXISTING TRIPPED CONDITION OF THE STEAM GENERATOR LEVEL BISTABLE, ACTIVATED THE REACTOR PROTECTION SYSTEM LOGIC AND PRODUCED A REACTOR TRIP.

BASED ON REVIEW OF THE SEQUENCE OF EVENTS RECORD, THE FEEDWATER/
STEAM FLOW MISMATCH BISTABLE SETPOINT WAS EXCEEDED FOR LESS THAN
0.018 SECONDS. NO RECORD EXISTS OF THE FEEDWATER FLOW FOR THAT
INSTANT BECAUSE EVENT DURATION WAS LESS THAN THE RESOLUTION TIME
REQUIRED FOR RECORDING THE DATA ON THE PLANT COMPUTER. THE ATTEMPT
TO IDENTIFY ANY FAILED COMPONENTS DURING POST INCIDENT TESTING WAS
UNSUCCESSFUL. SUBSEQUENTLY, THE DETERMINATION WAS MADE THAT THE
EVENT ORIGINATED FROM AN INSTANTANEOUS ERRONEOUS SIGNAL FROM EITHER
THE FEEDWATER FLOW TRANSMITTER, STEAM FLOW TRANSMITTER OR BISTABLE
ASSOCIATED WITH THE FEEDWATER/STEAM FLOW MISMATCH LOGIC. THIS
CONCLUSION WAS BASED ON THE EXTREMELY SHORT DURATION OF THE EVENT
AND LACK OF ALARMS INDICATING FEEDWATER OR STEAM FLOW ABNORMALITIES.

DURING A CONTAINMENT INSPECTION FOLLOWING THE TRIP, IT WAS FOUND THAT THE PROBLEM WITH STEAM GENERATOR LEVEL TRANSMITTER, BLP-132, WAS CAUSED BY A STEAM LEAK AT THE VENT PLUG ON THE LEVEL TRANSMITTER REFERENCE LEG CONDENSING POT. THIS CONDITION WAS REPAIRED AND CORRESPONDING BISTABLE RESET PRIOR TO UNIT RESTART.

FOLLOWING THE TRIP INITIATION, ALL SAFETY SYSTEMS FUNCTIONED PROPERLY. FURTHER INVESTIGATION OF THE EVENT OR CORRECTIVE ACTIONS ARE NOT PLANNED.