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extensive testing of the DG, replacement of suspect DG temperature switches, and improvements in the ENN system.

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## A. REQUIREMENT FOR REPORT

This event is reportable per: a) 10 CFR 50.73 (a)(2)(iv), because an unplanned Engineered Safety Feature (ESF) actuation occurred when the ESF Actuation System Sequencer started, and b) Technical Specification 4.8.1.1.3, because a valid diesel generator failure occurred. Additionally, this report serves as a summary of the Site Area Emergency event.

B. UNIT STATUS AT TIME OF EVENT

Unit 1 was in Mode 6 (Refueling) at 0% rated thermal power. The reactor had been shut down since 2-23-90 for a 45 day scheduled refueling outage. The reactor core reload had been completed, the initial tensioning of the reactor vessel head studs was complete, and the outage team was awaiting permission from the control room to begin the final tensioning. Reactor Coolant System (RCS) level was being maintained at mid-loop with the Train A Residual Heat Removal (RHR) pump in service for decay heat removal. The temperature of the RCS was being maintained at approximately 90 degrees F.

Due to the refueling outage maintenance activities in progress, some equipment was out of service and several systems were in abnormal configurations. The Train B Diesel Generator (DG1B) was out of service for a required 36 month maintenance inspection. The Train B Reserve Auxiliary Transformer (RAT 1B) had been removed from service for an oil change. The Train B Class 1E 4160 Volt switchgear, 1BA03, was being powered from the Train A RAT 1A through its alternate supply breaker. All non-1E switchgear was being powered from the Unit Auxiliary Transformers (UAT) by backfeeding from the switchyard. All Steam Generator (S/G) nozzle dams had been removed, but only S/G's 1 and 4 had their primary manways secured. Maintenance personnel were in the process of restoring the primary manways on S/G's 2 and 3. RCS level was being maintained at mid-loop for valve repairs and the S/G manway restorations. In addition, the pressurizer manway was removed to provide an RCS vent path.

## C. DESCRIPTION OF EVENT

On March 20, 1990, at approximately 0817 CST, a truck driver with a security escort entered the protected area in a fuel truck. Although not a member of the plant operating staff, the driver was a Georgia Power Company employee belonging to a service group used to perform various plant services. The driver checked the welding machine that was in the area and found that it did not need fuel. He returned to the fuel truck and was in the process of backing out of the area when he hit a support holding the phase "C" insulator for RAT 1A. The insulator and line fell causing a phase to ground fault, and the transformer breakers tripped.

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At O820 CST, both Unit 1 breakers tripped causing Unit 1 Train A Class 1E Bus 2BA03, and the 480 v Train B Class 1E 4160 vo feeding both Trains of C the associated ESF Actua one Unit 1 and one Unit sequenced the loads to t Unit 2 response to this One minute and twenty se the Class 1E bus, the en (UV) condition to class	RAT 1A and the Unit 2 R a loss of offsite power 4160 volt Bus 1AA02, the olt busses supplied by 1 1t bus 1BA03 also lost p lass 1E 4160 volt busses tion System Sequencers to 2 Diesel Generators. DG heir respective busses. event is provided in LER conds after DG1A started gine tripped. This again 1E bus 1AA02. The UV sig	AT 28 High Side and Lo condition (LOSP) to t Unit 2 Train 8 Class AA02 and 2BA03. The U ower since RAT 1A was . The loss of power c o send a start signal 1A and DG2B started an Further description o 50-425/1990-002. and sequenced the load n caused an undervoltage and is a maintained s	w Side he lE nit 1 aused to d f the ds to ge ignal		

at the sequencer. However, since DGIA was coasting down from the trip, the shutdown logic did not allow the DG fuel racks or starting air solenoids to open and start the engine. This properly caused the engine starting logic to lock up, a condition that existed until the UV signal was reset. For this reason, DGIA did not automatically re-start after it tripped.

After the trip, operators were dispatched to the engine control panel to investigate the cause of the trip. According to the operator, several annunciators were lit. The operator briefly reviewed several instrument read-outs and detected no immediate problem. In order to restore emergency power, the operator reset the annunciators without delaying to evaluate or record the annunciators that were present. During this time, a Shift Supervisor (SS) and a Plant Equipment Operator (PEO) went to the sequencer panel to determine if any problems were present on the 1A sequencer. The SS pushed the UV reset button, then reset the sequencer by deenergizing and energizing the power supply to the sequencer. This caused the DG air start solenoid to energize for another 5 seconds which caused the engine to start. This happened 19 minutes after the DG tripped the first time. The engine started and the sequencer sequenced the available loads as designed. After 1 minute and 10 seconds, the breaker and the engine tripped a second time. It did not automatically re-start due to the starting logic being blocked as described above. By this time, operators, a maintenance foreman and the diesel generator vendor representative were in the DG room. The initial report was that the jacket water pressure trip was the cause of the trip. This report was discounted because the maintenance foreman and vendor representative observed that the jacket water pressure at the gauge was about 12-13 PSIG. The trip setpoint is 6 PSIG and the alarm setpoint is 8 PSIG. Also, the control room observed a lube oil sensor malfunction alarm.

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Fifteen minutes after the second DGIA trip, DGIA was started from the engine control panel using the emergency start breakglass button. The engine started and loads were manually loaded. When the DG is started in the emergency mode, all the trips except four are bypassed. However, all alarms will be annunciated. During the emergency run, no trip alarms were noticed by the personnel either at the control room or at the engine control panel. The only alarms noted by the control room operator assigned for DG operation were lube oil pressure sensor malfunction and fuel oil level high/low alarm, neither of which would have tripped the diesel.

At 1040 CST, RAT 1B was energized to supply power to 4160 volt bus 1BA03. DG1A supplied power to 4160 volt bus 1AA02 until 1157 CST, at which time bus 1AA02 was tied to RAT 1B.

A Site Area Emergency was declared at 0840 CST, due to a loss of all offsite and onsite AC power for more than 15 minutes. The Emergency Director signed the notification form used to inform offsite government agencies of the emergency at 0848 CST. The shift clerk attempted to initiate offsite notification utilizing the primary ENN in the control room but found it inoperable due to loss of power. The shift clerk then went to the back-up ENN and initiated notification after roll call on this system at 0857 CST. Due to the loss of power, which rendered the primary Emergency Notification Network (ENN) inoperable, and some mis-communication, the initial notification was not received by all agencies until 0935 CST.

The Emergency Director instructed personnel to complete various tasks for restoring containment and RCS integrity. All work was accomplished and maintenance personnel exited containment by 1050 CST.

The SAE was downgraded to an Alert Emergency at 0915 CST after restoration of core cooling and one train of electrical power. By 1200 CST, plant conditions had stabilized with both trains of electrical power being supplied from an offsite source (RAT 1B). After discussions with the NRC and local government agencies, the emergency was terminated at 1247 CST and all agencies were notified by 1256 CST.

D. CAUSE OF EVENT

Direct Cause:

- The direct cause of the loss of offsite Class IE AC power was the fuel truck hitting a pole supporting a 230kV line for RAT 1A. This was a cognitive personnel error on the part of the truck driver. There were no unusual characteristics of the work location that directly contributed to this personnel error.
- The direct cause of the loss of onsite Class 1E AC power was the failure of the operable DG, DG1A, to start and load the LOSP loads on buss 1AA02.

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3. The direct cause of the failure of the primary ENN system in the control room was the loss of electrical power to Unit 1. The primary ENN in the control room is powered from Unit 1 Class 1E AC power. Therefore, when Unit 1 lost Class 1E AC electrical power, the primary ENN in the control room did not work.

Root Cause:

- The truck driver met all current site training and qualification requirements, including holding a Class 2 Georgia driver's license. However, site safety rules, which require a flagman for backing vehicles when viewing is impaired, were violated.
- The root cause for the failure of DGIA has not been conclusively 2. determined. There is no record of the trips that were annunciated after the first trip because the annunciators were reset before the condition was fully evaluated. Therefore, the cause of the first trip can only be postulated, but it was most likely the same as that which caused the second trip. The second trip occurred at the end of the timed sequence of the group 2 block logic. This logic allows the DG to achieve operating conditions before the trips become active. The block logic timed out and the trip occurred at about 70 seconds. The annunciators observed at the second trip included jacket water high temperature along with other trips. In conducting an investigation, the trip conditions that were observed on the second DG trip on 3-20-90 could be duplicated by venting 2 out of 3 jacket water temperature sensors, simulating a tripped condition. The simulation duplicated both the annunciators and the 70 sec. trip time. The most likely cause of the DG trips was intermittent actuation of the jacket water temperature switches.

Following the 3-20-90 event, all three jacket water temperature switches, which all have a design setpoint of 200°F, were bench tested. Switch TS-19110 was found to have a setpoint of 197 degrees F, which was approximately 6 degrees below its previous setting. Switch TS-19111 was found to have a setpoint of 199 degrees F, which was approximately the same as the original setting. Switch TS-19112 was found to have a setpoint of 186 degrees F, which was approximately 17 degrees F below the previous setting and was re-adjusted. Switch TS-19112 also had a small leak which was judged to be acceptable to support diagnostic engine tests and was reinstalled. The switches were recalibrated with the manufacturer's assistance to ensure a consistent calibration technique.

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27	LICENSEE EVENT REPORT TEXT CONTINUATION	EXPIRES A/30/82 ESTIMATED BURDEN PER REPORSE TO COMPLY WTH THIS INFORMATION COLLECTION REQUEST 600 HRS FORMARD COMMENTS REGARDING BURDEN ESTIMATE TO THE RECORDS AND REPORTS MARAGEMENT BRANCH (F430). US NUCLEAR REGULATORY COMMUSEION NAMINGTON DC 20566 AND TO THE PAPERWORK REDUCTION PROJECT (3160-0104). OFFICE OF MARAGEMENT AND BUDGET, WASHINGTON, DC 20803.	
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1 in centre 1 3-31-90 for 90 for 2618	During the subsequent tes switches (TS-19111) trips an intermittent failure to This switch and the leak switches. All subsequent problems.	st run of the DG on the bed and would not report to because it subsequenting switch (TS-19112) the testing was conducted	3-30-90, one of the set. This appeared to be tly mechanically reset. ) were replaced with new ted with no additional
which culminated ligic tests on DGIA and 3-27-	A test of the jacket wate starts was conducted. Th actual jacket water tempe in a normal standby lineu without air rolling the e test showed that jacket w decreased from a standby 156 degrees F and remaine	er system temperature the purpose of this to trature at the switch up, and then followed engine to replicate to vater temperature at temperature of 163 of the steady.	e transient during engine est was to determine the h locations with the engine d by a series of starts the starts of 3-20-90. The the switch location degrees F to approximately
11 times e	Numerous sensor calibrati special pneumatic leak te were performed under vari control systems of both e test program: Subsequent started at least 18 times occurred during any of th start test without air ro and loaded properly.	ons (including jack sting, and multiple ous conditions. Aff ngines have been sul to this test progra each and no failur ese starts. In edd il was conducted on Cwhich	et water temperatures), engine starts and runs ter the 3-20-90 event, the ojected to a comprehensive am, DGIA and DGIB have been es or problems have These tion, Fan undervoltage included 4-6-90 and DGIA started
	Based on the above facts, temperature switches were 3-20-90.	it is concluded the the most probable of	at the jacket water high cause of both trips on
E. A	NALYSIS OF EVENT		
T S C C C T T S	he loss of offsite power to C tart and operate successfully ervice for maintenance, resul lass IE busses. With both Cl ould not perform its required ise in the RCS temperature of ould not have been expected t 6 minutes after the beginning	lass 1E bus 1BA03 and coupled with DG1B ted in Unit 1 being ass 1E busses deener safety function. If 46 degrees F in 36 to begin boiling untri of the event.	nd the failure of DG1A to and RAT 1B being out of without AC power to both rgized, the RHR System Based on a noted rate of minutues, the RCS water il approximately 1 hour and
Ri cri on Pri an 11 er	estoration of RHR and closure ompleted well within the esti- nset of boiling in the RCS. rocess and Effluent Radiation nalysis indicated all normal ncrease in radioactive releas nvironment occurred.	of the containment mated 1 hour and 36 A review of informat Monitoring System values. As a result es to either the con	equipment hatch were minutes for the projected tion obtained from the (PERMS) and grab sample t of this event, no htainment or the 92 PROJECT 057503
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		u.	& MUCLEAR REQULATORY COMMISSION	APPRIOVED DING NO. 315	0-0104
		LICENSEE EVENT REPORT TEXT CONTINUATION	(LER)	EXPARES 4/30/82 BETHINATED BURDEN PER REPORTS T BHOMMATION COLLECTION REQUEST COMMENTS REGARDING BURDEN ESTM AND REPORTS MARADEMENT PRANCH REGULATORY COMMUSSION, NASHINGT THE FAPERWORK REDUCTION PROJEC OF MARADEMENT AND BUDGET, RASHI	TO COMPLY WITH THR BOD HRS. FORWARD ATS TO THE RECORD (P 430). U.S. NUCLEAN ON. DC 20888. AND TO T. L3180-0101. OFF KCI NGTON, DC 20803.
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•. •	Adto	ditional systems were eit ensure the continued saf	her available or cou e operation of the p	ld have been made avai lant:	lable
	1.	The maintenance on RAT service approximately 2	1B was completed and hours into the event	the RAT was returned t.	to
	2.	Offsite power was avail step-up transformers wh Auxiliary Transformers that the phase to groun 1BA03 could have been p	able to non-lE equips ich were being used i (UAT) and supply the d fault was cleared, owered by feeding the	ment through the gener to "back-feed" the Uni non-1E busses. Provi Class 1E busses 1AA02 rough non-1E bus 1NA01	ator t ded and
	3.	The Refueling Water Sto establish gravity feed to the reactor.	rage Tank could have to the RCS to maintai	been used to manually in a supply of cooling	water
	Cor was eve	nsequently, neither plant s adversely affected by t ent and an assessment of cumstances will be perfo	safety nor the healt his event. A more de the event had it occu rmed and included in	th and safety of the p etailed assessment of urred under more sever a supplemental LER.	ublic this e
F.	COF	RECTIVE ACTIONS			
	1.	A management policy on established.	control and operation	n of vehicles has been	
	z.	Temporary barricades ha authorization for contr	ve been erected with ol of switchyard trai	signs which direct ffic to the SS.	
	3.	The Loss of Offsite Pow modified on Unit 1 so t upon LOSP. Therefore, upon LOSP. The Unit 2	er (LOSP) diesel stan hat an automatic "emm non-essential diesel DG's will be modified	rt and trip logic has argency" start will oc engine trips are bloc d by 4-30-90.	been cur ked
	4.	The DG1A test frequency 4-20-90 when the test f accordance with Technic will be continued until more than one valid fai two valid faiTures of the failures in 69 valid te	was increased to the requency will be char al Specification Tabl 7 consecutive valid lure in the last 20 w his event, there have sts of DGIA as of 119	ree times per week unt nged to once every 7 d le 4.8-1. This freque tests are completed w valid tests. Includin testen a total of four 57 CST on 3-20-90.	il ays in ncy ith no g the valid

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(£.40)		LICENSEE EVENT REPORT ( TEXT CONTINUATION	LER)	APPROVED ONNE NO. 3180-0164 & 1998 E 4/30/82 RETRICATED BURDEN POR ALEPONEE TO DOMELY BYTH THE INFORMATION COLLECTION RELETIONET TO THE RECORD CONNERTS RECARDING BURDER ETMANTE TO THE RECORD AND REPORTS MAINAGENERT BRANCH PLADI. U.S. WCLLEP REGULATORY COMMISSION, WASHINGTON, DC 20566 AND TO THE FARMENT AND BUDGET, WASHINGTON, DC 20562
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	5.	The defective DG temperat a test program will be co reliability of this type This program is designed suspect switches.	ture switches have b inducted at Wyle Lab of temperature swit to aid in determini	een replaced. In addition, oratories to investigate the ch under various conditions. ng the failure mode of the
	6.	A back-up ENN system powe existed and was operation extended to include Georg been given to Emergency D the emergency communication	ered from the AT&T s hal for South Caroli ha local and state Directors and Commun on systems.	ystem, which previously na agencies, has been agencies. Instructions have icators concerning use of
	7.	Further corrective action	s will be addressed	in a supplemental LER.
6.	ADO	ITIONAL INFORMATION		
	1.	Failed Components:		
		Jacket Water High Tempera Controls Company. Model #A-3500-W3	ture Switches manuf	actured by California
	2.	Previous Similar Events: None:		
	3.	Energy Industry Identific	ation System Code:	
		Reactor Coolant System - Residual Heat Removal Sys Diesel Generator Lube Oil Diesel Generator Starting Diesel Generator Cooling Diesel Generator Power Su Safety Injection System - 13.8 kV Power System - EA 1460 volt non-1E power sy 1460 volt Class 1E power Chemical and Volume Contr Containment Building - NH 480 volt Class 1E Power S Engineered Safety Feature Radiation Monitoring Syst	AB tem - B System - LA Air System - LC Water System - LB pply System - EK BQ stem - EA system - EB ol System - CB ystem - ED s Actuation System am - IL	- JE .
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