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February 24, 2000 1940-00-20041

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

Dear Sir:

Subject: Oyster Creek Nuclear Generating Station Docket No. 50-219 Licensee Event Report 00-001: Manual Scram Following Multiple Reactor Recirculation Pump Trip

Enclosed is Licensee Event Report 00-001. This event did not affect the health and safety of the public or plant personnel.

If any additional information or assistance is required, please contact Mr. Paul Czaya of my staff at 609-971-4139.

Very truly yours,

Sander Levin Acting Site Director

SL/PFC/TC

c: Administrator, Region I NRC Project Manager Senior Resident Inspector



U.S. NUCLEAR REGULATORY COMMISSION (4-95) LICENSEE EVENT REPORT (LER)						APPROVED BY OMB NO. 3150-0104 EXPIRES 04/30/98 ESTIMATED BURDEN PER RESPONSE TO COMPLY WITH THIS MANDATORY INFORMATION COLLECTION REQUEST: 500 HRS. REPORTED LESSONS LEARNEL ARE INCORPORATED INTO THE LICENSING PROCESS AND FED BACK TO INDUSTRY. FORWARD COMMENTS REGARDING BURDEN ESTIMATE TO THE INFORMATION AND RECORDS MANAGEMENT BRANCH (T-6 F33), U.S. NUCLEAR REGULATORY COMMISSION, WASHINGTON, DC 20555-0001, AND TO THE PAPERWORK REDUCTION PROJECT (3150-0104) OFFICE OF MANAGEMENT AND										
BI							BUDGET, WASHINGTON, DC 20503.									
Oyster Creek Unit 1							05000 - 219			1 of 5						
TITLE (4)			Mar	nual Scrar	n Follc	owing Mu	ltiple R	eactor	Recirc	culatio	n Pump Trip	K				
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ABSTRA	CT (Lin	nit to 1400	spaces, i.e., app	roximately 15	single-s	paced typew	ritten lines	(16)								

On January 21, 2000, at approximately 1049 hours, control room operators manually scrammed the reactor in response to a multiple reactor recirculation pump trip. Human error caused the multiple pump trip during performance of an isolation condenser actuation system surveillance. The isolation condenser actuation system also inserts trip signals into the reactor recirculation pump trip system. After testing the first instrument, the recirculation pump trip system was not properly reset before proceeding to the second instrument. When a test signal was introduced to the second instrument, the pumps tripped as designed. Plant response to the manual scram was normal.

A human performance assessment has been completed and corrective actions to reinforce management expectations will be completed.

NRC FORM 366A (4-95) U.S. NUCLEAR REGULATORY COMMISSION

LICENSEE EVENT REPORT (LER)

TEXT CONT	INUATION						
FACILITY NAME (1)	DOCKET (2) LER NUMBER (6)			PAGE (3)			
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Oyster Creek, Unit 1	-219	00	001	0	2	of	5

TEXT (If more space is required, use additional copies of NRC Form 366A) (17)

DATE OF OCCURRENCE

The event occurred at approximately 1049 hours on January 21, 2000.

IDENTIFICATION OF OCCURRENCE

On January 21, 2000, control room (EIIS-NA) operators manually scrammed the reactor (EIIS-AC) in response to a trip of all five reactor recirculation (EIIS-AD) pumps. The pumps tripped due to actuation of the ATWS (Anticipated Transient Without Scram) protection system (EIIS-JE). This is reportable in accordance with 10 CFR 50.73(a)(2)(iv).

CONDITIONS PRIOR TO DISCOVERY

The plant was operating at 65% power with all five reactor recirculation pumps in service. The "A" feedwater (EIIS-SJ) string was removed from service for maintenance.

DESCRIPTION OF OCCURRENCE

Procedure 609.3.113, Isolation Condenser Automatic Actuation Bistable Calibration and Test, was scheduled to be performed on January 21, 2000 during a plant power reduction. During the review of planned down-power activities, the impact of conducting the surveillance was reviewed. It was determined that at the time the surveillance was to be performed, the plant would be stable at 65%, with work on feedwater and condensate systems occurring. The performance of the surveillance would not be impacted by this work, so it remained on the schedule for performance during the down-power period.

A pre-shift briefing was held within the instrumentation and control (I&C) shop prior to the performance of the surveillance. A management representative observed the briefing. The comments relative to the briefing indicated that operating experience was reviewed, procedure use and adherence were emphasized, and self-checking was reviewed. Also discussed during the briefing was the schedule for completing the work, and any plant conditions impacting the surveillance. The pre-job brief was concluded such that all the participants were provided a clear set of goals for accomplishment of the task. The 3 I&C technicians involved in the performance of the surveillance were present for the briefing.

At the pre-shift brief conducted by the operating crew, the performance of this surveillance was not discussed. The pre-shift briefing focused on plant status (65% power) and upcoming activities associated with the down-power (feedwater and condensate maintenance).

Shift staffing normally includes 3 control room operators (CRO) and 3 plant operators. Due to the power reduction, one of the shift CROs was assigned to conduct switching and tagging evolutions at the start of the shift. The remaining 2 CROs were assigned control room tasks.

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DESCRIPTION OF	OCCURRENCE	(cont'd.)				
At approximately 10:00am, the I&C technicians er	tered the control i	oom to re	equest perm	ission to	perfo	rm
the surveillance test. The surveillance test was rev	iewed with the co	ntrol roon	n Group Op	berating	ana	
Supervisor (GOS), who directed the Lead I&C tecl	hnician to discuss	the test w	ith the Lea	d CRO (1	LCRO).
The LCRO verified the control room copy of the si	urveillance test wa	is the sam	e revision	as the one	e in us	e
by the I&C technicians and gave permission to cor	nmence the surve	llance. T	he GOS du	rected the	e LCR	0
to assist the I&C technicians in the performance of	the surveillance.					
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to distractions with reedwater heaters the GOS fail	ed to conduct the	oriening p	nor to the	start of th	le	
survemance.						
Based upon interviews and discussions with the pe	rsonnel involved.	the follov	ving scenar	io explai	ns the	
sequence of events that lead to the trip of the recirc	culation pumps and	d subsequ	ent manual	scram.		
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Oyster Creek, Unit 1	-219	00	001	00	4	of	5			

TEXT (If more space is required, use additional copies of NRC Form 366A) (17)

APPARENT CAUSE OF OCCURRENCE

The cause of this event has been determined to be human error in that the personnel performing the surveillance test failed to complete the reset of the recirculation pump trip system prior to commencing the test on the second pressure instrument. The step for resetting the system is properly stated in the procedure but the step was missed due to human error. The root cause for this human error was determined by the site human performance coordinator to be that the lead I&C technician failed to maintain sufficient control over performance of the surveillance test. As a result, a critical step in the test was not performed correctly.

Contributing Causes

- 1. The LCRO was tasked with supporting the performance of the surveillance, as well as having additional responsibilities. As such, he could not maintain the necessary focus on the performance of the surveillance test. Additionally, it was necessary for the LCRO to turnover this responsibility to CRO2 in the middle of the surveillance, which created a discontinuity in the oversight of the surveillance test.
- 2. Control room personnel consider themselves in a support role for I&C surveillance tests, to perform such actions as acknowledging alarms, and resetting trips when required by the procedure. This perception resulted in an insufficient focus on the performance of this surveillance test.
- 3. A pre-evolutionary brief by the control room GOS was not conducted prior to the execution of the surveillance test. Management expectations regarding pre-evolutionary briefs were not met.
- 4. The practice of only putting check marks next to completed steps, in lieu of actual initials at the time of performance, may have contributed to the failure to adequately perform the step of resetting the ACTUATE AI alarm and the ATWS logic.
- 5. During the course of interviews with the personnel involved with the January 21, 2000 scram, verbal communication practices within the control room were discussed. The observation of the surveillance test on January 29, 2000, confirmed that verbal communication practices related to the performance of surveillance tests and acknowledgement of alarms were not up to management expectations.

U.S. NUCLEAR REGULATORY COMMISSION (4-95) LICENSEE EVENT REPORT (LER) TEXT CONTINUATION										
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ANALYSIS OF OCCURRENCE AND SAFETY ASSESSMENT

Although actuated due to human error, the ATWS reactor recirculation pump trip system worked as designed. The insertion of a manual scram in response to the multiple recirculation pump trip was prompt and in accordance with station procedure.

Plant response to the manual scram was normal and operator actions during the transient were in accordance with procedures. During this event, plant systems operated as designed with all control rods (EIIC-ROD) inserting in accordance with Technical Specification requirements. Following the manual scram, reactor water level decreased below the reactor low level scram setpoint, as expected, and a reactor low level scram signal was initiated. Shortly thereafter a scram discharge volume (EIIS-AA) high level scram signal was initiated, also as expected. As the initial manual scram signal had not been reset, the two additional reactor protection system actuations that occurred after control rods fully inserted did not result in any further activation of engineered safety features.

CORRECTIVE ACTION

Immediate corrective actions were taken to respond to the reactor trip and place the reactor in the cold shutdown condition.

Operations and maintenance management will review this occurrence with their respective organizations and reinforce self-checking and peer checking practices. Also, a joint working group will be formed to establish and implement appropriate expectations for the conduct and control of I&C surveillance testing involving control room personnel.

SIMILAR EVENTS

None