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10 CFR 50.73

July 5, 2006  
2130-06-20357

U. S. Nuclear Regulatory Commission  
Attn: Document Control Desk  
Washington, DC 20555 - 0001

Oyster Creek Generating Station  
Facility Operating License No. DPR-16  
NRC Docket No. 50-219

Subject: Licensee Event Report 2006-001-00, Manual Scram Inserted During  
Planned Reactor Shutdown to Expedite Plant Cool-down

Enclosed is Licensee Event Report 2006-001-00, Manual Scram Inserted During  
Planned Reactor Shutdown to Expedite Plant Cool-down. This event did not affect the  
health and safety of the public or plant personnel. This event did not result in a safety  
system functional failure. There are no new regulatory commitments made in this LER  
submittal.

If any further information or assistance is needed, please contact Rich Milos, Regulatory  
Assurance at 609-971-4973 or Jeff Dostal, Operations, at 609-971-4572.

Sincerely,



James Randich  
Plant Manager, Oyster Creek Generating Station

Enclosure: NRC Form 366, LER 2006-001-00

cc: Administrator, USNRC Region I  
USNRC Project Manager, Oyster Creek  
USNRC Senior Resident Inspector, Oyster Creek  
File No. 06035

IE22

## LICENSEE EVENT REPORT (LER)

(See reverse for required number of  
digits/characters for each block)

Estimated burden per response to comply with this mandatory collection request: 50 hours. Reported lessons learned are incorporated into the licensing process and fed back to industry. Send comments regarding burden estimate to the Records and FOIA/Privacy Service Branch (T-5 F52), U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001, or by internet e-mail to infocollects@nrc.gov, and to the Desk Officer, Office of Information and Regulatory Affairs, NEOB-10202 (3150-0104), Office of Management and Budget, Washington, DC 20503. If a means used to impose information collection does not display a currently valid OMB control number, the NRC may not conduct or sponsor, and a person is not required to respond to, the information collection.

1. FACILITY NAME Oyster Creek, Unit 1	2. DOCKET NUMBER 05000 219	3. PAGE 1 OF 3
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## 4. TITLE

Unplanned Manual Scram Inserted During Planned Reactor Shutdown to Expedite Plant Cutdown

5. EVENT DATE			6. LER NUMBER			7. REPORT DATE			8. OTHER FACILITIES INVOLVED	
MONTH	DAY	YEAR	YEAR	SEQUENTIAL NUMBER	REV NO	MONTH	DAY	YEAR	FACILITY NAME	DOCKET NUMBER
05	06	2006	2006	- 001	- 00	07	05	2006	FACILITY NAME	DOCKET NUMBER 05000

9. OPERATING MODE  N	11. THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR §: (Check all that apply)									
	<input type="checkbox"/> 20.2201(b)	<input type="checkbox"/> 20.2203(a)(3)(i)	<input type="checkbox"/> 50.73(a)(2)(i)(C)	<input type="checkbox"/> 50.73(a)(2)(vii)						
10. POWER LEVEL  <1%	<input type="checkbox"/> 20.2201(d)	<input type="checkbox"/> 20.2203(a)(3)(ii)	<input type="checkbox"/> 50.73(a)(2)(ii)(A)	<input type="checkbox"/> 50.73(a)(2)(viii)(A)						
	<input type="checkbox"/> 20.2203(a)(1)	<input type="checkbox"/> 20.2203(a)(4)	<input type="checkbox"/> 50.73(a)(2)(ii)(B)	<input type="checkbox"/> 50.73(a)(2)(viii)(B)						
	<input type="checkbox"/> 20.2203(a)(2)(i)	<input type="checkbox"/> 50.36(c)(1)(i)(A)	<input type="checkbox"/> 50.73(a)(2)(iii)	<input type="checkbox"/> 50.73(a)(2)(ix)(A)						
	<input type="checkbox"/> 20.2203(a)(2)(ii)	<input type="checkbox"/> 50.36(c)(1)(ii)(A)	<input checked="" type="checkbox"/> 50.73(a)(2)(iv)(A)	<input type="checkbox"/> 50.73(a)(2)(x)						
	<input type="checkbox"/> 20.2203(a)(2)(iii)	<input type="checkbox"/> 50.36(c)(2)	<input type="checkbox"/> 50.73(a)(2)(v)(A)	<input type="checkbox"/> 73.71(a)(4)						
	<input type="checkbox"/> 20.2203(a)(2)(iv)	<input type="checkbox"/> 50.46(a)(3)(ii)	<input type="checkbox"/> 50.73(a)(2)(v)(B)	<input type="checkbox"/> 73.71(a)(5)						
	<input type="checkbox"/> 20.2203(a)(2)(v)	<input type="checkbox"/> 50.73(a)(2)(i)(A)	<input type="checkbox"/> 50.73(a)(2)(v)(C)	<input type="checkbox"/> OTHER						
	<input type="checkbox"/> 20.2203(a)(2)(vi)	<input type="checkbox"/> 50.73(a)(2)(i)(B)	<input type="checkbox"/> 50.73(a)(2)(v)(D)	<input type="checkbox"/> Specify in Abstract below or in NRC Form 366A						

## 12. LICENSEE CONTACT FOR THIS LER

FACILITY NAME Frank Meyer, Operations Support	TELEPHONE NUMBER (Include Area Code) 609-971-4827
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## 13. COMPLETE ONE LINE FOR EACH COMPONENT FAILURE DESCRIBED IN THIS REPORT

CAUSE	SYSTEM	COMPONENT	MANU-FACTURER	REPORTABLE TO EPIX	CAUSE	SYSTEM	COMPONENT	MANU-FACTURER	REPORTABLE TO EPIX
X	SE	CDU	F175	Y					

## 14. SUPPLEMENTAL REPORT EXPECTED

<input type="checkbox"/> YES (If yes, complete EXPECTED SUBMISSION DATE)	<input checked="" type="checkbox"/> NO	15. EXPECTED SUBMISSION DATE	MONTH	DAY	YEAR

## ABSTRACT (Limit to 1400 spaces, i.e., approximately 15 single-spaced typewritten lines)

On May 6, 2006, Oyster Creek was shutting down to start a Forced Outage (1F10) to repair a leak from the Steam Packing Exhauster Cooling Condenser (EIS: SE). This leak was adding excess volume to the radiological liquid waste processing systems (Radwaste). During the shutdown, it was decided to perform a manual reactor scram to improve plant cool down and thereby minimize the volume of component leakage being sent to Radwaste (EIS: WD).

This manual SCRAM was not a scheduled item during the pre-outage planning. The decision to insert the manual scram was made during the shutdown process. It was not performed to avoid reaching an automatic scram setpoint.

The 1F10 reactor shutdown was planned to be accomplished using full manual control rod insertion and manual scram was not a planned activity. The manual scram was performed after reducing reactor power level to the Source Range and the reactor was subcritical at the time.

All Control Rods fully inserted as a result of the manual scram, and all systems performed as designed.

## LICENSEE EVENT REPORT (LER)

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Oyster Creek, Unit 1	05000219	YEAR	SEQUENTIAL NUMBER	REVISION NUMBER	2 OF 3
		2006	- 001	- 00	

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

### Description of Event

On May 6, 2006, Oyster Creek was shutting down to start a Forced Outage (1F10) to repair a leak from the Steam Packing Exhauster Cooling Condenser (EISS: SE). This leak was adding excess volume to the radiological liquid waste processing systems (Radwaste). During the shutdown, it was decided to perform a manual reactor scram to improve plant cool down and thereby minimize the volume of component leakage being sent to Radwaste (EISS: WD).

This manual SCRAM was not a scheduled item during the pre-outage planning. The decision to insert the manual scram was made during the shutdown process. It was not performed to avoid reaching an automatic scram setpoint.

The 1F10 reactor shutdown was planned to be accomplished using full manual control rod insertion and manual scram was not a planned activity. The manual scram was performed after reducing reactor power level to the Source Range and the reactor was subcritical at the time.

All Control Rods fully inserted as a result of the manual scram, and all systems performed as designed.

### Analysis of Event:

No Engineered Safety Features (ESF) /Emergency Core Cooling Systems (ECCS) actuations accompanied the manual scram. Therefore the consequences of this event were minimal. It was a valid Reactor Protection System (RPS) (EISS: JC) actuation. The manual scram is considered event driven since the excessive rate of water volume being transferred to the Radwaste Facility was projected to exceed the liquid processing system's capability prior to reaching cold shutdown and securing the Condensate system. The 1F10 shutdown was planned to be accomplished using full manual control rod insertion – no manual scram was planned.

Since the reactor was already sub-critical at the time of the manual scram, an 8-hour report was required and made on May 6, 2006. Actuation of the Reactor Protection System is reportable under 10 CFR 50.73(a)(2)(iv)(A).

### Cause of Event:

The failure of the Steam Packing Exhauster (SPE) Cooling Condenser resulted in a high rate of leakage that exceeded the capability of Radwaste to process and return the sump and drain tank effluents for continued operation. The potential need to manually scram the reactor to improve plant cool down was recognized, but not documented as a planned activity during pre-outage planning. Operations made the decision to improve plant cool down, and isolation of the SPE Cooling Condenser leak, by inserting a manual scram of the reactor to avoid over burdening the Radwaste Liquid processing system.

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

**Corrective Actions:**

- (1) Repaired the leaking tubes in the SPE Cooling Condenser.
- (2) Performed a Root Cause Evaluation to prevent recurrence.

**Additional Information**

**A. Failed Components:**

The Steam Packing Exhauster Cooling Condenser failed and was the cause for entering the Forced Outage.

**B. Previous similar events:**

None

**C. Identification of components referred to in this Licensee Event Report:**

Components	IEEE 805 System ID	IEEE 803A Function
Steam Packing Exhauster Cooling Condenser	EIIS: SE	EIIC: CDU
Radiological Liquid Waste Processing Systems (Radwaste).	EIIS: WD	EIIC: PFR
Reactor Protection System	EIIS: JC	EIIC: XC-RCT