

September 23, 1969

W. E. Stratton, Subcommittee Chairman  
Oyster Creek Unit 1

J. H. Hendrie, Vice Chairman, ACRS

CATEGORY B REPORTS - OYSTER CREEK UNIT 1 - DIVISION OF COMPLIANCE REPORT  
TO THE DIRECTOR OF REGULATION DATED SEPTEMBER 15, 1969

Attached is a brief summary of the information presented in the subject  
correspondence. ACRS action appears warranted.

This item may be destroyed when you have completed your evaluation of  
this matter.

Original Signed by  
J. C. McKinley  
  
J. C. McKinley  
Staff Assistant

Attachments:

- 1) Summary
- 2) Div. of Compliance Report  
to Dir. of Regulation dated  
9/15/69

OFFICE ▶	ACRS				
SURNAME ▶	JCM/cl				
DATE ▶	9/23/69				

2/25/69  
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Oyster Creek Unit 1

A Division of Commission report to the Director of Regulation, dated September 13, 1976, reports the malfunction of the pressure control system and subsequent series of the Oyster Creek Reactor

During startup, while the reactor pressure was being incrementally increased from 970 psig to 1000 psig with the electrical pressure control system, a false signal caused the steam bypass valves to open and the reactor to depressurize. The plant was at 32 MPa and decreased about 40 seconds after this valve opened. The pressure decreased to about 370 psig within 5 minutes and the temperature dropped from 520°F to 410°F. The water level dropped seven feet but still seven feet of water remained above the core. No safety limits were exceeded.

Discussions with the cognizant BNL and CO personnel revealed that the initial series signal came from the flow biased flux series (which should not have been tripped at this low power level) followed closely by the low water level series signal. The operator tripped the steam line stop valves before the level reached the double low trip point but a valve trip signal was received when the water level went below the double low point. The core spray pumps started but did not inject any water since vessel pressure did not drop below the pump discharge pressure. The diesel generators started, the first signal (low-low water level) was fed into the containment spray circuitry, reactor and containment isolation occurred, and the isolation condenser was placed in service, all through automatic action.

CO has asked the operator for a report on this occurrence, the operator's informal reaction is to treat this as a debugging operation and not make any report, he has not made any formal commitment.

Both GE and the operator are investigating the failure of the pressure control system.

No ACRS action appears warranted.

OFFICE ▶					
SURNAME ▶					
DATE ▶					

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MEMO ROUTE SLIP Form AEC-93 (Rev. May 14, 1947)		See me about this. Note and return.	For concu For signature.	For action. For information.
TO (Name and unit) E. J. ... Executive Secretary, 1034 H Street	INITIALS  ACRS DATE	REMARKS RE: MALFUNCTION OF PRESSURE CONTROL SYSTEM JERSEY CENTRAL POWER AND LIGHT COMPANY (OYSTER CREEK REACTOR)		
TO (Name and unit)	INITIALS  DATE	REMARKS Forwarded for information are three copies of a report to the Director of Regulation on the above subject.  Enclosure: JC rpt dtd 9/15/69 (3)		RECEIVED SEP 19 10 40
TO (Name and unit)	INITIALS  DATE	REMARKS		
FROM (Name and unit) Lawrence D. Low, Director Division of Compliance <i>[Signature]</i>	REMARKS			
PHONE NO.	DATE 9/18/69			