

Jersey Central Power & Light Company

MADISON AVENUE AT PUNCH BOWL ROAD • MORRISTOWN, N. J. 07960 • 539-6111

June 22, 1973



Mr. A. Giambusso
Deputy Director for Reactor Projects
Directorate of Licensing
United States Atomic Energy Commission
Washington, D. C. 20545

Dear Mr. Giambusso:

Subject: Oyster Creek Station
Docket No. 50-219
Diesel Generator 1-1

The purpose of this letter is to report a failure of diesel generator 1-1 to assume load during a recent surveillance test. This event is considered to be an abnormal occurrence as defined in the Technical Specifications, Paragraph 1.15.G. Notification of this event as required by the Technical Specifications, Paragraph 6.6.B, was made to AEC Region I, Directorate of Regulatory Operations on June 11, 1973.

As a part of the normal surveillance program, an attempt was made to start the No. 1 diesel generator and load it to greater than 20% power as required by the Technical Specifications, Paragraph 4.7.A.1. However, before the unit could automatically synchronize onto the 1C bus, a "sequence fault" initiated and the generator shut down.

Investigation into this event showed that following a fast start test and with the diesel generator in peaking control, the generator trips immediately upon receipt of a normal stop signal rather than running back the load as might be expected. As a result, the engine governors are not set up for 60 Hz unloaded operation. In attempting to perform the normal surveillance test, the engine governor could not reset at a fast enough rate to match up frequency. Allowable time interval is 60 seconds. Consequently, the "sequence fault" condition occurred and the generator shut down.

The No. 1 diesel generator was taken out of automatic, started locally, was properly synchronized manually and loaded to rated load (2750 KW peaking). Control was then transferred back to the Control Room and the load test completed. The No. 2 diesel generator was also manually started and voltage and frequency matched locally. The unit was shut down, then given a normal start from the Control Room and the surveillance test satisfactorily completed.

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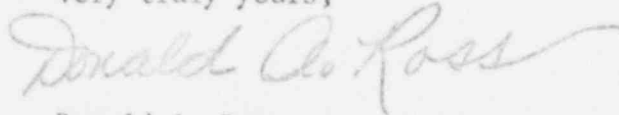
June 22, 1973

The diesel generator units are required to perform their safety function during a loss of power condition; thus, under such circumstances, synchronization is not required. Since both engines started and both generators were excited, their safety function would have been performed. Therefore, no unusual safety significance is associated with this event.

To prevent a recurrence of this kind, the Diesel Fast Start Surveillance Procedure (601) will be revised to include a manual unloading of the diesel generator before tripping the unit. This will run back the governor to normal unloaded position corresponding to 60 Hz.

Enclosed are forty (40) copies of this report.

Very truly yours,



Donald A. Ross
Manager, Nuclear Generating Stations

DAR:cs
Enclosures (40)

cc: Mr. J. P. O'Reilly, Director
Directorate of Regulatory Operations, Region I

Date: 6/11/73Time: 8:49 a.m.

ABNORMAL OCCURRENCE

REPORT NO. 73-10SUBJECT: Violation of the Technical Specification, para. N/A.

(or)

Failure of Diesel Generator 1-1 to assume load during surveillance testing which is required at bi-weekly intervals.

This event is considered to be an abnormal occurrence as defined in the Technical Specifications, para. 1.15G. Notification of this event as required by the Technical Specifications, para. 6.6.3 was made to AEC Region I Directorate of Regulatory Operations on Monday June 11, 1973.

SITUATION:

As a part of the normal surveillance program, an attempt was made to start #1 Diesel Generator and load it to greater than 20% power as required by the Technical Specification paragraph 4.7.A.1. However before the unit could automatically synchronize to the 1C bus, a "Sequence Fault" was initiated and the engine shut down.

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CAUSE:

Following a Fast Start test which had been conducted on both Diesel Generators on June 1, each unit had been tripped from the fully loaded condition. As a result, the engine governors were not set up for 60% unloaded operation. In attempting to perform the normal surveillance test the engine governor could not reset at a fast enough rate to match up frequency. Allowable time interval is 60 seconds. Consequently the "Sequence Fault" condition occurred.

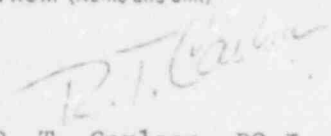
REMEDIAL ACTION:

The engine was taken out of automatic, started locally, was properly synchronized manually, and loaded to rated load (2750 KW peaking). Control was then transferred back to the Control Room and the load test was completed. #2 Diesel Generator was also manually started and voltage and frequency matched up locally. The unit was stopped, then given a normal start from the Control Room and the surveillance test was satisfactorily completed.

SAFETY SIGNIFICANCE:

The Diesel Generator units are required to function during a loss of power condition, thus as a result, synchronization is not required. Since both engines started and both generators were excited, this function would have been performed. Therefore there is no safety significance associated with this event.

Prepared by: D. A. Reeves
6/11/73

MEMO ROUTE SLIP		See me about this. Note and return	Concurrence. For signature.	For action. For information.
Form AEC-93 (Rev. May 11, 1967) AFM 0210				
TO (Name and unit)	INITIALS	REMARKS		
H. D. Thornburg, Chief, FS&EB		Licensee: Jersey Central Power & Light Co.		
	DATE	Docket No.: 50-219		
		Abnormal Occurrence: Report dated 6/11/73		
TO (Name and unit)	INITIALS	REMARKS		
RO:HQ (5) DR Central Files (1) Regulatory Standards Dir. of Licensing (13)		The attached report from the subject licensee is		
	DATE	forwarded in accordance with PO Manual Chapter 1000		
TO (Name and unit)	INITIALS	REMARKS		
RO Files		The action taken by the licensee is considered		
	DATE	appropriate. Followup will be performed during		
		the next inspection as appropriate. Copies of		
FROM (Name and unit)	REMARKS			
 R. T. Carlson, RO:I	the report have been forwarded to the PDR, Local			
	PDR, NSIC, DTIE and State representatives. The			
	licensee will submit a 10 day written report to			
PHONE NO.	DATE	Licensing.		
	6/12/73			

USE OTHER SIDE FOR ADDITIONAL REMARKS

GPO : 1971 O - 445