

AmerGen Energy Company, LLC Oyster Creek US Route 9 South, P.O. Box 388 Forked River, NJ 08731-0388

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www.exeloncorp.com

10 CFR 50.73

April 2, 2004 2130-04-20035

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 2002-003-02: Insufficient Appendix R Electrical Separation due to Void in Sand

Enclosed is Licensee Event Report 2002-003, Revision 2. During planning for the project to correct this condition, the specific method to re-establish adequate cable separation was changed from that originally intended. This revision is necessary to correctly describe the planned corrective action. The schedule is unchanged. Vertical bars have been placed in the right margin to indicate the text changes. This event did not affect the health and safety of the public or plant personnel.

If any further information or assistance is needed, please contact William Stewart at 609-971-4775.

Sincerely

C. N. Swenson Vice President, Oyster Creek Generating Station

CNS/WVS Enclosure

cc: H. J. Miller, Administrator, USNRC Region I
 P. S. Tam, USNRC Senior Project Manager, Oyster Creek
 R. J. Summers, USNRC Senior Resident Inspector, Oyster Creek
 File No. 02083

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NRC FORM 366 (7-2001) U.S. NUCLEAR REGULATORY COMMISSION APPROVED BY OMB NO. 3150-0104 EXPIRES 7 (7-2001) LICENSEE EVENT REPORT (LER) (See reverse for required number of objects/acters for required number of any not conduct required negatid to required to required to required to required to required negatid to required to required negatid to required negatid to required to required negatid to required to required to required negatid to required to r		
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13. COMPLETE ONE LINE FOR EACH COMPONENT FAILURE DESCRIBED IN THIS REPORT		
14. SUPPLEMENTAL REPORT EXPECTED 15. EXPECTED MONTH DAY	TEAR	
YES (If yes, complete EXPECTED SUBMISSION DATE) / NO DATE	<u></u> _	
16. ABSTRACT (Limit to 1400 spaces, i.e., approximately 15 single-spaced typewritten lines) A void was discovered in an area expected to be filled with sand beneath a portion of the two 480 VAC switchgear rooms. This void creat an open area between two 4160 VAC feeder conduits. Because of the void, Appendix R electrical separation criteria were no longer met. Apparently, sand may not have completely filled the area and/or had settled over time creating this void.	1	
The safety significance of this discovery is minimal, as there is no combustible material in the void. Both cables are contained in conduit a have sufficient Class 1E electrical separation.	hd	
Immediately upon discovery, a continuous fire watch was stationed. Additional actions were subsequently taken to open communication between the void and adjacent smoke detectors. This would provide early warning early warning of a degraded condition. Adequate separation will be provided by re-filling the void between the two 4160 VAC feeder conduits to meet Appendix R requirements. The sand will be monitored. No similar events have occurred.	n	
NRC FORM 366 (7-2001)		

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NRC FORM 366A (1-2001)	š .	U.S. NUCLEAR REG	ULATORY COMMIS
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1. FACILITY NAME	2. DOCKET	6. LER NUMBER	3. PAGE
		YEAR SEQUENTIAL REVISION NUMBER NUMBER	1
Oyster Creek	05000 219	2002 - 003 - 02	2 OF 3
17. NARRATIVE (If more space is required, use addition	tional copies of NRC Form 30	56A)	L
DATE OF DISCOVERY			
This event was discovered on October 10, 20	002, at 5:59 PM.		
	ı		
IDENTIFICATION OF OCCURRENCE			
While performing a cable pulling evolution, it rooms. This void created an open area betw discovery was considered reportable under 1	een two 4160 VAC feede		
CONDITIONS PRIOR TO DISCOVERY			
At the time of discovery, the plant was in color been concluded that it existed during all mod		However, it is not known when the voi	d formed and it ha
DESCRIPTION OF OCCURRENCE			
During replacement of the 4160 VAC feeder opening existed around the conduit that pene Kaowool and had been broken during the cal an open underground void was discovered (a the Reactor and Turbine Building walls. This this area open, the 4160 VAC feeder cables area. These cables were routed in separate Without the sand in place, the separation of t (provide a three hour fire barrier; or provide a separation with no intervening combustibles of	etrated the floor. This op- ble replacement project. approximately four feet de s void affected the Appen- to USS 1A2 and 1B2 wer conduits. And the condui these redundant cables fa a one hour barrier with au	ening had previously been sealed with Upon examination to determine a repa eep, three feet wide, and 50 feet long) is dix R fire separation of the 4160 VAC f re not sufficiently separated from each its were separated horizontally by appr ailed to meet Appendix R Section III.G. tomatic suppression and detection; or	M-board and hir for the floor sea in the area betwee eeder cables. Will other under the flo oximately ten feet 2 requirements
As the cables are both enclosed in rigid steel Installation Specification SP-9000-41-005.	I conduit, they do meet cl	ass 1E electrical separation criteria as	required by
APPARENT CAUSE			
The apparent cause of this discovery is that a opening this void beneath the A and B 480 V	sand may not have comp 'AC switchgear room floo	letely filled the area and/or had settled rs.	over time, thus
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NRC FORM 366A 1-2001)				LEAR REG	ULATORY COMM			
LICENSEE EVENT REPORT (LER)								
1. FACILITY NAME	2. DOCKET		6. LER NUMBER		3. PAGE			
	05000.010	YEAR	SEQUENTIAL NUMBER	REVISION NUMBER				
Oyster Creek	05000 219	2002	- 003	02	3 OF 3			
17. NARRATIVE (If more space is required, use addition	al copies of NRC Form 36	6A)						
ANALYSIS OF OCCURRENCE AND SAFETY	ASSESSMENT							
This discovery has minimal safety significance f cables in the conduits. A fire in either conduit w conduits terminate have detection systems, whi these cables is from the 480 v room(s) directly a detection, making it unlikely that a fire of sufficie attempting to enter the void would have to origin the fire. This discovery has no impact on the safety sign	rould not propagate to ch would alert operato above the void. These ent magnitude would de nate from an area, which ificance for non-Appen	the other co is to any fire rooms are evelop capa th also has dix R scena	nduit. Additiona e. The most like provided with au- ble of affecting t detection capab arios. This disco	ally, the roo ly source o tomatic fire the cables. ility, again a wery does i	ms where the f fire exposure to suppression an Any combustible alerting operators not affect the Cla			
1E operability of the 4160 VAC feeder cables to fully operable during a non-Appendix R scenario		e Class 1E	separation criter	ia is mainta	ained and would			
CORRECTIVE ACTIONS								
 Immediate Corrective Actions A continuous fire watch was stationed. A rated fire seal was installed at the floor per in either 480 VAC room from propagating into th Holes were drilled in hallway floor plate abov detectors and the fire watch was changed to hol Potential seismic issues were reviewed and f Extent review was performed for possible oth separation criteria, no other concerns were disc 	he void area. Ve the void to allow any urly. found not to be an issu her cases where below	potential s	moke to commu	nicate with	hallway area sm			
 Short term corrective actions 1. A supporting Operability Documentation review 2. The Fire Brigade received additional instruction for a fire in this area. 3. Tools, additional fire extinguishers, and a cell 	ions on this discovery.	The Fire B	rigade Pre-Fire I	Information	Plan was update			
Long term corrective actions Adequate separation will be provided by re-filling meet Appendix R, Section III.G.2 requirements. will be periodically monitored as necessary to en separation is restored, the immediate and short	This installation is exp nsure the sand fill mair	ected to be tains adequ	e completed by A Late cable separ	April 30, 200 ation. Whe	04. The void are			
SIMILAR EVENTS								
SIMILAR EVENTS								
SIMILAR EVENTS None.								

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