

POWER REACTOR

EVENT NUMBER: 34155

FACILITY: INDIAN POINT
UNIT: [] [3] []
RX TYPE: [2] W-4-LP, [3] W-4-LP

REGION: 1
STATE: NY

NOTIFICATION DATE: 04/30/98
NOTIFICATION TIME: 15:39 [ET]
EVENT DATE: 04/29/98
EVENT TIME: 10:30 [EDT]
LAST UPDATE DATE: 04/30/98

NRC NOTIFIED BY: KOCSIS
HQ OPS OFFICER: CHAUNCEY GOULD

EMERGENCY CLASS: NOT APPLICABLE
10 CFR SECTION:
CCCC 21.21 UNSPECIFIED PARAGRAPH

NOTIFICATIONS

NIEL DELLA GRECA RDO
VERN HODGE NRR

UNIT	SCRAM CODE	RX CRIT	INIT PWR	INIT RX MODE	CURR PWR	CURR RX MODE
3	N	Y	100	POWER OPERATION	100	POWER OPERATION

EVENT TEXT

PART-21 REPORT FAILURE OF 480 VAC BREAKER DUE TO LACK OF LUBRICATION.

AN ENGINEERING EVALUATION CONCLUDED THE WESTINGHOUSE TYPE DS-416 CIRCUIT BREAKER FAILED TO OPEN ON DEMAND BECAUSE LUBRICATION AT KEY PIVOT POINTS IN THE BREAKER MECHANISM WAS MISSING. THE LACK OF PROPER LUBRICATION WAS DETERMINED TO BE THE RESULT OF A BREAKER OVERHAUL PERFORMED BY POWER DISTRIBUTION TECHNOLOGY (PDT) WHICH REMOVED THE LUBRICANTS AND FAILED TO REAPPLY THEM. PDT HAD OVERHAULED THE FAILED BREAKER AND THREE OTHER TYPE DS-416 BREAKERS IN 1994 IN ACCORDANCE WITH THE LICENSE'S PURCHASE ORDER WHICH CONTAINED SPECIFIC REQUIREMENTS RELATED TO LUBRICATION. THE LACK OF LUBRICATION ON THE BREAKERS OVERHAULED BY PDT, WHICH IS NO LONGER IN BUSINESS, COULD HAVE PREVENTED A BREAKER FROM PERFORMING ITS SAFETY FUNCTION, RESULTING IN A SUBSTANTIAL SAFETY HAZARD.

THE RESIDENT INSPECTOR HAS BEEN NOTIFIED OF THE PART 21.

140007

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PDR ADOCK 05000286
S PDR

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NRC FORM 361
10-80

EVENT NOTIFICATION WORKSHEET

EVENT TIME		FACILITY OR ORGANIZATION		UNIT	CALLER'S NAME	CALL BACK # ENS	
		Indian Point		3	CHARLIE KOCSIS	or 1	
EVENT TIME & ZONE		EVENT DATE		1-Hr Non-Emergency 10 CFR 50.72(b)(1)			
1030 EDT		4/29/98					
POWER/MODE BEFORE		POWER/MODE AFTER		4-Hr Non-Emergency 10 CFR 50.72(b)(2)			
100%		100%					
EVENT CLASSIFICATIONS							
GENERAL EMERGENCY		GEN/AAEC		(i)(A) TS Required S/D		ASHU	
SITE AREA EMERGENCY		SIT/AAEC		(i)(B) TS Deviation		ADEV	
ALERT		ALE/AAEC		(ii) Degraded Condition		ADEG	
UNUSUAL EVENT		UNU/AAEC		(iii)(A) Unsurvived Condition		AUNA	
50.72 NON-EMERGENCY (see next column)				(iii)(B) Outside Design Basis		AOUT	
PHYSICAL SECURITY (73.71)		D77		(iii)(C) Not Covered by OPs/EPs		ACNC	
TRANSPORTATION		NTRA		(iii) Earthquake		ANEA	
MATERIAL/EXPOSURE		B77/E77/P77		(iii) Flood		ANFL	
FITNESS FOR DUTY		NFIT		(iii) Hurricane		ANMU	
OTHER		PART 21 N777/C777/G77		(iii) Ice/Melt		ANIC	
				(iii) Lightning		ANLI	
				(iii) Tornado		ANTO	
				(iii) On Natural Phenomenon		ANOT	
				(iv) ECCS Discharge to RCS		ACCS	
				(v) Lost ENS		AENS	
				(vi) Lost Other Assessment/Comm		AARC	
				(vi) Emergency Siren INOP		AESS	
				(vi) Fire		AFIR	
				(vi) Toxic Gas		ACHS	
				(vi) Rad Release		ARAO	
				(vi) On Manoeuvring Safe Op.		AMIN	
				(i) Degraded White S/D		ADAS	
				(ii) RPS Actuation (scram)		ARPS	
				(ii) ESF Actuation		AESF	
				(iii)(A) Safe S/D Capability		ATNA	
				(iii)(B) RHR Capability		AINB	
				(iii)(C) Control of Rad Release		AIRC	
				(iii)(D) Accident Mitigation		AINO	
				(iv)(A) Air Release > 2X App B		AAIR	
				(iv)(B) Liq Release > 2X App B		ALIQ	
				(v) Offsite Medical		AMED	
				(vi) Offsite Notification		APRE	

DESCRIPTION

Include: Systems affected, actuations & their initiating signals, causes, effect of event on plant, actions taken or planned, etc.

10 CFR Part 21 Notification

LER 97-032-00 dated January 16, 1998, reported the failure of a 480 volt AC type DS-416 circuit breaker to open on demand. An engineering evaluation concluded the cause of the breaker failure was missing lubrication at key pivot points in the breaker mechanism. The lack of proper lubrication was determined to be a result of a breaker overhaul performed by Power Distribution Technology (PDT) which removed lubricants and failed to reapply them. PDT had overhauled the failed breaker and three other type DS-416 breakers in 1994 in accordance with a NYPA purchase order which contained specific requirements related to lubrication including total lubrication of all friction surfaces. Engineering determined that without proper lubrication the breaker is not qualified and may not operate and perform its function. One of the safety functions of 480 volt type DS-416 breakers is to trip when required to provide load shedding to prevent safety bus or Emergency Diesel Generator overloading. Engineering concluded on April 29, 1998, that the breaker defect could result in a substantial safety hazard. The lack of lubrication on the breakers overhauled by PDT could have prevented a breaker from performing its safety function resulting in loss of a 480 volt safety bus. A breaker failure during a design basis event with loss of offsite power and an independent single failure of a redundant bus could result in the loss of a second of the three emergency onsite power sources. PDT is no longer in business. The original breaker manufacturer was Westinghouse. LER 97-032-00 was supplemented by LER 97-032-01 dated April 17, 1998.

REPORT 4/30/98 1540
INCIDENT NUMBER 34155 NRC CONTACT MR. GOULD

NOTIFICATIONS	YES	NO	WILL BE	ANYTHING UNUSUAL OR NOT UNDERSTOOD?	YES (Explain above)	NO
NRC RESIDENT			X			
STATE(S)		X		DID ALL SYSTEMS FUNCTION AS REQUIRED?	YES	NO (Explain above)
LOCAL		X				
OTHER GOV AGENCIES		X		MODE OF OPERATION UNTIL CORRECTED: N/A	ESTIMATED RESTART DATE: N/A	ADDITIONAL INFO ON BACK ☐ YES ☒ NO
MEDIA/PRESS RELEASE		X				