

TO: MR. JAMES P. O'REILLY - USAEC - KING OF PRUSSIA, PA. RO:1

FROM: T. J. PERKINS - STATION SUPERINTENDENT - NINE MILE POINT #1

ABNORMAL OCCURRENCE # 73-11-17

LOSS OF OFF SITE POWER

IN ACCORDANCE TO TECHNICAL SPECIFICATIONS 1.13 d AND 3.6.3, WE ARE REPORTING AN ABNORMAL OCCURRENCE WHICH WAS TELEPHONED TO YOUR OFFICE ON 11/18/73 AT APPROXIMATELY 1030 HRS.

ON NOVEMBER 17, 1973 AT 1626 HRS., NINE MILE POINT NUCLEAR STATION, UNIT #1 EXPERIENCED A LOSS OF ALL OFF SITE POWER.

FOLLOWING OPERATOR CRITICAL DEMONSTRATIONS, THE REACTOR WAS IN THE JUST CRITICAL CONDITION, MODE SWITCH IN START-UP, MODERATOR TEMPERATURE 207°F, WITH ONE 115 KV RESERVE LINE DE-ENERGIZED TO CONNECT THE 115 KV LINE TO JAFNPP. IN THE COURSE OF THE RELAY WORK ASSOCIATED WITH THIS CONNECTION, A PLANT ELECTRICIAN BUMPED 50 FDS/SI, A SEAL IN RELAY, WHICH TRIPPED AND DE-ENERGIZED RELAY 940 CAUSING THE LOSS OF THE REMAINING LINE.

A REACTOR SCRAM OCCURRED 5.4 SECONDS LATER AS MG SETS #131 AND #141 UPON LOSS OF POWER WERE COASTING DOWN AND TRIPPED AT 55 HZ. WITHIN 9 SECONDS FROM THE LOSS OF ALL A.C., THE TWO DIESEL GENERATOR SYSTEMS WERE UP AND HAD ENERGIZED THE TWO CONTROL ROD DRIVE PUMPS TO MAINTAIN LEVEL. REACTOR WATER LEVEL NEVER DECREASED AND WAS MAINTAINED WITHIN THE NORMAL EXPECTED RANGE FOR THIS TRANSIENT. ALL SYSTEMS FUNCTIONED AS DESIGNED WITH A LOSS OF 115 KV WITHOUT THE TURBINE-GENERATOR UNIT AVAILABLE.

THE 115 KV LINE WAS AUTOMATICALLY RESTORED TO SERVICE IN APPROXIMATELY 10 SECONDS. THE REACTOR WAS RESTARTED AT APPROXIMATELY 9 PM AFTER RESTORATION OF BOTH 115 KV LINES AND NORMAL CONDITIONS ESTABLISHED WITHIN THE PLANT.

THERE WAS NO LINE A HAZARD PRESENTED TO THE GENERAL PUBLIC AS A RESULT OF THIS TRANSIENT.

8303140626 731121
PDR ADDOCK 05000220
S PDR

Incident 570-220
THOMAS J. PERKINS
STATION SUPERINTENDENT
NINE MILE POINT NUCLEAR STATION

MEMO ROUTE SLIP Form AEC-93 (Rev. May 14, 1947) AECM 0240		See me about this. Note and return.	For concurrence. For signature.	For action. <input checked="" type="checkbox"/> For information.
TO (Name and unit) RO Chief, FS&EB RO:HQ (5) RO Files Central Mail & Files Regulatory Standards	INITIALS	REMARKS NIAGARA MOHAWK NINE MILE POINT NUCLEAR POWER STATION DN 50-220 AO 73-11-17		
	DATE			
	(3)			
TO (Name and unit) Directorate of Licensing (13) Regional Directors, (RO II, III, IV) OGC	INITIALS	REMARKS The above abnormal occurrence is forwarded for information. Distribution will be made by this office to the PDR, Local PDR, NSIC,		
	DATE			
TO (Name and unit)	INITIALS	REMARKS DTIE, and State Representatives.		
	DATE			
FROM (Name and unit) <i>E. J. Brunner</i> E. J. Brunner Region I	REMARKS			
PHONE NO. 8-337-1246	DATE 11/28/73			

USE OTHER SIDE FOR ADDITIONAL REMARKS

GPO : 1971 O - 445-463

U.S. ATOMIC ENERGY COM.
DIVISION OF COMPLIANCE

1973 NOV 3 AM 8 43

RECEIVED