NRC Form 366 (9-83)	ENSEE EVENT RE	PORT (LER)		CLEAR REGULATON APPROVED OMB N EXPIRES 8/31/86		
FACILITY NAME III Nine Mile Point Unit I			DOCKET NUMBER		PAGE (3)	
TITLE (4)			0   5   0   0		. [01]	
Loss of Power to One Channel					1 Scram.	
EVENT DATE (5) LER NUMBER (6) MONTH DAY YEAR YEAR SEQUENTIAL NUMBER NUMBER	REPORT DATE (7) OTHER F MONTH DAY YEAR FACILITY NAM			ES DOCKET NUMBER(S)		
NUMBER NUMBER				0   5   0   0	0 1 1	
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OPERATING MODE (9) THIS REPORT IS SUBMITTED PURSUANT T   POWER LEVEL (10) 20.405(a)(1)(i)   20.405(a)(1)(ii) 20.405(a)(1)(iii)   20.405(a)(1)(iii) 20.405(a)(1)(iii)   20.405(a)(1)(iii) 20.405(a)(1)(iii)   20.405(a)(1)(iv) 20.405(a)(1)(iv)	O THE REQUIREMENTS OF 1 20.406(c) 50.36(c)(1) 50.36(c)(2) 50.73(a)(2)(i) 50.73(a)(2)(ii) 50.73(a)(2)(iii)	0 CFR §: (Check one or more 50.73(a)(2)(iv) 50.73(a)(2)(vii) 50.73(a)(2)(viii) 50.73(a)(2)(viii) 50.73(a)(2)(viii) 50.73(a)(2)(viii) 50.73(a)(2)(x)	(A)	73.71(b) 73.71(c) OTHER (Spec	ify in Abstract Taxt, NRC Form	
LI	CENSEE CONTACT FOR THI	S LER (12)				
Robert G. Randall, Superviso	r, Technical S	the diversity of the second	AREA CODE 3   1  5	314 pt 1	2 4 4 5	
CAUSE SYSTEM COMPONENT MANUFAC REPORTABLE TURER TO NPROS	CAUS	SYSTEM COMPONENT	MANUFAC TURER	REPORTABLE TO NPRDS		
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SUPPLEMENTAL REPORT	EXPECTED (14)	· · · · · · · · ·	EXPECTE		DAY YEAR	
YES III ver complete EXPECTED SUBMISSION DATE/ X NO			DATE (15)			
ABSTRACT (Limit to 1400 users is approximately lifteen ungle users type ABSTRACT On April 2, 1986, Nine Mile refueling. The mode switch the unit experienced a full the cause was the loss of Re further established that the of a Brown Boveri ITE-27 und Bus #11 supply (motor-genera will cause a full scram upon relay was reset when it was and the supply to RPS Bus #1 involved an investigation in the undervoltage relay will B605010126 860423 SDR ADOCK 050002200 PDR	Point Unit #1 was in the "SI scram. Upon is eactor Protect > loss of RPS I lervoltage relator set #162) > loss of either established the l was restored ito the cause of	HUTDOWN" posit investigation ion System (RP Bus #11 was ca ay that monito . Non-coincid er RPS Bus (11 hat there was d. The correc of the relay t	ion. At ( it was det S) Bus #11 used by th rs the out ent logic or 12). no undervo tive actio	0226 hours termined t 1. It was he deenerg tput of th during "S The under oltage con on initiat	hat ization e RPS GHUTDOWN'' voltage idition,	

NRC Form 386 (9-83) LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

U.S. NUCLEAR REGULATORY COMMISSION

APPROVED OMB NO. 3150-0104 EXPIRES 8/31/88

FACILITY NAME (1)	DOCKET NUMBER (2)	LER NUMBER (6)	PAGE (3)	
		YEAR SEQUENTIAL REVISION NUMBER NUMBER		
Nine Mile Point Unit I	0 5 0 0 0 2 2	0 8 6 0 0 5 0 0	12 OF 0 12	

## TEXT

IRC Form 366A

On April 2, 1986, Nine Mile Point Unit I was in the shutdown condition for refueling. The mode switch was in "SHUTDOWN". At 0226 hours the unit experienced a full scram. It was determined that the cause of the scram was the loss of Reactor Protection System (RPS) Bus #11. It was determined that the loss of RPS Bus #11 was caused by the deenergization of an undervoltage relay, a Brown Boveri ITE-27 type #211B1165 relay. This resulted in the isolation of RPS Bus #11 from its normal supply, motor generator set #162. The low condenser vacuum bypass relay , main steam isolation valve closure bypass relay, and the reactor trip reset permissive after shutdown relay are all part of non-coincident logic available when the mode switch is in the "SHUTDOWN" position. Therefore, the loss of one RPS channel during shutdown will deenergizize both subchannels of auto-reactor trip relays on each RPS channel, and both manual scram relays on both RPS channels. Subsequently, the loss of RPS Bus #11 during shutdown resulted in a full scram.

## ASSESSMENT OF POTENTIAL SAFETY CONSEQUENCES

Since the Reactor Protection System functioned as designed for conditions corresponding to the shutdown mode, and in the conservative direction, there were no adverse safety consequences. There was no control rod movement. Due to the spiral off-load pattern used at Unit I, all rods were either fully inserted, or fully withdrawn and valved out if the corresponding fuel cell was unloaded. If the unit was to experience an event of this type during normal full power operation, the result would have been a half-scram. There would, again, have been no adverse safety consequences.

## CORRECTIVE ACTION

An investigation into the cause of the relay trip was initiated. Based on the findings of this investigation, the relay will be repaired or replaced.

## NIAGARA MOHAWK POWER CORPORATION



300 ERIE BOULEVARD WEST SYRACUSE, N.Y. 13202

THOMAS E. LEMPGES

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April 23, 1986

United States Nuclear Regulatory Commission Document Contrôl Desk Washington, DC 20555

RE: Docket No. 50-220 LER 86-05

Gentlemen:

In accordance with 10 CFR 50.73, we hereby submit the following Licensee Event Report:

LER 86-05 Which is being submitted in accordance with 10 CFR 50.73 (a) (2) (iv), "Any event or condition that resulted in manual or automatic actuation of any Engineered Safety Feature (ESF), including the Reactor Protection System (RPS). However, actuation of an ESF, including the RPS, that resulted from and was part of the preplanned sequence during testing or reactor operation need not be reported."

A 10 CFR 50.72 report was made at 0315 on April 2, 1986.

This report was completed in the format designated in MUREG-1022, dated September 1983.

Very truly yours,

oper

Thomas E. Lempges Vice Président Nuclear Generation

TEL/tg Attachments cc: Dr. Thomas E. Murley Regional Administrator

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