

SYSTEM

R

I

D

S

Å

D

D

S

R

Ĩ

D

S

D

S

10N

NOTES:

	RECIPIENT	COPIES	101	RECIPIENT	COPI	ES .
	ID CODE/NAME	LITR EN	NCL	ID CODE/NAME	LITR	ENCL
	PDI-1 LA	1 1	L	PD1-1 PD	1	<u>p</u>
	HAUGHEY, M	1 1	L	BENEDICT, R	1	Ŧ
INTERNAL:	ACRS MICHELSON	1 1	L	ACRS MOELLER	2	2 .
	ACRS WYLIE	1 1	L	AEOD/DOA	1	1 .
	AEOD/DSP/TPAB	i h	Ĺ	AEOD/ROAB/DSP	2	2
	ARM/DCTS/DAB	īb	ĺ.	DEDRO	1	1
	NRR/DEST/ADE 8H	i l	ī.	NRR/DEST/ADS 7E	ī	3
	NRR/DEST/CEB 8H	ī 1		NRR/DEST/ESB 8D	ī	1
	NRR/DEST/TCSB 7	- î - Î	Ĩ	NER/DEST/MEB 9H	ī	1
	NER/DEST/MTB 9H	- ī - Ī		NER/DEST/PSB 8D	î	1
	NDD/DEST/DEB SE	7 1	· ,	NDD/DEST/SCB 8D	1	1
	NDD/DLDI/NDD 0L	- † †	-	NRC DEST/SGD 8D	1	f
	NDD (DOES (ESP 11	- 1	•	NCR/DDFQ/QAD IO	1	t
	NRR/DUEA/EAB II.		Ļ	NRR/DREP/RAB IU	1	t
	NRR/DREP/RPB 10	2 4		NRR-DRES SIB 9A	T	H _
	NUDOCS-ABSTRACT	1 1		REG_FILLE 02	1	₽.
•	RES/DSIR/EIB	1 1	L	RES/DSR/PRAB	1	1 L
	RGN1 FILE 01	1 1	L	•		
EXTERNAL:	EG&G WILLTAMS.S	4	1	FORD BLDG HOY, A	1	
	H ST LOBBY WARD	i f		I.PDR	ī	T .
	NDC DDD	- î - Î	-	NGTO HADDIG J	1	F · ·
		t		HOTO HULLTO'O	-	Ť
	NOIC MAID, G	4 ±	L,			
		1				

ort NO 7535415335

NOTE TO ALL "RIDS" RECIPIENTS:

DIS

PLEASE HELP US TO REDUCE WASTE! CONTACT THE DOCUMENT CONTROL DESK, ROOM P1-37 (EXT. 20079) TO ELIMINATE YOUR NAME FROM DISTRIBUTION LISTS FOR DOCUMENTS YOU DON'T NEED!

TOTAL NUMBER OF COPIES REQUIRED: LTTR 46 ENCL -45

, ``

· · •

.

,

.

·

*



NMP44026

NIAGARA MOHAWK POWER CORPORATION/300 ERIE BOULEVARD WEST, SYRACUSE, N.Y. 13202/TELEPHONE (315) 474-1511

January 16, 1989

U.S. Nuclear Regulatory Commission Attention: Document Control Desk Washington, DC 20555

RE: Docket No. 50-410 SPECIAL REPORT

Gentlemen:

In accordance with the Nine Mile Point Unit 2 (NMP2) Technical Specification. (TS) 3.3.7.2, Action Statement a., we are submitting the following Special Report concerning the inoperability of the Seismic Monitoring Instrumentation (Specifically - the Triaxial Peak Accelerograph, Primary Containment Recirculation Pump Motor).

EXECUTIVE SUMMARY

The Triaxial Peak accelerograph, Primary Containment Recirculation Pump Motor is installed and maintained as required by the NMP2 TS. This unit appears to exhibit premature failure and a consequent faulty reading due to high background vibration. Thus, no TS credit is being taken for this unit.

An accelerograph will be mounted in an alternate location designated by Niagara Mohawk Power Corporation (NMPC) Engineering. This unit is expected to function properly and provide information on seismic activity. The selected location is not the location specified in the NMP2 TS. Thus, NMPC is not taking credit for meeting TS requirements with this accelerograph.

NMPC plans to have an acceptable location for this accelerograph and an appropriate change to the TS by the end of the first refueling outage.

EVENT DESCRIPTION

On December 6, 1988 at 1400 hours with the reactor in cold shutdown (Operational Condition 4), reactor coolant at approximately 108 degrees Fahrenheit and atmospheric pressure, the Triaxial Peak Accelerograph (2ERS-PAČ2C) was declared inoperable. It was found inoperable during the performance of procedure N2-ISP-ERS-R102 (Operating Cycle Channel Calibration of Seismic Monitoring Cent No 4535415335 Int No 4535415335 Ilo Triaxial Peak Accelerographs Instrument Channels). The vertical channel flexure arm was broken, the transverse axial sensitivity was found to be out of specification, and the vertical permanent record plate was found to have indications resulting from equipment operational vibrations.

8901270066 890116 PDR ADOCK 05000410 PDC

· ,

· · ·

• •

, • • • • • • •

Page 2 SPECIAL REPORT NMP44026

CAUSE OF EVENT

The cause of the broken vertical channel flexure arm and of the indications on the vertical record plate was Reactor Recirculation pump (2RCS-PlA) normal vibration.

:

The loss of transverse axial sensitivity was due to instrument wear.

ACTIONS TAKEN

A Problem Report was written on December 6, 1988 for the indications on the vertical permanent record plate. The vertical channel flexure arm was replaced on December 23, 1988. The transverse axial sensitivity was returned to specification on December 23, 1988 by replacing the transverse platform sensor assembly.

The Problem Report was written to have NMPC Engineering perform an indepth analysis of this installation and consider relocating 2ERS-PAC2C. The Problem Report's Description stated that: The vertical channel of 2ERS-PAC2C is exposed to vibration that exceeds the amplitude values expected in an earthquake. Thus, the indications caused by reactor recirculation pump vibration, during normal operation, would obscure any subsequent earthquake indication on the record plate. [The As Found amplitude on this plate was 3-4 millimeters or around 4 gravity accelerations (4g's).]

NMPC Engineering determined from the startup tests that the vertical movement during normal plant operation would be a maximum of 0.1 millimeters steady state (This is within acceptable limits). They concluded that this constant vertical vibration loosened the flexure arm and eventually caused it to break. As the arm loosened it created an increasing amplitude on the record plate and thus the 3-4 millimeters measured by the Instrument and Control (I&C) Technicians. (A 3-4 millimeter amplitude on this plate would represent about 4g's if the recorder were operating properly.)

. . · · r 、 · ·

· -

Page 3 SPECIAL REPORT NMP44026

NMPC Engineering will develop a temporary modification to move 2ERS-PAC2C to a motor control center (MCC) cabinet in the NMP2 Secondary Containment (This cabinet is in the North Auxiliary Bay at the 240 foot elevation) The I&C technicians will periodically examine the record plates to determine if this location has an acceptably low level of background vibration. It is expected to be acceptable. If it turns out to be so, 2ERS-PAC2C will remain at this location and a Technical Specification change will be submitted to the Nuclear Regulatory Commission to change Table 3.3.7.2-1, item 2.c to reflect this new location. If it is not satisfactory, then another new location will be found.

Sincerely, Mu J. L. Willis

General Superintendent Nuclear Generation

JLW/AD/cjm (1504u)

XC: Regional Administrator, Region 1, W. A. Cook, Resident Inspection

• • • • • . . .

• • •

.