and the second	REGUL	TOR	FORM	ATION E	ISTRIBU	ŢION Ś	<b>S</b> TEM	(RIDS	/ ;)		
ACCESSION FACIL:50 ``AUTH.NA LEMPGES, Recip.N VASSALLC	NBR:83080303 -220 Nine Mil ME' AUT T.E. Niag IAME REC D.D.B. C	331 C le Point THOR AFF gara Moh CIPIENT Operatir	OOC.D/ Nuc ILIA awk I AFFII ng Rea	ATE: 82 lear St TION Power C LIATION actors	orp. Branch	NOTAF Unit 1 2	RIZED: L, Nia	NO gara P	owe	DOCKET 050002	# 20
SUBJECT: DISTRIBU TITLE: 0	Forwards "SN Recirculatic Point Unit 1 NRC 830328 r NTION CODE: AC NR Submittal:	V-15 Noz on Pipir L" & add equest. 015 CC General	zle   ng Rep  ] rep  PIES Dis	Repair claceme cair re RECEIV tributi	Rept," int Anal analysi (ED:LTR , on	pnelin ysisii s info L ENC	ninary For Ni Drin r	SIZE:	tor e to	<u>+5</u> 3	12.
NOTES: L	miteo	(Dia	<del>5+</del> .	500"	83 Rep	orts#	<i>t</i>				
·	RECIPIENT ID CODE/NAME NRR ORB2 BC	CC LT 01	PIES TR EI 7	NCL 7	RECIP Id Cod	IENT E/NAME	:	'COPIE LTITR'E	S NCL		
INTERNAL:	ELD/HDS3 NRR/DL DIR NRR/DSI/METB HEG FILE	04	1 1 1	8 1	NRR/DE/ NRR/DL/ NRR/DSI RGN1	MTEB ORAB /RAB	ų	1 1 1 1		X.	
EXTERNAL:	ACRS NRC PDR NTIS	09 02	6 1 1	<b>3</b> 1 1	LPDR NSIC		03 05	1 1	1 - 1-		

Anted Direct

TOTAL NUMBER OF COPIES REQUIRED: LTTR 25 ENCL -23

۰.

	1	1 - 7		¥ अ थि । स	. 1	x 1	en King Indonésia	
7-55-79874984 7-55-79874984	о р ж	י 8 בי¶וּ וּ	i ∓ 40 € 1 ¶ € 10 / 10	1、「人気」として、 1、「人気」を見て、 1、「気気」を見て、 1、「気気気」。 1、「気気気」、 1、「気気気」、 1、「気気気」、 1、「気気気」、 1、「気気気」、 1、「気気気」、 1、「気気気」、 1、「気気気」、 1、「し」、 1、「気気」、 1、「気気」、 1、「気気」、 1、「気気」、 1、「気気」、 1、「気気」、 1、「気気」、 1、「気気」、 1、「気気」、 1、「気気」、 1、「気気」、 1、「気気」、 1、「気気」、 1、「気気」、 1、「気気」、 1、「気」、 1、「気」、 1、「気気」、 1、「気」、 1、「気」、 1、「気」、 1、「気気」、 1、「気気」、 1、「気気」、 1、「気気」、 1、「気」、 1、「気」、 1、「気」、 1、「気」、 1、「気」、 1、「気」、 1、「気」、 1、「気」、 1、「」、 1、「気」、 1、「」 1、「」、 1、「」、 1、「」、 1、「」、 1、	алы: Сталы: Сталы Карбер Пкарар	.)	「「「「「」」」 「「」」」 「」」 「」」 「」」 「」」 「」	1997 - 1997 R 日本1930 日子であった。1月1日日 - Au - ALA - Au - Au
- 3° C 83	ictor Tre ter to	na ≊od La Odt Na A	ntennun 19 für 19forter	日 4 <sup>19</sup> 3個ウト 日 2月1日 118日 118日 118日 118日 118日 118日 118日 11	(r£n⊨ <sub>d</sub> e)† '- (38, £-, 5 - 71(s - 9	01856 1919 7 1966 1966	(8926 - 1.1) (8 - 8 - 9) 1 - 1. (350 K 201 X 20 2) 2 - 1. (350 K 201 X 20 2) - 1. (350 K 201 X 20 2) - 1. (350 K 201 X 201	, солан А. С.Х. К. С. Инарыния Унарыя Унарыя
	ா ா மைடல்,அ <sub>ல்ல</sub> ≢	1286	c⇒== H ¥¥ 1	œ━ 18_8 1.9 X €18 € \$	र हे हे हैं। इ.स. इ.स. इ.स. इ.स. इ.स. इ.स. इ.स. इ.स.	jî ⊬}a r ≻ fra:	auna theat Turk the	8 I.B. 5 9 (T.C. 13) Martin - 8 4 1 8 1 1 8 1
					. 0	۲ م	- 10 - 11 - 11 - 11 -	. · · · · · · · · · · · · · · · · · · ·
	₹ ° €¥	~ NJ ≖ TĬ I	<b>.</b> ∦ ^∆,	₹ <b>2</b> ™( <b>8</b> ,3),46 N (48,88),87 ( <b>1</b> ), N (48,88),87 ( <b>1</b> ),	63 16 (E 18	6.8°1°£k 8.67¶∓ 1	t I × <sup>10</sup> 4 × → × × → → 1000 € 1 € 11	р <sub>а</sub> н ман 1 р 1 талар
	<b>à</b> )	R R	8 <sub>1 1</sub> 17 1	T = 1 N = 3 6] N 94530 Secon N = 1 N = 200	2. 第13	*	5 K.1	AN FERRICAL FRAT
	5	L I	+ 4	° % n − 10 % 14 mil & r¥5 m	43 ₩ ₹	å x	8 <b>8 k 8</b> 00 ⊮ <sup>1</sup> 1	n haya N n
	I L	ŗ I	₽ ay ₽ <sup>3</sup> x	)a n.) ,))∬ , (?	<b>*</b> 1	ر بر بر	ક્તુ ત્ય 'ગુ હૈર્ક	ей мал <b>х</b> ан и жаа мал <b>х</b> ан жаа маа т



5

ARAM HAR GAR WATER A 8 × 118 1.1 5



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

DOCKETED USNRC

'83 APR 22 P2:50

April 22, 1985Fice of SelReian BRANCH

Director Nuclear Reactor Regulation Attention: Mr. Domenic B. Vassallo, Chief Operating Reactors Branch No. 2 U.S. Nuclear Regulatory Commission Washington, D.C. 20555

## Re: Nine Mile Point Unit 1 Docket No. 50-220 \_\_\_\_\_\_DPR-63

Gentlemen:

Your letter of March 28, 1983 requested information on our recirculation piping stress reanalysis and repair activities associated with No. 15 nozzle. The attachment to this letter provides the information requested.

In addition, your letter requested the results of evaluations and examinations conducted on the material and components removed from service be provided for long-term staff review. These efforts are still in progress and will be provided when available.

1001 A Dist

Very truly yours,

T. E. Lempges

Vice President Nuclear Generation

TEL/RJP:bd

Attachment

8308030331

PDR ADOC

830422

PDR

# 84 - 12 SS - 18

i 2

# 

e ,

n and a line of the second s

pri, N. ⊫ i a

н. — П

.

#### Additional Information

## Nine Mile Point Unit 1

#### Reactor Recirculation System Piping and Safe-End Replacment Program

#### Requested Information

(1) An audit of your stress reanalysis of the replaced recirculation piping to determine if the design criteria and methodology are at least as conservative as the commitment presented in the FSAR. Your submittal should include a summary of the results of the analyses for the limiting cases for piping and piping supports, the design and acceptance criteria, and the analysis methodology. Also, clarify how the branch connections were evaluated if they were decoupled from the recirculation system piping analyses and how interactions between the branch lines and recirculation piping were treated to obtain the loads.

#### Response

The attached Teledyne Engineering Services Technical Report TR-5828-1 dated April 22, 1983 summarizes the stress reanalysis of our replaced reactor recirculation piping.

The reanalysis modeled two Reactor Recirculation Loops which bound the conditions of the remaining three loops. Loop 15 was modeled because it has two branch connections including the largest diameter branch piping attached to it. Loop 12 was modeled because it has no significant attached branch piping. The five loops are similar in other respects and, therefore, are bounded by this analysis.

The analysis was performed in accordance with the criteria and methodology of the 1977 ASME Boiler and Pressure Vessel Code, Section III, Subsection NC, including addenda through Winter 1979 as stated in our October 5, 1982 submittal. The acceptance criteria for allowable stresses also used the values associated with the 1977 code with the addenda through Winter 1979. Branch lines were not decoupled and were modeled as part of the recirculation loop and analyzed up to their first respective anchor points. The above analysis is at least as conservative as the commitment presented in the FSAR.

Any pipe support loads that changed significantly from the original analysis were evaluated to verify acceptable load ratings of the component supports and acceptable stress levels in structural members. The results of these evaluations showed new and existing supports to be adequate. In cases where support loads were essentially the same, no additional analysis was performed. Snubber support steel was designed in accordance with the maximum rated snubber load. Since no snubbers were changed and loads were below the manufacturers rated load, the previous analysis for structural members is still valid.

•

•

· · · ·

κ.

.

# Requested Information

(2) A review of the summary of your repair activities for the repair of the No. 15 nozzle safe end.

#### Response

\*\*\*\*

The attached Newport News Industrial Corporation - NMPC Nine Mile Point Unit 1, SN-15 Nozzle Repair Report dated April 18, 1983 summarizes the repair of the No. 15 nozzle safe end. In addition, Revision A Supplement No. 3 of the Stress Report is provided for your review.

In summary, these documents conclude that the repair and subsequent post weld heat treatment were satisfactorily completed. The induced stresses remained below the material yield.

