NORTHEAST UTILITIES
THE CONNECTION DON'T AND POWER COMPANY
WESTERN MASSACHISTES ELECTRIC COMMANY
HIS VALUE PLANES COMPANY.

General Offices . Selden Street, Berlin, Connecticut

P.O. BOX 270 HARTFORD, CONNECTICUT 06141-0270 (203) 665-5000

March 25, 1993

Docket No. 50-423 B14422

Re: ASME Section XI GL 90-05 10CFR50.55a(g)(6)(i)

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

Gentlemen:

. . 1 .

Millstone Nuclear Power Station, Unit No. 3
Relief Request from ASME Code Section XI Requirements

The purpose of this letter is to request, in response to NRC Generic Letter (GL) 90-05, relief from ASME Boiler and Pressure Vessel Code Section XI requirements pursuant to 10CFR50.55a(g)(6)(i). Attachment 1 provides a description of actions taken by Northeast Nuclear Energy Company (NNECO) to make interim repairs to the leak in service water piping line 3SWP-003-067-3 as an alternative to an IWA-7000 repair/replacement.

Consistent with the provisions of the GL, NNECO is submitting this relief request for an interim noncode repair. The Resident Inspector at Millstone Unit No. 3 has been informed of this planned interim repair and, as has been our practice, we will keep the Resident Inspector fully informed of all future repairs. Permanent code repair for this flaw is scheduled for the next refueling outage, expected to begin in August 1993.

Please contact us if you have any questions.

Very truly yours,

NORTHEAST NUCLEAR ENERGY COMPANY

J. F. Opeka

Executive Vice President

cc: T. T. Martin, Region I Administrator

V. L. Rooney, NRC Project Manager, Millstone Unit No. 3

P. D. Swetland, Senior Resident Inspector, Millstone Unit Nos. 1, 2, and 3

9304010304 930325 PDR #JOCK 05000423 PDR A047 '

Attachment 1

Millstone Nuclear Power Station, Unit No. 3
Relief Request from ASME Code Section XI Requirements

TRACKING FORM

FOR RELIEF REQUEST FROM ASME SECTION XI REQUIREMENTS MUST BE COMPLETED AND FILED WITH NRC WITHIN 30 CALENDAR DAYS

MIL	LSTONE UNIT	3	NCR # 393-0	18 DA	ATE: 2	/23/93
	TIME:	Eng.	notified of lead	k at 0700 2/	23/93	
ORIG	INATOR					
Proc	essing Time:	shoul	d not exceed 24	hours.		
1.1	COMPLETE S	ECTION	1 OF ENCLOSED PO	ORM		
	Complete					
1.2	NOTIFY RES	IDENT N	TRC INSPECTOR			
	Person Con	tacted:	Russ Arrighi		Date	: 2/23/93
1.3	FORWARD TH STRESS ANA	IS FORM LYSIS E	, NCR, AND NDE P	MEASUREMENTS	TO NUSCO	SUPERVISOR
	Originator	: G:	ary Swider		Date	2/23/93
	*Section 1	of RR I	Form, NCR & UT F	forwarded to	S. V. Du	nas
			########			
STRES	S ANALYSIS t	JNIT		Date 1	Received	2/23/93
Proce	essing Time:	72 hou	urs from flav de bility assessmen	tection for	prelimina	iry
		25 cal	lendar days from bility assessmen	flaw detect	tion for 1	inal
2.1	PRELIMINARY	FLAV E	ROITAULAVA			

TRACKING FORM

FOR RE' JEF REQUEST FROM ASME SECTION XI REQUIREMENTS

	Notify Plant		
	Person Contacted: Gary Swider	Date:	2/25/93
2.2	END OF CYCLE PLAY EVALUATION		
	Evaluation Completed By: Ray DeCont	o Date:	3/19/93
2.3	REVIEW RESULTS OF AUGMENTED INSPECTIO	<u>DN</u>	
	Reviewed By: Ray DeConto	Date:	3/15/93
2.4	If additional inspections are require No additional inspections are require PORVARD COMPLETED FORM TO NUCLEAR LIC Supervisor, Stress Analysis Unit: Thomas Jawren 7. J. Mayson #########	d. ENSING	3/19/9.
NUCLE	AR LICENSING	Date Received:	
Proce	ssing Time: should not exceed 30 caler detection.	ndar days from fl	av
3.1	RELIEF REQUEST SUBMITTED		
	By: P. G. Patton	Date:	3/19/93
	Docket No.		

3.0

FORM FOR RELIEF REQUEST FROM ASME SECTION XI REQUIREMENTS

UNIT:	Millstone Unit 3	NCR	# 393-018	DATE:	3/17/93
	TIME:		1500		

1.0 ORIGINATOR

1.1 DESCRIPTION OF FLAV

Leak in 3SWP-003-67-3 downstream of FW-33.

Piping/Component Drawing No.: CI-SWP-067

P&ID No.: EM 133B

1.2 IMPRACTICALITY OF CODE REPAIR

Repair cannot be completed in 72 hour LCO.

1.3 DESCRIPTION OF PROPOSED TEMPORARY REPAIR

Installation of soft rubber patch.

1.4 SAFETY SIGNIFICANCE: System Interaction Evaluation

Flooding: Pinhole leak at this time. Floor drains adequate for drainage.

Jet Spray: Leak sprays down at wall, no safety-related power supplies will be affected.

Loss of Flow: Temporary patch will prevent loss of flow.

Other Interactions: None

Pailure Consequences? Can be isolated.

Impact to Safe Shutdown Capability? Total failure would result in loss of one train (SIH, RHS, RSS, redundant train would supply safe shutdown capability).

1.5 ROOT CAUSE INVESTIGATION

Root Cause Description: Classic wall loss due to turbulent flow downstream of elbow causing locally high flow velocities.

Other Systems Affected: SIH, CCI, HVQ

PORM FOR RELIEF REQUEST FROM ASME SECTION XI REQUIREMENTS

1.6 AUGMENTED INSPECTION (must be completed within 15 days of flaw detection)

Assessment of overall degradation of the affected system: Leak is typical of erosion/corrosion in SVP piping. These leaks do not result from large areas of damage but from very localized wall loss. An inspection program has been initiated for small bore piping.

Additional examinations required (based on root cause) - specify number of inspection locations - also specify frequency of inspections: [ten most susceptible and accessible locations for high energy piping system and five for moderate energy piping system]

Five additional locations very chosen, as listed below:

- a) FW 17-1 "B" Train Supply
- d) FW-29 "A" Train Supply
- b) FW 65 "A" Train Supply
- e) FW-39 "B" Train Supply
- c) FW 31 "A" Train Supply

Description of areas selected for augmented inspection: Small bore piping.

2.0 STRESS ANALYSIS UNIT

2.1 DESIGN DETAILS

System: Service Water

Component: Pipe (CI-SVP-67 near FV-33)

Piping Size & Schedule: 3"0/.219"

Nominal Wall Thickness: .219"

Safety Code Class: Class 3

Material: SB466 No. 706

Design Pressure: 100 psig

Design/Operating Temperature: 95/33-75

Code Minimum Wall Thickness: .020

2.2 FLAW CHARACTERIZATION

Flav Description/Size: (i.e., flav size, adjacent wall thickness, single/multiple flav, total area examined, etc.) The flav is highly localized. The through wall portion of the flav is 3/32" in diameter the adjacent wall/nomincal wall is .219".

PORM FOR RELIEF REQUEST FROM ASME SECTION XI REQUIREMENTS

Flaw Location: The flaw is located approximately 1" downstream of FW 33 at 6:00 facing southeast.

Examination Method: UT

Flaw Type: Pinhole due to erosion/corrosion (impingement attack).

Reference UT Measurement Report: Attached to NCR 393-018

2.3 PRELIMINARY FLAV EVALUATION SUMMARY

Preliminary Operability Assessment Details:

Method Used: Draft Code Case N513 (dated 8/13/92)

Limiting Plaw Size: Total flav 3.5". Throughwall portion of flav 1.75". Minimum wall outside throughwall portion of flav must be at least 0.100 inches.

Period of Time to Reach Limiting Play Size: Expected to be greater than 1 year.

Evaluation Reference: Memo MCE-SA-93-064

2.4 END OF CYCLE FLAV EVALUATION SUMMARY

Final Operability Assessment Details:

Method Used: (i.e., LEFM, area reinforcement, wall thinning, ASME Code Case)

Draft Code Case N513 (dated 8/13/92)

Estimated Wall Erosion Rate: .0274 in/yr

Projected Flaw Size: Total flaw .94 in.; throughwall flaw .350"

Period of Time to Permanent Repair/Replacement: Permanent repair for this flaw is scheduled for the next refueling outage (7/31/93)

Provide a Discussion of Evaluation of Design Loading Conditions:

Loading conditions evaluated include: pressure, deadload, thermal and seismic. All Code stress equations were considered and were determined to be acceptable.

Evaluation Reference: Memos MCE-SA-93-064 & MCE-SA-93-078 and attached.

FORM FOR RELIEF REQUEST FROM ASME SECTION XI REQUIREMENTS

Discussion of Augmented Inspection Results:

Five additional inspections of susceptable components were performed. These five inspections resulted in the generation of three additional NCRs due to wall thinning. The NCRs (NCR 393-028, 030 and 031) were determined to be acceptable in Memo MCE-SA-93-078.

Expanded Augmented Inspection Requirements: None

2.5 FLAW MONITORING

Walkdown Frequency: (for leak monitoring)

At least once per shift.

Frequency of Follow-up NDE: (for erosion rate assessment)

At least once every three months.

2.6 ADDITIONAL COMMENTS (scope, limitations, and specific considerations)

None

2.7 EXCEPTIONS TO GL-90-05/DRAFT ASME CODE CASE

The evaluations were performed in accordance with GL 90-05 and the Draft ASME Code Case N513 (dated 8/13/92).

2.8 REFERENCES/INPUTS

NCRs 393 -018, 028, 030 & 031 Memos MF3-E-93-119 & 143 Memos MCE-SA-93-064, 078 and attached evaluations

cc: Originator; Supervisor, Stress Analysis Engineering Unit; Unit Director; Nuclear Records

PART 1

Objective: The objective of this evaluation is to qualify a pin hole leak in service water line 3SWP.

003-067-3 as described in NCR 393-018 for structural integrity. This evaluation qualifies the piping through the end of the next scheduled refueling outage.

Parameters: The following parameters will be applied in this evaluation (Reference 1):

Pipe Size Nominal	Outside Dia. (in)	Schedule	Wall thick (in)	Design Pressure (psi)	Temp (F)	Material	Allowable Sh (psi)
3	3.500	nonstd	0.219	100	95	SB466 706	The second secon

1.0 SCOPE

This evaluation is applicable to:

- a) Class 3 Section III Subsection ND piping
- b) Operating conditions <200F, < 275 psig
- c) Pipe, tube, fittings and flanges NO WELDING
- d) Structural integrity only. This does not demonstrate system operablity.
- e) t-adj is used throughout this calculation. t-adj is always the predicted t-adj.

3.0 FLAW EVALUATION

This evaluation is applicable to non-planar (through wall holes) and is performed in accordance with Generic Letter 90-05 and DRAFT Code Case N513 (8/13/92) (Reference 3).

3.1 tmin and t-adj Determination

$$tm = P * Do / (2 * (SE + Py) + A$$

P= presssure, psig

Do= outside diameter, in

S= stress allowable, psi

E = joint efficiency =

y= a coefficient = 0.4

A= additional thickness (corrosion allowance, threading, etc...)

1.00

= 0 for copper nickle pipe

Outside Dia. (in)	tm (in)		Instrument + Calibrate Tolerance (in)	Years of Service (yrs)	Wear Rate (in/yr)	Remaining Life Required (vrs)	tadj (1)
3.500	0.0200	0.141	0.003	7.67	0.0286	0.608	0.1206

Note 1) The t-adj value is the predicted remaining wall at the end of the next scheduled refueling outage (07/31/93 to 10/09/93).

Note 2) This portion of the service water system has been operational since July 1985.

Note 3) The measured data is per Reference 5.

3.2 Branch reinforcement Evaluation Method (Reference 2)

a) tadj must be greater than 2*tm

Pipe Size			
Nominal	tadj	2*tm	
3	0.1206	0.0400	acceptable

b) The postulated circular diameter, d, shall not exceed the pipe nominal outside diameter.

Pipe Size Nominal	d Outside Dia. (in)		Predicted Total Flaw Circ Length (in)	
3	3.500	3.500	0.94	OK

The following branch connection reinforcement calculation is performed in accordance with ND 3643.3 (Reference 2).

Required reinforcement area = 1.07*tmh*d1

A1 = area provided by excess wall in the pipe = d2*(Th - tmh)

The mill tolerance on Th is ignored since UT is available.

Note: d2 has been set equal to the maximum allowable hole size.

Pipe Size Nominal	tmh (in)	d1 (in)	d2 (in)		Required Reinforce Area, in ^2	Pipe Area	
3	0.0200	3.50	3.50	0.1206	0.075	0.352	OK

c) Determination of unreinforced branch connection stresses per ND 3650

Pipe Size Nominal	tadj	Rmadj	h	tadj SIF	SIF Per Figure NC3672.9	tnom SLP (psi)	tadj SLP (psi)
3	0.121	1.69	0.071	5.230	2.1	400	725

Pipe Size Nominal	tadj	Rmadj	tnom Section Modulus (in ^ 3)	t-adj Section Modulus (in ^ 3)
3	0.121	1.69	1.744	1.046

The following table presents both the thom & t-adj corrected Code stress equations:

Equation	Point Number	tnom Stress (psi)	t-adj Stress (psi)	Allowable Stress (psi)	t-adj Factor of Safety	
8 Sustained	87	640	4700			
9	0/	642	1732	8700	5.02	OK
Occasional	87	1747	6318	10440	1.65	OK
Thermal	85	2882	11963	13050	1.09	ОК
Sus + Th	85	3434	13694	21750	1.59	ОК

d) An additional limitation is placed on the through wall portion of the maximum hole size. The through wall portion of the crack may not exceed d/2 or 5 inches.

tm	0.020 in
Additional Predicted Wall Thinning	0.017 in
Minimum Wall Required To Prevent	
Expansion of the Through Wall Flaw	0.037 in

Measured Thorugh Wall Portion of Flaw	3/32 it	
Maximum Allowed Through Wall Portion of Flaw		
(lesser of d/2 or 5 inches)	1.750 it	
Predicted Thorugh Wall Portion of Flaw (1)	0.350 ir	0

Note: 1) This value includes a .25 inch tolerance for the tranducer size.

References: 1) Stress Calculation 12179-NP(B)-X1914, Revision 2

- 2) ASME Section III 1971 Edition through the 1973 Summer Addenda
- 3) ASME Draft Code Case N513 (8/13/92) and GL 90-05
- 4) NCR 393-018
- 5) Attached UT data

Computer Storage: c:\123r3\90-05.rev\n393-18.wk3

PART 2

Objective: The objective of this evaluation is to determine the minimum wall which will still meet all Code equations. This is an iteritive process where the final tadj selected results in just meeting the limiting Code equation. An estimate of remaining life is also determined here.

Parameters: The following parameters will be applied in this evaluation (Reference 1):

Pipe Size Nominal	Outside Dia. (in)	Schedule	Wall thick	Design Pressure (psi)	Temp (F)	Material	Allowable Sh (psi)
3	3.500	nonstd	0.219	100	95	SB466 706	the same of the sa

1.0 SCOPE

This evaluation is applicable to:

- a) Class 3 Section III Subsection ND piping
- b) Operating conditions <200F, < 275 psig
- c) Pipe, tube, fittings and flanges NO WELDING
- d) Structural integrity only. This does not demonstrate system operablity.
- e) t-adj is used throughout this calculation. t-adj is always the predicted t-adj.

3.0 FLAW EVALUATION

This evaluation is applicable to non-planar (through wall holes) and is performed in accordance with Generic Letter 90-05 and DRAFT Code Case N513 (8/13/92) (Reference 3).

3.1 tmin and t-adj Determination

a) Determine tm per construction code (Reference 2).

$$tm = P * Do / (2 * (SE + Py) + A$$

P= presssure, psig

Do= outside diameter, in

S= stress allowable, psi

E = joint efficiency = 1.00 y = a coefficient = 0.4

A= additional thickness (corrosion allowance, threading, etc...)

= 0 for copper nickle pipe

Outside Dia. (in)	tm (in)	tmeas minimum (in)	Instrument + Calibrate Tolerance (in)	Years of Service (yrs)	Wear Rate (in/yr)	Remaining Life Required (yrs)	tadj (1)
3.500	0.0200	0.141	0.003	7.67	0.0286	0.608	0.0906
				ument + Cali			0.003
			Est	imated minin	num wali re	quired (in)	0.0936
						USE	0.1

Remaining Life (yrs)	1.33
ÜSÉ	1.00

Note 1) The t-adj value is selected.

Note 2) This portion of the service water system has been operational since July 1985.

Note 3) The measured data is per Reference 5.

3.2 Branch reinforcement Evaluation Method (Reference 2)

a) tadj must be greater than 2*tm

Pipe Size	and:	D#1-	
Nominal	tadj	2*tm	
3	0.0906	0.0400	acceptable

b) The postulated circular diameter, d, shall not exceed the pipe nominal outside diameter.

Pipe Size Nominal	d Outside Dia. (in)		Predicted Total Flaw Circ Length (in)	
3	3.500	3.500	0.94	OK

The following branch connection reinforcement calculation is performed in accordance with ND 3643.3 (Reference 2).

Required reinforcement area = 1.07*trnh*d1

A1 = area provided by excess wall in the pipe = d2*(Th - tmh)

The mill tolerance on Th is ignored since UT is available.

Note: d2 has been set equal to the maximum allowable hole size.

Pipe Size Nominal	tmh (in)	d1 (in)	d2 (in)		Required Reinforce Area, in ^2	Pipe Area	
3	0.0200	3.50	3.50	0.0906	A STATE OF THE PARTY OF THE PAR		OK

c) Determination of unreinforced branch connection stresses per ND 3650

Pipe Size Nominal	tadj	Rmadj	h	t-adj SIF	SIF Per Figure NC3672.9	tnom SLP (psi)	tadj SLP (psi)
3	0.091	1.70	0.053	6.367	2.1	400	966

Pipe Size Nominal	tadj	Rmadj	tnom Section Modulus (in ^ 3)	t-adj Section Modulus (in ^3)
. 3	0.091	1.70	1.744	0.806

The following table presents both the thorn & t-adj corrected Code stress equations:

Equation	Point Number	tnom Stress (psi)	t-adj Stress (psi)	Allowable Stress (psi)	t-adj Factor of Safety	
8 Sustained	87	642	2555	9700		OV
Sustaineu 9	07	042	2000	8700	3.40	OK
Occasional	87	1747	9799	10440	1.07	ОК
Thermal	85	2882	18894	13050	0.69	NO GOOD
Sus + Th	85	3434	21449	21750	1.01	ОК

Failure of Eq 10 is acceptable if Eq 11 is met

d) An additional limitation is placed on the through wall portion of the maximum hole size. The through wall portion of the crack may not exceed d/2 or 5 inches.

tm	0.020 in
Additional Predicted Wall Thinning	0.038 in
Minimum Wall Required To Prevent	
Expansion of the Through Wall Flaw	0.058 in

Measured Thorugh Wall Portion of Flaw	3/32	in	
Maximum Allowed Through Wall Portion of Flaw			
(lesser of d/2 or 5 inches)	1.750	in	
Predicted Thorugh Wall Portion of Flaw (1)	0.350	n	OK

Note: 1) This value includes a .25 inch tolerance for the tranducer size.

References: 1) Stress Calculation 12179-NP(B)-X1914, Revision 2

- 2) ASME Section III 1971 Edition through the 1973 Summer Addenda
- 3) ASME Draft Code Case N513 (8/13/92) and GL 90-05
- 4) NCR 393-018
- 5) Attached UT data

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Prepared By: R.E. De LA 3/19/93
Reviewed By: Prem C. Godlu 3/19/93

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Procedure NU-UT-30

Rev: 7 Page: 12 of 12

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8585431 P.82

Notes

FILE NAME: 6E.2 FW33 DOS FILE WAME: SW2FW33.DAT FILE TYPE: GRID DATE & TIME CREATED: 02/23/93 16:04 DATE & TIME LAST MODIFIED: 02/23/93 17:06 FILE DESCRIPTION: 1217.CF.SWP.67 ALLOW MANUAL READINGS: Y UPPER LEFT LOCATION: A1 LOWER RIGHT LOCATION: K7 OPERATOR ID: J.JACOBSON INSTRUMENT ID: 5230C PROBE ID: A2046 MATERIAL VELOCITY: INCHES OR MM: I

READINGS

FEB-24-1993 13:12 FROM 645578663 83 36446337464 70 8585431 P.82 FIGURE 3 35WP-603-67-3 COMPONENT ID FW 33 EXAMINER JOHN JULBATE 2-23-93 EYETEN Secrete Water PLANTANIT N. Ustme III COLUMN - CIRCUMFERENTIAL LOCATION CRID SIZE / 1 150 BOW - AXIAL 6 LOCATION 7

EXETCH OF COMPONENT SHOWING GRID LOCATIONS FOR THE EXTENT OF THE REDUCED THICKNESS AREAS

Procedure NU-UT-30

Rev: 7 Page: 11 of 12 FEB-23-1993 18:34 FROM 645578663 83 36446337464 TO 8585431 P.18

DATA SHEET

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	*	*	8	9	*	*	*	*	*	*	*	*	10	*	*		ě	*	*	*		*						
	*	*	*	*	*	*	*	×	*	*	*	*	*	*	*	*	*	*	*		*				*			
		*	*	*		*	*	×	*	16.	*	*	*	*	*	*	4	*	٠	×	*	*	*	*	*	*	*	
			*	*	*		*	*	*	*	*	*	*	*	*	*	*	*	*		*	*	*	*	*	*		
	*	*	*	*	*	*	*	ie.	٠.	*	*	× ,	*	*	٠	*	*	*	٠.,		*		× ,			*	*	į

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