



Millstone Nuclear Power Station Northeast Nuclear Energy Company P.O. Box 128 Waterford, CT 06385-0128 (860) 447-1791 Fax (860) 444-4277

The Northeast Utilities System

FEB 1 4 1999

Docket No. 50-423 B17871

RE: 10 CFR 50.55a(a)(3)(i)

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

Millstone Nuclear Power Station, Unit No.3

Request to Use an Alternative to ASME Code Section XI

Pursuant to the provisions of 10 CFR 50.55a(a)(3)(i), Northeast Nuclear Energy Company (NNECO) hereby requests permission to use an alternative to the ASME Boiler and Pressure Vessel Code, Section XI, 1989 Edition. Specifically, NNECO requests to utilize Code Case N-532 "Alternative Requirements to Repair and Replacement Documentation Requirements and Inservice Summary Preparation and Submission as required by IWA-4000, IWA-6000, Section XI, Division 1," for the Millstone Unit No. 3 Second 10-Year Interval Inservice Inspection (ISI) Program Plan as detailed in Relief Request IR-2-10 (Attachment 1). This request incorporates two clarifications: the first regarding the reporting of corrective measures that are not related to Repair and Replacement (R&R) activities; and the second, a clarification related to the requirements to use the provisions of IWA-4140 of the 1992 Edition of Section XI.

Code Case N-532 (Attachment 2) provides an alternative to the 1989 Edition of ASME Section XI, R&R documentation requirements as well as regulatory reporting requirements relating to ISI. This alternative will reduce the resources required to prepare NIS-2 Forms and prepare and submit the ISI Summary Report including the NIS-1 Form currently required after each refueling outage. This is a significant reduction in administrative burden required by IWA-6000. The use of this Code Case only affects documentation and reporting requirements and does not affect the level of quality or safety provided by the R&R and ISI programs, and therefore, NNECO considers this request to meet the provisions of 10 CFR 50.55a(a)(3)(i) as providing an acceptable level of quality and safety.

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Code Case N-532 was approved by the ASME Boiler and Pressure Vessel Code Committee on December 12, 1994, but is not included in the most recent listing of NRC approved Code Cases in Revision 12 of USNRC Regulatory Guide 1.147, "Inservice Inspection Code Case Acceptability - ASME Section XI Division 1," dated May 1999. However, use of this Code Case has been recommended in the NRC Staff approved version of the Westinghouse Owners Group WCAP-14572, Revision 1-NP-A, "Westinghouse Owners Group Application of Risk-Informed Methods to Piping Inservice Inspection Topical Report" dated February 1999.

During the Second 10-Year Interval, NNECO plans to use Code Case N-532 with the clarifications requested, subject to NRC approval, until such time this Code Case is incorporated into a future revision of Regulatory Guide 1.147. Upon issuance of a future revision of Regulatory Guide 1.147, NNECO will follow all provisions in Code Case N-532 with the clarifications requested, including exceptions or limitations imposed within the future revision of the Regulatory Guide.

Implementation of this Code Case will be on a phased in approach. Upon NRC approval, NNECO will use existing NIS-2 Forms documenting Repairs and Replacements performed since the last refueling outage until internal procedure changes are in place to use the new NIS-2A Forms within our R&R Plans. All NIS-2 Forms generated since the last refueling outage and new R&R Plans with new NIS-2A Forms will be listed by the unique identification number required under paragraph 1(b) of the Code Case. This unique identification number is the Automated Work Order (AWO) number. This AWO number will be listed in Table 3 of OAR-1 for the applicable R&R Plans as the unique R&R Plan Number. Full documentation compliance with the Code Case for Millstone Unit No. 3 would begin prior to the start of 3R07.

Approval of this request is needed by October 2000.

There are no regulatory commitments contained within this letter.

Should you have any questions regarding this matter, please contact Mr. D. W. Dodson at (860) 447-1791, extension 2346.

Very truly yours,

NORTHEAST NUCLEAR ENERGY COMPANY

Stephen E. Scace

Director - Nuclear Oversight and

Regulatory Affairs

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Attachments (2): Relief Request IR-2-10
ASME Code Case N-532

cc: H. J. Miller, Region I Administrator

V. Nerses, NRC Sr. Project Manager, Millstone Unit No. 3 A. C. Cerne, Senior Resident Inspector, Millstone Unit No. 3

Attachment 1

Millstone Nuclear Power Station, Unit No. 3

Relief From In-Service Inspection Requirements
Request To Use Code Case N-532 As An Alternative To ASME Section XI
Relief Request IR-2-10

Attachment 1

Request To Use Code Case N-532 As An Alternative To ASME Section XI

Relief Request:

IR-2-10

Code Class:

1, 2, and 3

Code Category:

All

Item No.:

All

Code Requirement:

Section XI of the ASME B&PV Code, 1989 Edition, requires that an Inservice Inspection Summary Report containing documentation of Inservice Inspection (ISI) and Repair and Replacement (R&R) activities be submitted to the NRC within 90 days of the completion of the ISI conducted during each refueling outage. Requirements for actual documentation submitted is contained in IWA-4000, IWA-6000, and IWA-7000.

Code Relief Requested:

Pursuant to the provisions of 10 CFR 50.55a(a)(3)(i), relief is requested to utilize the alternative requirements of Code Case N-532 "Alternative Requirements to Repair and Replacement Documentation Requirements and Inservice Summary Report Preparation and Submission as Required by IWA-4000 and IWA-6000, Section XI, Division 1," for the Millstone Unit No. 3 Second 10-Year Interval Inservice Inspection (ISI) Program Plan with two clarifications: the first regarding the reporting of corrective measures that are not related to Repair and Replacement activities; and a second clarification related to the requirements to use the provisions of IWA-4140 of the 1992 Edition of Section XI.

The first clarification needed to use Code Case N-532 regards compliance with the Code Case in the matter of reporting of "corrective measures." ASME Section XI uses the term, "corrective measures," in two different ways. One use of the term involves Code required activities such as repair or replacement. The other use of the term, as used in IWX-3000, involves maintenance activities that do not involve repair or replacement activities. With this understanding NNECO proposes not to report "corrective measures" which are performed during routine

maintenance activities such as tightening threaded fittings to eliminate leakage. torquing of fasteners to eliminate leakage at bolted connections, replacing valve packing due to unacceptable packing leakage, tightening loosened mechanical connections on supports, adjustment and realignment of supports, or cleanup of corrosion on components resulting from leakage, etc. Including these routine maintenance activities in the OAR-1 Form required by the Code Case would be a significant expansion of current requirements. In addition, it would be an unnecessary reporting burden and would provide little benefit for the experience gained. Reporting of these minor maintenance corrective measures has no safety significance and clutters the reporting of the meaningful information from repairs, replacements, or evaluations performed to accept flaws or relevant conditions exceeding the Section XI acceptance criteria. Corrective measures that refer to Code required activities, such as repairs or replacements, will be reported in compliance with Code Case N-532. Therefore, use of Code Case N-532 is requested with the above clarification regarding the provisions of paragraph 2 (c) for reporting corrective measures.

The second clarification centers on the requirement in the Code Case under paragraph 1 (b) that the Repair/Replacement Plan shall be prepared in accordance with IWA-4140 of the 1992 Edition of Section XI. The Millstone Unit No. 3 Repair and Replacement Program is documented in Millstone Station Procedure WC 3, "ASME Section XI Repair and Replacement Programs" and is currently written to the 1989 Edition of Section XI with an exception for Repairs/Replacements of containment structures under Subsection IWE. "Requirements for Class MC and Metallic Liners of Class CC Components of Light-Water Cooled Plants," and Subsection IWL, "Requirements for Class CC Concrete Components of Light-Water Plants" where the procedure requires the use of the 1992 Edition with the 1992 Addenda. The requirements in this procedure for a R & R Plan currently contain all the attributes described in IWA-4140 of the 1992 Edition, but NNECO has no plans to update this procedure fully to the 1992 Edition at this time. Therefore, the clarification requested is that use of this Code Case is acceptable provided NNECO continues to use R & R Plan requirements that meet IWA-4140 of the 1992 Edition of Section XI, but is not required to update the entire Repair and Replacement Program to the 1992 Edition.

Reason for Relief:

Code Case N-532 provides an alternative to the 1989 Edition of ASME Section XI, R&R documentation requirements as well as regulatory reporting requirements relating to the ISI Program. Implementation of this alternative will reduce the resources required to prepare NIS-2 Forms and to prepare and submit the ISI Summary Report (including the NIS-1 Form) currently required after each refueling outage. This is a significant reduction in administrative burden required by IWA-6000. Additionally, use of this Code Case has been recommended in the Westinghouse Owners Group WCAP-14572, Revision 1-

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NP-A, "Westinghouse Owners Group Application of Risk-Informed Methods to Piping Inservice Inspection Topical Report" dated February 1999, which was approved by the NRC. Millstone Unit No. 3 is actively pursuing the use of WCAP-14572, Revision 1-NP-A. The use of Code Case N-532 would only affect documentation and reporting requirements and would not affect the level of quality or safety provided by the R&R and ISI Programs. Therefore, NNECO considers this request to meet the provisions of 10 CFR 50.55a(a)(3)(i) as providing an acceptable level of quality and safety.

Proposed Alternative:

During the Second 10-Year Interval, NNECO plans to use Code Case N-532 with the clarifications requested, subject to NRC approval, until such time this Code Case is incorporated into a future revision of Regulatory Guide 1.147. Upon issuance of the Regulatory Guide, NNECO will follow all provisions in Code Case N-532 with the clarifications requested, and then with any exceptions or limitations as would be discussed in the Regulatory Guide.

Attachment 2 Millstone Nuclear Power Station, Unit No. 3 ASME Code Case N-532

Attachment 2

ASME Code Case N-532

CASE

N-532

CASES OF ASME BOILER AND PRESSURE VESSEL CODE

Approval Date: December 12, 1994

See Numeric Index for expiration and any reaffirmation dates.

Case N-532

Alternative Requirements to Repair and Replacement Documentation Requirements and Inservice Summary Report Preparation and Submission as Required by IWA-4000 and IWA-6000¹

Section XI, Division 1

Inquiry: What alternatives may be used to the requirements of IWA-4910(d) and IWA-6210(e) for completion of Form NIS-2 following repair or replacement, and IWA-6210(c) and (d), IWA-6220, IWA-6230(b), (c), and (d), and IWA-6240(b) for preparation and submittal of the inservice summary report and Form NIS-1?

Reply: It is the opinion of the Committee that as an alternative to the requirements of IWA-4910(d), IWA-6210(c), (d), and (e), IWA-6220, IWA-6230(b), (c), and (d), and IWA-6240(b), the following provisions may be used. This Case shall be utilized at least until the end of the inspection period in which it was invoked.

1.0 CERTIFICATION OF THE REPAIR OR REPLACEMENT

- (a) The Owner's Repair/Replacement Program shall identify use of this Case.
- (b) A Repair/Replacement Plan shall be prepared in accordance with IWA-4140¹, and shall be given a unique identification number.
- (c) Upon completion of all required activities associated with the Repair/Replacement Plan, the Owner shall prepare a REPAIR/REPLACEMENT CERTIFICATION RECORD, FORM NIS-2A.

- (d) Form NIS-2A shall be presented to the Inspector for certification.
- (e) The completed Form NIS-2A shall be maintained by the Owner.
- (f) The Owner shall maintain an index of Repair/Replacement Plans in accordance with IWA-6340. The index shall identify the identification number required by (b) above the inspection interval and period during which each repair or replacement was completed.

2.0 OWNER'S ACTIVITY REPORT PREPARATION AND SUBMITTAL

An OWNER'S ACTIVITY REPORT FORM OAR-1 shall be prepared and certified upon completion of each refueling outage. Each Form OAR-1 prepared during an inspection period shall be submitted following the end of the inspection period. Each Form OAR-1 shall contain the following:

- (a) Abstract of applicable examinations and tests with the information and format of Table 1.
- (b) A listing of item(s) with flaws or relevant conditions that required evaluation to determine acceptability for continued service, whether or not the flaw or relevant condition was discovered during a scheduled examination or test. The listing shall provide the information in the format of Table 2.
- (c) Abstract for repairs, replacements and corrective measures performed, which were required due to an item containing a flaw or relevant condition that exceeded IWB-3000, IWC-3000, IWD-3000, IWE-3000, IWF-3000, or IWL-3000 acceptance criteria; even though the discovery of the flaw or relevant condition that necessitated the repair, replacement or corrective measure, may not have resulted from an examination or test required by this Division. If acceptance criteria, for a particular item is not specified in this Division, the provisions of IWA-3100(b) shall be used to determine which repairs, replacements, and corrective measures are required to be included in the abstract. The abstract shall provide the information in the format of Table 3.

¹ All references to IWA-4000 and IWA-6000 used in this Case refer to the 1992 Edition.

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CASE (continued)

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CASES OF ASME BOILER AND PRESSURE VESSEL CODE

	OWNER'S CERTIFICATE OF CONF	FORMANCE
I certify that therepair or replacer	represent by Repair/Replacement	
والأراب والمطويل	conforms to the requirements of Section XI.	
Type Code Symbol Stamp		
Certificate of Authorization No	Exp	piration Date
Signed	Owner or Owner's Designee, Title	Date
No. 4. Million Co.		
I, the undersigned, holding a vi	CERTIFICATE OF INSERVICE INSI alid commission issued by the National Bo and employed by	pard of Boiler and Pressure Vessel Inspectors and the
er during the per	have inspected to to to activities described in the Repair/Replacemen	the items described in Repair/Replacement Plan num and state that to the best of my knowledge and the requirements of Section XI.
By signing this certificate neither the		. A controssed of implied, concerning the activities describe
By signing this certificate neither the the the Repair/Replacement Plan. Furth	nermore, neither the inspector nor his employed arising from or connected with this inspection.	er shall be liable in any manner for any personal injury o
by signing this certificate neither the n the Repair/Replacement Plan. Furth roperty damage or loss of any kind a	nermore, neither the inspector nor his employed arising from or connected with this inspection.	er shall be liable in any manner for any personal injury o

CASE (continued)

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CASES OF ASME BOILER AND PRESSURE VESSEL CODE

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FUNIVI UAN-I UVV	/NER'S ACTIVITY REPORT
Report Number	
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(Na	eme and Address of Owner)
lant (Na	ime and Address of Plant)
nit No Commercial service date	
urrent inspection interval	
	(1st, 2nd, 3rd, 4th, other)
urrent inspection period	(1st, 2nd, 3rd)
dition and Addenda of Section XI applicable t the inspectin plan	A
mion and videnda of section of abbicable t me inspectin han —	
ate and revision of inspection plan	
er	
fition and Addenda of Section XI applicable to repairs and replacem	nents, if different than the inspection plan
	() V
	X
CENTRATE	OF CONFORMANCE
I certify that the statements made in this Owner's a lighty Report	A control and the Athen associated and Anato and the significant a
	e correct, and that the examinations, tests, repairs, replacements, evaluations requirements of Section XI.
Certificate of Authorization No. (if applicable)	piration Date
Signed Owner or Owner's Designee, Title Date	6
CERTIFICATE	OF INSERVICE INSPECTION
COMINGALE	OF INSERVICE INSPECTION
I, the undersigned, holding a valid commission issued by the Natio	nal Board of Boiler and Pressure Vessel Inspectors and the State or Province
of and employed by	Of hyminoparts
he items described in this Owner's Activity Report, during the period	dtoto make that to the best of my
nowledge and belief, the Owner has perioritied all activities represented from this cartificate neither the inspector nor his employer management.	ented by this report in accordance with the requirements of Section XI. akes any warranty, expressed or implied, concerning the examinations, tests
ensire replacements, evaluations and corrective meaures describes	akes any warranty, expressed or implied, concerning the examinations, tests, d this report. Furthermore, neither the inspector nor his employer shall be
able in any manner for any personal injury or property damage or a	a loss of any kind arising from the connected with this inspection.
Inspector's Signature Commissions	National Board, State, Province, and Encorsements
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pate	
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This form (E00127) may be obtained from the Order De	ept., ASME, 22 Law Drive, Box 2300, Fairfield, NJ 07007-2300.

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CASE (continued)

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CASES OF ASME BOILER AND PRESSURE VESSEL CODE

TABLE 1 ABSTRACT OF EXAMINATIONS AND TESTS

Examination Category	Total Examinations Required for The Interval	Total Examinations Credited for This Period	Total Examinations Credited (%) For The Period	Total Examinations Credited (%) To Date for The Interval	Remarks
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TABLE 2 ITEMS WITH FLAWS OR RELEVANT CONDITIONS THAT REQUIRED EVALUATION FOR CONTINUED SERVICE

Examination Category	Item Number	Item Description	Flaw Characterization (IWA-3300)	Flaw or Relevant Condition Found During Scheduled Section XI Examination or Test (Yes or No)
	*		1.0	

TABLE 3 ABSTRACT OF REPAIRS, REPLACEMENTS, OR CORRECTIVE MEASURES REQUIRED FOR CONTINUED SERVICE

Code Class	Repair, Replacement, or Corrective Measure	Item Description	Description of Work	Flaw or Relevant Condition Found During Scheduled Section XI Examination or Test (Yes/No)	Date Completed	Repair/ Replacement Plan Number
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