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SUBJECT: Requests approval for incorporation of two code cases 2142 & 2143 into Section XI program.

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ROBERT C. MECREDY
Vice President
Nuclear Operations

December 5, 1994

U.S. Nuclear Regulatory Commission
Document Control Desk
Attn: Allen R. Johnson
Project Directorate I-3
Washington, D.C. 20555

Subject: Ginna Nuclear Power Plant Inservice Program
Quality Assurance Manual, Appendix B
ASME Section XI Required Examinations
Relief Request No. 27
R.E. Ginna Nuclear Power Plant
Docket No. 50-244

Dear Mr. Johnson:

The purpose of this letter is to request approval for the incorporation of two Code Cases, 2142 and 2143 into the Section XI Program. These cases will allow the use of Alloy 690 type weld material in the fabrication of the replacement steam generator for the R. E. Ginna Nuclear Power Plant. This relief request is made in accordance with the provisions of 10 CFR 50.55a(a)(3).

Also Code Case N-474-1, as approved by Regulatory Guide 1.85, rev. 29, July 1993, will be incorporated into the Section XI Program. This case will allow the use of Alloy 690 for use as a construction material for the replacement steam generators.

Due to the fabrication schedule for the new steam generators, Rochester Gas & Electric requests approval by April 14, 1995.

Very truly yours,

Robert C. Mecredy

GJW\315
Attachment

Cert # Z 074 512 270

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RELIEF REQUEST NO. 27

I. Relief is Requested:

For the incorporation of Code Cases 2142 and 2143 into the ASME Section XI Program. These Cases allow the use of Alloy 690 weld material.

II. ASME Requirements from Which Relief is Requested:

Relief is requested from the requirements specified in IWA-4200 of the 1986 Edition, no addenda.

IWA-4200 MATERIAL

Material shall conform to the requirements of either the original Design Specification or Section III.

III. BASIS

The use of Alloy 690 type weld filler material is required for the replacement steam generators. These materials have been approved by ASME through Code Cases 2142 and 2143 and are designated as UNS N06052 and UNS W86152, respectively, and classified them as F-No. 43 for weld procedure and performance qualification purposes in accordance with ASME Section XI.

UNS W86152 is the shielded metal arc welding electrode for Alloy 690 and UNS N06052 is the bare filler metal. Both materials have been shown in numerous EPRI studies to have improved corrosion resistance for Alloy 690 weldments as compared to the currently used Ni-Cr-Fe (N06082 and W86182) materials. The new weld materials are the preferred choice for welding applications involving Alloy 690 in a corrosive environment and they provide an acceptable level of quality and safety because of their superior corrosion resistant properties.

V. Proposed Alternate Method:

Incorporate ASME, Boiler & Pressure Vessel Code Case 2142, "F-Number Grouping for Ni-Cr-Fe, Classification UNS N06052 Filler Metal", and Case 2143, "F-Number Grouping for Ni-Cr-Fe, Classification UNS W86152 Welding Electrode."