

From: Mahesh Chawla
To: Dale Vincent
Date: 5/26/04 5:37PM
Subject: Request For Additional Information - RR#19 - MC2543/MC2544

This is in reference to your above request by letter dated March 30, 2004, for relief from the requirements of Section XI, IWB-2500 of the American Society of Mechanical Engineers (ASME) Boiler and Pressure Vessel Code. NMC proposed to use the alternative examination volume of ASME Code Case N-613-1.

The staff has reviewed the proposed alternatives and has determined that following additional information is required in order to complete the evaluation. Please let me know your availability to discuss this information with the NRC staff.

1. Under the Basis for Relief Request, NMC states that the required examination volume for the RPV nozzle-to-vessel welds extends far beyond the weld into the base metal, and is unnecessarily large. This proposed alternative would redefine the examination volume boundary to one-half ($\frac{1}{2}$) inch of base material on each side of the widest portion of the weld.

a. Please provide a supplemental sketch showing the specific configuration nozzle-to-vessel weld and revised examination volume (including dimensions).

b. Identify the type of ultrasonic technique (manual or automated), nominal pipe diameters, and weldment material (ferritic, austenitic, Inconel) that NMC is proposing to inspect.

c. It is not clear how NMC personnel will be able to locate the widest portion of the nozzle-to-vessel weld precisely. It is unclear how repaired areas extending beyond the ideal weld cross-sectional area are identified and how these areas will be examined. If personnel are to identify the widest sections of the nozzle-to-vessel welds, please specify what positive means of examination will be used to identify the weld extremities. Also, will the extremities be identified on both the inside and outside diameters of the nozzle to ensure complete coverage of the welds?

2. Under the Basis for Relief Request, NMC also states that crack initiation during plant service in the examination volume excluded from the proposed reduced examination volume is highly unlikely because of the low stresses encountered in the base material outside of the heat affected zone of the weld. Please provide your technical basis and analyses in order to support this statement.

CC: Veronica Rodriguez

Mail Envelope Properties

(40B50E24.22E : 15 : 21352)

Subject: Request For Additional Information - RR#19 - MC2543/MC2544
Creation Date: 5/26/04 5:37PM
From: Mahesh Chawla

Created By: MLC@nrc.gov

Recipients	Action	Date & Time
nmcco.com dale.vincent (Dale Vincent)	Transferred	05/26/04 05:38PM

nrc.gov kp1_po.KP_DO VMR1 CC (Veronica Rodriguez)	Delivered Opened	05/26/04 05:37PM 05/27/04 08:05AM
---	---------------------	--------------------------------------

Post Office	Delivered	Route
kp1_po.KP_DO	05/26/04 05:37PM	nmcco.com nrc.gov

Files	Size	Date & Time
MESSAGE	3114	05/26/04 05:37PM

Options

Auto Delete:	No
Expiration Date:	None
Notify Recipients:	Yes
Priority:	Standard
Reply Requested:	No
Return Notification:	None

Concealed Subject:	No
Security:	Standard

To Be Delivered:	Immediate
Status Tracking:	Delivered & Opened