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January 27, 1999

JMHLTR: #99-0009

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

Dresden Nuclear Power Station, Unit 3
Facility Operating License No. DPR-25
NRC Docket No. 50-249

Subject: Core Spray System Inspections and Modifications planned for Refuel
Outage D3R15.

The purpose of this letter is to provide Dresden Nuclear Power Station's reply to the NRC Dresden Project Manager's request for a clarification of Station intentions with respect to modifications and inspections of the Dresden Unit 3 core spray system during refuel outage D3R15.

Description of the Limit Stop Clamp Modification:

The Core Spray Limit Stop Clamp Modification is planned for installation during Dresden 3 Refuel Outage D3R15 now scheduled to end the first week of March 1999.

As shown in enclosure (1), the limit stop clamp is designed to limit the Core Spray leakage flow assuming that weld P9, which is a Core Spray pipe weld under the thermal sleeve, and P8A, the thermal sleeve attachment to the Core Spray pipe, are both broken. The limit stop clamp reduces the range of movement of the Core Spray pipe by reducing the clearance between the Core Spray line and the reactor vessel wall in the annulus and minimizes the opening of the cracks on the Core Spray pipe and thermal sleeve. While these weld cracks are assumed to be through wall, the clearances are reduced to the point that flow resistance limits the total bypass flow to less than the allowable core spray leakage per the fuel analysis.

Enclosure (2) shows the engineering details of the attachment of the Limit Stop Clamp to the Core Spray pipe.

Enclosure (3) shows the configuration of the Limit Stop Clamp (Bumper Mod) installed with welds P8A and P9 intact. Enclosure (4) is an engineering drawing with an expanded view of the limit stop clamp installed in the vessel.

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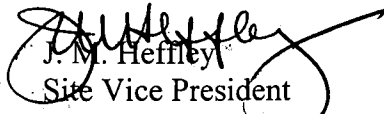
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Core Spray Weld Inspections

Visual (VT) inspections in accordance with BWR VIP-18 are planned for welds P8A and P4D during D3R15. P9 is not accessible and will not be inspected during this outage.

If there are any questions concerning this letter, please refer them to Mr. Frank Spangenberg, Dresden Station Regulatory Assurance Manager, at (815) 942-2920, extension 3800.

Respectfully,


J. M. Heffley
Site Vice President
Dresden Nuclear Power Station

Enclosure

- (1) Figure 2. P8A and P9 Fully Cracked
- (2) Drawing 177D4006 sheet 2
- (3) Figure 1. No Cracking of P8A and P9 Welds.
- (4) Drawing 177D4006 sheet 1

cc: Regional Administrator, NRC Region III
Senior Resident Inspector, Dresden Nuclear Power Station

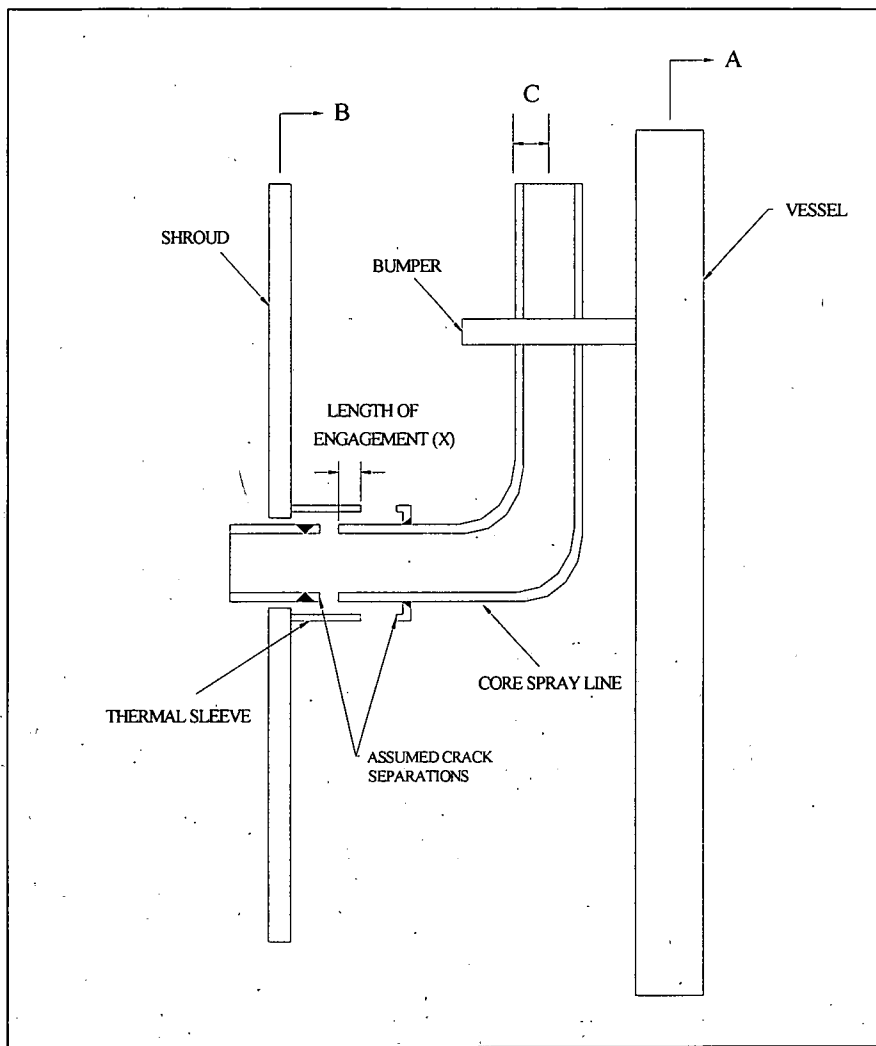
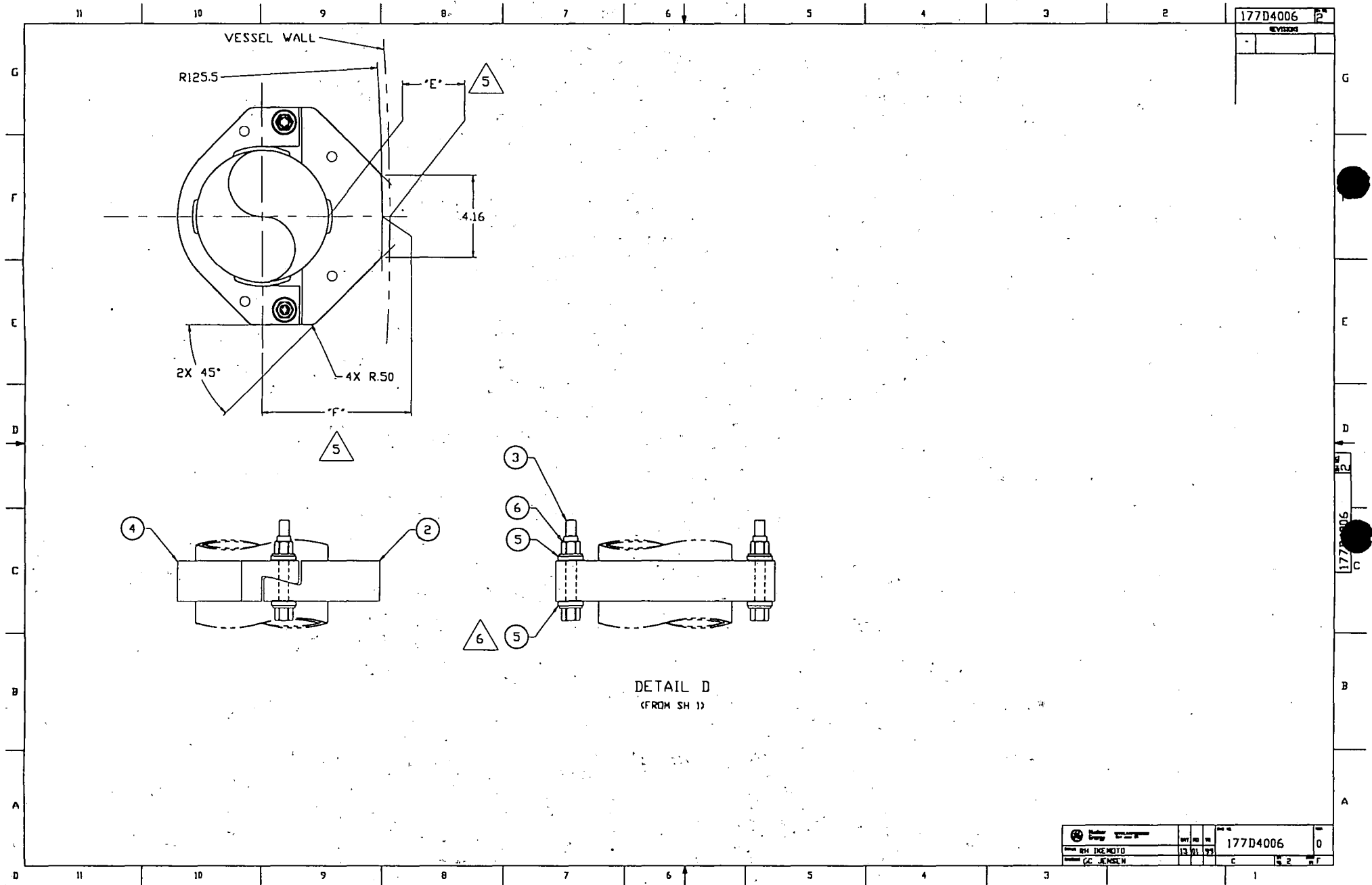


Figure 2. P8A and P9 Fully Cracked

Figure 2 shows the case in which the P8A and P9 welds are fully cracked. The core spray piping will remain engaged inside the thermal sleeve. As shown in Figure 2, X signifies the length of the engagement.

Enclosure (2)



177D4006		2
REVISION		

177D4006

DETAIL D
(FROM SH 1)

	REV	BY	DATE	177D4006	0
BY INVENTOR CC JENSEN				C	15 2

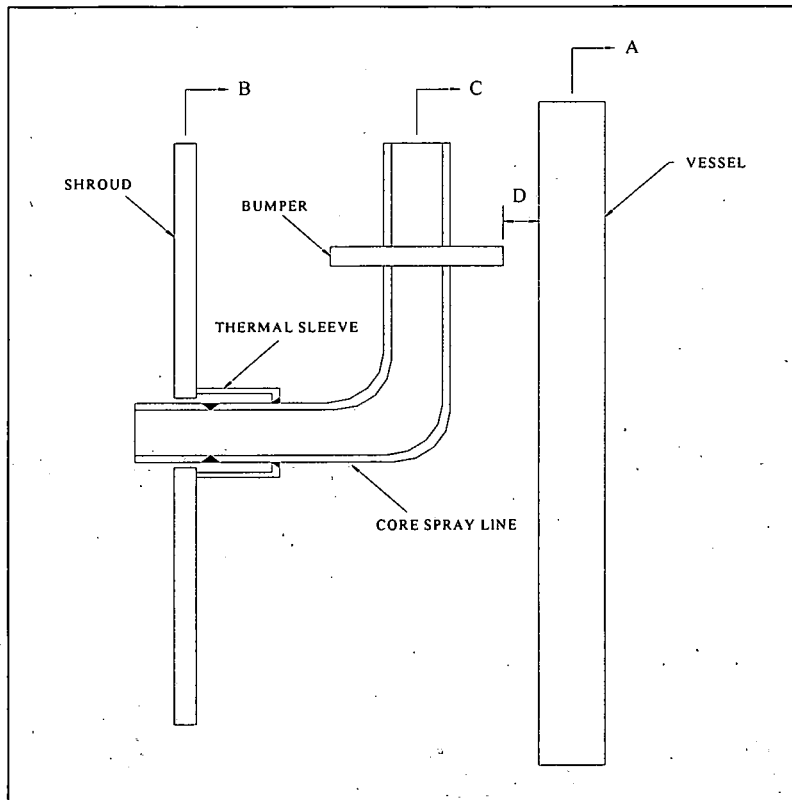
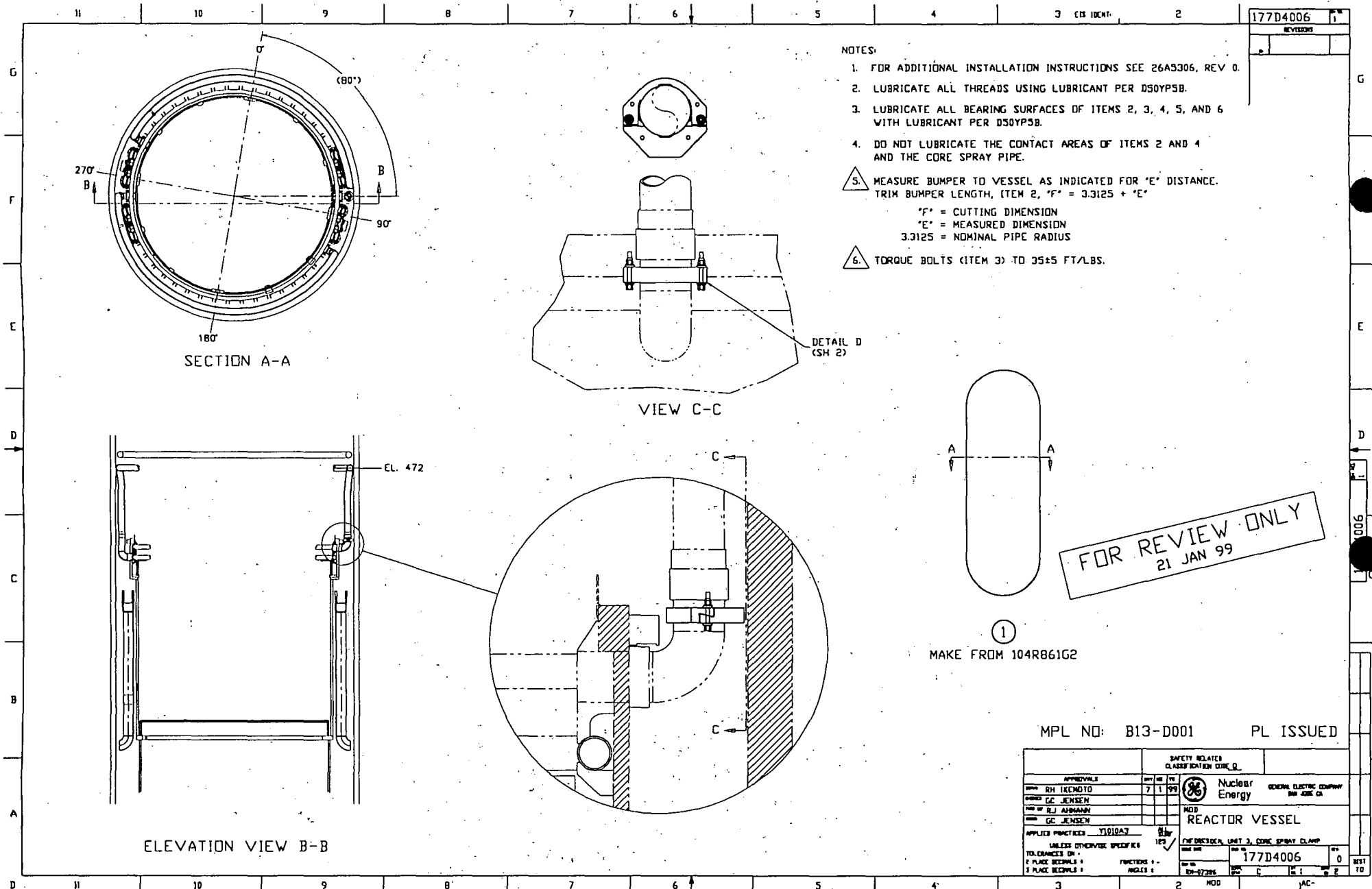


Figure 1. No Cracking in P8A and P9 Welds

Figure 1 shows the case in which the P8A and P9 welds are intact. The core spray line will not contact the vessel wall with an uncracked shroud. **D** is the cold installed gap between the clamp bumper surface and the vessel.

Enclosure (4)



NOTES:

1. FOR ADDITIONAL INSTALLATION INSTRUCTIONS SEE 26A3306, REV 0.
2. LUBRICATE ALL THREADS USING LUBRICANT PER D50YPSB.
3. LUBRICATE ALL BEARING SURFACES OF ITEMS 2, 3, 4, 5, AND 6 WITH LUBRICANT PER D50YPSB.
4. DO NOT LUBRICATE THE CONTACT AREAS OF ITEMS 2 AND 4 AND THE CORE SPRAY PIPE.
5. MEASURE BUMPER TO VESSEL AS INDICATED FOR 'E' DISTANCE. TRIM BUMPER LENGTH, (ITEM 2, 'F' = 3.3125 + 'E')
 - *F* = CUTTING DIMENSION
 - *E* = MEASURED DIMENSION
 - 3.3125 = NOMINAL PIPE RADIUS
6. TORQUE BOLTS (ITEM 3) TO 35±5 FT/LBS.

FOR REVIEW ONLY
 21 JAN 99

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 MAKE FROM 104R861G2

APPROVALS		SAFETY RELATED CLASSIFICATION CODE: Q	
BY: RH IKENDTO	DATE: 7 1 99	Nuclear Energy GENERAL ELECTRIC COMPANY DIV. GE-EC-CA	MOD: 177D4006 REV: 0
BY: GC JENSEN			
BY: GC JENSEN			
TOLERANCES UNLESS OTHERWISE SPECIFIED: 2 PLACE DECIMALS ± 3 PLACE DECIMALS ±		REACTOR VESSEL DIMENSIONS: UNIT 3, CORE SPRAY CLAMP 177D4006 0	