

**INDUSTRIAL ENGINEERING WORKS**

WARD AVENUE EXTENSION



BOX 8008, TRENTON, N.J. 03650

(609) 586-5005

April 30, 1979

Director, Office of Inspection and Enforcement  
U.S. Nuclear Regulatory Commission  
Washington, D.C. 20555

Re: TVA Contract 76K72-820117  
Reactor Pressure Vessel Shield Wall  
Structural Steel  
Hartsville Nuclear Plants (X17-X20)  
Phipps Bend Nuclear Plant (X21, X22)

Our Cont. #2550

Gentlemen:

We were advised by phone on April 25, 1979 that our customer TVA was sending you a report concerning material fabricated by our firm. During our conversation TVA's representative, Mr. Terry Tyler, suggested that we should also contact your office by phone and submit our written report in accordance with Paragraph 21.21. On April 26, 1979 we contacted your Mr. Richard McGaughy in the Philadelphia office of N.R.C. and on his advise we are submitting this report to your office.

Our firm has fabricated and shipped one Reactor Pressure Vessel Shield Wall Unit to TVA's Hartsville Nuclear Plant in Hartsville, Tennessee. This unit was shipped to the site in 16 segments which are being assembled and welded together by TVA. During the assembly of the first tier, TVA discovered defects in some of the vertical joints prepared for field welding.

During the fabrication of the shield wall, several field weld joints, which were to be cut at  $22\frac{1}{2}^{\circ}$  were incorrectly cut to  $45^{\circ}$ . When our quality assurance manager was made aware of the situation by one of his inspectors, he determined this to be a non reportable shop error and advised the shop to correct the error by welding and grinding to the required profile. In accordance with the contract specifications, all butt welded joints are to be radiographed. Since any defects in this joint would be discovered during radiography, no safety hazard was created.

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7907120 299

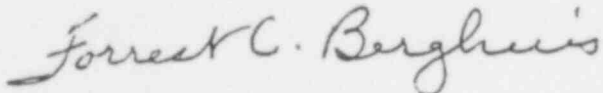
The corrective action taken is as follows:

1. We have authorized TVA field to radiograph all joints that were cut incorrectly and repaired by welding.
2. We have authorized TVA field to make the necessary repairs.
3. We have fabricated a metal template which is being used in our shop for the layout of all future bevel cuts to eliminate the recurrence of the error.

If you require any additional information, please contact us immediately.

Very truly yours,

INDUSTRIAL ENGINEERING WORKS

A handwritten signature in cursive script that reads "Forrest C. Berghuis".

Forrest C. Berghuis  
Vice President

FCB/pao

318 333

ATTACHED IS A PART 21 REPORT FROM IE MAIL UNIT - ROOM 359E/W

PART 21 IDENTIFICATION NO. 79-122-000 COMPANY NAME Industrial Engine

DATE OF LETTER 4/30/79 DOCKET NO. Hartsville

DATE DISTRIBUTED 5/8/79 ORIGINAL REPORT ☒ SUPPLEMENTARY ☐

DISTRIBUTION:

REACTOR(R) ☒

FUEL CYCLE & ☐

SAFEGUARDS(S) ☐

MATERIALS(M)

NRR/DOR (STELLO)

AD/FFMSI

AD/SG-IE

NRR/DPM (BOYD)

NMSS/FCMS

AD/ROI

AD/ROI (2)

REGIONS

REGIONS

AD/RCI

IE FILES

NRR/DOR (STELLO)

REGIONS

PDR

NMSS/SG SS-881

IE FILES (2)

LPDR

PDR

CENTRAL FILES

CENTRAL FILES-SS-396

LPDR

CENTRAL FILES (CHRON)

CENTRAL FILES(CHRON)  
(016)

TERA

PDR

IE FILES (2)

LPDR

TERA

CENTRAL FILES 016

TERA

BOB DENNIG, MPA

CENTRAL FILES (CHRON)

BOB DENNIG, MPA

CENTRAL FILES - SS-396

BOB DENNIG, MPA

ACTION:

PRELIMINARY EVALUATION OF THE ATTACHED REPORT INDICATES LEAD RESPONSIBILITY FOR FOLLOW-UP AS SHOWN BELOW:

IE ☒

NRR ☐

NMSS ☐

OTHER ☐

RCI  
ROI  
SG  
FFMSI