



# THE CLEVELAND ELECTRIC ILLUMINATING COMPANY

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Dalwyn R. Davidson

VICE PRESIDENT

SYSTEM ENGINEERING AND CONSTRUCTION

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November 12, 1981



Mr. James G. Keppler  
Director, Region III  
Office of Inspection and Enforcement  
U. S. Nuclear Regulatory Commission  
799 Roosevelt Road  
Glen Ellyn, Illinois 60137

RE: Perry Nuclear Power Plant, Docket Nos.  
50-440; 50-441, Interim Report on  
Unit II Polar Crane Girder Weld Deficiencies  
(RDC 39(81))

Dear Mr. Keppler:

This letter serves as an Interim Report pursuant to 10CFR50.55(e) concerning weld defects in the Polar Crane Box Girder for the Unit II containment. This was first reported by Mr. V. Higaki of The Cleveland Electric Illuminating Company to your Operations Center, Bethesda, Maryland, on October 17, 1981.

This report includes a description of the deficiency and the method planned to complete our evaluation.

## Description of Deficiency

The Polar Crane Box Girder which will support the Polar Crane in the Unit II containment was fabricated in ten sections by Newport News Industrial in their Greenville, Tennessee facility under procurement specification 660-4549-00.

Visual inspection of full penetration welds in these sections was performed during receipt inspection. Visual defects were identified and Nonconformance Report 17-136 was initiated. During excavation to prepare the unacceptable welds for repair by our Site contractor, Newport News of Ohio (NNICO), additional linear indications (lack of fusion) were discovered.

## Evaluation Method

All major structural welds in the Unit II Polar Crane Girder are being ultrasonically inspected (UT) by NNICO. The Perry Project organization is monitoring the UT inspection. After Non-Destructive Examination is completed, all necessary repairs will be made to assure compliance with the specification requirements. Preliminary results of the UT reflect a high rate of rejectable welds.

Newport News Industrial of Virginia has been requested to conduct an analysis/study to determine the level of quality of the existing shop welds in the Unit II Polar Crane Box Girder. To accomplish this, a task force under the direction of Newport

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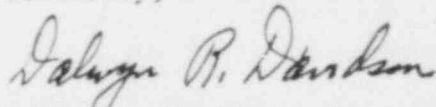
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News' Director of Engineering has reviewed manufacturing and field repair inspection reports. Additionally, they are duplicating in their Newport News, Virginia, facility the shop processes employed at their Greenville plant to study the effect of parameter variations for travel speed, amperage, etc.

Once Newport News has completed their investigation, a full report will be submitted to the Cleveland Electric Illuminating Company.

All evaluations should be completed by February 26, 1982, and we are presently planning to submit our Final Report at that time.

Sincerely,



Dalwyn R. Davidson, Vice President  
System Engineering and Construction

DRD/llp

cc: NRC Site Office

Mr. Victor Stello, Director  
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