

Metallurgical and Chemical Consultants

Testing Laboratories-Nondestructive Examination Services

 50 HUDSON STREET, NEW YORK, N.Y. 10013
 (212) 233-2737

 TELEX 12-6615
 CABLE NIKTIP
 (212) 233-2558

REPORT

June 24, 1982 L.P. No. M-6850

Your P.O. NYO-82-105 OEAR 234

Power Authority of the State of New York 123 Main Street White Plains, New York

Attention: Mr. W. Spataro

Subject: CHARPY IMPACT TESTS WELD PLATE COUPON 3/36 IN. DIAMETER E 7018 ELECTRODES

A welded plate coupon was submitted to Lucius Pitkin, Inc. for Charpy V-notch impact testing.

Five standard 10 x 10 mm Charpy V-notch specimens were removed from mid-thickness of the welded plate coupon. The longitudinal axis of the Charpy specimens was oriented transverse to the weld deposit. The notch was oriented perpendicular to the plate surface. Preparation of the Charpy specimens was in accordance with Specification SFA 5.1 of the ASME Boiler and Pressure Vessel Code. Each of the Charpy specimens was tested at +10 F. Results of the tests are shown in the appended tables.

Respectfully submitted,

LUÇIUS PITKIN, INC.

A. J. Vecchio Vice President & Asst. Chief Metallurgist

AJV/mm/4

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Lucius Pitkin



Power Authority of the State of New York Attn.: Mr. W. Spataro

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TABLE I

RESULTS OF CHARPY V-NOICH IMPACT TESTS

(SPECIMEN SIZE: 10 x 10 mm)

| Specimen <u>No.</u> | Test Temp., °F | Energy Absorbed, ft-lbs | Lateral Expansion,in. | Percent Shear |
|------------------------|-------------------|----------------------------|--------------------------|------------------|
| 1 | + 10 F | 213.0 | 0.076 | 100 |
| 2 | + 10 F | 158.0 | 0.086 | 100 |
| 3 | + 10 F | 190.0 | 0.092 | 100 |
| 4 , | + 10 F | 166.0 | 0.081 | 100 |
| 5 | + 10 F | 189.0 | 0.071 | 100 |
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Respectfully submitted,

LUCIUS PITKIN, INC.

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A. J. Vecchio Vice President & Asst. Chief Metallurgist

AJV/mm/4