BI

William M. Lanza President

September 13th, 1989

Mr. E. William Brach
Chief, Vendor Inspection Branch
Division of Reactor Inspection
and Safeguards
Office of Nuclear Reactor Regulation
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

Re: Docket No. 99901129-89-01

Dear Mr. Brach:

Enclosed please find the response of Meredith Corporation, Pressure Vessel Nuclear Steels (FVN) to your letter dated July 21st, 1989, which enclosed Inspection Report No. 99901129/90-01, relating to the NRC inspections of PVN conducted on November 2-4, 1988 and February 1-3, 1989.

If you have any questions, please do not hesitate to contact me.

Sincerely yours,

William M. Lanza

WML:imf Enclosure

CERTIFIED MAIL

844

RESPONSE OF MEREDITH CORPORATION, PRESSURE VESSEL NUCLEAR STEELS TO NRC NOTICE OF NONCONFORMANCE, DOCKET NO. 99901129/89-01

September 13th, 1989

Nonconformance 89-01-01:

"Contrary to Subsection NCA 3867.4(e) of ASME Section III, Meredith Corporation certified material supplied by American Tank and Fabricating Company (ATF) and H. T. Potts without testing each piece of material or establishing traceability by surveying, qualifying, and auditing the Quality System Program at ATF and H.T. Potts."

NRC Inspection Report No. 99901129/89-02, p. 2.

PVN Response:

According to the NRC Inspection Report, the NRC's review of approximately 105 nuclear and non-nuclear purchase orders in PVN's files revealed "three exceptions" to PVN's "usual practice as a holder of ASME certification number QSC-366 ... to order from domestic suppliers who are ASME approved suppliers, have been audited by Meredith, or supply commercial grade material which is properly upgraded by Meredith." Inspection Report, page 3. For the reasons explained in sections (a), (b), and (c) below, PVN believes that the three "exceptions" cited by the NRC in fact represent instances in which stock material was properly upgraded by PVN in compliance with NCA 3867.4(e) of ASME Section III.

Anchor Darling Valve Order

According to the NRC Inspection Report, PVN "supplied six pieces of steel plate to Anchor Darling Valve Company (ADV) to be used as replacement parts for valves at the DOE N Reactor located in Hanford, Washington. Meredith purchased the plate from ATF who had purchased the material from U.S. Steel Corporation (USX). Records of this purchase indicate that Meredith had not audited ATF and had not tested a sample of each plate that was supplied to ADV." Inspection Report, p.3

In fact, the six pieces of steel plate that PVN supplied to ADV were all cut from a single piece of steel plate, with heat number 2R2321. Pursuant to PVN's specification, ATF had supplied PVN with one 4" x 12" test sample from the parent plate for each heat of material used. See Attachment A hereto. Because PVN had not audited ATF, PVN had a product analysis and other requirements of the ADV specification performed and certified on the single piece of stock material from which the six pieces were cut, as required by NCA 3867.4(e). Thus, PVN had mechanical and chemical tests, and a Charpy impact test, performed on a sample from the piece of stock material from which the six pieces were cut, and provided the results to ADV. See Attachment B hereto. In addition, PVN had ultrasonic tests performed on each piece cut from the plate, and provided to ADV the results of such tests. See Attachment C hereto. PVN's certificate of conformance concerning all the required upgrade testing was dated August 6, 1987.

Thus, PVN believes that it complied with the requirements of NCA 3867.4(e) with respect to the ADV order referenced in the Inspection Report. Significantly, PVN had audited the QA programs of Spectrum Laboratories and Amspec, the contractors that performed the UT and the mechanical and chemical tests on the material provided to ADV. In addition, the NRC Inspection Report noted that based on a review of all PVN upgrade testing orders to Spectrum Laboratories for the period 1983 through 1988, "no nonconformances to NCA 3800 were identified." Inspection Report, p. 4.

Two unexpected discrepancies were subsequently discovered in connection with ADV order, however. First, when ADV had UT testing performed on the material supplied by PVN, ADV's contractor, Conam, found that four of the six pieces failed to meet the test requirements. This fact caused ADV to place all six pieces of PVN-supplied material on "hold." Following discussions between ADV and PVN, PVN had the UT tests repeated by its contractor, Amspec, and all six pieces were again found acceptable, consistent with the PVN certificate of conformance. Neither ADV, Conam, PVN, nor Amspec could figure out why the results obtained by Amspec and Conam were different.

Finally, PVN and ADV agreed to have the material tested -- and the prior test results reviewed -- by a third contractor, Hellier Associates. Hellier found that four pieces failed and two passed. Significantly, however, Hellier also discovered that the original UT tests performed by Amspec had been evaluated according to the criteria in SA578 Level II rather than SA578 Level I. See Attachment D hereto. This inadvertent discrepancy was not discovered until June, 1988. Thereafter, ADV and PVN agreed to settle the matter, and ADV returned the entire shipment to PVN.

While the material was on hold at ADV and the companies were working on resolving the UT test confusion, PVN discovered that the Charpy test that had been performed on the material supplied to ADV had not been performed on a transverse test specimen, as PVN had specified in its order. The Charpy test results received by PVN had indicated that the material satisfied ADV's specifications, and therefore PVN had accepted the results and shipped the material to ADV; the test report had not indicated that the test had been performed in the transverse direction.

See Attachment B hereto. When PVN learned that the test had not been performed on a transverse test specimen, PVN requested that the test be repeated in that way. The results of the retesting indicated that the material did not satisfy ADV's specifications.

Because ADV had decided not to use any of the material supplied by PVN while it was "on hold" in light of the unresolved UT test discrepancies, and, indeed, ultimately it was all returned to PVN, it never became necessary for PVN to inform ADV of the repeated impact test results.

b. Bechtel Order

According to the NRC Inspection Report, "Bechtel PO BF-32154, dated January 9, 1987, was issued to Meredith for various sizes of SA-240 type 304L and 316L stainless steel plate to be used at the South Texas nuclear plant. ASME Section III, (Class 2), NCA 3800, 10 CFR 50, Appendix B, and 10 CFR 21 were imposed on Meredith. Meredith filled the order with material supplied by H. T. Potts of Philadelphia, Pennsylvania on Meredith PO 00541, dated February 6, 1987. Meredith did not perform upgrade tests on each piece of plate and did not audit H. T. Potts." Inspection Report, p. 4.

In fact, PVN performed upgrade testing on all pieces of stock material it received from H. T. Potts for the Bechtel order, in compliance with NCA 3867.4(e), before it certified and shipped the requested material to Bechtel.

Bechtel originally ordered 20 pieces of steel plate, two of each of ten different sizes. Bechtel agreed to PVN's proposal to supply upgraded material in filling the order. See Attachment E hereto. In response to PVN's Purchase Order No. 00541, H. T. Potts supplied PVN with material from ten pieces of steel plate. In response to PVN's specification stated on the PVN purchase order, H. T. Potts also provided PVN with a 6" x 6" sample piece from the parent plate for each heat of material used for testing purposes. See Attachment F hereto.

PVN had its contractor, Spectrum Laboratories, perform product analysis on each piece of plate from which the Bechtel order had been cut. PVN had previously audited the QA Program of Spectrum Laboratories, and as noted above, in its inspection, the NRC found "no nonconformances to NCA 3800" in any PVN upgrade testing orders to Spectrum from 1983 through 1988. PVN provided to Bechtel the Spectrum Laboratories report setting forth the results of both chemical and mechanical tests, and a certificate of conformance. See Attachment G hereto. No other tests were required to satisfy Bechtel's specifications. Thus, PVN believes that it performed upgrade tests on each piece of stock material provided to Bechtel in full compliance with NCA 3867.4(e).

c. Congdon & Carpenter Order

According to the NRC Inspection Report, "Congdon and Carpenter PO S-9805, dated June 22, 1987, was issued to Meredith for three pieces of 6-inch thick by 29 1/4-inches by 33 1/2-inches of SA 516 Grade 70 steel plate. ASME Section III (Class 3), NCA 3800 was imposed on Meredith. Meredith filled the order with material supplied by ATF on Meredith PO 00734, dated July 6, 1987. Meredith did not perform upgrade tests on each piece of plate and did not audit ATF." Inspection Report, p. 4.

In fact, the three pieces of steel plate that PVN supplied to Congdon & Carpenter were all cut from a single piece of steel plate, heat number 802T36840. Pursuant to PVN's specifications, ATF provided to PVN a 4" x 12" test sample from the parent plate for each heat of material used. See Attachment H hereto.

Because PVN had not audited ATF, PVN had a product analysis and other requirements of the Congdon & Carpenter specification performed and certified on the single piece of stock material from which the three pieces were cut, as required by NCA 3867.4(e).

PVN had its contractor, Spectrum Laboratories, perform product analyses on the single piece of plate from which the Congdon & Carpenter order had been cut. As noted above, PVN had previously audited the QA program of Spectrum Laboratories, and in its inspection, the NRC found "no nonconformances to NCA 3800" in any PVN upgrade testing orders to Spectrum from 1983 through 1988. PVN provided to Congdon & Carpenter the report of such analyses setting forth the results of both chemical and mechanical tests. See Attachment I hereto. In addition, PVN had ultrasonic tests performed on each of the three pieces cut from the plate, by its contractor Amspec. See Attachment J hereto. PVN also certified the results of all tests to Congdon & Carpenter. See Attachment K hereto. Thus, PVN believes that it performed upgrade tests on each piece of stock material provided to Congdon & Carpenter in full compliance with NCA 3867.4(e).

d. Subsequent PVN Actions

As noted, PVN believes that it acted in compliance with all applicable requirements given the facts and circumstances presented in the three instances cited in the Inspection Report. Nonetheless, following receipt of the Report, PVN has reviewed the portions of its QA Manual and its Standard Operating Procedures which address upgrading of stock materials to confirm that they conform to the requirements stated in NCA 3867.4(e). In addition, all PVN employees who are involved in placing and filling purchase orders have been required to review all applicable PVN procedures and ASME requirements which govern the upgrading of stock materials, and have been reminded that all such procedures and requirements must be followed in every case. Finally, in light of the UT discrepancy and Charpy test confusion, which arose in connection with the ADV order, all PVN employees who are involved in requesting or evaluating test results have been reminded that with respect to every order, they must confirm (a) that appropriate acceptance criteria have been applied in performing tests and in evaluating test results, and (b) that all required test specifications have been followed. See Attachment L.

Nonconformance 89-01-02:

"Contrary to Criterion V of Appendix B to 10 CFR Part 50 and Meredith Standard Operating Procedure (SOP) No. 8, "Record Retention," Revision O, dated February 20, 1988, nuclear sales order folders were not color coded as required for the control of documents on nuclear procurements. This resulted in NRC inspectors not being able to readily identify nuclear sales orders while selecting the sample of orders to be inspected." Inspection Report, p.2.

PVN Response and Subsequent Actions:

According to the NRC Inspection Report, "the inspectors noted that red dots were missing from some file folders which contained nuclear orders." Inspection Report, p. 4. Based on PVN's review of its files, it appears that red dots had fallen off approximately 15 file folders, among all the folders containing orders from 1983 through 1988. The red dots apparently fell off because the glue on the back of the dots had dried up over the years.

Following the NRC inspection, PVN took the following actions to address this nonconformance. First, every file folder for nuclear and non-nuclear orders from 1983 through 1988 was reviewed to confirm that every file containing a nuclear order contained a red dot. Second, the few red dots, which had apparently fallen off - approximately 15 - were replaced. Third, all folders containing nuclear orders were physically separated from the folders containing non-nuclear orders and were placed in separate filing cabinets, which are now designated as "nuclear order cabinets". Thus, PVN now has a redundant system for designating and identifying nuclear orders: They are color coded with red dots, and they are stored in separate filing cabinets. All relevant PVN employees have been trained concerning the new filing procedures for nuclear orders, and PVN's procedures will be revised to reflect the new filing system. See Attachment M.



PRESSURE VESSEL - NUCLEAR

TELECOPY (201) 964-5300

PURCHASE ORDER

(214)

PURCHASE ORDER DATE DADER NUMBER 7-1-87 1501 TERMS

American Tank & Fat. 12314 Elmwood Avenue Cleveland, Onto 44111 Attention: Dave mantz

1/2% Ten Not 30 SHIP MA

FO.

Advise When Ready

200 Shipping Point FREIGHT TERMS

Collect

Truck

ADE	RED	DESCRIPTION	COST	TINU	REQUIRED
		ASME SA 516-70 NURPHILIED CHARPY IMPACT TESTED AT + 32°F 4C MILS LATERAL EXPANSION TEST TO BE DONE IN THE TRANSVERSE DIRECTION, PARTS TO BE UT D TO 578 LEVEL 1 100% NO WELD REPAIR STATEMENT ON EACH MILL 1/R.			
3	pcs.	24" 990" NALE DISC SEGMENT F-8566 (ALP) E-A 341-1 (3) PER DRAWING	\$ 875.00	EA.	
3	pcs.	24" 990" FE VALE BISC SEGMENT F-5568 (ALP) E-A-341-1 (3) PER DICAWING	\$ 875.00	EA.	
0		U.T. CHARGE	\$ 225.00	LOT	·.
		NO WELD REPAIR STATEMENT	\$ 50.00 PE	HEAT	UŞED
		ONE 4" X 12" TEST SAMPLE OF EACH MEAT OF	N/C		
\·.		TWO (2) COPIES OF MILL T/R'S ATTENTION: DEAN LANZA	# eur		
		INVOICES WILL NOT DE PROCESSED UNTIL PROPER TEST REPORTS ARE FURNISHED.			
•					

Our Purchase Order Number must appear on all documents. Invoices, shipping notices and notarized test reports must be rendered in six copies or as otherwise specified materials and service furnished on this order must be of the kind and quality specified subject to our inspection and acceptance at destination. All rejected materials will need for disposition, subject to shippers risk and expense.

MEREDITH CORPORATION-PRESSURE VESSEL-NUCLEAR STEE

signed	 				
197		-	THE RESIDENCE AND ADDRESS.	DESCRIPTION OF THE PERSON NAMED IN	APPROX.

QUALITY ASSURANCE APPROVED.

SALES ORDER FILE

Signed

PVN and or agent to have free access to vendor's or sub-vendor's plant of facility during the process of this order.









SPECTRUM LABORATORIES INC. 524 PELHAM AVE.

PISCATAWAY, NEW JERSEY 08854

(201) 752-1400

MEREDITH CORPORATION Pressure Vessel Nuclear Steels 460 Hillside Avenue Hillside, New Jersey 07205

Attention: Mr. Hamilton Vazquez

REPORT OF MECHANICAL TESTS

DATE August 11, 19 87 ORDER No ... P.O. #00767 LABORATORY No. 41804

The following results were obtained from our tests of this material.

Type of sample submitted 1 pc. 7" x 4" x 12", Ht. #2R2321, Slab #0301 USS, SA-516-70 MT Marked as follows Sec. II & III, 1983 Edition thru Winter 1985

Q A APPROVED Addenda, NB, Class 1, NB2000, NCA-3867.4(e), PERSONAL WERSEL NUCLEAR STEELS INC

NCA-3800 & 10CFR21 applies

Sample No.	Area	Yield Load lbs.	Yield Strength pai 2% offset	Tensile Load *	Tensile Strength	% EL. 2"	R. A. S
202321	.20	9,150	45,750	15,700	78,500	24.0	52.6
as quar	rifed by W	supplied under eredith Corp. a dit date 11-17-	a Quality Systems meeting the re	ns Program, Rev Equirements of	. 2 dtd 1-23-8 NCA-3800.	80	

ST PROCEDURE: -

mple Size . 505" Rd. ress Strain Diagram Reference at Specification - ASTM F.-8

LIBRATION PROCEDURE:-

st Instrument SATEC 5-2-87 libration Date_

accordance with ANTM ! -1. tensometer MA1B S/N 851

imples returned upon request only. Held for a period of 30 ivs maximum. The liability of this laboratory relative to

is report shall not exceed the amount of the invoice.

ordance with ASTM L-B3

Quality Assurance Inspection System complies with MIL-1-45208 A. ASTM E-518, and \5\11, Sec. 111, Par. NCA-4000.

We certify this is a true report of results obtained from our tests of this material.

SPECTRUM LABORATORIES INC.

H. C. SCHANCK, DIRECTOR



524 PELHAM AVE.

PISCATAWAY, NEW JERSEY 08854

MECHANICAL TESTING

P.O. #00767

REPORT OF CHEMICAL TESTS

REDITH CORPORTION
Pressure Vessel Buclear Steels
460 Hillside Aware
Hillside, New Jersey 07205

Date August 11, 1987

marked

Mr. Bmilton Vazquez Attention: Same See ph Sample Sample Element 2 R 2 121 Requirements Copper Tir Land Zine Nickel Iron Photonorus 0.021 0.035 max. Antimony minum Magnesium Manganese 1.30 0.77 - 1.30T. anium Sili on 0.19 0.13 - 0.45Chromium Sulfur 0.017 0. HA max Carbon 0.29 0.31 max Cobalt Molybdenum Columbium + Q & APPROVED MISSURE VESSEL NUCLEAR STEELS INC. Tantalum Vanadium Tungsten

Sample Description: Sec. II & III, 1983 E thru Winter 1985 Add, NB Class 1 NB2000, NCA3867.4(e), NCA-3800 & 10CFR21 applies
1 pc. 7" x 4" x 12", Ht. #2R2321, Slab #0301, USS, SA516-70 MT

A-Hay Diffraction

X-Rey Sluorencent

I minimize Spectro (Vecuum) XXX

I minimize Spectro (Air)

Ret Chemistry XXX

Atomic Absorption

Infared

Geo Chromatography

The samples tested in this report were calibrated by use of

National Hurcau of Standards No's. 1261-1265

ASTM Test Method: E350, E415

Mairia Michael Wrought

This service was supplied under a Quality Systems Program, Rev. 2 dtd 1-23-80 as qualified by Meredith Corp. as meeting the requirements of NCA-3800. Meredith Corp. Audit date 11-17-86.

Quality Assurance Inspection System complies with MIL-I-45208 A. ASTM E-548, and ASME Sec. 111, Par. NCA-4000.

We certify this is a true report of results obtained from our tests of this material.

SPECTRUM LABORAS ORIES INC.

Harold C. Schanck

Metallurgist

Samples returned upon request only. Held for a period of 30 days maximum. The liability of this laboratory relative to this report shall not exceed the amount of the invoice.



Dete 3-1-37

HERRON TESTING LABORATORIES, INC.

\$405 E SCHAAF ROAD . CLEVELAND, OHIO 44131 (216) 524-1450 . FAX: (216) 524-1459

(216) 524-1450 + FAX: (216) 524-145

"Testing and Analysis Since 1911"

Charlotte Division 12004 Westinghouse Blvd Charlotte, North Carolina 28/17 1704: 588-1111 • FAX: (704) 566-5412

To:

American Tank & Pab.

Cleveland. OH

OH 44111

Page 1 of Herron File No. Purchase Order No. Shipper No. Date Reported

87070614 W8089 10096

July 24. 1987

SAMPLE DESCRIPTION NE 7" X 4" X 6" STEEL, HEAT ER2321, SLAB 0301, MATL.

MECHANICAL TESTING

Wiedeman-Baldwin, Model SI-IC, S/N 1068. 10mm x 10mm x 55mm Charpy V-Notch Impact Bare

Teap. Deg. P	Impact Strength (Foot Pounds)	Mile Lateral Expansion	N Ductile Practure Area
+32	63	47	65
	6.8	52	76
	72	53	70
	68 AVG.		

RECEIVED

Self To File

Megoy D Canadel

Gregory D Canadel

Gregory D canadel

Engineering Technician

Respectfully submitted.

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04.1/20/81

he lareguing is expressly limited to findings based upon material information, end, or specifications furnished by client and excludes any expressed or implied warranties is to the littless of the meterial and/or process so subjected to excludion and/or englysis for any particular purpose or use

his report is considered to be the confidential property of our client. Reproduction and distribution in whole or in part for edvertising purposes without our written armission is strictly prohibited.

LEASE NOTE SAMPLES WILL BE DISCARDED 30 DAYS FROM THE DATE OF THIS HEPORT UNLESS WE ARE OTHERWISE ADVISED



August 4,1987

Maredith Corporation Pressure Vessel Nuclear 460 Hillside Avenue Hillside New Jersey 07205

REVISED COPY - 8/12/87

ATTENTION: Mr. Hamilton Vasquez

Re: Ultrasonic Inspection of Three Female and Three Male Disc Segments

INTRODUCTION

Amspec Technical Services, Inc. was requested to preform an Ultrasonic Inspection of (3) three male disc segments and (3) three female disc segments, in order to establish the possible presence of material defects due to manufacture. Material ecifications and size are as follows; (3) three pieces, thickness 7 inches, diameter 24 inches, 950 Male Disc Segment per F-5568 E-A341-1 (3), Heat Number 2R2321, Slab Number 0301, Grade: SA516-70 MT, MFG: USS / (3) three pieces, thickness 7 inches, diameter 24 inches, 990 Female Disc Segments per F-5569 E-A341-1 (3), Heat Number 2R2321, Slab Number 0301, Grade: SA516-70 MT, MFG: USS.

The inspection was preformed at Meredith Corporation, Hillside, New Jersey, under purchase order \$00768

TEST PROCEDURE AND RESULTS

On August 3,1987, an Ultrasonic Inspection was performed on the above mentioned pieces in accordance with: Section III 1983 Edition thru Winter 1985 Addenda. No Class 1, UT per NB 2532.1, SA 578 Level II. 100% Scan. NCA3800 & 10CFR21 Applies. The above mentioned code specifications were used in conjunction with AMSPEC-UT-1-86 procedure requirements.

Krautkramer Branson sonoray Model USK-6 pulse echo sound generator along with a 2.25 MHz, I inch diameter straight beam transducer was used for the inspection.

Colibration of the Inspection equipment was preformed in accordance with the above mentioned codes and procedures.

The above mentioned pieces were found to be ACCEPTABLE.

COMMENT

A vertal and written report was rendered to Meredith Corporation, on August 3, 1987 by Jonathan P. Coulson Level III of Amspec Technical Services, Inc.

Vice President/General Manager
Amspec Technicla Services, Inc.

Den 3-6-87

JPC/tm

The American Inspection Co. Inc.
PO Soc 154
Issac II. 604-0154
(3)21250-6522

The American Inspection Co. Inc.
4215 Cardinal Drive
Beautism 3 x 32815
(418; 84) wf(2)

Amspec Technical Services, Inc.
Pri Bus 713
Be Kinnhall Service
Westbudge NJ (PRIX
(20): 855 Visit

Cond 11 Sentral Sate 615 Some Machine Known St.

The American Inspection Cu., Inc PO Hos #117 Sunny Isle Christiansied St. Criss. L.NVI (2.82) 7449

HELLIER ASSOCIATES, INC.

Technical Training & Consulting

Essex Plaza, P.O. Box 818 Essex, CT 06426

Telephone (203) 767-2113 / Telex 910-240-9340 / Fax. No. (203) 767-2115

June 1, 1988

Mr. G. W. Knieser Anchor/Darling Valve Company 701 First Street P. O. Box 3428 Williamsport, PA 17701-0428

Dear Mr. Knieser:

Enclosed please find a copy of Carl Eriksson's trip report and an invoice for his services.

I regret the delay in transmitting this to you and trust it has not caused any inconvenience.

Please note that Mr. Vazquez of Meredith Corporation requested a copy of the report. We have not distributed this report to anyone so you may want to comply with his request.

Please call me if you have any questions.

Very truly yours.

HELLIER ASSOCIATES, INC.

Charles J. Heilber

CJH/slo enclosures

241 HELLIER ASSOCIATES, INC.

Technical Training & Consulting

Essex, CT 06426

Telephone (203) 767-2113 Telex 910-240-9340 Fax. No. (203) 767-2115

TRIP REPORT

To: C. Hellier From: C. Eriksson

Location: Anchor Darling Valve Co. Williamsport, PA

On May 3, 1988 a visit was made to the Anchor Darling Valve Co. in Williamsport, PA. The purpose of the trip was to ultrasonic examine six (6) pieces of SA516 grade 70 plate purchased to ASME III class #1 requirements. The material as provided by Meredith Corp., Hillside, NJ was certified as being acceptable. Shop tests were also performed using ultrasonics by CONAM (contracted by Anchor Darling) since plate edge laminations were noted during farication and further investigation was required. The CONAM ultrasonic shop tests rejected four (4) pieces and accepted two (2). The original inspection agency. AMSPEC (contracted by Meredith Corp.) then reexamined the pieces in the shop and reaffirmed their original evaluation of all pieces being acceptable.

Results of the HAI examination are attached and are consistent with the CONAM findings including marginal acceptances of the Ser. #2 Male piece.

After the HAI tests were completed a review was made of the AMSPEC test reports. It appears that their findings were also nearly consistent with the CONAM & HAI results, however, their evaluation criteria was different. It appeared that the criteria used by AMSPEC was SA578 Level II which allows a much larger reflector size thus resulting in accepting the pieces. HAI stated that if our evaluation was made to the Level II criteria all pieces would have been acceptable.

A meeting was then held with Anchor Darling personnel, Hamilton Vazquez, QA Manager and Vice President of Meredith Corp. and HAI. All results were presented and discussed pointing out the differences in criteria. HAI then performed ultrasonic tests on the pieces to demonstrate the basis of our findings. Mr. Vazquez was satisfied and in agreement with the work performed and will follow up with his contractor, AMSPEC.

Mr. Vazquez requested a copy of our test report to be sent to him.

Carl Guifagen Carl W. Eriksson May 5, 1988

HELLIER ASSOCIATES, INC.

Technical Training & Consulting

Essex Plaza P.O. Box 818 Essex. CT 06426

Telephone (203) 767-2113 Telex 910-210-9140 Fax No (203) 767-2115

TEST REPORT

Examination Date: 5/3/88

Location: Anchor Parling Valve Co., Williamsport, PA

Material Examined: Six (6) pieces of SA516 Grade 70 plate.

Instrument: Sonic Mark I Ser #13989E

Trensducer: KB Aerotech 1" diameter 2.25 MH C11/805 Alpha

Exosen #30

Method: Straight beam in accordance with SA578 with the following exceptions:

1. Evaluations were not performed at locations where back surface machining or welding affected signal response.

2. 100% scanning was performed until a rejectable condition was encountered. Additional scanning was then performed for general information only.

Evaluation Criteria: NB section of ASME III 1977 thru Winter 1979 Addenda.

Results: Discs 24-990 GT Heat #2R2321

Ser. #1 Male - Rejectable

Ser. #2 Male Acceptable (Marginal)

Ser. #3 Male Rejectable Ser. #1 Femele -Rejectable Ser. #2 Female - Rejectable Ser. #3 Female - Acceptable

1. All rejects were based on two (2) or more indications greater than 50% of the initial back reflection accompanied by a 50% loss of back reflection encompassed within a 3" diameter circle.

Results also show numerous reflectors at various depths and amplitudes in all pieces except for Ser. #3 Female which was relatively clear.

There was no concentration of reflectors in the mid plate area.

SECUTEL - SAY CITY, TEXAS 10 (201964-5301day 10 FROM: DENISE A PERCOOK LOCATION Becule, Evelith Corporation Direct Line 512-912-9045 Contra term dis Telecopy 512.972.5580

...

. . .



TELECOPY (201) 964-6300

PURCHASE ORDER

A. 1.

PURCHASE ORDER DATE ORDER NUMBER 2-6-87 1095 00541 TERME

H.T. Potts Division Of All American Metals, Inc. 3750 D. Street Philadelphia, PA 19139 Attention: Carol McSwain

1/2% Ten Net 30 SHIP VIA

PVN

Your Truck ...

Delivered

FREIGHT TERMS

Prepaid

ORDERED DESCRIPTION UNIT REQUIRED COST UNIT DATE ASME 240 TP 304L SS DOMESTIC NO WELD REPAIR 2 B FINISHED 1 SIDE. SA 240 Tp 304L 21 1/16" x 96" x 48" pcs. 2124 \$ 1.48 -LB. SA 240 Tp 316L 5 2 1/16" x 96" x 48" pcs. \$ 1.94 -LD. SA 240 Tp 304L pcs. 1/8" x 96" x 48" 3221 \$ 1.47 LB. SA 240 Tp 316L 1/8" x 96" x 48" pcs. 322# \$ 1.92 -LB. SA 240 Tp 304L (2) 1/4" x 96" x 48" pcs. - 88. LB. SA 240 Tp 316L 3 1/4" x 96"x 48" pcs. \$ 1.50 LB. 304L 3/8" x 96" x 48" DCS. \$ 1.14 LB.

. . b. 14 Bigned

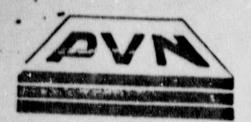
Our Purchase Order Number must appear on all documents, Invoices, shipping notices, and notarized test reports must be rendered in six copies or as otherwise specified saterials and service furnished on this order must be of the kind and quality specified subject to our trapection and acceptance at destination. All rejected materials will be held for disposition, subject to shippers risk and expense.

MEREDITH CORPORATION-PRESSURE VESSEL-NUCLEAR STEE

- 450	SECURITY I	STATE OF		C 1
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- Core	JAL		A. N. S.	
PCD-to-Re	- Albania	.0.00.00	3.79	
	A 44 K W	100000	Section 1	

E APPROVED

TWN and or agent to new free access to vendor's praub-vendor's plant or facility during the process of this order



MEREDITH CORPORATION PRESSURE VESSEL - NUCLEAR Steels

TELECOPY (201) 964 5300

PORCHASE ORDER	PURCHASE ORDER DATE		
	2-6-87 1000		

H.T. Potts Division Of All American Metals, Inc. 3750 D. Street
Philadelphia, PA 19139
Attention: Carol McSwain

PVN

THE RESERVE AND PERSONS ASSESSED.	SHIRE SHOWING	No removation	STOREST CO.		UMDER NUMBER
2-6-87		1095			00541
-	-	16	AMS.	-	
	1/2%	Ten	Net	30	
-	- Annie A		P VIA		
	Your	Truc	k		
-	MICHIGAN STREET, NAME OF STREE	,	00	**********	THE CONTRACTOR OF THE CONTRACT

Delivered FREIGHT TERMS

OADEAED UNIT	DESCRIPTION		Cost	, UNIT	REQUIRED
pcs.	3/8" x 96" x 48" 7 4/12/x 1- 1:26 - 2 1	,037#	\$ 1.46	LB.	
pcs.	1/2" x 96" x 48" / 316L	,382#	\$ 1.14	LB.	
1065.	PLEASE SUPPLY A 6 X 6 SAMPLE PIECE OF EACH		\$ 1.52	LB.	
	INVOICES WILL NOT BE PROCESSED UNTIL PROPE TEST REPORTS ARE FURNISHED.				
	TWO COPIES MILL T/R'S ATTENTION: DEAN LANZA	E			
1.					

MEREDITH CORPORATION PRESSURE VESSEL-NUCLEAR STEELS

(201) 752-1400

SPECTRUM LABORATORIES INC. 524 PELHAM AVE.

PISCATAWAY, NEW JERSEY 08854

REPORT OF CHEMICAL TESTS

MEREDITH CORPORATION Pressure Vessel Nuclear Steels 460 Hillside Avenue Hillside, New Jersey 07205

Date March 26, 1987

Laboratory No.

41197

marked P.O. #HV 00569/1095 Sample Description: 1 pc. 4" x 6" x 8"

Element	Sample	Sample	Sample	Sample
Copper				li de la
Tin				
Leed				
Zinc				
(el	10.23			
Iron				
Phosphorus	0.010			
Antimony				
Aluminum				
Magnesium			<u>_</u>	
Manganese	1.68			
Titanium			WED AR STE	
, on	0.67		APPROVED IS NUCLOAR STELLS	h
Chromium	16.45		1 S S	3
Sulfur	0.001		Solver	7
Carbon	0.017		E	1
Cobalt			3	
Molybdenum	2.09		Q .	
Columbium + Tantalum				
Vanadium				
Tungsten '				
Nitrogen	0.038			

Heat No. 894457, Mfr. Allegheny Ludl Ref: Houston Lighting & Power P.O. N BF-32154, ASME SA240, 316L, Sec. 3 1980 Ed. thru S'82 Add, Cl. 2 And NCA-3867.4 NCA-3800 & COCFR21 applie Test Method X-Rey Diffraction

X-Hay Fluorescent XXX Emission Spectro (Vaccum) XXX Emission Spectro (Air) Wet Chemistry XXX Atomic Absorption Infared Cas Chromatography

The samples tested in this report were colibrated by use of

National Hureau of Standards No's. 845-849

ASTM Test Method:___ E353, E322, E415

Matrix Method:___ Wrought

Q.A. Program audited and approved by PVN on Nov. 17, 1986.

Quality Assurance Inspection System complies with MIL-1-45208 A, ASTM E-548, and ASME Sec. 111, Par. NCA-4000.

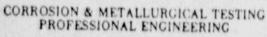
We certify this is a true report of results obtained from our tests of this material.

SPECTRUM LABORATORIES

Harold C. Schanck Director

Carrett C. Schanck Metallurgist

Samples returned upon request only. Held for a period of 30 days maximum. The liability of this laboratory relative to this report shall not exceed the amount of the invoice.

















PISCATAWAY, NEW JERSEY 0865

MEREDITH CORPORATION Pressure Vessel Nuclear Steels 460 Hillside Avenue Hillside, NJ 07205

Attention: Mr. H. Varquez

REPORT OF MECHANICAL TESTS

March 26, 19 87 DATE ORDER No. HV 00569/1095 LABORATORY No. 41197

The following results were obtained from our tests of this material.

Type of sample su	bmitted 1 pc. 5" x 6" x 8", Heat No. 894457, Mfr. Allegheny
Merked as follows	Ludlum, Ref: Houston Lighting & Power P.O. No.
	BF-32154, ASME SA-240, 316L, Sec. 3, 1980 Ed thru
	S'82 Add, Cl. 2 and NCA-3867.4 NCA-3800 & 10CFR21
	applies

Sample No.	Area	Yield Load lbe.	Yield Strongth par	Tennile Load	Teneile Strength	% EL. 3"	R. A. S
)ne	.1285	6,600	51,360	10,725	83,465	53.0	
L(Pro	gram aud	ted and app	roved by PVN o	n Nov. 17.	1986.		
	-	AVA	Q. A. APPROVED				
	-	SEE 3	PRESSURE VESSEL NUCLEAR S	TEELS INC.	1		

T PROCEDURE: sle Size .. 500 x . 257

.0001 in/in. per min.

s Strain Diagram Reference. 41197

Specification - ASTM F.-8

IBRATION PROCEDURE:-

SATEC Instrument_ bration Date_ 5-7-86

cords no with ASTM F.-4.

ne ometer__ MA1B S/N 851

cordence with ASTM F.-83

ples returned upon request only. Held for a period of 30 s maximum. The liability of this laboratory relative to report shall not exceed the amount of the invoice.

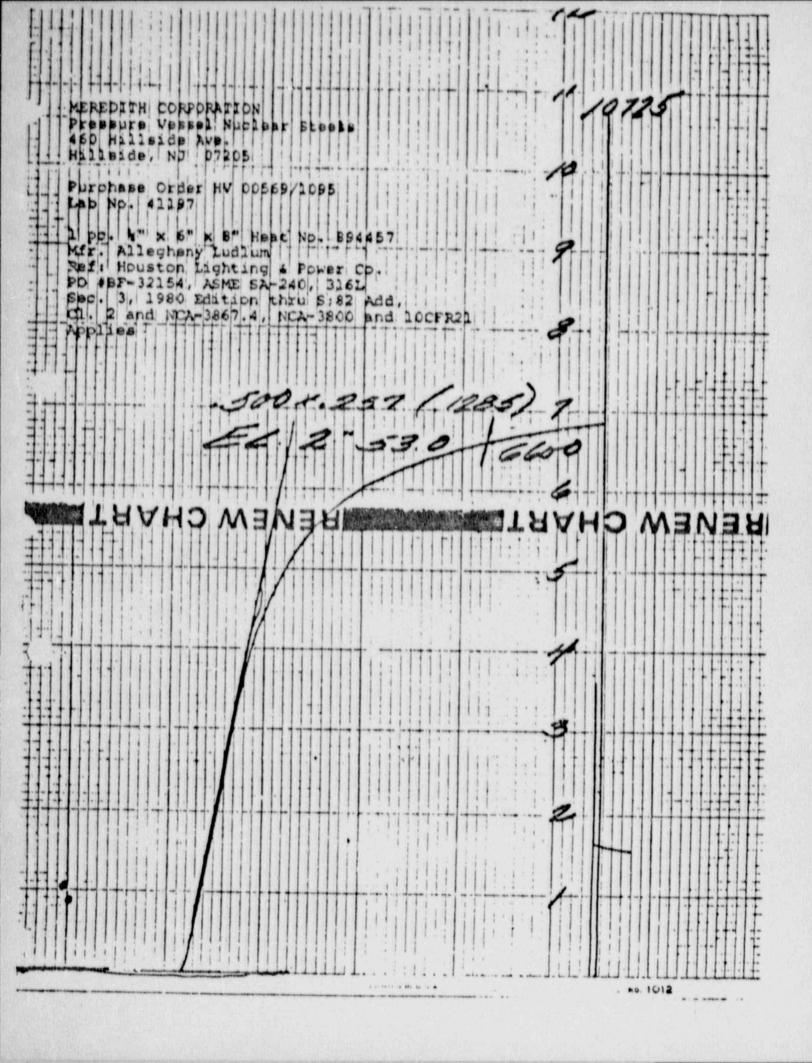


Quality Assurance Inspection System complies with MIL-1-45208 A. ASTM E-518, and ASME Sec. 111, Par. NCA-4000.

Re certify this is a true report of results obtained from our tests of this material.

SPECTRUM LABORATORIES INC.

H. C. SCHANCK, DIRECTOR













524 PELHAM AVE.

PISCATAWAY, NEW JERSEY 0885

PVI	Q. A. APPROVED
E	PRESECUL VESSEL NUCLEAR STEELS ING.
Date	4.10.67
By	- Dacin
	13710-

MEREDITH CORPORATION Pressure Vessel Nuclear Steels 460 Hillside Avenue Hillside, New Jersey 07205

Attention: Mr. Hamilton Vazquez

REPORT OF MECHANICAL TESTS

DATE April 7, 10 87 ORDER No. P.O. #569 CO #1

LABORATORY No. 41235

The following results were obtained from our tests of this material.

Type of sample submitted ASME SA-240, Sec. 3, '80 Ed. thru S/82 Add. Cl. 2 and NCA-3867.4, NCA-3800 and 10CFR21 applies Ref: Houston Lighting & Power #BF32154, Mfr. LTV Marked as follows 1 pc. 16 ga, 304L, Heat #73392

1 pc. 11 ga, 304L, Heat #94527

Semple No.	Area	Yield Load lbs.	Yield Strongth pai 2% offnet	Tensite Load	Tensile Strength	% EL. 2"	R. A. S
73392	02875	1,390	48,348	2,700	93,913	52.0	
1 27	.05875	2,915	49,617	5,375	91,489	57.0	

ST PROCEDURE: 173392 - .0575 x .500 mple Size #94527 - .1175 x .500

coo Strain Diagram Heference

at Specification - ASTM F.-B

LIBRATION PROCEDURE:-

SATEC at Instrument ... 5-7-86 libration Date __

secordance with A.TMI-1.

tene ometer MA1B S/N 851

ercordance with ASTM F.-R3

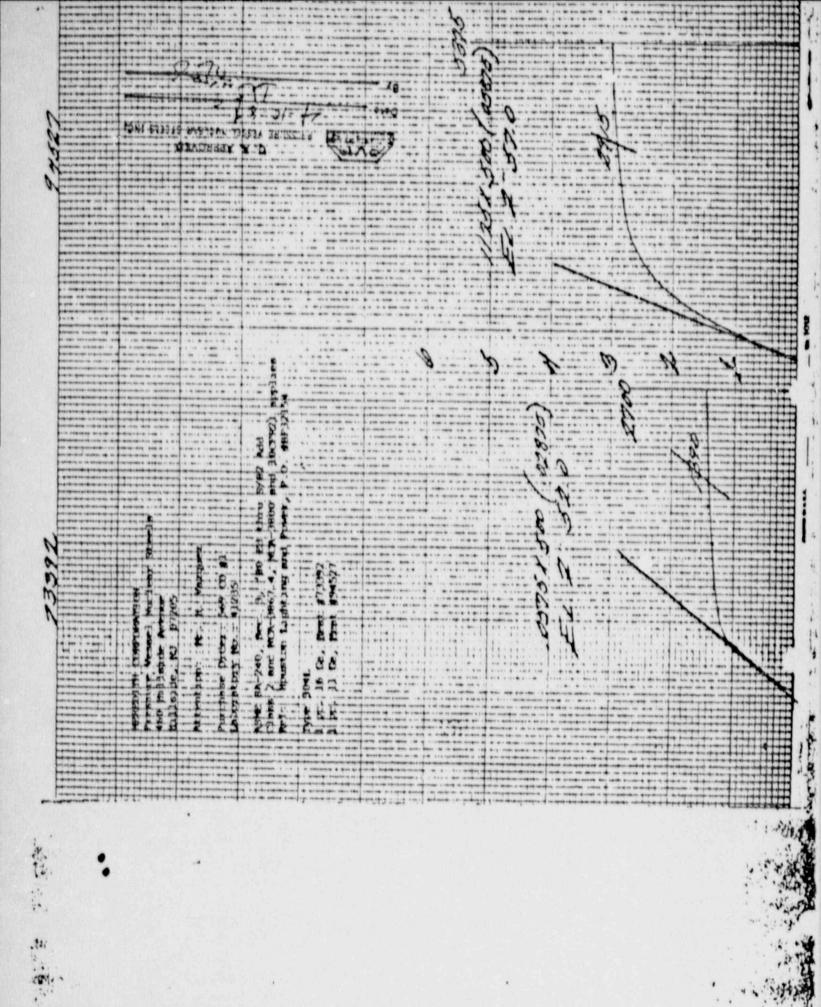
mples returned upon request only. Held for a period of 30 ys maximum. The ability of this laboratory relative to s report shall not exceed the amount of the invoice.



Quality Assurance Inspection System complies with MII .- 1-45208 A. ASTM E-518, and ASM, Sec. 111, Par. NCA-4000.

We certify this is a true report of results obtained from our lests of this material.

H. C. SCHANCK, DIRECTOR









(201) 752-1400

SPECTRUM LABORATORIES INC. 524 PELHAM AVE

PISCATAWAY, NEW JERSEY 08854

PHYSICAL TESTING

REPORT OF CHEMICAL TESTS

EDITH CORPORATION ssure Vessel Nuclear Steels Hillside Avenue laide, New Jersey 07205

Date

April 8, 1987

Laboratory No.

41235

marked P.O. #569 CO #1

ention: Mr. Hamilton Vazquez Sample Sample Sample Sample T304L nt 73392 94527 Requirements* 8.98 8.61 8.00 - 12.00 horus 0.026 0.024 0.045 max. iony num esium anese 1.92 1.81 2.00 max. um 0.62 0.67 1.00 max. nium 18.94 18.89 18.00 - 20.00 0.018 0.012 0.030 max. 0.013 0.021 0.030 max. denum shium + lum lium iten 0.100 0.10 max. rogen 0.086

Sample Description ASME SA-240, Sec. 3 '80 Ed. thru S/82 Add. Cl. 2 & NCA3867.4 NCA-3800 & locFR21 applies 1 pc. 16 ga, 304L, Heat #73392 1 pc. 11 ca, 304L, Heat #94527 Ref. Houston Lighting & Power #BF321 Less Method Mfr. LTV

> X-Ray Diffraction X-Rey Fluorescent I mission Spectro (Vacuum) XXX Fmianios Spectro (Air) Set Chemistry XXX Atomic Absorption Infared Can Chromatography

*SA240

The samples trated in this report were calibrated by use of

National Hurcau of Standarde No's. 845/849 ASTM Test Method: " E353, E322, E415

Matrix Method: Wrought O. A. APPROVED THE NICLEAR STEELS INC.

Quality Assurance Inspection System somplies will MII -1-45208 A. ASTM E-348, and ANII. Sec. 111. Par. NCA-4000.

We certify this is a true report of results obtained from our texts of this material.

Harold C. Schamb Director

Carrett C. Schanck

Director
Samples returned upon request only. Held for a period of 30 days maximum. The liability of this laboratory relative to this report shall not exceed the amount of the invoice.

524 PELHAM AVE

PISCATAWAY, NEW JERSEY DASSA

(201) 752-1400

REPORT OF CHEMICAL TESTS

MEREDITH CORPORATION Pressure Vessel Nuclear Steels 460 Hillside Avenue Hillside, New Jersey

April 10, 1987

Laboratory No.2 41254

Sample Description: ASME SA-240,

marked

P.O. #569

	Sample	Sample	Sample San	nple
Element	15661		Requirements	
Copper	-			
Tin				
Lead				
Zinc				
1 1	10.41		10.00 - 14.0	00
Iron				
Phosphorus	0.017		0.045 max.	
Antimony				
Aluminum				
Magnesium				
Manganese	1.65		2.00 max.	
Titanium				
Si son	0.67		1.00 max.	
Chromium	16.85		16.00 - 18.0	0
Sulfur	0.009		0.030 max.	
Carbon	0.015	************	0.030 max.	, ,
Cobali				1
Molybdenum	2.11		2.00 - 8.00	
Columbium + Tantalum				
Vanadium		-		
Tungsten				
Nitrogen	.061		0.10 max.	100 810-0

1980 Ed. S'82 Add., Cl. 2, NCA-3867. NCA-3800 and 10CFR21 applies, Ref: Houston Lighting and Power BF32154 1 pc. 3/8" thick, 316L, Heat #15661 Test Method X-Hey Diffraction

A-Hay Fluorescent XXX Emission Spectro (Versum) XXX I mission Spectro (Air) Wet Chemistry XXX Atomic Absorption Infared tion Chromatography

The samples tested in this report were calibrated by use of

National Hureau of Standards No's. 845/849

ASTM Text Method:_

E353, E415, E.

Mairix Methodi.

Wrought

O. A. APPROVED

PRESSURE ACTED CHAN STEELS INC.

Quality Assurance Inspection System complies with MIL .- 1-45208A, ASTM F .-548, and ASME Sec. 111, Par. NCA-4000.

We certify this is a true report of results obtained from our tests of this material

Harald C. Schanck

Director

Metallurgist

Samples returned upon request only. Held for a period of 30 days maximum. The liability of this laboratory relative to this report shall not exceed the amount of the invoice.



CORROSION & METALLURGICAL TESTING PROFESSIONAL ENGINEERING









(201) 752-1400

SPECTRUM LABORATORIES INC. 524 PELHAM AVE.

PISCATAWAY, NEW JERSEY 08854

PHYSICAL TESTING

REPORT OF CHEMICAL TESTS

MEREDITH CORPORATION Pressure Vessel Nuclear Steels 460 Hillside Avenue Hillside, New Jersey 07205

Date April 10, 1987

Laboratory No.

41254

	Sample	Sample	Sample	Sample	Sample Description ASME SA-240, Sec. :
Element	34943	051151P	Requirer	ments	1980 Ed. S'82 Add., Cl. 2, NCA-3
Copper			To the State of th	1	NCA-3800 and 10CFR21 applies, Re- Houston Lighting and Power BF321
	-	-	-	-	1 pc. 3/8" thick, 304L, Ht. #349
Tin				-	Test Method
Leed	The same of the same and the same and				N-Rey Diffraction
Zine		I I I I			N-Hay Fluorescent XXX Emission Spectro (Vacuum) XXX
Nickel	8.94	0 67	0.00	12.00	Emission Spectro (Air)
	8.94	8.57	8.00 -	12.00	Atomic Absorption
Iron	A definition of the second second second				Infered
Phosphorus	0.013	0.010	0.045 m	ax.	Can Chromatography
Antimony					
uminum					The samples tested in this report were calibrated by us
Magnesium					Netional Hurnau of Standards No's. 845-849
Manganese	1.56	1.78	2.00 ma	×.	15711 Tost Notified E322, E415, E353
Titanium					Maries Method: Wrought
S. in	0.56	0.42	1.00 ma	×.	O. A. APPROVED PRESSURE VESSEL NUCLEAR STEELS INC.
Chromium	18.91	19.25	18.00 -	20.00	Date 4-10.67
Sulfur	0.011	0.002	0.030 m	ax.	Quality Assurance Inspection System
Carbon	0.021	0.020	0.030 m	ax.	548, and ANII Sec. 111, Par. NCA-4000.
Cobali					Re certify this is a true report of results obtained
Molybdenum					from our tests of this material.
Columbium + Tantalum					SPECTRUM LABORATORIESANDA
Vanadium				The second second second	Al A Short
Tungsten					Harold C. Schanck Carrett C. Sch
Nitrogen	0.096	0.085	0.10 ma	×.	Samples returned upon request only. Held for a period of days maximum. The liability of this laboratory relative to report shall not exceed the amount of the invoice.

CORROSION & METALLURGICAL TESTING PROFESSIONAL ENGINEERING











524 PELHAM AVE.

PISCATAWAY, NEW JERSEY 08854

ADSION TESTING
SICAL TESTING
HECHANICAL TESTING
HEMICAL ANALYSIS
LITRASONIC INSPECTION

(201) 752-1400

PINE	Q. A. APPROVED
ter bert i tag	PRESSURE VESSEL NUCLEAR STEELS ING
Date	4-10:37
2.1	-0

METALLURGICAL TESTING PROFESSIONAL ENGINEERING NON-DESTRUCTIVE TESTING FIELD TESTING MASS SPECTROMETER

MEREDITH CORPORATION Pressure Vessel Nuclear Steels 460 Hillside Avenue Hillside, New Jersey 07205

Attention: Mr. Hamilton Vazquez

REPORT OF MECHANICAL TESTS

DATE ______ April 7, 19 87

ORDER No. _____ P.O. #569 CO #1

LABORATORY No. _____ 41235

The following results were obtained from our tests of this material.

Marked as follows Ref: Houston Lighting & Power #BF32154, Mfr. LTV

1 pc. 16 ga, 316L, Heat #94507

1 pc. 11 ga, 316L, Heat #E52636

Area	Yield Load	Yield Strength pai 2% offset	Tensile Load *	Tensile Strength	% EL. 2"	R. A. S
.030	1,250	41,667	2,490	83,000	48.0	
.0580	2,800	48,275	4,720	61,379	56.0	
	.030	.030 1,250	.030 1,250 41,667	.030 1,250 41,667 2,490	.030 1,250 41,667 2,490 83,000	.030 1,250 41,667 2,490 83,000 48.0

T PHOCEDURE -

194507 - .060 x .500

ple Size #E52636 - .116 x .500

in Rate _____ 0001 ____ in/in. per min.

ss Strain Diagram Reference 41235

Specification - ISTM + -B

JARATION PROCEDERS :-

I Instrument ____SATEC

bration Date 5-7-86 coordance with ASTM E-4.

nsummer MAIR S/N 851

ndence with 157111 - 83

ples returned upch requestionly. Held for a period of 30 s maximum. The ability of this laboratory relative to report shall not exceed the amount of the invoice.



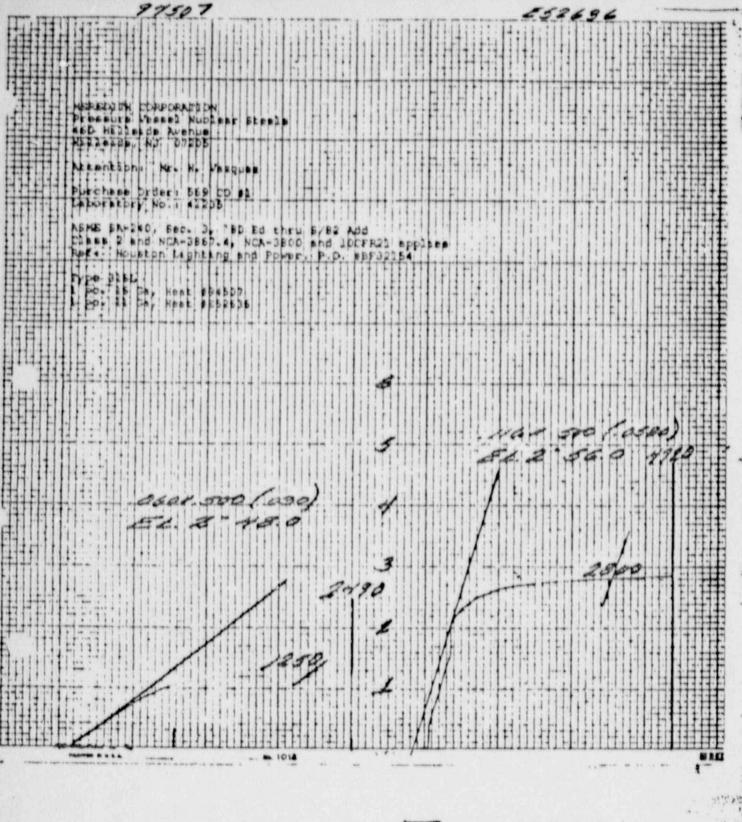
Quality Assurance Inspection System complies with MIL-1-45208 A. ASTM E-548, and ASME. Sec. 111, Par. NCA-4000.

We certify this is a true report of results obtained from our tests of this material.

SPECTRUM LABORATORIES INC.

Harald blokanak

H. C. SCHANCK, DIRECTOR



AVA	Q. X. APPROVED
E-TO 1 ACC MANAGEMENT	PRESSURE VESSEL NUCLEAR STEELS INC.
Date	4-10:07
Ву	110









PISCATAWAY, NEW JERSEY 08854

PHYSICAL TESTING

MASS SPECTROMETER

(201) 752-1400

REPORT OF CHEMICAL TESTS

Pressure Vessel Nuclear Steels 460 Hillside Avenue Hillside, New Jersey 07205

Date

Laboratory No.

41235

marked P.O. #569 CO #1

	Sample	Hamilton Sample	Sample Samp
Element	94507	E52636	T316L Requirements
Copper			
Tin			
Lead			
Zine			
Nickel	10.3.	11.22	10.00 - 14.0
Iron			
Phosphorus	0.030	0.327	0.045 max.
Antimony			
uminum			
Magnesium			
Manganese	1.87	1.86	2.00 max.
Titanium			
si. n	0.49	0.64	1.00 max.
Chromium	16.68	17.13	16.00 - 18.00
Sulfur	0.010	0.018	0.030 max.
Carbon	0.011	0.023	0.030 max.
Cobalt			
Molybdenum	2.02	2.01	2.00 - 3.00
olumbium +			
anadium			
ungsten			
vitrogen	0.043	0.030	0.10 max.

Sample Description ASME SA-240, Sec. 3 '80 Ed. thru S/82 Add. Cl. 2 6 NCA3867.4 NCA-3800 6 10CFR21 applies 1 pc. 16 ga, 316L, Heat #94507 1 pc. 11 ga, 316L, Heat #E52636 Ref. Houston Lighting 6 Power #BF321:

X-Rey Diffraction

X-Rey Fluorencent XXX
Emission Spectro (Vecuum) XXX
I mission Spectro (Air)

Let Chemistry XXX
Atomic Absorption
Infered

Ges Chromatography

*SA240

The samples tested in this report were calibrated by use of

ANTIN Test Method: E353, E322, E415

Matrix Method: Wrought

4.10.81 1000 mg

Quality Assurance Inspection System complies with VIII.-1-45208 A. ASTM E-518, and ASMI. Sec. 111, Par. NCA-4000.

We certify this is a true report of results obtained from our tests of this material.

SPECTRUM LABORATORIES INC.

Harold L. Schanck

Metallurgist

Samples returned upon request only. Held for a period of 30 days maximum. The liability of this laboratory relative to this report shall not exceed the amount of the invoice.











524 PELHAM AVE.

PISCATAWAY, NEW JERSEY 08854

PROSION TESTING

(201) 752-1400

DVR.	PRESSURE VESSEL NUCLEAR STEELS ING
Date	4 -10.87
Rv	-12

METALLURGICAL TESTING PROFESSIONAL ENGINEERING NON-DESTRUCTIVE TESTING FIELD TESTING MASS SPECTROMETER

MEREDITH CORPORATION Pressure Vessel Nuclear Steels 460 Hillside Avenue Hillside, New Jersey 07205

Attention: Mr. Hamilton Vazquez

REPORT OF MECHANICAL TESTS

DATE: April 9, 1987

ORDER No. P.O. #569

LABORATORY No. 41254

The following results were obtained from our tests of this material.

Type of sample submitte	THE PARTY OF THE P
Marked as follows	and NCA-3867.4, NCA-3800 and 10CFR21 applies Ref: Houston Lighting & Power BF32154
	1 pc. 3/8" thick, 304L, Heat #34943
	1 pc. 3/8" thick, 316L, Heat #15661
	1 pc. 1/2" thick, 304L, Heat #051151P

Sample No.	Arre	Yield Load lhs.	Yield Strength pai 2% offset	Tensile Load	Tensile Strength	% EL. 2"	R. A. S
31043	.2342	11,200	47,822	19,900	84,970	62.0	
15661	.2331	11,800	50,622	19,800	84,942	58.0	
051151P	.3044	14,250	46,813	26,200	86,071	66.0	

T PHOCEDURE: #34943 - .596 x .393
#15661 - .590 x .395
ple Size #051151P - .591 x .515
in Rate #0001 in/in. per min.
sa Strain Diagram Reference 41254
i Specification - ASTM E-8

Quality Assurance Inspection System complies with MIL-I-45208 A, ASTM E-548, and ASME Sec. 111, Par. NCA-4000.

We certify this is a true report of results obtained from our tests of this material.

IBRATION PROCEDURE:-

Instrument SATEC

cordence with ASTM E-4.

nsometer MAIB S/N 851

ordence with ASTM E-83

ples returned upon request only. Held for a period of 30 s maximum. The liability of this laboratory relative to report shall not exceed the amount of the invoice.

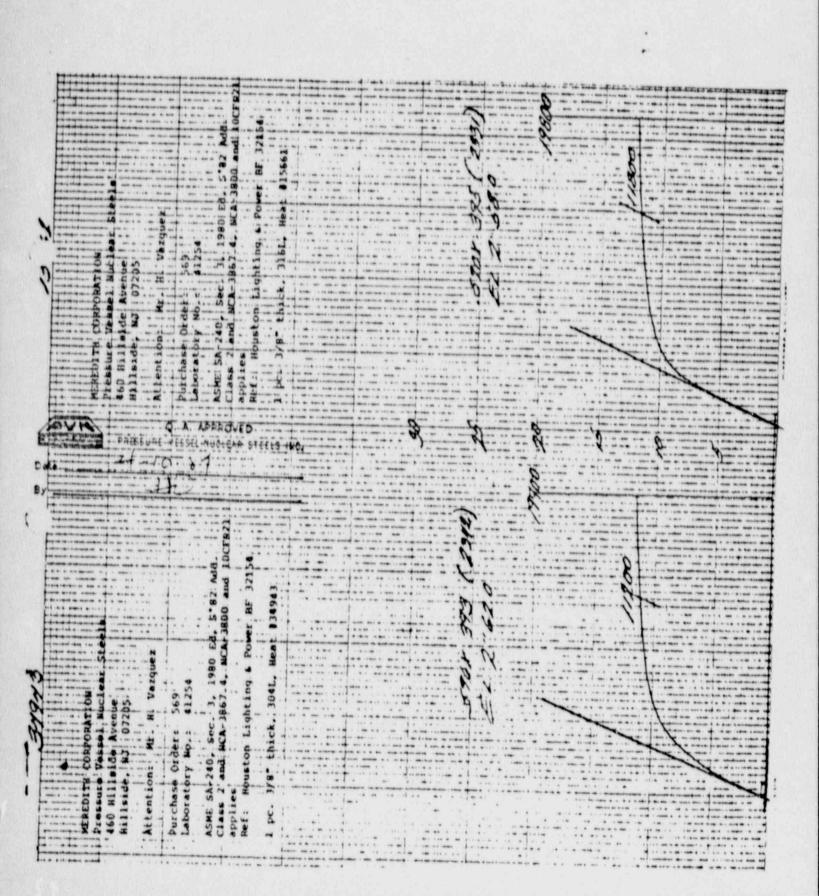


SPECTRUM LABORATORIES INC.

Baraldlehanek

II. C. SCHANCK, DIRECTOR

05115110 MEREDITH CORPORATION
Presspre Vessel Ruclear
Abb Hillside Avenue
Hillside, No preps Verquer Purchase progratical No. : ASME SA-240, Sec. 3, 1980 Ed. 5'82 And Class 2 and NCA-3867.4, NCA-3800 and locre21 applies
Ref: Houston Lighting 6 Power BF 32154 1 pc. 1/2" thick, bost, Heat *0511511









524 PELHAM AVE.

PISCATAWAY, NEW JERSEY 08854

(201) 752-1400

SICAL TESTING CHANCAL TESTING CHEMICAL ANALYSIS ULTRASONIC INSPECTION

METALLURGICAL TESTING PROFESSIONAL ENGINEERING NON-DESTRUCTIVE TESTING FIELD TESTING MASS SPECTROMETER

MEREDITH CORPORATION Pressure Vessel Nuclear Steels 460 Hillside Avenue Hillside, NJ 07205

Attention: Mr. U. Vazquez

REPORT	OF	MECHA	NICAL	TESTS
--------	----	-------	-------	-------

DATE	April 16,	19 87
ORDER No.	1569	
LABORATORY No.	41300	
CORRECTED	COPY	

The following results were obtained from our tests of this material.

Type of sample submitted	ASME	SA-240,	316L, Sec	. 3, '80	Ed. th	ru 5'82 Add.
Marked as follows	Class	2 and N	CA-3867.4	, NCA-380	0 6 10	CFR21 applies
	Rafi	Houston	Lighting	& Power	BP3215	•
	1 pc.	1/2° th	ick Plate	, Heat \$1	07032F	

Sample No.	Area	Yarld Load lbs.	Yield Strongth per 2% offset	Tensile Load >	Tenucle Strength	% EL. 2"	H. A. 1
107032F	. 2342	11,650	49,745	21,500	91,800	63.0	
				An parson	Q. A. APPR " . D	1.	
				4-	1841		
	1				10		

TEST PROCEDURY :-

Test Specification - ASTM F-8
ALBERTION PROCEDURE:

Cout Instrument SATEC
Colibration Date 5-7-86
In accord Account ANTALL.
Catensumeter MALB S/N 851

cordence with ANIMI - HI

Samples returned .pon request only. Held for a period of 30 days maximum. The habitity of this taboratory relative to this report shall not exceed the amount of the invoice.



Quality Assurance Inspection System complies with MIL-1-45208 A, ASTM E-548, and ASMI: Sec. 111, Par. NCA-4000.

We certify this is a true report of results obtains from our tests of this material.

SPECTRUM LABORATORIES INC.

Bauld le harek

H. C. SCHANCK, DIRECTOR











SPECTRUM LABORATORIES INC .-524 PELHAM AVE.

PISCATAWAY, NEW JERSEY 08854

(201) 752-1400

REPORT OF CHEMICAL TESTS

EREDITH CORPORATION Pressure Vessel Nuclear Steels 460 Hillside Avenue Hillside, New Jersey 07205

April 23, 1987 CORRECTED COPY300-2

Sample Description ASME SA-240 216: Car

marked

P.O. #569

	Sample	Sample	Sample Sample		
Element	107032F		TB16L		
- Lienen	10/0321		Requirements		
Copper	4				
Tin					
Lead	4				
<u>z</u>			1782		
Nickel	11.11		10.00 - 14.00		
Iron					
Phosphorus	0.036		0.045 max.		
Antimony					
aminum					
Magnesium					
Manganese	1.68		2.00 max.		
T/ · · · · · · · · ·					
Silicon	0.59		1.00 max.		
Chromium	17.29		16.00 - 18.00		
Sulfur	0.006		0.030 max.		
Carbon	0.028		0.030 max.		
Cubalt					
Molybdenum	2.13		2.00 - 3.00		
olumbium + antalum					
Vanadium					
Cungsten					
witrogen	0.056		0.10 max.		

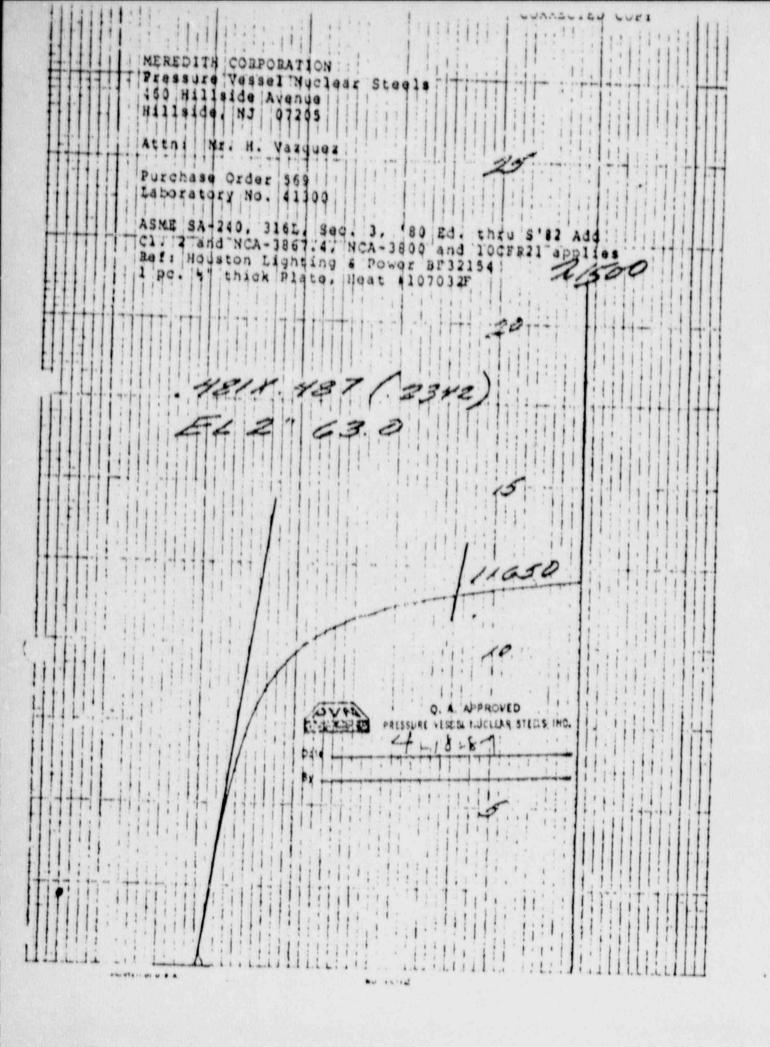
3, '80 Ed.	thru 5'82 /	Add, Cl.	2 and
NCA-3867.4, Ref: Housto 1 pc. 1/2"	n Lighting	& Power	BF3215
Test Method	LILLYN I HEAT	. 110/032	
	Diffraction		
	luorescent	XXX	
	Spectro (Vacuum) Spectro (Air)	xxx	
tet Cher			
	bsorption		
Infered			
Gas Chro	matraphy		
National Hurrar of		845-8	149
Matrix Method:	Wro	ught	
	Q. A. APPROV		
Ву) y		
Quality Assura	nce Inspection Sy	stem	
complies with 1	11111-45208 A.	ASTM E-	
548, and ASME.	Sec. III. Par. N	CA-4000.	
We certify this from our tests o	is a true report of f this material.	results obtain	ed
SPECTAL	UM LABORATO	200000	
SPECIAL	IM LABORATO	KIES JAGE	1

Harold C. Schanck Director

Carrett C. Schanck

Samples returned upon request only. Held for a period of 30 days maximum. The liability of this laboratory relative to this report shall not exceed the amount of the invoice.















(201) 752-1400

SPECTRUM LABORATORIES INC. 524 PELHAM AVE.

PISCATAWAY, NEW JERSEY 08854

MECHANICAL TESTING

REPORT OF CHEMICAL TESTS

EREDITH CORPORATION Pressure Vessel Nuclear Steels 460 Hillside Avenue Hillside, New Jersey 07205

April 16, 1987

Laboratory No.

41296

Sample Description ASME SA-240, 304L, Sec.

marked

P.O. 4569

Attentio	Sample	. Vazque Sample		Sample	-
Element			T304L		
Liement	94921		Requir	ements	
Copper	1				
Tin					
Lead					
Zir.					
Nickel	8.80		8.00 -	12.00	
Iron					
Phosphorus	0.015		0.045	max.	
Antimony					
uminum					-
Magnesium					-
Manganese	1.73		2.00 ma	x.	
Titanium				1	
Silicon	0.67		1.00 ma	x.	
Chromium	19.03		18.00 -	20.00	
Sulfur	0.020		0.030ma	×.	
Carbon	0.024		0.030 m	ax.	
Cobalt					
Molybdenum	PVI		A. APPROV	ED Laines No.	
Columbium + Fantalum	B.10.	4/2//	27		
Vanadium	Ву	上上			•
Tungsten					
Nitrogen	0.064		.10 max		

3, '80 Ed, thru S'82 Add, Cl. 2 and NCA-3867.4, NCA-3800 and 100FR21 applies, Ref: Houston Lighting & Powe BF32154, Mfr. J&L Mfg. 1 pc. 4" thick, Heat #94921 Test Method X-Ray Diffraction

1-Ray Fluorescent XXX Emission Spectro (Vacuum) XXX I mission Spectro (Air) Set Chemistry XXX Stumic Absorption Infamed Ges Chromatography

The samples tested in this report were calibrated by use of

Naturnal Hurrau of Standards No's.___ 845-849

ASTM Test Method: _____ E353, E322, E415

Metrix Method:__ Wrought

Quality Assurance Inspection System complies with MII -1-45208 A. ASTM E-518, and A-M. Sec. 111, Par. NCA-4000.

We certify this is a true report of results obtained from our tests of this meterial.

SPECTRUM LABORATOR

Harold C. Schanck Director

Carnett C. Schanck

Samples returned upon request only. Held for a period of 30 days maximum. The liability of this laboratory relative to this report shall not exceed the amount of the invoice.











SPECTRUM LABORATORIES INC.

524 PELHAM AVE.

PISCATAWAY, NEW JERSEY 08854

(201) 752-1400

MEREDITH CORPORATION Pressure Vessel Maclear Steels 460 Hillside Avenue Hills de, New Jersey 07205

Attention: Mr. H. Vazquez

REPORT OF MECHANICAL TESTS

DATE April 16, 19 87 ORDER No. #569 LABORATORY No. 41296

The following results were obtained from our tests of this material.

Type of sample sollmand NOVE CA 240

		DE DE-6401 304	Li sec. 31	80 Ed, thru	S'82 Ad	ld
Marked as foll	ons C1	ass 2 and NCA-	3867.4, NCA-	3800 & 10CFF	21 appl	ies
	Re	f: Houston Li	ghting & Pow	er BF32154		
	1	pc. h" thick P	late, Heat #	94921		
	Mf	. J & L Mfg.				
Area	Yield Load	Yield Strength per	Tensile Load	Tensile Strength	% EL. 2"	R. A

Sample No.	Area	Yield Load	Yield Strength par .2% offset	Tensile Load *	Tensile Strength	% EL. 2"	R. A. 5
₹~e	.121	7,470	61,735	11,120	91,900	38.0	

ST PHOCEDURE :-

at Instrument ...

uple Size . 480 x . 252 ain Rate ____ 0001 ___in/in. pre min. ess Strain Diagram Heference 41296 Quality Assurance Inspection System complies with MIL-1-45208 A. ASTM E-518, and ASME Sec. 111, Par. NCA-4000.

We certify this is a true report of results obtained from our tests of this material. ATTIS INC.

- I Specification - INTM F -8 LIBRATION PROCEDURE:-

SPECTRUM LABORATORIES INC.

libration Date_ 5-7-83 iccordance with 4-TH F-4. enwometer__ MA1B S/N 851

SATEC

rdance with A-TM 1-83

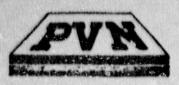
oples returned usin requestionly. Held for a period of 30 is maximum. The lability of this laboratory relative to s report shall not exceed the amount of the invoice.



H. C. SCHANCK, DIRECTOR

11		
Ш	MEREDITH CORPORATION Pressure Vocal Nuclear Stuels 460 Hillside Avenue	
	Hillside, NJ 07205	
	Purchase Order: 569	
	Laboratory No.: 41296	
	ASME SA-240, 3041. Sec. 3, 80 Ld. thru S'82 Aud C2. 2 and NCA-3867.4, NCA-3800 & 10CFR21 applies	
j4/	1 pc. 1" thick Plate, Heat #94921	
	160x 252 (121) 8 EL. 2 38.0 ando	
	EL. 2:38.0 ando	
111		
4111		
1117	PRESSURE VESSEL NUCLEAR STEELS INC	
	111111111111111111111111111111111111111	
111:1		
10 12	Rows Gauge #1	

×



PRESSURE VESSEL-NUCLEAR STEELS

460 Hillaide Avenue, Hillaide, N. J. 07205-1187 . (201) 964-5300

CUSTOMER: BEDITE, ENERGY CORP. DATE: AFRIL 10, 1987

ACENT FOR HOUSTON LIGHTING & POWER CO.

ADDRESS:

PROJECT MANAGER P.C. BOX 15

BAY CITY, TX 77414

CERTIFICATE OF CONFORMANCE

WE CERTIFY TEAT THE MATERIAL SUPPLIED AGAINST YOUR ORDER NUMBER BF-32154 AND OUR REFERENCE NUMBER 01095 MEETS OR EXCEEDS THE REQUIREMENTS OF YOUR PURCHASE ORDER AS EVIDENCED BY THE ATTACHED COPIES OF THE PRODUCER'S TEST REPORTS. ALL MATERIALS ARE SUPPLIED IN ACCORDANCE WITH OUR QUALITY ASSURANCE PROGRAM COVERED BY A.S.M.E. CERTIFICATION NUMBER QCC-366, EXPIRATION DATE MARCH 5, 1988.

ASTE SA 240 TYE 304L STAINLESS STEEL SECTION III 1980 EDITION THRU SUMMER 192 ADDENDA CLASS 2 :: CA3800 & BCFE21 APPLY L'PGRADED STOCK

NFG.: J&L SPEIALTY PRODUCTS

2 PCS. 8' x 4" x 1/4" HEAT # 94921

UPGRADE TESTING PERFORMED BY SPECTRUM LABORITRIES.

NO WELD REPAIR PRITTED ON THIS MATERIAL

MEREDITH CORPORATION PRESSURE VESSEL NUCLEAR STEELS

HAMILTON VAZQUEZ VICE PRESIDENT-QUALITY ASSURANCE

ASME SA 240 TYPE 316L STAINLESS STEEL SECTION III 1980 EDITION THRU SUMMER 1982 ADDENDA CLASS 2 NCA3800 & 10CFR21 APPLY UPGRADED STOCK

MFG.: ELECTRALLOY CORPORATION 2 PCS. 8' x 4' x 1/2" HEAT # 10703-2F



PRESSURE VESSEL-NUCLEAR STEELS

CUSTOMER: BECHTEL ENERGY CORP.

DATE: MARCH 20, 1987

AGENT FOR HOUSTON LIGHTING & POWER CO.

ADDRESS:

...

PROJECT MANAGER P.O. BOX 15

BAY CITY, TX 77414

"REVISED COPY - 3/26/87"
CERTIFICATE OF CONFORMANCE

WE CERTIFY THAT THE MATERIAL SUPPLIED AGAINST YOUR ORDER NUMBER

BF-32154 AND OUR REFERENCE NUMBER 01095 MEETS OR EXCEEDS

THE REQUIREMENTS OF YOUR PURCHASE ORDER AS EVIDENCED BY THE

ATTACHED COPIES OF THE PRODUCER'S TEST REPORTS. ALL MATERIALS

ARE SUPPLIED IN ACCORDANCE WITH OUR QUALITY ASSURANCE PROGRAM

COVERED BY A.S.M.E. CERTIFICATION NUMBER QSC-366, EXPIRATION

DATE MARCH 5, 1988.

ASVE SA 240 TYPE 316L STAINLESS STEEL SECTION III 1980 EDITION THRU SUMMER 1982 ADDENDA CLASS 2 NCA 3800 & 10CFR21 APPLY UPGRADED STOCK

MFG.: ALLEGHANY LUDIUM COATESVILLE, PA

1 PC. 1/4" x 8' x 4' HEAT # 894457

UPGRADE TESTING PERFORMED BY SPECTRUM LABORATORIES. MEREDITH CORPORATION PRESSURE VESSEL NUCLEAR STEELS

HAMILTON VAZQUEZ

VICE PRESIDENT-QUALITY ASSURANCE



PRESSURE VESSEL-NUCLEAR STEELS

PAGE 1 OF 2

CUSTOMER:

BECHTEL ENERGY CORP.

DATE: APRIL 10, 1987

AGENT FOR HOUSTON LIGHTING & POWER CO.

ADDRESS:

PROJECT MANAGER

P.O. BOX 15

BAY CITY, TX 77414

CERTIFICATE OF CONFORMANCE

WE CERTIFY THAT THE MATERIAL SUPPLIED AGAINST YOUR ORDER NUMBER

BF-32154 AND OUR REFERENCE NUMBER 01095 MEETS OR EXCEEDS

THE REQUIREMENTS OF YOUR PURCHASE ORDER AS EVIDENCED BY THE

ATTACHED COPIES OF THE PRODUCER'S TEST REPORTS. ALL MATERIALS

ARE SUPPLIED IN ACCORDANCE WITH OUR QUALITY ASSURANCE PROGRAM

COVERED BY A.S.M.E. CERTIFICATION NUMBER QSC-366, EXPIRATION

DATE MARCH 5, 1988.

ASME SA 240 TYPE 304L STAINLESS STEEL SECTION III 1980 EDITION THRU SUMMER 1982 ADDENDA CLASS 2 NCA3800 & 10CFR21 APPLY UPGRIDED STOCK

MFG.: JESSOP STEEL

-2 PCS. 8' x 4' x 3/8" HEAT # 34943

. MFG.: ALLEGHANY LUDIUM

-2 PCS. 8' x 4' x 1/2" HEAT # 051151P MEREDITH CORPORATION
PRESSURE VESSEL NUCLEAR STEELS

HAMILTON VAZQUEZ

VICE PRESIDENT-QUALITY ASSURANCE

MFG.: LTV STEEL

-2 PCS. 8' x 4' x 1/16" HEAT # 73392

- 2 PCS. 8' x 4' x 1/8" HEAT * 94527

*UPGRADE TESTING PERFORMED BY SPECTRUM LABORATORIES.

NO WILD REPAIR PERFORMED ON THIS MATERIAL.



PRESSURE VESSEL-NUCLEAR STEELS 460 Hillside Avenue, Hillside, N. J. 07205-1167 . (201) 964-5300

PAGE 2 OF 2

CUSTOMER: BECHTEL ENERGY CORP.

DATE: APRIL 10, 1987

AGENT FOR HOUSTON LIGHTING & POWER CO.

ADDRESS:

PROJECT MANAGER

P.O. BOX 15

BAY CITY, TX 77414

CERTIFICATE OF CONFORMANCE

WE CERTIFY THAT THE MATERIAL SUPPLIED AGAINST YOUR ORDER NUMBER BF-32154 AND OUR REFERENCE NUMBER 01095 MEETS OR EXCEEDS THE REQUIREMENTS OF YOUR PURCHASE ORDER AS EVIDENCED BY THE ATTACHED COPIES OF THE PRODUCER'S TEST REPORTS. ALL MATERIALS ARE SUPPLIED IN ACCORDANCE WITH OUR QUALITY ASSURANCE PROGRAM COVERED BY A.S.M.E. CERTIFICATION NUMBER QSC-366; EXPIRATION DATE MARCH 5, 1988.

ASME SA 240 TYPE 316L STAINLESS STEEL SECTION III 1980 EDITION THRU SUMMER 1982 ADDEDIDA CLASS 2 NCA3800 & 10CFR21 APPLY UPGRADED STOCK

MFG.: LTV STEEL

2 PCS. 8' x 4' x 1/16" HEAT # 94507

√2 PCS. 8' x 4' x 1/8" HEAT # E52636

MEREDITH CORPORATION PRESSURE VESSEL NUCLEAR STEELS

HAMILTON VAZQUEZ

VICE PRESIDENT-QUALITY ASSURANCE

MFG .: JESSOP STEEL

. 2 PCS. 8' x 4' x 3/8" HEAT # 15661

UPGRADE TESTING PERFORMED BY SPECTRUM LABORATORIES.

NO WELD REPAIR PERFORMED ON THIS MATERIAL.



PRESSURE VESSEL - NUCLEAR ST

LSIDE AVENUE, HILLSIDE, N.J. 07206 (201) 964-5300 TELECOPY (201) 964-5306

Collect

PURCHASE ORDER

American Tank & Fau. 12314 Elmwood Avenue Claveland, Ohio 44111 Attention: Dave Hantz

Advste When Ready

1	PURCHASE ORDER DATE	ORDER NUMBER
1	7-6-27 1473	00734DJI
Ţ	TERMS	
1	1/2% Ten Net 30	
	SHIP VIA	
1	Truck	
I	FOO	
	Shipping Point	· · · · ·
	FREIGHT TERM	18
1		

PADE	RED UNIT	DESCRIPTION	COST	UNIT	REQUIRED
		ASME 516-70 NORMALIZED UT 435 100% SCAN NO WELD- REPAIR STATEMENT ON MILL T/R'S (BETH OR LUKENS PLATE OILY)			
3	pcs.	6" x 29 1/4" x 33 1/2"	\$1,013.00	EA.	
1	pc.	4" X 12" TEST SAMPLE OF EACH HEAT OF MATERIAL USED.	N/C		
1		NO WELD HEPAIR STATEMENTS	\$ 50.00 PET	HEAT	USED.
•		TWO (2) COPIES OF MILL T/R'S ATTENTION: DEAN LANZA			
		THE REPORTS ARE FURNISHED.			
			•		
					<i>\$</i>

Our Purchase Order Number must appear on all documents. Invoices, shipping notices and notarized test reports must be rendered in six copies or as otherwise specified sterials and aervice furnished on this order must be of the kind and quality specified ubject to our inspection and acceptance at destination. All rejected materials will will all for disposition, subject to shippers ripk and expense.

MEREDITH CORPORATION-PRESSURE VESSEL-NUCLEAR STEEL

Signeo !

SALES ORDER FILE

QUALITY ASSURANCE APPROVED_

Signed

PVN and or agent to have free access to vendor's or sub-vendor's plant or facility during the process of this order.



SPECTRUM LABORATORIES INC.

524 PELHAM AVE.

PISCATAWAY, NEW JERSEY 08854

MEREDITH CORPORATION Pressure Vessel Nuclear Steels 460 Hillside Avenue Hillside, New Jersey 07205

Attention: Mr. Hamilton Vazquez

REPORT OF MECHANICAL TES:3

DATE: August 11, ORDER No. ___ P.O. #00767 LABORATORY No. 41804

The following results were obtained from our tests of this material.

Type of sample submitted	1 pc. 6" x 4" x 12", Ht. #802T36840, Slab #\$10512
Marked as follows	Beth. Steel, SA516-70 MT Sec. II & III, 1974 Edition, No Addenda, NC
	Class 2 (NCA-3867.4(e) 1983 Edition)
	NCA-3800 & 10CFR21 applies

Sample No.	Ares	Yield Load lbs.	Yield Strongth pai .2% offset	Tensile Load	Tensile Strongth	% EL. 2"	R. A. S
B02T36840	.20	8,750	43,750	15,350	76,750	27.0	55.20
	an my inch	ipplied under a redith Corp. as it date 11-17-8	Quality Systems meeting the requ	Program, Rev. uirements of N	2 dtd 1-23-80 A-3800.		

. . .

ST PROCEDURE:-

nple Size ____ .505" Rd in/in. per min. ses Strain Diagram Reference. 41804 at Specification - ASTM E-8

LIBRATION PROCEDURE :-

SATEC at Instrument_ 5-2-87 ibration Date_ records new with ASTM F.- 1. ensometer_ MA1B S/N 851

Jance with ASTM F.-83

nples returned upon request only. Held for a period of 30 s maximum. The liability of this laboratory relative to s report shall not exceed the amount of the invoice.



Quality Assurance Inspection System complies with MII .- 1-45208 A, ASTM E-518, and ASME Sec. 111, Par. NCA-4000.

We certify this is a true report of results obtained from our tests of this material.

SPECTRUM LABORATORIES INC.

H. C. SCHANCK, DIRECTOR

(201) 752-1400

... UIII LAUVINAI UNILO IITU. 524 PELHAM AVE.

PISCATAWAY, NEW JERSEY 08854

MECHANICAL TESTING

REPORT OF CHEMICAL TESTS

REDITH CORPORATION .. essure Vessel Nuclear Steels 460 Hillside Avenue Hillside, New Jersey 07205

August 11, 1987

Laboratory No.

41804

marked

P.O. #00767

	Sample	Sample	Sample	Sample
Element	802T36840		Requireme	nts
Copper				
Tin				
Lead				
Zinc				
NIC.				
Iron				
Phosphorus	0.026		0.035 max	
Antimony				
ainum				
Magnesium				
Manganese	1.13		0.77 - 1.	30
Titanium				
Silicon	0.22		0.13 - 0.	45
Chromium				
Sulfur	0.016		0.04 max.	
Carbon	0.23		0.31 max.	
Cobell				
Molybdenum				
Columbium +				
Vanadium				
Tungsten •				

Sample Description: Sec. II & III, 1974 Ed No Add, NC Cl. 2 (NCA3867.4(e) 1983 Ed), NCA3800 & 10CFR21 applies 1 pc. 6" x 4" x 12", Ht. #802T36840 Slab #S10512, Beth. Steel SA516-70 MT

> X-Hey Diffraction X .- Hay Fluorescent I mission Spectro (Vacuum) XXX I mission Spectro (Air) Vot Chemistry Atomic Absorption Infured Can Chromatography

The samples tested in this report were calibrated by use of

National Hurrau of Standards No's. 1261-1265

ASTM Tent Method: _ E350, E415

Matrix Method:___ Wrought

This service was supplied under a Quality Systems Program, Rev. 2 dtd 1-23-30 as qualified by Meredith Corp. as meeting the requirements of NCA-3800. Meredith Corp. Audit date 11-17-86.

Quality Assurance Inspection System complies with MIL-1-45208 A. ASTM E-518, and ASME Sec. 111, Par. NCA-4000.

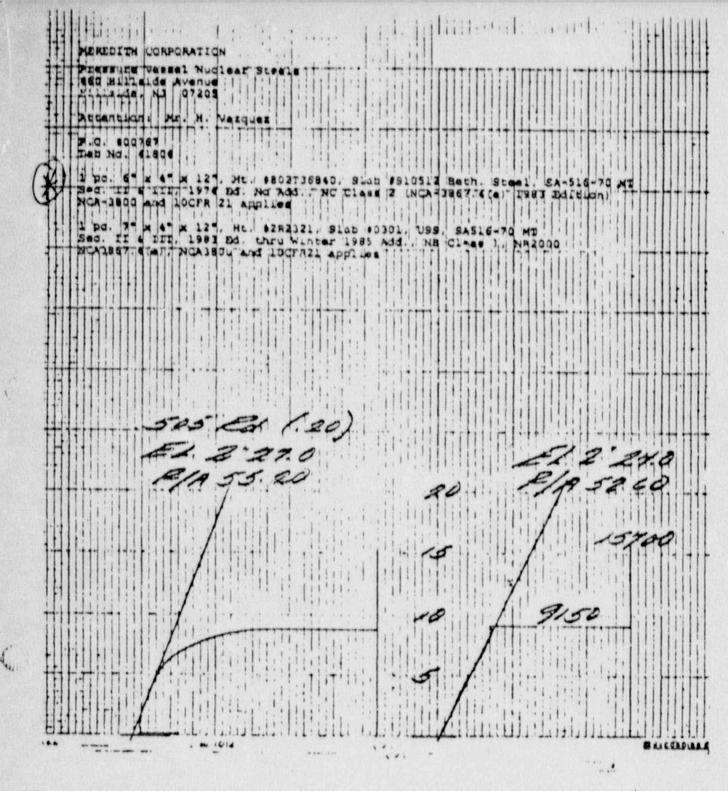
We certify this is a true report of results obtained from our tests of this material.

Harold C. Schunck Director

Metallurgist

Samples returned upon request only. Held for a period of 30 days maximum. The liability of this leboratory relative to this report shall not exceed the amount of the invoice.





Congdon & Carpenter

10 01473

0. A APPROVED

PHESSEURE VESSEL NUCLEAR STEELS INC.

Per. 6x29/4x33/2

Per. 6x29/4x33/2

Per. 6x29/4x33/2



August 4, 1987

Meredith Corporation Presure Vessel Nuclear 460 Hillside Avenue Hillside, New Jersey 07205

ATTENTION: Mr. Hamilton Vasquez

RE: Ultrasonic Inspection of Three Carbon Steel Plates

INTRODUCTION

Amspec Technical Services, Inc. was requested to preform an Ultrasonic Inspection of Three (3) carbon steel plates, in order to establish the possible presence of material defects due to manufacture. Material specifications and size are as follows; Size:6"X 291"X 335", Heat Number:802T36840, Slab Number:S10512, MFG:Beth, Grade: SA516-70 MT.

The above mentioned size and specifications apply to all three (3) plates.

The inspection was preformed at Meredith Corporation, Hillside, New Jersey, under purchase order #00768

TEST | ROCEDURE AND RESULTS

On August 3, 1987, an Ultrasonic Inspection was preformed on the above mentioned plates in accordance with: Section III 1974 Edition, No Addenda, NC Class 2, UT per SA435 100% Scan, NCA3800 & 10CFR21 Applies. The above mentioned code specifications were used in conjunction with AMSPEC-UT-1-86 procedure requirements.

A Krautkramer Branson sonoray Model USK-6 pulse echo sound generator along with a 2.25 MHz, I inch diameter straight beam transducer was used for the inspection.

Calibration of the inspection equipment was preformed in accordance with the requirements of the above mentioned codes and procedures.

The above mentioned plates were found to be ACCEPTABLE.

COMMENT

A verbal and written report was rendered to Meredith Corporation, on August 3,1987 by Jonathan P. Coulson, Level III of Amspec Technical Services, Inc.

Jonathan P. Coulson Jonathan B. Coulson Vice President/General Manager Amspec Technical Services, Inc.

JPC/tm



PRESSURE VESSEL-NUCLEAR STEELS 460 Hillaide Avenue, Hillaide, N J. 07205-1187 . (201) 964-5300

CUSTOMER: Congdon & Carpenter DATE: August 5, 1987

ADDRESS:

10 Tower Road Seekonk, MA 02771

Attn: Mr. Bill Hyde

"REVISED COPY - 8/11/87" CERTIFICATE OF CONFORMANCE

WE CERTIFY THAT THE MATERIAL SUPPLIED AGAINST YOUR ORDER NUMBER S 9805 AND OUR REFERENCE NUMBER 01473 MEETS OR EXCEEDS THE REQUIREMENTS OF YOUR PURCHASE ORDER AS EVIDENCED BY THE ATTACHED COPIES OF THE PRODUCER'S TEST REPORTS. ALL MATERIALS ARE SUPPLIED IN ACCORDANCE WITH OUR QUALITY ASSURANCE PROGRAM COVERED BY A.S.M.E. CERTIFICATION NUMBER QSC-366, EXPIRATION DATE MARCH 5, 1988.

. . .

ASME SA 516-70 NORMALIZED PRESSURE VESSEL PLATE SECTION III CLASS # 1974 EDITION NO ADDENDA U.T. A 435 100% SCAN USE BETH PLATE MAG PARTICLE

3 pcs 6 x 29 1/4 x 33 1/2

Heat #802T36840

. Mfg: Bethlehem Steel

MEREDITH CORP.

PRESSURE VESSEL NUCLEAR STEELS

HAMILTON VAZQUEZ VICE PRESIDENT - QUALITY ASSURANCE



QUALITY ASSURANCE MEMO

MEMO TO:

W.M. LANZA

DATE: SEPTEMBER 12, 1989

FROM:

H. VAZQUEZ

O.A. DEPARTMENT

SUBJECT:

UPGRADE TESTING REQUIREMENTS & DOCUMENT REVIEW

AS A RESULT OF THE NRC INSPECTION, WE HAVE REVIEWED THE PORTION OF THE Q.A. MANUAL AND STANDARD OPERATING PROCEDURES THAT PERTAIN TO THE ABOVE REFERENCED. IN ADDITION, ALL PVN EMPLOYEES WHO ARE INVOLVED IN PLACING AND FILLING PURCHASE ORDERS HAVE BEEN REQUIRED TO REVIEW ALL APPLICABLE DVN PROCEDURES AND ASME REQUIREMENTS WHICH GOVERN THE UPGRADING OF STOCK MATERIALS, AND HAVE BEEN REMINDED THAT ALL SUCH PROCEDURES AND REQUIREMENTS MUST BE FOLLOWED IN VERY CASE.

IN THE AREA OF DOCUMENT REVIEW, ALL PVN EMPLOYEES WHO ARE INVOLVED IN REQUESTING OR EVALUATING TEST RESULTS HAVE BEEN REMINDED THAT WITH RESPECT TO EVERY ORDER, THEY MUST CONFIRM (6) THAT APPROPRIATE ACCEPTANCE CRITERIA HAVE BEEN APPLIED IN PERFORMING TESTS AND IN EVALUATING TEST RESULTS, AND (b) THAT ALL REQUIRED TEST SPECIFICATIONS HAVE BEEN FOLLOWED.

. * .

PERSONNEL IN ATTENDANCE WERE THE FOLLOWING:

DIANE ROWE IRENE MAKKIS DEAN J. LANZA



QUALITY ASSURANCE MEMO

MEMO TO:

WILLIAM M. LANZA

DATE: SEPTEMBER 12: 1989

FROM:

HAMILTON VAZQUEZ

Q.A. DEPARTMENT '

SUBJECT:

NUCLEAR SALES ORDER FILES

A RESULT OF THE NRC INSPECTION, SOME FILES WERE FOUND NOT TO HAVE THE DOTS INDICATING NUCLEAR STATUS OF THE ORDER. AS A RESULT, THE FOLLOWING STEPS WERE TAKEN:

- EVERY FILE FOLDER FOR NUCLEAR AND NON-NUCLEAR ORDERS FROM 1983 THROUGH 1988 WAS REVIEWED TO CONFIRM THAT EVERY FILE CONTAINING A NUCLEAR ORDER CONTAINED A RED DOT.
- THE 'EW RED DOTS WHICH HAD APPARENTLY FALLEN OFF, APPROXIMATELY 8) 15, VERE REPLACED.
- ALL FOLDERS CONTAINING NUCLEAR ORDERS WERE PHYSICALLY SEPARATED FROM THE EQUIDERS CONTAINING NON NUCLEAR OPDERS AND WERE PLACED IN SEPARATE FILING CABINETS, WHICH ARE NOW DESIGNATED AS NUCLEAR ORDER CABINETS.

AS_A RESULT OF THIS REVIEW, PVN NOW HAS A REDUNDANT SYSTEM FOR DESIGNATING IDENTIFYING NUCLEAR ORDERS: THEY ARE COLOR CODED WITH RED DOTS, AND THEY STORED IN SEPARATE FILING CABINETS. PVN EMPLOYEES HAVE BEER TEATMED CONCERNING THE NEW FILING PROCEDURES FOR NUCLEAR CREEKS, AND PVN'S PROCEDURES WILL BE REVISED TO REFLECT THE NEW FILING SYSTEM.

PERSONNEL IN ATTENDANCE WERE THE FOLLOWING:

DIANE ROWE IRENE MAKRIS DEAN J. LANZA

LANE & MITTENDORF

120 WOOD AVENUE SOUTH METRO PARK (ISELIN), NEW JERSEY 08830

(201) 494 - 6868

TELECOPIER (201) 494 - 7271

919 16TH STREET, N.W. WASHINGTON, D.C. 20006 (202) 785-4949 TELECOPIER (202) 466-5289 466-2914

22 GROSVENOR SQUARE LONDON WIX ODY (OI) 491-4805 TELECOPIER (OI) 408-0079

340 ROYAL PALM WAY PALM BEACH, FLORIDA 33480 (407) 832-6966

99 PARK AVENUE

NEW YORK, NEW YORK 10016

(2(2) 972 - 3000

TELECOPIER (212) 972-5647

573-9879

September 25, 1989

Charles E. Rossi, Director Division of Operational Events Assessment Office of Nuclear Reactor Regulation U.S. Nuclear Regulatory Commission M/S 11-E-4 Washington, D.C. 20555

> RE: Information Notice No. 89-56 Alloy & Carbon Steel, Co. Mr. Louis Mikosh, President

Dear Mr. Rossi:

Thank you for taking the time to discuss this matter with) me today.

As we discussed, I shall be presenting to you in the near future my proposed Supplemental Statement, correcting factual inaccuracies that are set forth in the Information Notice, particularly those portions of the Attachment which have already been withdrawn, modified, or otherwise corrected during the course of pretrial proceedings before the U.S. District Court for the District of New Jersey.

For your information, in the meantime, I enclose a copy of the United States Department of the Navy Suspension Memorandum dated June 26, 1989.

I look forward to working with you on this most important matter.

WCC:bap Enclosure

cc: Mr. Louis R. Mikosh

President, Alloy & Carbon Steel, Co.

\$13

NUCLEAR REGULATORY COMMISSION
OFFICE OF NUCLEAR REACTOR REGULATION
WASHINGTON, D.C. 20555

UB staff

July 20, 1989

NRC INFORMATION NOTICE NO. 89-56: QUESTIONABLE CERTIFICATION OF MATERIAL SUPPLIED TO THE DEFENSE DEPARTMENT BY NUCLEAR SUPPLIERS

Addressees:

All holders of operating licenses or construction permits for nuclear power reactors.

Purpose:

This information notice is being provided to alert addressess to a possible problem with the certification of material furnished by Meredith Corporation, Pressure Vessel Nuclear (PVN) and Alloy & Carbon Steel Company, Incorporated (ALLOY) of Hillside, New Jersey. It is expected that recipients will review the information for applicability to their facilities and consider actions, as appropriate, to avoid similar problems. However, suggestions contained in this information notice do not constitute NRC requirements; therefore, no specific action or written response is required.

Description of Circumstances:

On May 4. 1989, the U.S. Department of Justice, District of New Jersey, issued information that corporate officers for PVN and ALLOY were indicted for their alleged roles in selling commercial-grade steel as military-grade steel which was used to build and repair U.S. Navy submarines and surface ships. The 27-count indictment rendered on May 4, 1989, by a Newark Federal Grand Jury, charges the defendants, some of whom are presently employees of PVN, with substituting commercial-grade steel for military-grade steel and fraudulently documenting the substitutions as meeting military specifications. From April 1984 through August 1985 the defendants allegedly caused nonconforming steel to be shipped to Department of Defense contractors. The defendants allegedly falsely marked and stenciled steel, created false documentation bearing the letterhead of various companies, falsely altered manufacturer issued certified material test reports (CMTRs), caused fraudulent chemical and physical test certificates to be prepared for tests that had not been performed, and prepared false certificates of conformance (C of Cs) for steel that did not conform to purchase requirements. Attachment 1 contains a copy of OVERT ACTS from the indictment that identifies faulty documents, heat numbers, and manufacturers' names.

Discussion:

During NRC inspections of PVN conducted the weeks of November 2, 1988 and February 1, 1989, three examples of material supplied to ASME Section III requirements without adequate basis were discovered. In all three cases PVN purchased stock material and sold it as meeting the requirements of Section III without performing the upgrade testing required by NCA-3867.4(e). In addition, it was also noted that PVN had altered CMTRs received from American Tank and fabricating Company (AIF). On material ATF had purchased from an ASME Quality Systems Certificate (QSC) holder as stock material and subsequently sold to PVN, PVN had removed ATF's name from the "Sold To" and "Shipped To" blocks of the CMTR and inserted PVN's name and address. Based on the indication that the material was purchased directly from an ASME QSC holder, the customer would not be looking for upgrade testing results nor suspect the material was not in conformance with code requirements.

On June 13 and 14. 1989. Virginia Power conducted an audit of PVN. The audit examined a sample of purchase orders which consisted of 16 safety-related purchase orders, encompassing 30 individual line items of various types of safety-related materials. The 16 safety-related purchase orders were issued between September 1, 1988 and May 4, 1989. From the sample of 30 line items, virginia Power auditors determined that in 3 cases PVN purchased material from unapproved suppliers and in 17 cases PVN supplied commercial grade material. In all 20 cases, PVN certified that the material met all the requirements of liginia Power's purchase orders, including Appendix B to 10 CFR 50. However, there is no indication that PVN took any action to determine that the materials supplied were suitable for safety-related applications prior to certifying the material met the requirements of Appendix B.

Addressees may wish to review nuclear procurements from these vendors to ensure that appropriate bases exist for the use of PVN or ALLOY supplied material. Further, addressees may wish to contact the steel mills identified as the manufacturer of the procured materials to confirm traceability of the material and to inform one of the NRC technical contacts listed below of any materials identified as not originating from the manufacturer indicated in the documentation or having material properties different from those indicated in the documentation. The NRC is interested in obtaining information on material supplied by PVN or ALLOY in which discrepancies have been found that are similar to those described above or in the indictment described in Attachment 1. The NRC is particularly interested in discrepancies discovered as a result of independent verification testing of chemical and mechanical properties and information on recent procurements.

Addressee audits of material manufacturers and suppliers which include a review of the basis for certifications provided by vendors and the supporting tests and records of traceability can prevent problems such as those discussed above. Addressees may wish to review the adequacy of previous vendor audits and their general vendor approval process in light of Information Notice No. 88-35. "Inadequate Licensee Performed Vendor Audits" and the above information.

No specific action or written response is required by this information notice. If you have any questions about this matter, please contact one of the technical contacts listed below or the Regional Administrator of the appropriate regional office.

> Division of Operational Events Assessment Office of Nuclear Reactor Regulation

Ramon Cilimbarg, NRR Technical Contacts: (301) 492-3220

Ed Baker, KRR (301) 492-0959

Attachments:

1. Overt Acts

List of Recently Issued NRC Information Notices

m/5 11-E-4 U.S. NRC

Well not reveal many

Attachment 1 IN 89-56 July 20 , 1989 lage 1 of 6

OVERT ACTS

In furtherance of the conspiracy and to effect the illegal objects thereof, the following overt acts were committed:

TODD SHIPYARD PURCHASE ORDER NUMBER SF-16372

- 1. On or about June 18, 1985, defendant Alloy received an order from Todd Shipyard ("Todd"), specifically Todd Purchase Order ST-16373, which called for, among other items, two pieces of steel plate with dimensions 3/8" x 96" x 240" and 3/8" x 96" x 120", Specification MIL-S 22698 Grade HT.
- 2. On or about June 20, 1985, defendant Thomas Syms
 issued Alloy Purchase Order Number 5318 to Levinson Steel Company
 for, among other items, two pieces of American Society of Testing
 Materials ("ASTM") A588 plate with dimensions 3/8" x 96" x 240"
 and 3/8" x 96" x 240".
- 3. On or about June 25, 1985, defendant Alloy received the steel from Levinson for Purchase Order Number 5318.
- 4. In or about June 1985, defendant Alloy received Certified Mill Test Reports indicating that the 3/8" plate mentioned in the preceding paragraphs was manufactured to ASTM ASBS specifications, heat number P00402, by United States Steel Corporation.
- 5. On or about June 27, 1985, defendant Louis Mikosh signed a Certificate of Test, which he caused to be supplied to Todd, that indicated the three-eighths inch steel plate was produced by Phoenix Steel Corporation to MIL-S-22698.

Attachment 1 Page 2 of 6

Jrade HT specification, heat number 93372, knowing full well that this was a false and fraudulent statement.

CRAFT MACHINE WORKS ORDER NUMBER 2918708-7

S. In or about December 1984, defendant PVN received an order from Craft Machine Works ("Craft"), order number 2918708-7, which called for, among other items, the following pieces of steel:

SPICIFICATION	DIESNSJONS	HEAT NUMBER
MIL-5-16113	1.536.1150.	401N7311
MIL-S-16113	1 1/2.296.2150.	41153321

- 7. On or about December 13, 1984, defendant Hamilton Vasquez signed PVN's sales order number 01527 indicating that PVN was shipping steel of military specification in fulfillment of the Craft order.
- 8. In or about December 1984, defendant PVN issued Certified Mill Tost Reports to Craft for the military specification steel described in Overt Act 6 when in fact the defendant PVN had shipped commercial grade steel to Craft.
- 9. In or about March 1985, Craft notified defendant PVN that independent testing performed on the steel shipped to Craft indicated that the PVN supplied steel was deficient as military specification steel.
- answered Craft's letter and offered to have the stepliretested.

Attachment 1 Page 3 of 6

11. In or about June 1985, defendant Mamilton Vasques .reveled to Newport News, Virginia to arrange for new testing of the disputed steel but no test was performed.

"IM SHULER & ASSOCIATES PURCHASE OPDER NUMBER 401

- 12. On or about October 15, 1984, Tim Shuler & ISBDCistes ("Tim Schuler") ordered from defendant Alloy on purchase order number 401, among other items, 130 pieces of 2° z 1/4° z 20° steel angles, with military specification 41L-5-22698B, Grade AH16T.
- 13. On or about November 12, 1984, defendant Alloy thipped Tim Shuler 130 pieces of structural stool, each piece nessuring 3° x 3° x 1/4° x 20°, bearing heat number \$1672 and purporting to be MIL-S-226968, Grade AR36T Class U.
- 14. On or about November 12, 1984, defendant Louis

 .osh signed an Alloy Certificate of Test certifying that the 130

 pioces of steel bearing host number \$1672 was military

 specification steel and that the certificate of test was a true

 copy of a test report on file at Alloy when, in fact, he know that

 certification was false and fraudulent and a forgery.
- provided Tim Shuler Associates with a forgod and fraudulent
 Atlantic Steel Company Certified Mill Test Report for heat number
 B1672 falsely certifying that the steel Alloy was providing to Tim
 Shuler was military specification steel whom, in truth and in
 fact, it was commercial grade steel.

DIVERSIFIED METALS INC. ORDER NUMBER 1548

- 16. On or about May 3, 1984, Diversified Metals placed an order with defendant PVN on purchase order number 1948 for 25 pieces of 3/8" x 4" x 20' steel bars, with military specification MIL-S-20166B, Grade HT.
- 17. On or about May 2, 1984, PVN issued a purchase order number 8573 to Acco Steel Company, for 25 pieces of 3/8- z 4- z 21. flat bar, commercial specification ASTM A588.
- a PVN Certificate of Test certifying that 25 piocos of steel bearing heat number Aloss was military specification steel and that the certificate of test was a true copy of a test report on file at PVN when, in fact, he know that certification was false and fraudulent.
- Diversified Motals with a forgod and fraudulant Atlantic Stock Company Certified Mill Test Roport for heat number A1053 falsely certifying that the steel PVH was providing to Diversified Motals was military specification stool when, in truth and in fact, it was commercial grade steel.

BLANK DOCUMENTS

20. During the period of this Indictment, defendant
Louis Mikosh, improperly and wrongly kept blank Atlantic Steel
Company Certified Mill Test Reports in his office which he
periodically caused to be forged so to falsely certify commercial
grade steel was military specification steel.

Attachment 1 Page 5 of 6

21. During the period of this Indictment, defendant Louis Mikosh improperly and wrongly kept blank American Bureau of Shipping documents in his office which he periodically caused to be forged so to certify that steel he was shipping complied with ABS standards.

All in violation of Title 18, United States Code, Section 371.

· COURT 4

- 1. Paragraphs 1, and 3 through 13 of Count 1 of this Indictment are realleged and incorporated as though set forth in full herein.
- 2. On or about May 30, 1985, in Hillside in the District of New Jersey and elsewhere, the defendants .

ALLOY & CARDON STEEL, INC.

in a matter within the jurisdiction of a department and agency of the United States, that is, the United States Department of Defense and the United States Havy, did knowingly and willfully make and use and cause to be made and used a false, fictitious and fraudulant attement and representation and did make and use and waves to be made and used a false writing and decument knowing the document and writing contained a false, fictitious and fraudulant statement and ariting contained a false, fictitious and fraudulant statement and entry in that the defendants provided a forged Bethleham Steel Certified Hill Tost Report to Colonnas Shipyard knowing full well that the heat number and specification listed thereon were not the true heat number and specification for the steel shipped to Colonnas Shipyard.

In violation of Title 18, United States Code, Sections 1001 and 2.



DEPARTMENT OF THE NAVY THE ASSISTANT SECRETARY OF THE NAVY (SHIPBUILDING AND LOGISTICS) WASHINGTON, D.C. 20360 8000

JUN 26 1989

CERTIFIED MAIL RETURN RECEIPT REQUESTED

Mr. Thomas Syms 94 Tennisson Street Cartaret, NJ 07008

Dear Mr. Syms:

Pursuant to the procedures in Subpart 9.4 of the Federal Acquisition Regulation (FAR) and Subpart 209.4 of the Department of Defense FAR Supplement, copies of which are enclosed, the Department of the Navy is suspending you from contracting with any agency in the executive branch of the Federal Government. The basis for this action is set forth in the enclosed Memorandum.

The suspension is for a temporary period pending completion of legal proceedings, unless sooner modified or terminated pursuant to the procedures in FAR 9.4, and will be effective throughout the executive branch of the Federal Government. During the period of suspension, offers will not be solicited from, contracts will not be awarded to, existing contracts will not be renewed or otherwise extended for, and approval or consent will not be given to subcontracts with you (where such approval or consent is required), unless the acquiring agency's head or an authorized representative determines in writing that there is a compelling reason to make an exception. During the period of . suspension, no Government contractor may enter into a (subcontract equal to or in excess of (\$25,000 with you unless there is a compelling reason to do so and the contractor first notifies the contracting officer and further complies with the provisions of FAR 9.405-2(b). Further, during the period of suspension, your employment with any other organization doing business with the Government will be carefully examined to determine its impact on the responsibility of that organization as a Government contractor or subcontractor. Suspended contractors are excluded from conducting business with the Government as agents or representatives of other contractors.

Within thirty calendar days after receipt of this notice, you or a representative on your behalf, may submit, either in person or in writing, information and argument in opposition to the suspension, as set forth in FAR 9.407-3(c)(5).

Sincerely,

ELECTED PYRETS



DEPARTMENT OF THE N. JY

CHIPBUILDING AND LOGISTICS! WASHINGTON DC 8080-8000

MEMORANDUM FOR THE ASSISTANT SECRETARY OF THE NAVY FOR SHIPBUILDING AND LOGISTICS

\$ 6.23

Subj: SUSPENSION OF LOUIS MIKDSH, WILLIAM LANZA, THOMAS SYMS,
HAMILTON VAZQUEZ, DEAN LANZA, ALLOY CARBON AND STEEL
COMPANY, INCORPORATED, MEREDITH CORPORATION PRESSURE
VESSEL NUCLEAR STEEL

BACKGROUND:

On 4 May 1989, in the United States District Court, District of New Jersey, the subject companies and individuals were indicted for various crimes related to their participation in a conspiracy to defraud the United States.

The indictment alleges: The subject companies were subcontractors that provided steel to Navy shipbuilders and ship repair contractors. The subject companies falsely represented that they were providing steel that met military specifications, as ordered by the Navy prime contractors, when, in fact, they knew they were providing commercial grade steel that did not meet military specifications. Among other things, the subject companies falsified markings on the steel, altered certified test reports provided by the mills that manufactured the steel and prepared false test reports. The subject companies knew that the steel they were providing would ultimately be used by the Navy. The conspiracy ran, approximately, from April 1984 through August 1985. The companies accepted payments totalling approximately \$52,093 for steel which they knew did not meet the required military specifications.

Mr. Louis Mikosh was the President and Chief Executive Officer of Alloy Carbon and Steel Company, Incorporated (Alloy Carbon and Steel) and was also Vice President of Meredith Corporation, Pressure Vessel Nuclear Steel (PVNS). Mr. William Lanza was the Vice President of Alloy Carbon and Steel and the President of PVNS. Mr. Thomas Syms, Mr. Dean Lanza and Mr. Hamilton Vazquez were, respectively, the purchasing agent for Alloy Carbon and Steel, the Vice President of Operations for PVNS and the quality control manager for PVNS.

The subject firms and individuals were charged with violating the following sections of Title 18, United States Code:

Louis Mikosh:

one count in violation of Section 371 conspiracy to defraud the United States. four counts in violation of Sections 1001 and 2 - false statements. four counts in violation of Section 1341 - mail fraud.

William Lanza:

one count in violation of Section 371 conspiracy to defraud the United States. one count in violation of Sections 1001 and 2 false statements.

Thomas Syms:

one count in violation of Section 371 conspiracy to defraud the United States. two counts in violation of Sections 1001 and 2 - false statements.

Hamilton Vazquez: one count in violation of Section 371 conspiracy to defraud the United States. ten counts in violation of Sections 1001 and 2 - false statements. one count in violation of Section 1341 - mail fraud.

Dean Lanza:

one count in violation of Section 371 conspiracy to defraud the United States. nine counts in violation of Sections 1001 and 2 - false statements. eight counts in violation of Section 1341 mail fraud.

Alloy Carbon and Steel Company:

one count in violation of Section 371 conspiracy to defraud the United States. four counts in violation of Sections 1001 and 2 - false statements. four counts in violation of Section 1341 - mail fraud.

PVNS:

one count in violation of Section 371 conspiracy to defraud the United States. ten counts in violation of Sections 1001 and 2 - false statements. eight counts in violation of Section 1341 mail fraud.

IMPACT ON THE NAVY

The subject companies and individuals knowingly provided steel which did not meet Navy specifications and concealed the true nature of the product they provided from the Navy and others. The Navy was potentially at risk since the Navy relied upon the product being what the Navy had ordered, when, the product provided was not what was ordered.

DISCUSSION:

The criminal violations with which the subject companies and individuals have been charged indicate that these firms and individuals are lacking in the honesty and integrity necessary to do business responsibly with the Federal Government. FAR 9.407-2(b) states that indictment for violations such as those with which the parties have been charged constitutes adequate evidence for suspension. The Government needs to be protected from doing business with the subject companies and individuals, pending completion of legal proceedings. The causes for the suspensions of Alloy Carbon and Steel, PVNS, Messrs, Mikosh, William Lanza, Syms, Vazquez, and Dean Lanza are FAR 9.407-2(a)(1),(3) and (5).

RECOMMENDATION:

The Debarment Committee recommends that Mr. Louis Mikosh, Mr. William Lanza, Mr. Thomas Syms, Mr. Hamilton Vazquez, Mr. Dean Lanza, Alloy Carbon and Steel Company, Incorporated and Meredith Corporation, Pressure Vessel Nuclear Steel, be advised that the Navy is placing their names on the procurement section of the Lists of Parties Excluded from Federal Procurement or Nonprocurement Programs in a suspended status for a temporary period pending the completion of legal proceedings, unless sooner modified or terminated pursuant to FAR Subpart 9.4. During this time these companies and individuals will be precluded from contracting with any agency in the executive branch of the Federal Government.

Recommend that you approve this course of action and sign the accompanying letters.

NAVY DEBARMENT COMMITTEE

CHARLES A. MILLS

Chairman

STEPHEN PARVIN

STEPHEN PARVIN

Member

6/22/89

DATE

6/22/89

DATE

Approved Egget Pres