DEPARTMENT OF THE NAVY
OFFICER IN CHARGE OF CONSTRUCTION
RESIDENT OFFICER IN CHARGE OF CONSTRUCTION
NAVAL FACILITIES ENGINEERING COMMAND CONTRACTS
CAMP LEJEUNE, NORTH CAROLINA 28542

IN REPLY REFER TO:
N62470-82-C-4669
JAX/W/JLD/sel
29 April 1985

AS-704
#5 Boiler.

Northeast Construction Company
P. O. Box 548
Jacksonville, NC 28541-0548

Re: Contract N62470-82-C-4669, Upgrade BSQ's AS-702 and AS-704, MCAS(H), New River, Jacksonville, NC

Gentlemen:

Your submittal number 9C is returned herein. Please provide this office with original signatures on these documents. This may be in the form of copied documents with original signatures for certification.

Sincerely yours,

J. L. DAVIS
LT, CEC, USN
Resident Officer in
Charge of Construction

Copy to:
BMO (Attn: Mr. Tom Lanier)

CONTRACTOR'S SUBMITTAL TRANSMITTAL
LANTDIV NORFOLK 4-4355/3 (Rev. 11-80)

CONTRACT NO	TRANSMITTAL NO	DATE
N62470-82-C-4669	9C	4/17/85

FROM CONTRACTOR
Northeast Construction Company
TO ROICC
Bldg. 1005, Camp Lejeune, NC 28542

PROJECT TITLE AND LOCATION
Upgrade BSQ's AS-702 and AS-704
MCAS, (H), New River, Jacksonville, N.C.

CONTRACTOR USE ONLY

List only one specification division per form.

List only one of the following categories on each transmittal form, and indicate which is being submitted

☐ Contractor Approved ☒ OICC Approval ☐ Deviation/Substitution For OICC Approval

REVIEWER USE ONLY

**ACTION CODES
A-Approved
D-Disapproved
AN-Approved as noted
RA-Receipt acknowledged.
C-Comments
R-Resubmit

ITEM NO	PROJ. SPEC. SECT. & PARA. and/or PROJ. DWG. NO. *	ITEM IDENTIFICATION (Type, size, model no., Mfg. name, dwg. or brochure number)	NO. OF COPIES	ACTION CODES **	REVIEWER'S INITIALS CODE AND DATE
1	Section 15651 Para 2.16	Form R-1, Report of Welded Repair to Boiler	4		

CONTRACTOR'S COMMENTS

COPY OF TRANSMITTAL AND SUBMITTALS TO ROICC

CONTRACTOR REPRESENTATIVE (Signature)
Lawrence Green, Jr., Vice President

DATE RECEIVED BY REVIEWER	FROM (Reviewer)	TO

☐ Submittals are returned with action indicated. Approval of an item does not include approval of any deviation from the contract requirements unless the contractor calls attention to and supports the deviation.

☐ Submittals are forwarded to LANTDIV with A-E recommendations indicated in REVIEWER USE ONLY Section and in comments below on **ONE COPY** of the transmittal form.

REVIEWER'S COMMENTS

COPIES TO ROICC (2) LANTDIV (1) A-E (1)	DATE	SIGNATURE

☆ U.S. GOP: 1983 - 739-003/2122 Region 3-11

FORM R-1, REPORT OF WELDED X REPAIR OR ALTERATION

file - 236
copy to Mouth

As Required by the Provisions of The National Board Inspection Code

1. Work done by A & M Company, Inc. P. O. Box 3147 Wilmington, NC 28576 (Name and address of repair or alteration organization) (Serial No.)

2. Owner Burnham Corp. Lancaster, PA (Name and address of owner) MAR 27 1985

3. Location of Installation Marine Corps Air Station - New River, NC (Name and address)

4. Unit Identification Boiler (Boiler Pressure Vessel) Name of Manufacturer Burnham Corp.

5. Identifying Nos 15660 (Mfgr. Serial No.) 15660 (National Board No.) (Furnished by) B-1 (Other) 1984 (Year Built)

6. Description of Work Repair Leak in Fillet Weld from Water Jacket to Base Plate (Use back or separate sheet (or sheets) if necessary)

1) Dress Weld suitable for Repair

2) Repair Weld

3) HYDROSTATIC TEST PERFORMED BY HUMPHREY HEATING & AIR COND. WITNESSED BY A+M CO. INC. Pressure Test if Applied 45 psi

7. Remarks Attached are Manufacturer's Partial Data Reports properly identified and signed by Commissioned Inspector for the following items of this report

In lieu of Navy Inspector Mr. Warden Baysden - Northeast Constr. and Chuck Stead of Humphrey Heat & Air Cond. visually inspected weld repair and witness hydrostatic test at 45 PSI.

Warden Baysden

Chuck Stead

(Name of Partnership, Corporation or Individual)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and that all (Design) Design material, construction, and workmanship on this (Repair) Repair (Repair or Alteration) conform to The National Board Inspection Code

Date 3/28/85 Signed A & M Company, Inc. (Repair or Alteration Organization) by Pamela D. West (Authorized Repair or Alteration)

Our Certificate of Authorization No R487 to use the "R" Symbol expires Aug 17 19 87

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors or the State or Province of NAVFAC 239 and employed by M.C. Camp Lejeune of Jacksonville N.C. have inspected the work described in this Data Report on 3/21 19 85 and state that to the best of my knowledge and belief this work has been done in accordance with The National Board Inspection Code.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the work described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection, except such liability as may be provided in a policy of insurance which the Inspector's insurance company may issue upon said object and then only in accordance with the terms of said policy.

Date 3/21/85 Thomas L Lewis (Inspector) Commissions NAVFAC 239 (Nat'l Board, State, Province and No.)

A & M COMPANY, INC.

TELEPHONE 799-0510

P. O. BOX 3147
WILMINGTON, N. C. 28406

FABRICATION CHECK LIST

"TRAVELER"

Job Name: Burnham Corp. Boiler Weld Repair B-1

Job Number: 47576 (NB# 15660)

	PROJ. MGR	DATE	Q.C.M.	N.C.D.L. BOILER INSP.	A.I. HOLD
1. Code material received and visual inspection					
2. Mill test reports checked for compliance					
3. Code material marked with identifiers HT.#					
4. Materials stored in ASME segregated area					
5. Review of job procedure with Authorized Inspector					
6. Fit-up assembly in accordance with specifications*					
7. Proper welding materials and procedure followed W.P.S.# 2A	[illegible]	3/19	[illegible]		
8. Visual inspection of all welds and N.D.E. requirements met	[illegible]	[illegible]	[illegible]		
9. Witness hydrostatic test* Test Pressure 45 lbs.	[illegible]	[illegible]	[illegible]	(D)	
10. ASME P-4A data forms or NB, repair form properly executed and signed	[illegible]	3/19	[illegible]	(D)	
11. ASME Code Symbol or "R" Stamp applied to vessel	[illegible]	3/19	[illegible]	(D)	
12. All records and forms properly filed					

* Indicates hold points for Authorized Inspector

A & M Company
P.O. Box 3147
Wilmington, N.C. 28406

Office
(919) 799-0510

Frank G. Weiss

24 HOUR PHONE
(919) 799-0510

- Installation & Repairs of
  Boilers, Turbines, Generators, Pressure Piping
- Procedure Welding
- Industrial Painting and Insulation
- Other Mechanical & Plant Maintenance
  Capabilities

As Required by the Provisions of The National Board Inspection Code AS-704

#5 Boiler

1. Work done by A & M Company, Inc. P. O. Box 3147 Wilmington, NC 47576 (Serial No.)
(Name and address of repair or alteration organization)

2. Owner Burnham Corp. Lancaster, PA
(Name and address of owner)

3. Location of Installation Marine Corps Air Station - New River, NC
(Name and address)

4. Unit Identification Boiler (Boiler Pressure Vessel) Name of Manufacturer Burnham Corp.

5. Identifying Nos. 15660 (Mfgr. Serial No.) 15660 (National Board No.) (Jurisdiction) B-1 (Other) 1984 (Year Built)

6. Description of Work: Repair Leak in Fillet Weld from Water Jacket to Base Plate
(Use back, separate sheet or sketch if necessary)

1) Dress Weld suitable for Repair

2) Repair Weld

3) HYDROSTATIC TEST PERFORMED BY HUMPHRY HEATING & AIR COND. - WITNESSED BY A&M CO. INC. Pressure Test if Applied 45 psi

7 Remarks: Attached are Manufacturer's Partial Data Reports properly identified and signed by Commissioned Inspectors for the following items of this report

In lieu of Navy Inspector Mr. Warden Baysden - Northeast Constr. and Chuck Steed of Humphry Heat & Air Cond. visually inspected weld repair and witness hydrostatic test at 45 PSI.

Warden Baysden

Chuck Steed

Name of part, item number, mfgr's name and identifying stamp

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and that all (design) Design material, construction, and workmanship on this (repair, alteration) Repair conform to The National Board Inspection Code

Date 3/28/85 Signed A & M Company, Inc. (Repair, Alteration Organization) by [signature] (Authorized Representative)

Our Certificate of Authorization No R487 to use the "R" Symbol expires Aug 17 19 87

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors or the State or Province of _____ and employed by _____ of _____ have inspected the work described in this Data Report on _____ 19____ and state that to the best of my knowledge and belief this work has been done in accordance with The National Board Inspection Code

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the work described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection, except such liability as may be provided in a policy of insurance which the Inspector's insurance company may issue upon said object and then only in accordance with the terms of said policy.

Date _____ _____ Inspector Commissions _____ Nat'l Board, State, Province and No.

A & M COMPANY, INC.

TELEPHONE 799-0510

P. O. BOX 3147
WILMINGTON, N. C. 28406

FABRICATION CHECK LIST

"TRAVELER"

Job Name: Burnham Corp. Boiler Weld Repair B-1

Job Number: 47576 (NB# 15660)

	PROJ. MGR	DATE	Q.C.M.	N.C.D.L. BOILER INSP.	A.I. HOLD
1. Code material received and visual inspection					
2. Mill test reports checked for compliance					
3. Code material marked with identifiers HT.# _____					
4. Materials stored in ASME segregated area					
5. Review of job procedure with Authorized Inspector					
6. Fit-up assembly in accordance with specifications*					
7. Proper welding materials and procedure followed W.P.S.# 2A	JW	3/18	JW		
8. Visual inspection of all welds and N.D.E. requirements met	JW	3/18	JW		
9. Witness hydrostatic test* Test Pressure 45 lbs.	JW	3/18	JW		
10. ASME P-4A data forms or NB, repair form properly executed and signed	JW	3/18/85	JW		
11. ASME Code Symbol or "R" Stamp applied to vessel	JW	3/18/85	JW		
12. All records and forms properly filed					

* Indicates hold points for Authorized Inspector

THE NATIONAL BOARD OF BOILER AND PRESSURE VESSEL INSPECTORS

Certificate of Authorization

R 487

THIS IS TO CERTITY *that* A & M COMPANY, INC.

206 WOODLAND DRIVE, WILMINGTON, NC 28403

is hereby authorized to use the Repair Symbol
of the National Board of Boiler and Pressure Vessel Inspectors for

"NATIONAL BOARD CODE REPAIR AT THE ABOVE LOCATION AND EXTENDED FOR FIELD REPAIRS CONTROLLED BY THIS LOCATION"

in accordance with the applicable rules of the National Board of Boiler and Pressure Vessel Inspectors. The use of the Repair symbol and the authority granted by this certificate of authorization are subject to the provisions of the agreement set forth in the application. Any repair stamped with this symbol shall have been made strictly in accordance with the provisions of the National Board Inspection Code.

THIS AUTHORIZATION *is issued or renewed on* SEPTEMBER 5, 1984
and expires on AUGUST 17, 1987 *by*

THE NATIONAL BOARD OF BOILER AND PRESSURE VESSEL INSPECTORS

Chairman R. K. Whitney

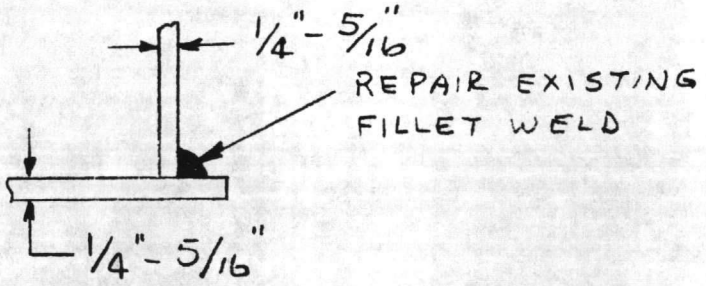
Executive Director J. D. Harrison

NB-13
REV. 9

A & M Company, Inc.
P. O. Box 3147
Wilmington, North Carolina
28406

Company Name A & M Company, Inc.
Procedure Qualification Record No. 2 Date 3/15/85
WPS No. 2A
Welding Process(es) SMAW
Types (Manual, Automatic, Semi-Auto.) Manual

JOINTS (QW-402)



Groove Design Used

BASE METALS (QW-403)
Material Spec. SA285
Type or Grade C
P-No. 1 to P-No. 1
Thickness 1/4' - 5/16'
Diameter N/A
Other N/A

FILLER METALS (QW-404)
Weld Metal Analysis A-No. 1
Size of Electrode 3/32
Filler Metal F-No. 4
SFA Specification 5.1
AWS Classification E7018
Other N/A

POSITION (QW-405)
Position of Groove 2F
Weld Progression (Uphill, Downhill) N/A
Other

PREHEAT (QW-406)
Preheat Temp. 65°F Min.
Interpass Temp. 800°F
Other N/A

POSTWELD HEAT TREATMENT (QW-407)
Temperature N/A
Time N/A
Other N/A

GAS (QW-408)
Type of Gas or Gases N/A
Composition of Gas Mixture N/A
Other N/A

ELECTRICAL CHARACTERISTICS (QW-409)
Current DC
Polarity Reverse
Amps. 80-110 Volts 20-25
Other N/A

TECHNIQUE (QW-410)
Travel Speed N/A
String or Weave Bead Stringer
Oscillation N/A
Multipass or Single Pass (per side) Multipass
Single or Multiple Electrodes Single
Other Each pass of weld bead shall be cleaned of anything that would affect the integrity of the welds by grinding, chipping or brushing

A & M COMPANY, INC.

RECORD OF PERFORMANCE QUALIFICATION TEST

Prepared according to the requirements of Section IX of the ASME Boiler Code

Date Welded 2-6-85

WELDER'S NAME Fred L. Osborne PERSONAL NO. 543255 SYMBOL NO. E

WELDING PROCESS Combination G.T.A.W. & S.M.A.W.

POSITION (If vertical, state wheather upward or downward.) (Flat, horizontal, vertical or overhead; see QW-405, QW-461-2, QW-461-3, QW-461-4) 6G

In accordance with Procedure Specification No. 2

Material Specification SA106B to SA106B of P-No. 1 to P-No. 1

Diameter and wall thickness (if pipe), otherwise joint thickness 4" Sch. 80

Thickness range this qualifies 1/16" to .674"

FILLER METAL

SPECIFICATION NO. SFA5-1 & SFA5-18 GROUP NO. F 4 & 6

Describe filler metal if not included in Table Q-11-2 or QN-11-2:

Is backing strip used? no

FOR INFORMATION ONLY

Filler metal diameter and trade name 3/32" Hobart 7018 & 3/32" Linde ER705-2

Flux for Submerged Arc or gas for Inert Shielded Arc Welding Argon 20-25 C.F.H.

GUIDED BEND TEST RESULTS (See QW-462.2(a), QW-462.3(a), QW-462.3(b)

Type and Figure No.	Results	Type and Figure No.	Results
2 Face	Satisfactory		
2 Root	Satisfactory		

RADIOGRAPHIC RESULTS: As an alternate to Guided Bend Tests, Radiographic Test Results must be recorded in spaces provided below in accordance with QW-304, QW-305 of the ASME Sec. IX Code, Article 2 of Section V and UW-51 of Section VIII, Division I Code.

Type and Figure No.	Results	Type and Figure No.	Results

Date _____ Signed By _____

A & M COMPANY, INC.

Name Fred L. Osborne Personal No. 543255 Symbol E

Year 1985 Welder Monthly Qualification Status Report

Date Qualified	Process	Pos.	Base Metal Type	Base Metal Thickness	Filler Metal	Diameter of Pipe	1	2	3	4	5	6	7	8	9	10	11	12	Remar
-15-85	Combination G.T.A.W.	6G	SA106B P-1	.337	ER70S-2	4 Sch. 80		2-15 F.W.											
	S.M.A.W.				E7018														

A & M Company, Inc.
P. O. Box 3147
Wilmington, North Carolina 28406

WELDING PROCEDURE SPECIFICATION FOR A COMBINATION OF GAS TUNGSTEN ARC WELDING AND SHIELDED METAL ARC WELDING OF CARBON STEEL PER ASME SECTION IX BOILER AND PRESSURE VESSEL CODE "WELDING AND BRAZING QUALIFICATIONS"

W.P.S. No. 2
Date: 6/13/80
Revision:
Date:

WELDING PROCESS: The welding shall be done by a combination of Gas Tungsten Arc Welding for the stringer bead (first pass) and second pass. The remaining passed (weld on) shall be done using the Shielded Metal Arc Welding Process. Both processes shall use manual equipment.

BASE METAL: The base metal used to qualify this welding procedure specification conforms to ASME SA 53 Grade B listed under "P" No. 1 Classification.

BASE METAL THICKNESS: The base metal thickness used to qualify this Welding Procedure Specification is 0.382" thick which will qualify material thickness 1/16" (0.0625") thru 49/64" (0.7656"). The Welding Procedure Specification is qualified on 1-1/4" diameter which will qualify over 1" diameter pipe.

FILLER METAL: The filler metal for the Gas Tungsten Arc Welding process shall conform to ASME filler metal specifications SFA 5.2 weld metal analysis A-1 Group "F" No. 6 A.W.S. RG 65. The diameter of the filler metal is 1/8".

The filler metal for the Shielded Metal Arc Welding process shall conform to ASME filler metal specifications SFA 5.1 weld metal analysis A-1 Group "F" No. 4 AWS Classification E 7018. The diameter of the filler metal is 3/32".

SHIELDING GAS: The shielding gas for the Gas Tungsten Arc Welding process shall be welding Grade Argon. The flow rate shall be 15 C.F.H. thru 30 C.F.H. The cup size shall be 3/8". External shielding gas is not required for the Shielded Metal Arc Welding process.

ELECTRICAL CHARACTERISTICS: The current shall be direct current, electrode negative, straight polarity for the Gas Tungsten Arc Welding Process using a 3/32" diameter 2% thoriated tungsten electrode and direct current, electrode positive, reverse polarity, for the Shielded Metal Arc Welding Process.

POSITION: This Welding Procedure Specification was qualified in the 2G fixed position with the axis of the pipe vertical. The Welding Procedure Specification shall allow for welding of the plate or pipe in all positions.

PREHEAT AND INTERPASS TEMPERATURE: No welding shall be performed when the parts to be joined by welding are below room temperature (65° F min.) without first warming the welding area to a minimum of 65° F. Welding shall not be continued when the welding zone exceeds 800° F.

POST WELD HEAT TREATMENT: No post weld heat treatment is required for this Welding Procedure Specification.

PREPARATION OF BASE MATERIAL: The edges of the parts to be joined by welding shall be prepared by machining, flame cutting, or grinding as shown on the attached drawing and shall be cleaned of oil, grease, scale, rust, or other foreign material. See Figure No. 1.

BACKING STRIP OR BACKING GAS: The welded joint shall not utilize a backing strip or backing gas.

JOINT WELDING PROCEDURE: The welding techniques such as electrode size, filler metal size, mean voltage and amperages for each electrode shall be substantially as shown on the attached drawing. See Figure No. 1.

APPEARANCE OF WELDING LAYERS: The welding current and manner of depositing the weld metal shall be such that there shall be practically no undercutting on the side walls of the welding groove or the adjoining base material.

CLEANING: All slag or flux remaining on any bead of welding shall be removed before laying down the next successive bead of welding.

DEFECTS: Any cracks, porosity, lack of fusion, or lack of penetration that appear on any bead of welding shall be removed by chipping, grinding, gouging, or any other suitable means, before depositing the next successive bead of welding.

PEENING: None required by this Welding Procedure Specification.

TREATMENT OF UNDERSIDE OF WELDING GROOVE: None required by this Welding Procedure Specification.

APPROVED BY: A & M Company, Inc.
Company Name

SIGNED BY: _____
Company Representative

DATE: 6-30-80

A & M Company, Inc.
P. O. Box 3147
Wilmington, North Carolina
28406

W.P.S. No. 2
Sheet 3 of 5

Company Name: A & M Company, Inc.
Procedure Qualification Record No.: 2 Date: 6/13/80
WPS No.: 2
Welding Process(es): Gas tungsten arc welding for stringer bead shielded metal arc welding weldout
Typec (Manual, Automatic, Semi-Auto.): Manual

JOINTS (QW-402)

See Figure No. 1 Attached

Groove Design Used

BASE METALS (QW-403)
Material Spec.: ASME SA 53
Type or Grade: B
P-No.: 1 to P-No.: 1
Thickness: 0.382" wall
Diameter: 1-1/4" diameter
Other:

POSTWELD HEAT TREATMENT (QW-407)
Temperature: None Required
Time: N/A
Other:

GAS (QW-408)
Type of Gas or Gases: Argon for GTAW
Composition of Gas Mixture: N/A
Other:

FILLER METALS (QW-404)
Weld Metal Analysis A-No.: 1
Size of Electrode: 1/8" for GTAW and 3/32" for SMAW
Filler Metal F-No.: 6 for GTAW and 4 for SMAW
SFA Specification: 5.2 for GTAW and 5.1 for SMAW
AWS Classification: RG65 for GTAW and E7018 for SMAW
Other:

ELECTRICAL CHARACTERISTICS (QW-409)
Current: Direct Current
Polarity: Straight - GTAW, Reverse - SMAW
Amps.: GTAW 75/95 Volts: GTAW 9/12
Other: SMAW 85/105 volts SMAW 22/25
see Figure No. 1 for further details

POSITION (QW-405)
Position of Groove: 2G Horizontal
Weld Progression (Uphill, Downhill): N/A
Other:

TECHNIQUE (QW-410)
Travel Speed: N/A
String or Weave Bead: stringer beads
Oscillation: N/A
Multipass or Single Pass (per side): multipass
Single or Multiple Electrodes: single electrode
Other: See Figure No. 1 for further details

PREHEAT (QW-406)
Preheat Temp.: Room Temp 65° F. min
Interpass Temp.: Maximum of 800° F
Other:

A & M Company, Inc.
P. O. Box 3147
Wilmington, North Carolina
28406

W.P.S. No. 2
Sheet 4 of 5

Tensile Test (QW-150)

Specimen No.	Width	Thickness	Area	Ultimate Total Load lb.	Ultimate Unit Stress psi	Character of Failure & Location
1-3587 T-1	0.489"	0.3/4"	0.1829"	9,770	53,400	Ductile Fracture Base Metal
1-3587 T-2	0.504"	0.387"	0.1950	10,270	52,700	Ductile Fracture Base Metal

Guided Bend Tests (QW-160)

	Type and Figure No.	Result
Side Bend	Figure 462.22	No Indications Conforms
Side Bend	Figure 462.22	No Indications Conforms
Side Bend	Figure 462.22	3 Indications 1/32" thru 3/32" conforms
Side Bend	Figure 462.22	4 Indications 1/64" thru 3/32" conforms

Toughness Tests (QW-170)

Specimen No.	Notch Location	Notch Type	Test Temp.	Impact Values	Lateral Exp.		Drop Weight	
					% Shear	Mils	Break	No Break

Fillet Weld Test (QW-180)

Result — Satisfactory: Yes _____ No _____ Penetration into Parent Metal: Yes _____ No _____

Macro—Results _____

Other Tests None Required

Type of Test _____

Deposit Analysis _____

Other _____

Welder's Name Horace Long Clock No. _____ Stamp No. _____

Tests conducted by: Hobart Bros. Co. Weld Test Lab Laboratory Test No. T-3587

We certify that the statements in this record are correct and that the test welds were preprared, welded and tested in accordance with the requirements of Section IX of the ASME Code.

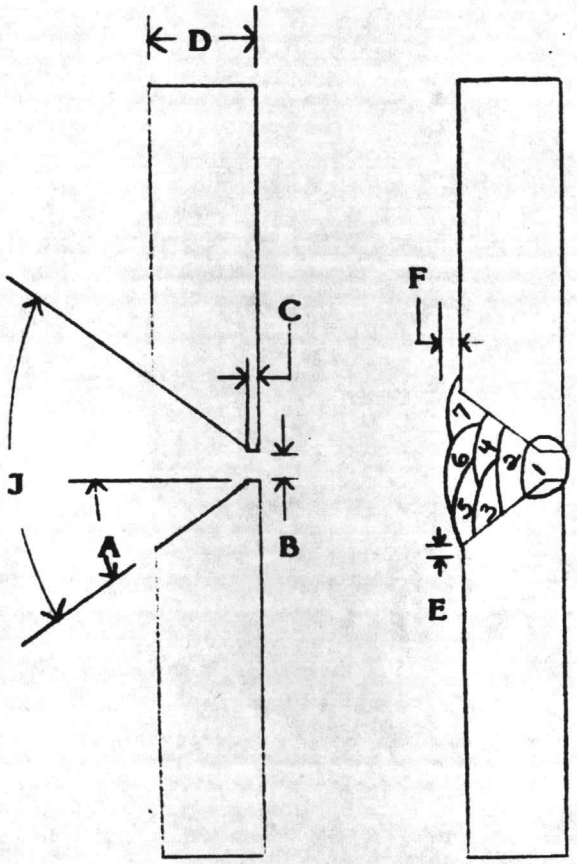
Manufacturer A & M Company, Inc.

By _____

Date 6-30-80

(Detail of record of tests are illustrative only and may be modified to conform to the type and number of tests required by the Code.)

A & M Company, Inc. P. O. Box 3147 Wilmington, North Carolina 28406	W.P.S. No. 2 Revision
Figure Number 1 **Test Position** 2 G Horizontal	Date 6/13/80 Sheet 5 of 5



ANGLE		DIMENSION					
A	G	B	C	D	E	F	J
37.5°	75°	3/32"	1/16"	0.382"	1/8" max	1/8" max	

Bead No	Electrode or Wire Type	Electrode or Wire Size in.	Current Polarity	Amps	Volts	Travel Speed In/Min	Welding Direction	
1 & 2	RG 65	1/8"	DCEN	75/95	9/12	2/4	Horizontal	
3 thru 7	E7018	3/32"	DCEP	85/105	22/25	4/6	Horizontal	

INSPECTION REPORT-BOILERS
NAVFAC 9-11014/41 (3/67)
Supersedes NAVDOCKS 2544
S/N 0105-LF-004-0000

DATE OF INSPECTION: 24 AUG, 15 SEPT 1983

TYPE OF INSPECTION: A ☐ INTERNAL & EXTERNAL B ☒ INTERNAL & EXTERNAL WITH PRESSURE TEST C ☒ OPERATIONAL

1. FROM: BASE MAINT. OFFICER, CAMP LEJEUNE, N. C.

2. TO: NAVFACENGCOM, NORFOLK, VA.

14. CERTIFICATE ISSUED ☒ YES ☐ NO
EXPIRES 24 AUG. 1984

15. BOILER INSPECTOR: Thomas L Lanier
NAVY OR NATIONAL BOARD NO: NAVFAC 239

16. REASON FOR NOT ISSUING CERTIFICATE:

BOILER DATA

3. MANUFACTURER: NATIONAL RADIATOR

4. PROPERTY NO.	5. MFG. SERIAL NO.	6. MFG. MODEL NO.
5	10176	AC-4275
7. BUILDING NO.	**8. YEAR BUILT**	**9. CAPACITY**
AS-704	1953	1,610,000 BTU/HR.

10. FUEL (Check): ☐ COAL ☒ OIL ☐ GAS

11. PRESSURE: DESIGNED 30 psi; OPERATING 12 psi; TEST 45 psi

12. FEED WATER TREATMENT: ☐ SATISFACTORY ☐ UNSATISFACTORY

13. TYPE: ☐ WATER TUBE ☒ FIRE TUBE ☐ C. I.

17. BOILER USE: HEATING

18. COMBUSTION CONTROL (Mfg. Name): HONEYWELL

19. COMBUSTION: 7.5 % CO_2 _____ % EXCESS O_2

20. FLUE GAS TEMPERATURE: AFTER BOILER 250 °F ; AFTER HEAT TRAP _____ °F

SAFETY DEVICES

SAFETY VALVES

21. MANUFACTURER	22. NUMBER AND SIZE	23. PSI SETTING	24. CONDITION
WATTS	1- 2"	30	GOOD

STEAM PRESSURE GAUGE

25. MANUFACTURER: MARSHALLTOWN

26. CORRECTIONS: WATER LEG CONSTANT _____ psi; OTHER _____ psi

27. REASON IF NOT TESTED:

FIRING EQUIPMENT

ITEM	IN SERVICE	ALTERNATE
28. MANUFACTURER	DUNHAM BUSH - IRON FIREMAN	
29. TYPE	NOZZLE SPRAY	
30. FUEL GRADE	#2	

31. INSPECTOR'S COMMENTS
1. Boiler setting as before
2. Replace altitude gage with lowler probe.
3. Add stop pit.

32. ATTACHMENT(S) (Check): ☐ COPY OF INSPECTOR'S REPORT ☐ SPECIAL COMMENTS

33. SIGNATURE: R.M. Allen
BY DIRECTION

* G.P.O.: 1982-507-422

MFGRS. SERIAL NO.: 15660

MFGRS. MODEL NO.: 4FW-127-SPL LB

MANUFACTURER: BURNHAM

DATE OF SHEET:

TYPE OF SUPERHEATER: None

FURNACE VOLUME: _____ CU. FT

HEATING SURFACE (SQ. FT.)
BOILER 120
WATER WALL
ECONOMIZER
SUPERHEATER

OPERATION
[X] AUTOMATIC
[ ] SEMI-AUTOMATIC
[ ] MANUAL

USE
[ ] EXPORT
[ ] ELEC. POWER GENERATION
[ ] LAID UP - WET
[ ] LAID UP - DRY
X Heating

DATE BUILT: 1984

DATE INSTALLED: 5-15-85

TEMPERATURE AT SUPERHEATER OUTLET: N/A °F

NORMAL FEEDWATER TEMPERATURE: N/A °F

(See Reverse Side for Fittings)

DRUMS
NO. _____
DIAMETER _____ IN.
LENGTH _____ FT. _____ IN.
[ ] RIVETED
[ ] FORGE WELDED
[ ] FUSION WELDED

PRESSURE (psig)
30 DESIGN
MAWP
15 INSTALLED WP

AIR HEATER
[ ] NONE N/A
[ ] TUBULAR
[ ] REGENERATIVE
[ ] STEAM

CAPACITY
21.2 HP
_____ LB. HR
_____ EDR
885.5 M BTU/HR.

BOILER
TYPE
[ ] C.I.
[ ] WATER TUBE
[X] FIRE TUBE

DRAFT
[ ] NATURAL
[X] FORCED
[ ] INDUCED

PRODUCES
[ ] STEAM
[X] LOW TEMP. WATER
[ ] HIGH TEMP. WATER

CIRCULATION
[ ] NATURAL
[ ] FORCED

	FUEL & FIRING EQUIPMENT IN SERVICE	ALTERNATE FUEL & FIRING EQUIPMENT
FUEL	COAL: [ ] ANTHRACITE [ ] BITUMINOUS OIL: [ ] COMMERCIAL 1, (2) 4, 5, 6 [ ] NAVY [ ] OTHER _____ GAS: [ ] NATURAL [ ] MANUFACTURED	COAL: [ ] ANTHRACITE [ ] BITUMINOUS OIL: [ ] COMMERCIAL 1, 2, 4, 5, 6 [ ] NAVY SPECIAL [ ] OTHER _____ GAS: [ ] NATURAL [ ] MANUFACTURED
FIRING EQUIPMENT	[ ] COAL-HAND FIRED COAL - STOKER: [ ] UNDERFEED - MULTIPLE RETORT [ ] UNDERFEED - SINGLE RETORT [ ] SPREADER - DUMP GRATE [ ] SPREADER - VIBRATING GRATE [ ] SPREADER - TRAVELING GRATE [ ] CHAIN GRATE GAS: [ ] GAS RING [ ] VENTURI TYPE COAL - PULVERIZER: [ ] ATTRITION [ ] BALL & RACE [ ] BOWL MILL [ ] TUBULAR OIL BURNERS: [X] MECHANICAL [ ] STEAM ATOMIZED [ ] AIR ATOMIZED [ ] ROTARY CUP	[ ] COL-HAND FIRED COAL - STOKER: [ ] UNDERFEED - MULTIPLE RETORT [ ] UNDERFEED - SINGLE RETORT [ ] SPREADER - DUMP GRATE [ ] SPREADER - VIBRATING GRATE [ ] SPREADER - TRAVELING GRATE [ ] CHAIN GRATE GAS: [ ] GAS RING [ ] VENTURI TYPE COAL - PULVERIZER: [ ] ATTRITION [ ] BALL & RACE [ ] BOWL MILL [ ] TUBULAR OIL BURNERS: [ ] MECHANICAL [ ] STEAM ATOMIZED [ ] AIR ATOMIZED [ ] ROTARY CUP
FIRING EQUIPMENT MANUFACTURER	POWER FLAME	

PROPERTY NO.: 5

BUILDING OR LOCATION: AS-704

BOILER 5

ACTIVITY: MCAS(H), NEW RIVER

DATA RECORD SHEET - BOILERS
NAVFAC 9-11014/40 (9-69) Supersedes NAVDOCKS 2509

FITTING	NUMBER	SIZE	MANUFACTURER	TYPE	SETTING	RANGE	PRESSURE CLASS
SAFETY VALVES	1	1¼	WATTS	MODEL M	30		
STEAM OUTLET VALVES	1	2"	GRINNELL	GATE		150	
BLOW-OFF VALVES	1	1½	GRINNELL	GATE		150	
FEEDWATER VALVES	1	3/4"	GRINNELL	GATE		125	
WATER COLUMN	N/A						
FEEDWATER REGULATOR	1	3/4	WATTS MOOR 335-1		12	10-25	
WATER GAGES	N/A						
STEAM GAGES	1	3"	US GAGE	ALTITUDE		0-50 PSI 60-260°	
SOOT BLOWERS	N/A						
FUSIBLE PLUGS	N/A						

SAFETY VALVE - MFG WATTS SIZE 1¼" CAP. 2,105,000 BTU/HR

PRIMARY CONTROL - HONEYWELL R4795D

BURNER TIP SIZE - 3.5 GPH MONARCH F 80 BPS 80°