

Record No: M-56-269
Report No: 1
Control No. 13217

Made for: MCGRAW MORGAN
P.O. Box. 2954
Richmond, VA 23235

Sheet 1 of 2

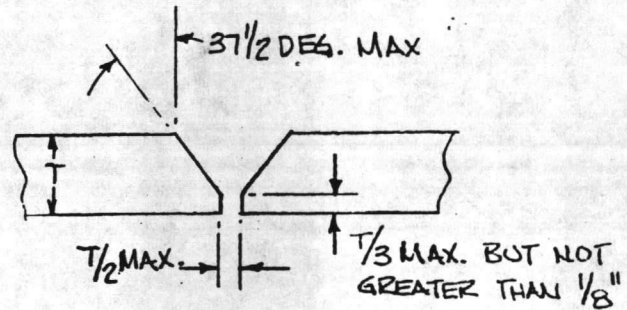
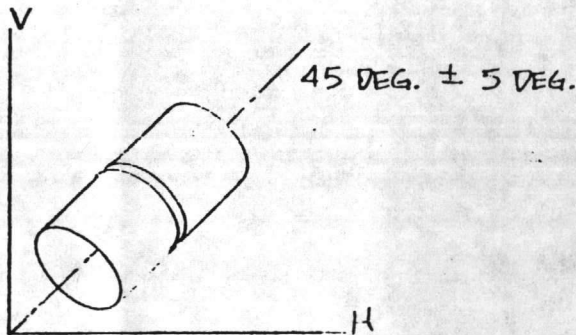
QW-483 SUGGESTED FORMAT FOR PROCEDURE QUALIFICATION RECORD (PQR)

(See QW-201.2, Section IX, ASME Boiler and Pressure Vessel Code)

Record Actual Conditions Used to Weld Test Coupon.

Company Name McGraw-Morgan, Inc.
Procedure Qualification Record No. 11 B Date August 29, 1985
WPS No. 11 B
Welding Process(es) GTAW
Types (Manual, Automatic, Semi-Auto.) Manual

JOINTS (QW-402)



(d) 6G

Groove Design of Test Coupon

(For combination qualifications, the deposited weld metal thickness shall be recorded for each filler metal or process used.)

BASE METALS (QW-403)
Material Spec. SA 210
Type or Grade Gr A1
P.No. 1 to P.No. 1
Thickness of Test Coupon .286
Diameter of Test Coupon 2.375
Other _____

POSTWELD HEAT TREATMENT (QW-407)
Temperature Not Required
Time _____
Other _____

GAS (QW-408)
Type of Gas or Gases Argon
Composition of Gas Mixture 100%
Other _____

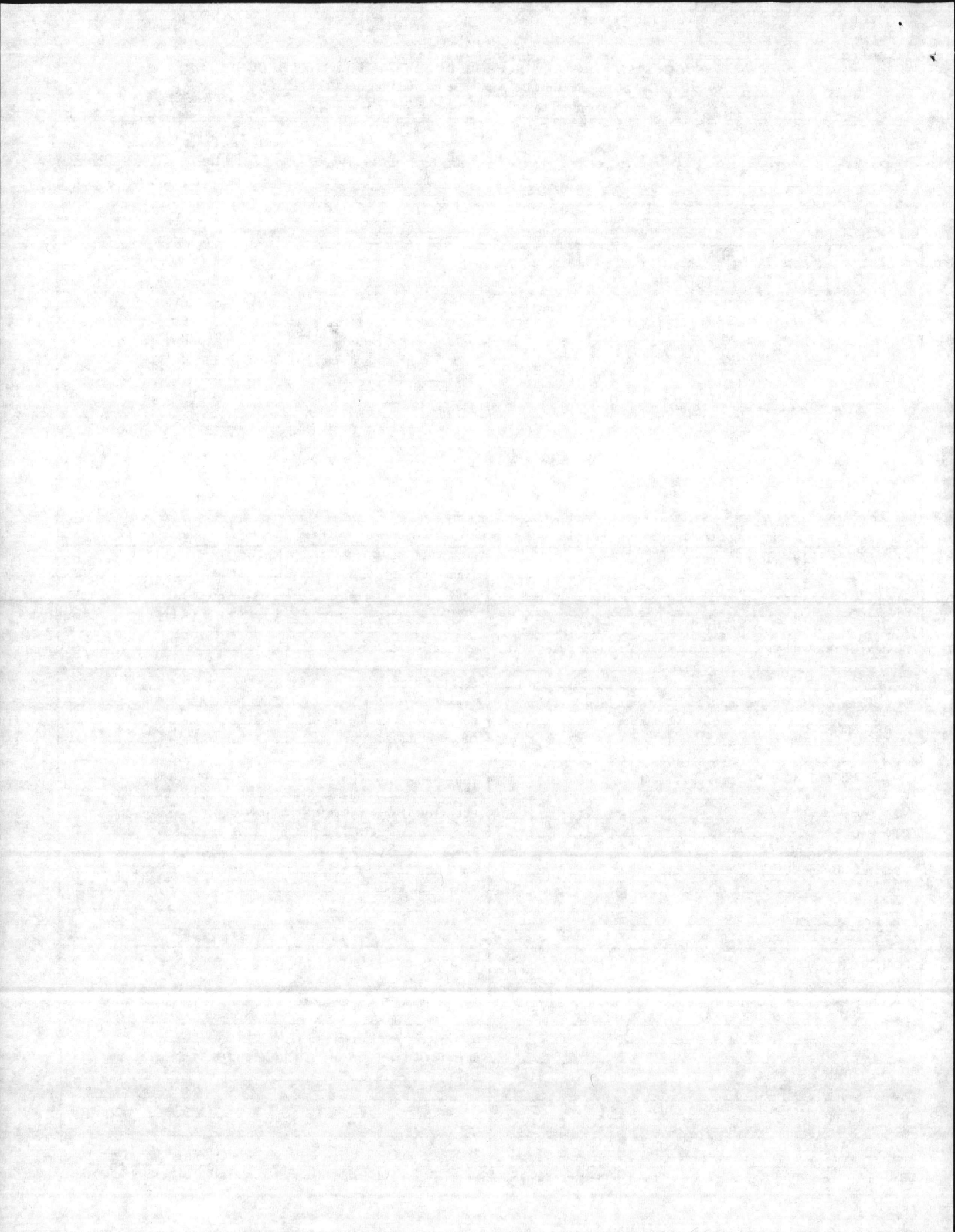
FILLER METALS (QW-404)
Weld Metal Analysis A.No. 1
Size of Filler Metal 3/32"
Filler Metal F.No. 6
SFA Specification 5.18
AWS Classification ER 70 S-2
Other _____

ELECTRICAL CHARACTERISTICS (QW-409)
Current Direct
Polarity Straight
Amps. 80 - 85 Volts _____
Tungsten Electrode Size _____
Other _____

POSITION (QW-405)
Position of Groove 6G
Weld Progression (Uphill, Downhill) Uphill
Other _____

TECHNIQUE (QW-410)
Travel Speed N.A.
String or Weave Bead Weave
Oscillation N.A.
Multipass or Single Pass (per side) Multiple
Single or Multiple Electrodes Multiple
Other _____

PREHEAT (QW-406)
Preheat Temp. 50° F
Interpass Temp. _____
Other _____



Tensile Test (QW-150)

PQR No. _____

Specimen No.	Width	Thickness	Area	Ultimate Total Load lb	Ultimate Unit Stress psi	Type of Failure & Location
1A	.785	.286	.2245	14,450	64,365	Broke out of weld.
2A	.786	.287	.2256	14,450	64,051	Broke out of weld.

Guided-Bend Tests (QW-160)

Type and Figure No.	Result
3A - Face - No visible defects	Satisfactory
4A - Root - (1) 1/16" crack	Satisfactory
5A - Face - No visible defects	Satisfactory
6A - Root - (1) 1/32" crack	Satisfactory

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

Type of Test _____
 Deposit Analysis _____
 Other _____

Welder's Name Richard Dunlap Clock No. ccc Stamp No. _____
 Tests conducted by: Froehling & Robertson, Inc., C. C. Crim Laboratory Test No. 13217 8/29/85

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

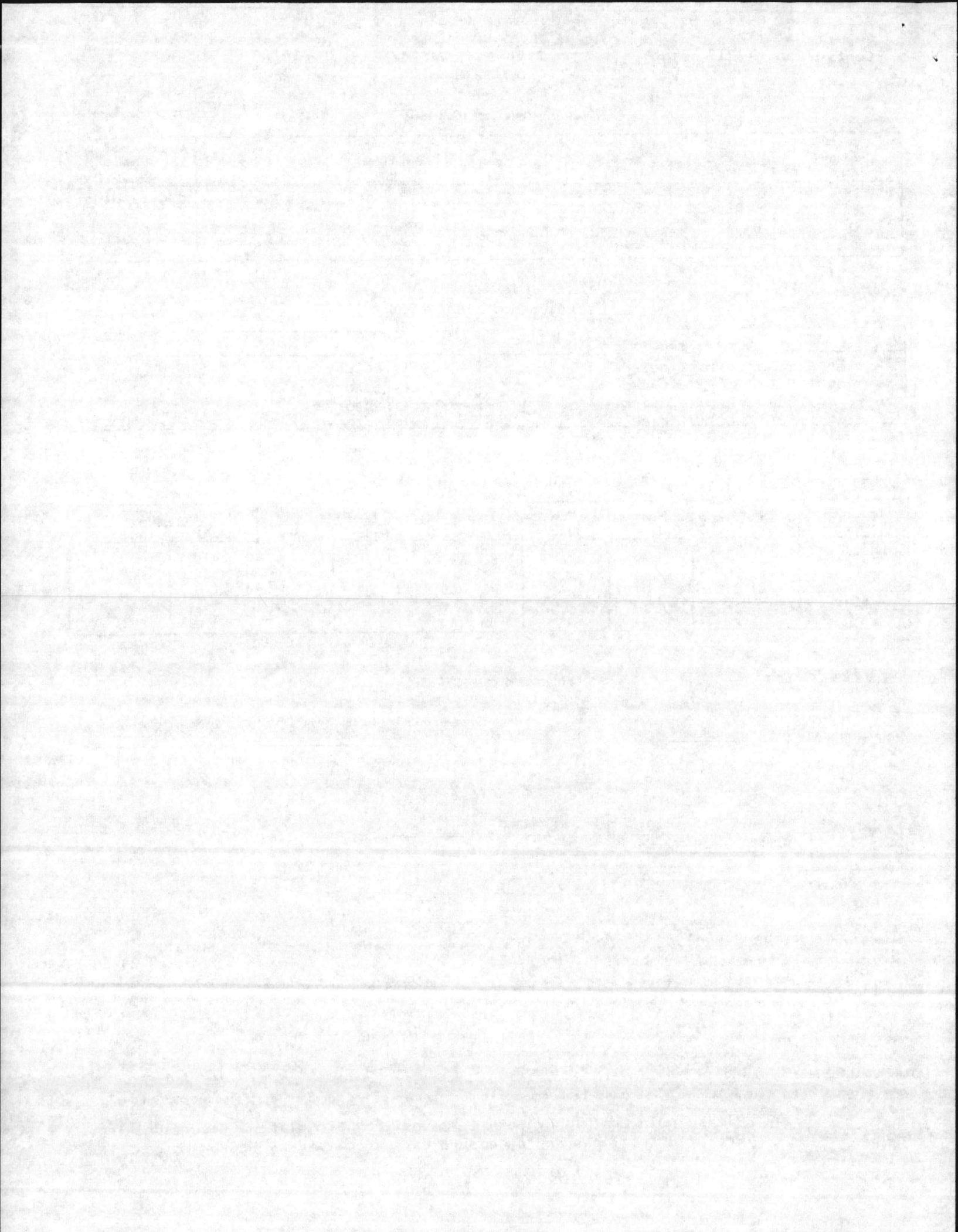
Manufacturer McGraw-Morgan, Inc.

Date August 29, 1985

By James C Morgan

(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.)

Please note that laboratory tests only by Froehling & Robertson, Inc. Prepared specimens and procedure data submitted by McGraw Morgan.



QW-482 SUGGESTED FORMAT FOR WELDING PROCEDURE SPECIFICATION (WPS)

(See QW-201.1, Section IX, ASME Boiler and Pressure Vessel Code)

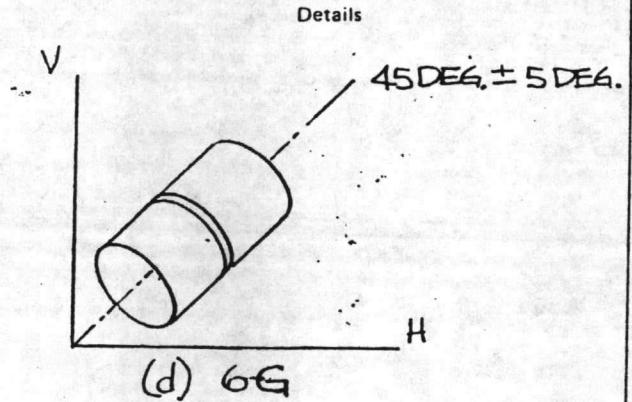
Company Name McGraw-Morgan, Inc. By: Curtis Morgan
 Welding Procedure Specification No. 11 B Date 8-23-85 Supporting PQR No.(s) 11 B
 Revision No. _____ Date _____
 Welding Process(es) GTAW Type(s) Manual
 (Automatic, Manual, Machine, or Semi-Auto.)

JOINTS (QW-402)

Joint Design V-Groove
 Backing (Yes) _____ (No) X
 Backing Material (Type) None

Sketches, Production Drawings, Weld Symbols or Written Description should show the general arrangement of the parts to be welded. Where applicable, the root spacing and the details of weld groove may be specified.

(At the option of the Mfgr., sketches may be attached to illustrate joint design, weld layers and bead sequence, e.g. for notch toughness procedures, for multiple process procedures, etc.)



*BASE METALS (QW-403)

P-No. 1 Group No. 1 to P-No. 1 Group No. 1

OR

Specification type and grade SA 210 Gr A1
to Specification type and grade SA 210 Gr A1

OR

Chem. Analysis and Mech. Prop. _____
to Chem. Analysis and Mech. Prop. _____

Thickness Range:

Base Metal: Groove 1/16" to .520" Fillet _____
 Deposited Weld Metal: Groove _____ Fillet _____
 Pipe Dia. Range: Groove over 1" Fillet _____
 Other _____

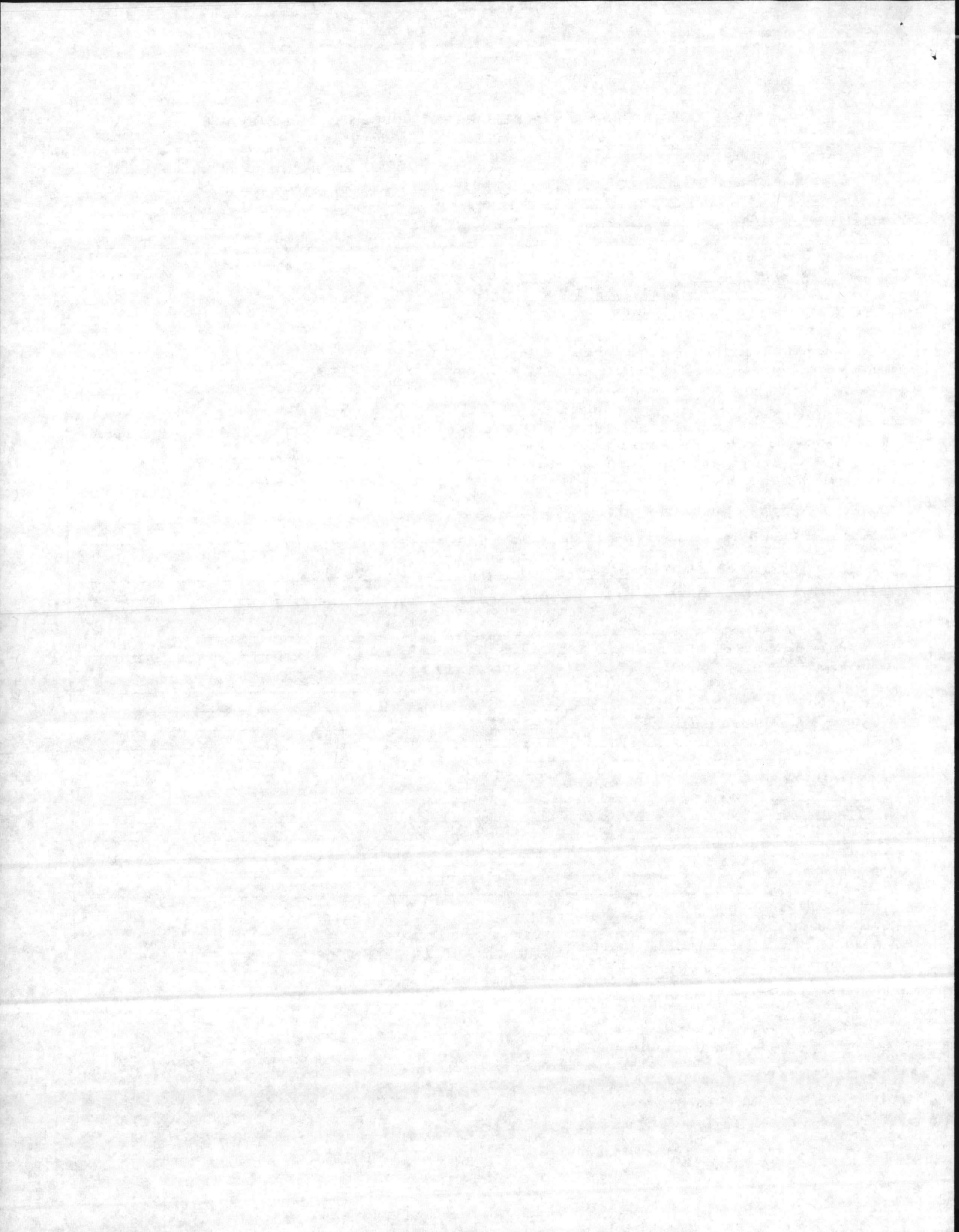
*FILLER METALS (QW-404)

F-No. 6 Other _____
 A-No. 1 Other _____
 Spec. No. (SFA) 5.18
 AWS No. (Class) ER 70 S-2
 Size of filler metals 3/32"

(Electrode, Cold Wire, Hot Wire, etc.)

Electrode-Flux (Class) _____
 Flux Trade Name _____
 Consumable Inert _____

*Each base metal-filler metal combination should be recorded individually.



POSITIONS (QW-405) Position(s) of Groove <u>6 G</u> Welding Progression: Up <u>X</u> Down _____ Position(s) of Fillet _____	POSTWELD HEAT TREATMENT (QW-407) Temperature Range <u>NO PWHT</u> Time Range _____
PREHEAT (QW-406) Preheat Temp. Min. <u>50° F</u> Interpass Temp. Max. _____ Preheat Maintenance _____ (Continuous or special heating where applicable should be recorded)	GAS (QW-408) Shielding Gas(es) <u>Argon</u> Percent Composition (mixture) <u>100%</u> Flow Rate <u>30 - 35 CFN</u> Gas Backing <u>Not Used</u> Trailing Shielding Gas Composition _____

ELECTRICAL CHARACTERISTICS (QW-409)

Current AC or DC DC Polarity Straight
 Amps (Range) 80 - 85 Volts (Range) 13 - 16
 (Amps and volts range should be recorded for each electrode size, position, and thickness, etc. This information may be listed in a tabular form similar to that shown below.)

Tungsten Electrode Size and Type 3/32" 2% Thoriated
(Pure Tungsten, 2% Thoriated, etc.)

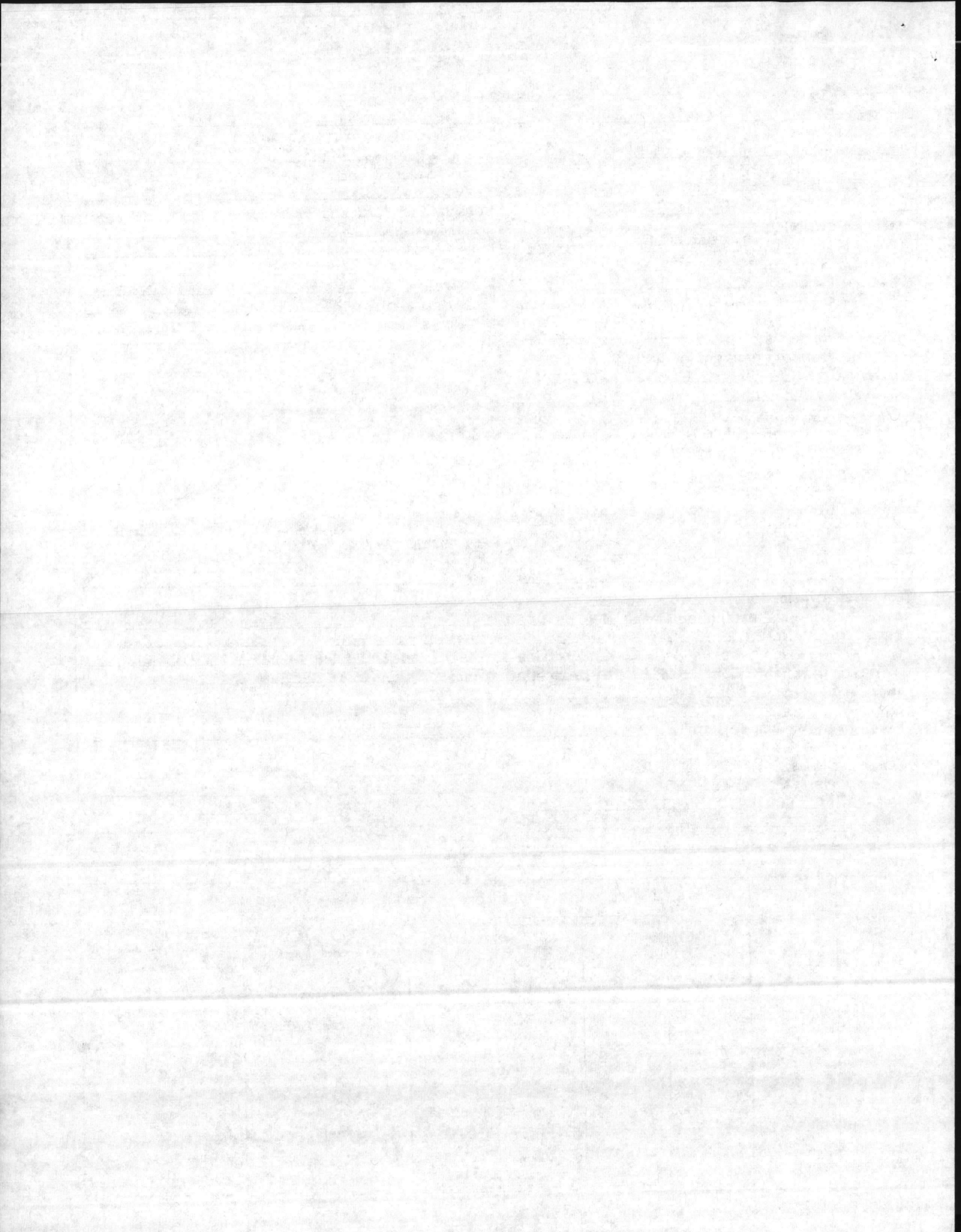
Mode of Metal Transfer for GMAW Not Required
(Spray arc, short circuiting arc, etc.)

Electrode Wire feed speed range Not Required

TECHNIQUE (QW-410)

String or Weave Bead String or weave may be used
 Orifice or Gas Cup Size #7
 Initial and Interpass Cleaning (Brushing, Grinding, etc.) Surface to be clean and free of scale, rust, etc. for at least 1/2" from welding joint preparation.
 Method of Back Gouging Not Used
 Oscillation N.A.
 Contact Tube to Work Distance N.A.
 Multiple or Single Pass (per side) Multiple
 Multiple or Single Electrodes Multiple
 Travel Speed (Range) N.A.
 Peening No Peening Allowed
 Other _____

Weld Layer(s)	Process	Filler Metal		Current		Volt Range	Travel Speed Range	Other (e.g., Remarks, Comments, Hot Wire Addition, Technique, Torch Angle, Etc.)
		Class	Dia.	Type Polar.	Amp. Range			



**QW-484 SUGGESTED FORMAT FOR MANUFACTURER'S RECORD OF WELDER OR WELDING OPERATOR
QUALIFICATION TESTS**

(See QW-301, Section IX, ASME Boiler and Pressure Vessel Code)

Welder Name C. Nicholas Check No. _____ Stamp No. 0
 Welding Process GTAW Type Manual
 In accordance with Welding Procedure Specification (WPS) 11
 Backing (QW-402) Not Used
 Material (QW-403) Spec. SA 178 A to SA 178 A of P-No. 1 to P-No. 1
 Thickness .180" Dia. 2"
 Filler Metal (QW-404) Spec. No. 5.18 Class No. ER 70S-2 F-No. 6
 Other A No. 1
 Position (QW-405) (1G, 2G, 6G) 6G
 Gas (QW-408) Type Argon % Composition 100%
 Electrical Characteristics (QW-409) Current DC Polarity Straight
 Weld Progression (QW-410) _____
 Other _____

For Information Only

Filler Metal Diameter and Trade Name _____
 Submerged Arc Flux Trade Name _____
 Gas Metal Arc Welding Shield Gas Trade Name _____

Guided Bend Test Results QW-462.2(a), QW-462.3(a), QW-462.3(b)
 Type and Fig. No. Result

Type and Fig. No.	Result

Radiographic Test Results (QW-304 & QW-305)

For alternative qualification of groove welds by radiography

Radiographic Results: Satisfactory

Fillet Weld Test Results [See QW-462.4(a), QW-462.4(b)]

Fracture Test (Describe the location, nature and size of any crack or tearing of the specimen) _____

Length and Per Cent of Defects _____ inches _____ %

Macro Test—Fusion _____

Appearance—Fillet Size (leg) _____ in. X _____ in. Convexity _____ in. or Concavity _____ in.

Test Conducted by D.L. Fricke N.D.E. Laboratory—Test No. _____

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

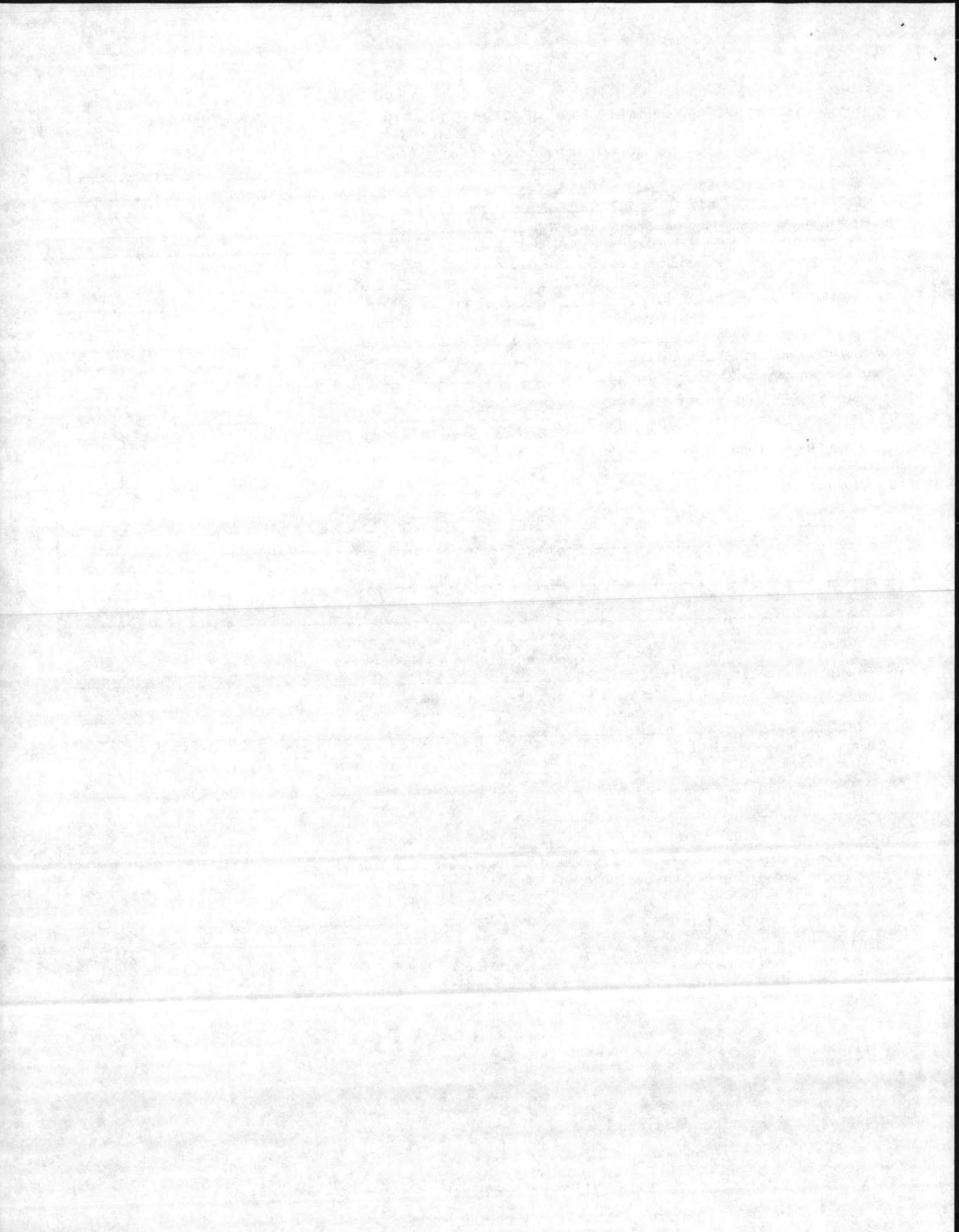
Date September 24, 1985

Organization International Tubular Products

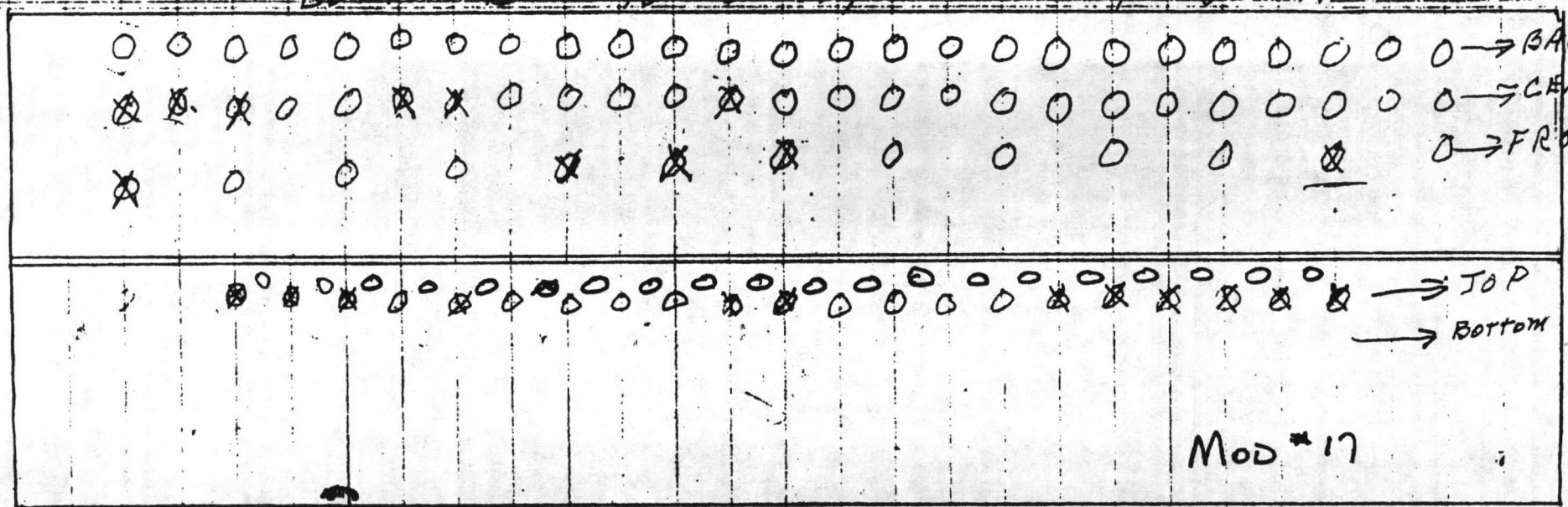
By E.F. Sise III *[Signature]*

(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.)

NOTE: Any essential variables in addition to those above shall be recorded.



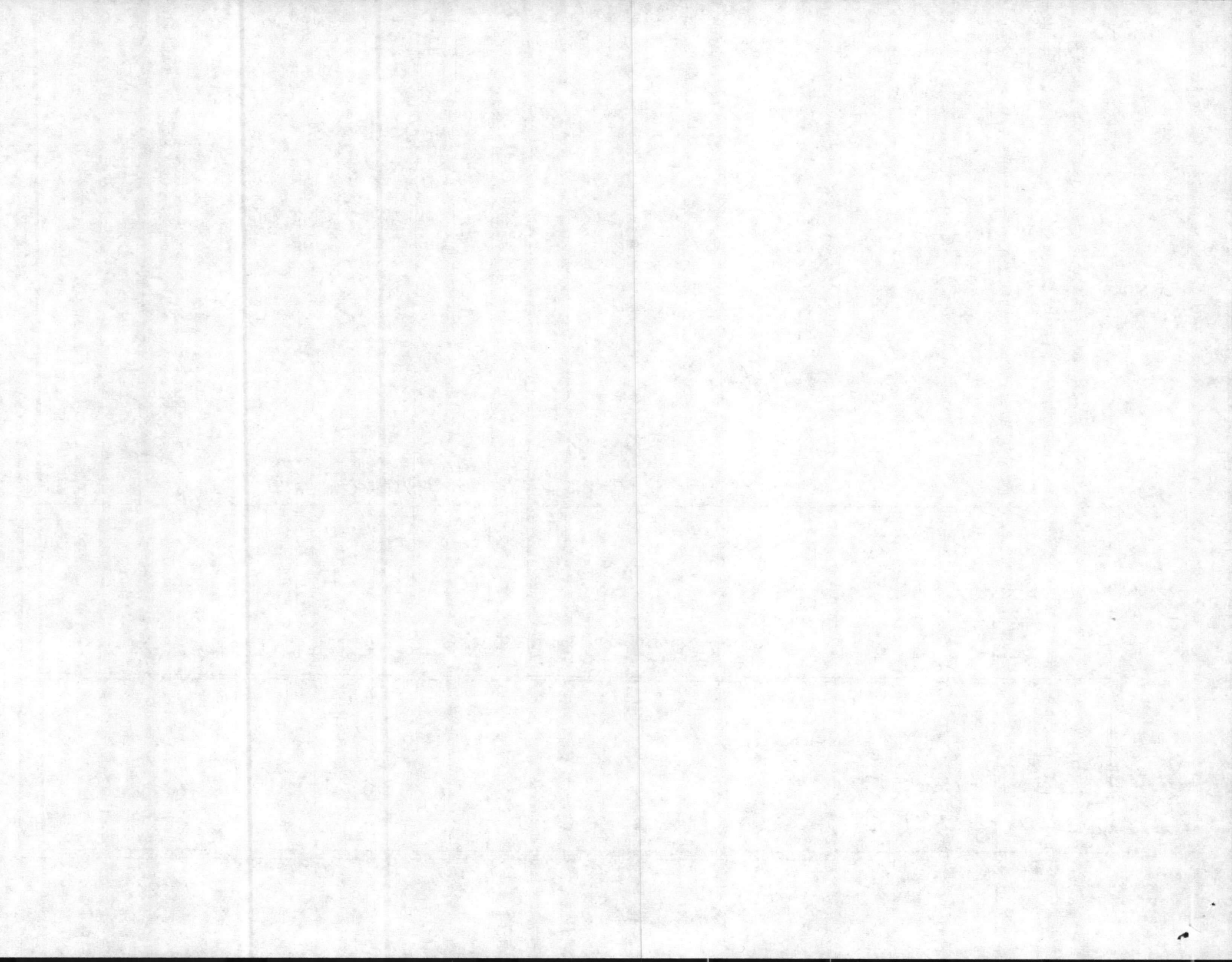
Bottom DRUM TUBES Going UP - LOOKING AT DRUM FROM FURNACE



Bottom DRUM TUBES DOWN TO HEADER

TUBES 3 1/4" O.D

TUBES FROM Bottom DRUM TO TOP HEADER 31'



QW-482 SUGGESTED FORMAT FOR WELDING PROCEDURE SPECIFICATION (WPS)
 (See QW-201.1, Section IX, ASME Boiler and Pressure Vessel Code)

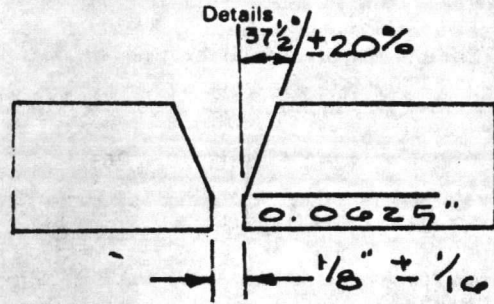
Company Name McGraw-Morgan, Inc. By James C. Morgan Q.C.M.
 Welding Procedure Specification No. WPS-MM-2 Date 6-2-82 Supporting PQR No.(s) PQR-MM-2
 Revision No. _____ Date _____
 Welding Process(es) SMAW Type(s) Manual
 (Automatic, Manual, Machine, or Semi-Auto.)

JOINTS (QW-402)

Joint Design Single V-Groove
 Backing (Yes) _____ (No) X
 Backing Material (Type) _____

Sketches, Production Drawings, Weld Symbols or Written Description should show the general arrangement of the parts to be welded. Where applicable, the root spacing and the details of weld groove may be specified.

(At the option of the Mfr., sketches may be attached to illustrate joint design, weld layers and bead sequence, e.g. for notch toughness procedures, for multiple process procedures, etc.)



***BASE METALS (QW-403)**

P-No. 1 Group No. 1 to P-No. 1 Group No. 1
 OR
 Specification type and grade SA 192
 to Specification type and grade SA 192
 OR
 Chem. Analysis and Mech. Prop. _____
 to Chem. Analysis and Mech. Prop. _____
 Thickness Range:
 Base Metal: Groove 1/16" to .44 Fillet _____
 Deposited Weld Metal 1" & over
 Pipe Dia. Range: Groove _____ Fillet _____
 Other _____

***FILLER METALS (QW-404)**

F-No. 4 Other _____
 A-No. _____ Other _____
 Spec. No. (SFA) 5.1 & 5.5
 AWS No. (Class) E-7018
 Size of filler metals 3/32
 (Electrode, Cold Wire, Hot Wire, etc.)
 Electrode-Flux (Class) N.R.
 Flux Trade Name Lincoln Jetweld LH-70
 Consumable Insert _____

*Each base metal-filler metal combination should be recorded individually.

QW-482 (Back)

POSITIONS (QW-405) Position(s) of Groove <u>6G</u> Welding Progression: Up <u>X</u> Down _____ Position(s) of Fillet _____	POSTWELD HEAT TREATMENT (QW-407) Temperature Range _____ Time Range _____
PREHEAT (QW-406) Preheat Temp. Min. <u>50°F</u> Interpass Temp. Max. _____ Preheat Maintenance _____ (Continuous or special heating where applicable should be recorded)	GAS (QW-408) Shielding Gas(es) _____ Percent Composition (mixtures) _____ Flow Rate _____ Gas Backing _____ Trailing Shielding Gas Composition _____

ELECTRICAL CHARACTERISTICS (QW-409)

Current AC or DC DC Polarity Reverse
 Amps (Range) 100-110 Volts (Range) 25-35
 (Amps and volts range should be recorded for each electrode size, position, and thickness, etc. This information may be listed in a tabular form similar to that shown below.)

Tungsten Electrode Size and Type _____
(Pure Tungsten, 2% Thoriated, etc.)

Mode of Metal Transfer for GMAW _____
(Spray arc, short circuiting arc, etc.)

Electrode Wire feed speed range _____

TECHNIQUE (QW-410)

String or Weave Bead Stringer
 Orifice or Gas Cup Size _____
 Initial and Interpass Cleaning (Brushing, Grinding, etc.) Brushing & Grinding

Method of Back Gouging _____
 Oscillation _____
 Contact Tube to Work Distance _____
 Multiple or Single Pass (per side) Multiple
 Multiple or Single Electrodes Single
 Travel Speed (Range) 5 to 10.5 inches per minute
 Peening _____
 Other _____

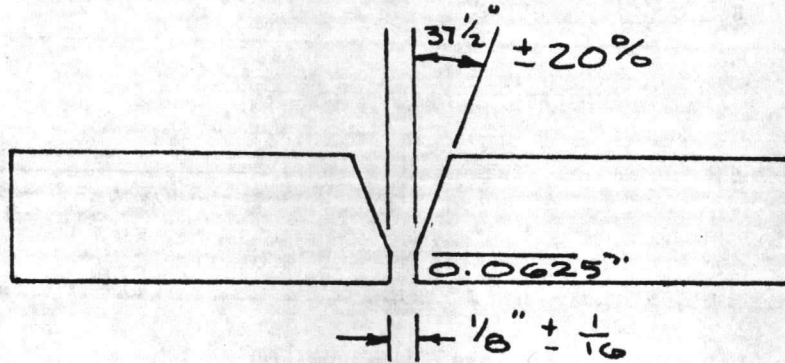
Weld Layer(s)	Process	Filler Metal		Current		Volt Range	Travel Speed Range	Other <small>(e.g., Remarks, Comments, Hot Wire Addition, Technique, Torch Angle, Etc.)</small>
		Class	Dia.	Type Polar.	Amp Range			
Root Filler & Cover	SMAW	E-7018	3/32	Rev.	100-110	25-35		

QW-483 SUGGESTED FORMAT FOR PROCEDURE QUALIFICATION RECORD (PQR)

(See QW-201.2, Section IX, ASME Boiler and Pressure Vessel Code)

Company Name McGRAW-MORGAN, INC. - 800 Research Road - Richmond, VA 23235
 Procedure Qualification Record No. PQR - MM - 2 Date 6/2/82
 WPS No. WPS - MM - 2
 Welding Process(es) SMAW
 Types (Manual, Automatic, Semi-Auto.) Manual

JOINTS (QW-402)



Groove Design Used

<p>BASE METALS (QW-403) Material Spec. <u>SA - 192</u> Type or Grade <u>SA - 192</u> P-No. <u>1 Gr. 1</u> to P-No. <u>1 Gr. 1</u> Thickness <u>.220"</u> Diameter <u>2.000" O.D.</u> Other _____</p>	<p>POSTWELD HEAT TREATMENT (QW-407) Temperature _____ Time _____ Other _____</p>
<p>FILLER METALS (QW-404) Weld Metal Analysis A-No. <u>1</u> Size of Electrode <u>3/32</u> Filler Metal F-No. <u>4</u> SFA Specification <u>5.1 & 5.5</u> AWS Classification <u>E - 7018</u> Other <u>JETWELD LH - 70</u></p>	<p>GAS (QW-408) Type of Gas or Gases _____ Composition of Gas Mixture _____ Other _____</p>
<p>POSITION (QW-405) Position of Groove <u>6 G</u> Weld Progression (Uphill, Downhill) <u>UPHILL</u> Other _____</p>	<p>ELECTRICAL CHARACTERISTICS (QW-409) Current <u>Direct</u> Polarity <u>Reverse</u> Amps. <u>105</u> Volts <u>30</u> Other _____</p>
<p>PREHEAT (QW-406) Preheat Temp. <u>50 Degree F</u> Interpass Temp. _____ Other _____</p>	<p>TECHNIQUE (QW-410) Travel Speed _____ String or Weave Bead _____ Oscillation _____ Multipass or Single Pass (per side) <u>MULTIPLE</u> Single or Multiple Electrodes <u>SINGLE</u> Other _____</p>

QW-483 (Back)

Tensile Test (QW-150)

Specimen No.	Width	Thickness	Area	Ultimate Total Load lb.	Ultimate Stress psi	Character of Failure & Location
D - 1	.725	.203	.1472	8,864	56,686	Broke out of Weld
D - 2	.732	.200	.1464	8,756	57,284	Broke out of Weld

Guided Bend Tests (QW-160)

Type and Figure No.	Result
D - 3 - Face Bend - Satisfactory No Visible Defects	D - 5 - Root Bend - Satisfactory No Visible Defects
D - 4 - Face Bend - Satisfactory No Visible Defects	D - 6 - Root Bend - Satisfactory No Visible Defects

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

Type of Test _____
 Deposit Analysis _____
 Other _____

Welder's Name William Dunlap
 Tests conducted by LeHigh Testing Laboratory

Clock No. _____ Stamp No. D - 1
 Laboratory Test No. _____

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

Manufacturer McGraw-Morgan, Inc.
 By James C. Morgan Q.C.M.

Date June 2, 1982

(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.)

QW-484 SUGGESTED FORMAT FOR MANUFACTURER'S RECORD OF WELDER OR WELDING OPERATOR QUALIFICATION TESTS

(See QW-301, Section IX, ASME Boiler and Pressure Vessel Code)

Welder Name Ray C. Clark Check No. N/A Stamp No. N/A
 Welding Process SMAW Type MANUAL
 In accordance with Welding Procedure Specification (WPS) MM-2
 Backing (QW-402) _____
 Material (QW-403) Spec. ASTMA53 to ASTM A53 of P-No. 1 to P-No. 1
 Thickness .276 Dia. 2 7/8 OD / 2 1/2 sch 80
 Filler Metal (QW-404) Spec. No. SA233 Class No. E6010 F-No. N/A
 Other N/A
 Position (QW-405) (1G, 2G, 6G) 6G % Composition N/A
 Gas (QW-408) Type N/A Polarity REVERSE
 Electrical Characteristics (QW-409) Current DIRECT
 Weld Progression (QW-410) UPHILL
 Other N/A

For Information Only

Filler Metal Diameter and Trade Name FLEET WELD 3/32 # 1/8
 Submerged Arc Flux Trade Name _____
 Gas Metal Arc Welding Shield Gas Trade Name _____

Guided Bend Test Results QW-462.2(a), QW-462.3(a), QW-462.3(b)

Type and Fig. No.	Result

Radiographic Test Results (QW-304 & QW-305)

For alternative qualification of groove welds by radiography

Radiographic Results: ACCEPT

Fillet Weld Test Results [See QW-462.4(a), QW-462.4(b)]

Fracture Test (Describe the location, nature and size of any crack or tearing of the specimen) _____

Length and Per Cent of Defects _____ inches _____ %

Macro Test—Fusion _____
 Appearance—Fillet Size (leg) _____ in. X _____ in. Convexity _____ in. or Concavity _____ in.

Edward C. Roane *E. Roane*

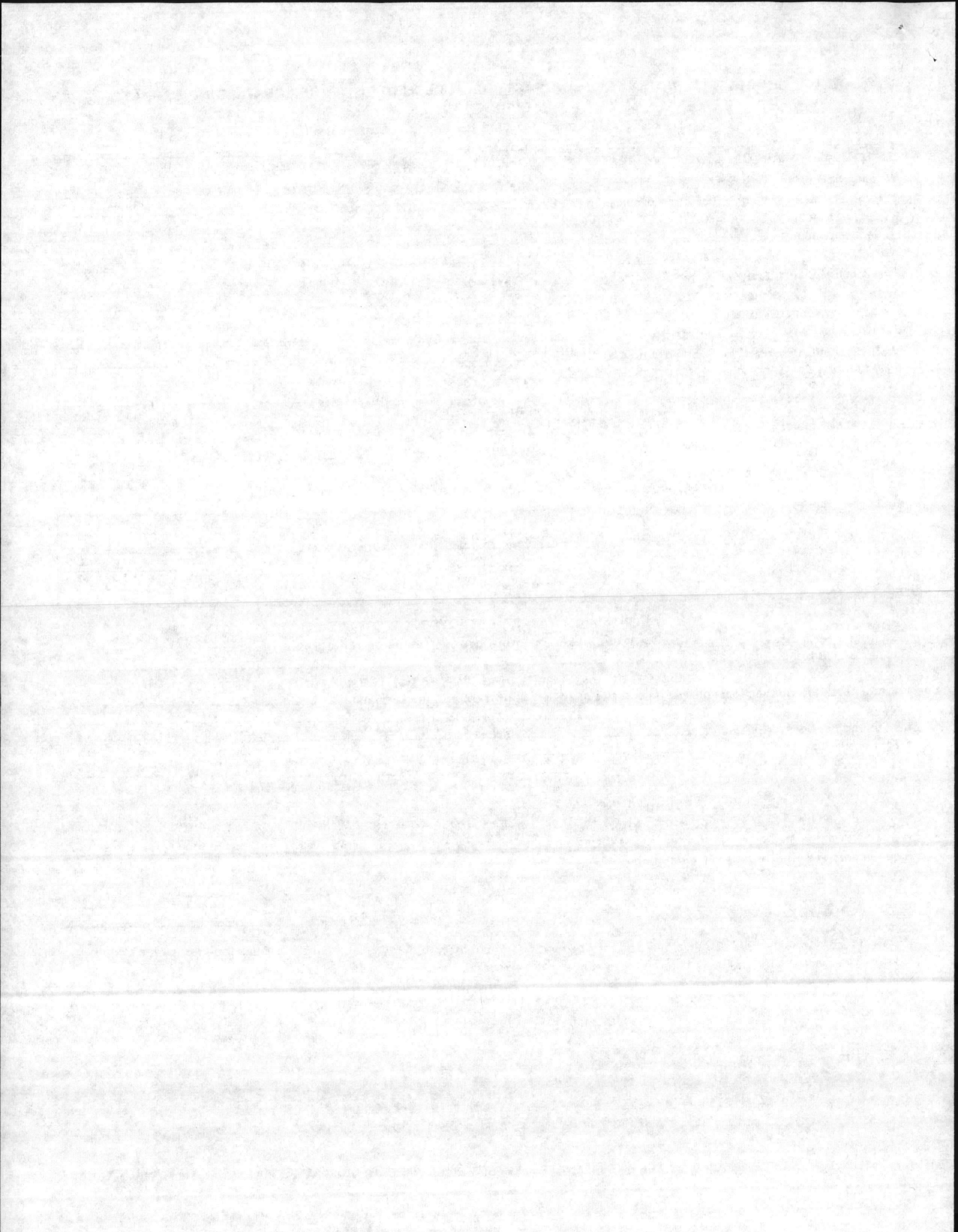
Test Conducted by Industrial NDT Co., Inc. Laboratory—Test No. 856-84-II

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

Date 8-6 1984

Organization McShaw-Morgan
 By James C. Morgan

(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.)
 NOTE: Any essential variables in addition to those above shall be recorded.



December 18, 1985

Naval Facilities Contracting Office
OICC/Building 1005
Camp Lejeune, North Carolina 28542

Gentlemen:

Re: CONTRACT NO. N62470-98-C-3045
PROCEDURE FOR REPLACING TUBE

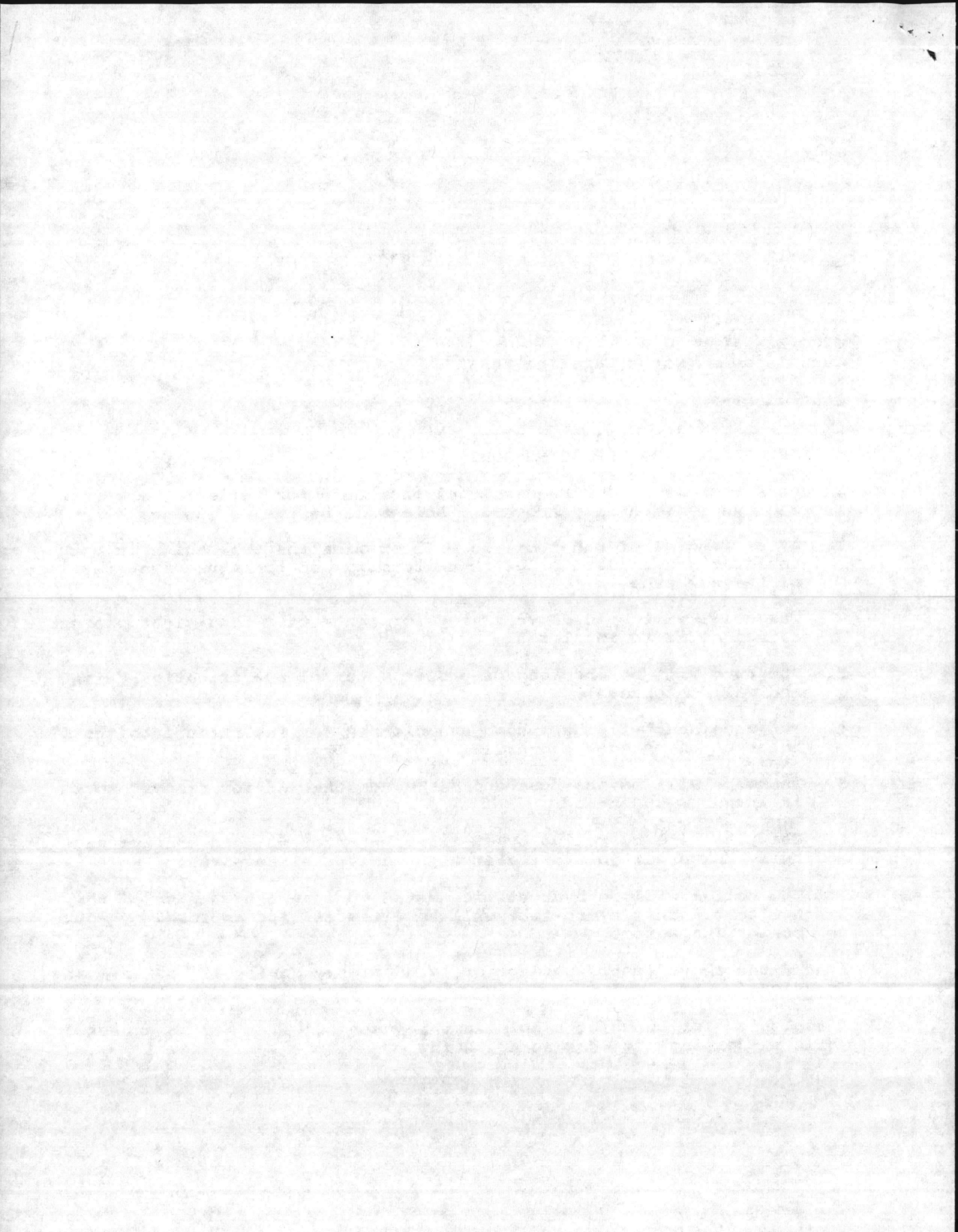
In accordance with your request, our procedure for replacing the tube in which we accidentally knocked a hole will be the following:

1. After removal of bad tube, we will examine the tube holes in both the drum and header to insure uniformity and to insure acceptability of the new tube.
2. The holes will be cleaned of any foreign matter that might prevent a good metal to metal seal.
3. The tube will be checked for proper material specification, size and wall thickness.
4. The tube ends will be sanded and cleaned for insertion into the holes on the header and drum.
5. The tube will be inserted and both ends checked for proper stock in the drum and header.
6. The tube will be rolled by an air tube motor on both ends using hams, universal joints and straight drives as required.
7. The boiler will be hydrostatic tested to insure tightness of the new tube. This hydro test will be witnessed and approved by your Boiler Inspector.

I hope the above meets your approval and please advise if you have any questions.

I apologize for punching a hole in this tube but this can be expected while performing the work we are doing.

Continued



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

DATE OF INSPECTION

7-31-73

TYPE OF INSPECTION

A INTERNAL & EXTERNAL B INTERNAL & EXTERNAL WITH PRESSURE TEST C OPERATIONAL

1. FROM

COMLANTNAVEACENG.COM

2. TO

C. G. MAR CORP CAMP LEJEUNE NC

14.

CERTIFICATE ISSUED YES NO

EXPIRES 4-30-74

15. BOILER INSPECTOR

W. M. Dett

NAVY OR NATIONAL BOARD NO.

NAVEAC 72

16. REASON FOR NOT ISSUING CERTIFICATE

BOILER DATA

3. MANUFACTURER

RILEY STOKER

4. PROPERTY NO.

#

5. MFG. SERIAL NO.

1978

6. MFG. MODEL NO.

P25-25-WW

7. BUILDING NO.

1700

8. YEAR BUILT

1942

9. CAPACITY

100,000 #/HR

10. FUEL (Check)

11. PRESSURE

COAL OIL GAS

DESIGNED

192 psi

OPERATING

150 psi

TEST

psi

12. FEED WATER TREATMENT

SATISFACTORY UNSATISFACTORY

13. TYPE

WATER TUBE FIRE TUBE C. I.

17. BOILER USE

HEATING

18. COMBUSTION CONTROL (Mfg. Name)

BAILEY & FIREYE

19. COMBUSTION

14.2 % CO₂

% EXCESS O₂

20. FLUE GAS TEMPERATURE

AFTER BOILER 405 °F ; AFTER HEAT TRAP °F

SAFETY DEVICES

SAFETY VALVES

21. MANUFACTURER

Consolidated

22. NUMBER AND SIZE

2-3" - 1-6"

23. PSI SETTING

173-188

24. CONDITION

Good

STEAM PRESSURE GAUGE

25. MANUFACTURER

ASHCROFT

26. CORRECTIONS

WATER LEG CONSTANT _____ psi; OTHER _____ psi

27. REASON IF NOT TESTED

FIRING EQUIPMENT

ITEM	IN SERVICE	ALTERNATE
28. MANUFACTURER	FABER OIL BURNER	RILEY STOKER
29. TYPE	GUN	HAMMER & PEGS
30. FUEL GRADE	#6	COAL

31. INSPECTOR'S COMMENTS

32. ATTACHMENT(S) (Check)

COPY OF INSPECTOR'S REPORT

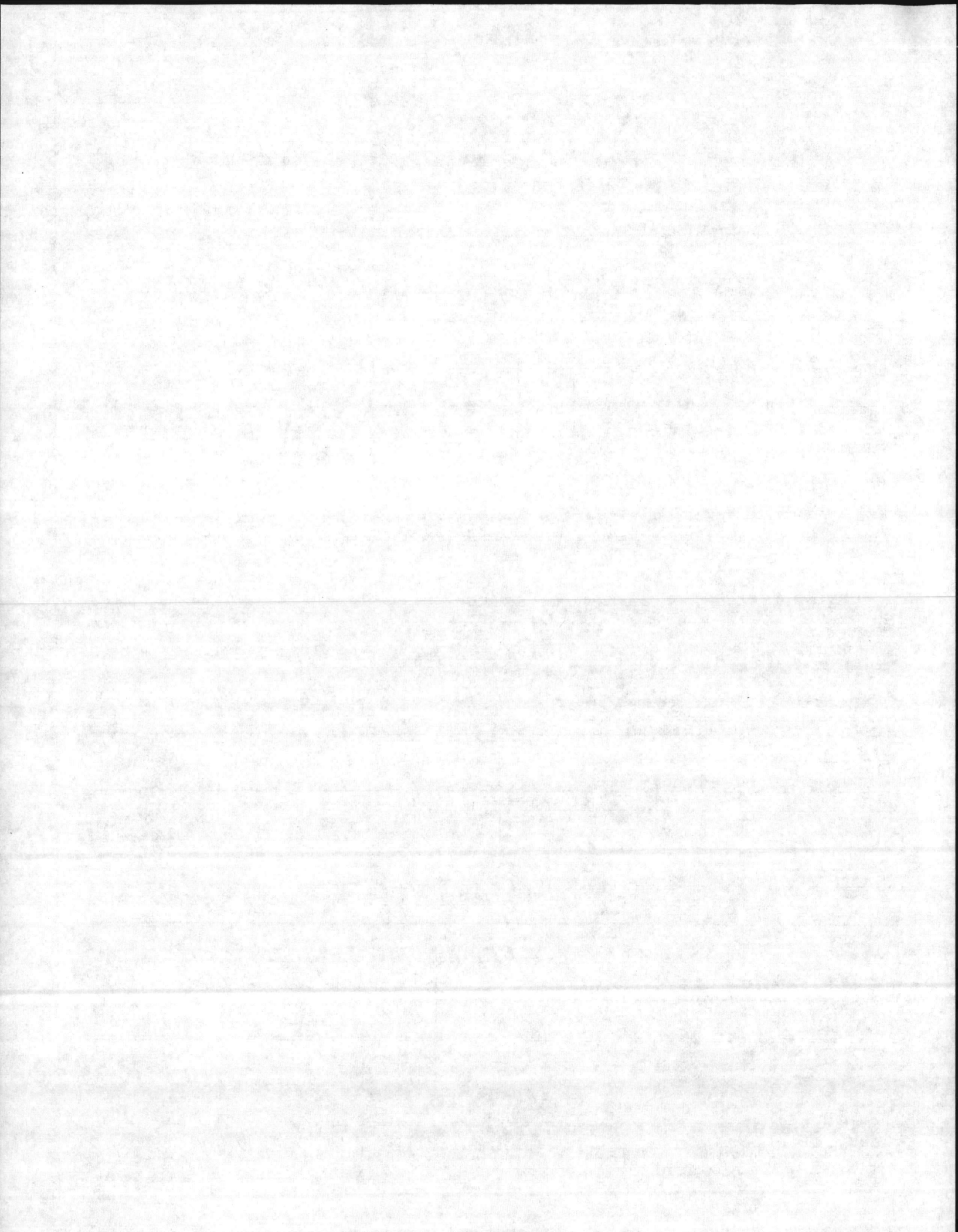
SPECIAL COMMENTS

33. SIGNATURE

VIRGIL O. RISSELL
 Head, Utilities Management

BY DIRECTION

Branch



DATE OF INSPECTION
 8-1-72

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

1. FROM
 COMPLANTNAVFACENG.COM
 2. TO
 CAMP LEJEUNE ATTN UTIL OFFICER

14. CERTIFICATE ISSUED YES NO
 3/10/73

15. BOILER INSPECTOR
 W. W. Millett
 NAVY OR NATIONAL BOARD NO.
 NAVFAC 72
 16. REASON FOR NOT ISSUING CERTIFICATE

BOILER DATA

3. MANUFACTURER
 RILEY STOKER COY
 4. PROPERTY NO. 4
 5. MFG. SERIAL NO. 1978
 6. MFG. MODEL NO. P25-25-W-W
 7. BUILDING NO. 1700
 8. YEAR BUILT 1942
 9. CAPACITY 100,000 #/hr
 10. FUEL (Check)
 COAL OIL GAS
 11. PRESSURE
 DESIGNED 193 psi OPERATING 150 psi TEST psi
 12. FEED WATER TREATMENT
 SATISFACTORY UNSATISFACTORY
 13. TYPE
 WATER TUBE FIRE TUBE C. I.

17. BOILER USE
 EXPORT
 18. COMBUSTION CONTROL (Mfg. Name)
 A.W. CRASH & BECKMAN
 19. COMBUSTION
 12.2 % CO₂ _____ % EXCESS O₂
 20. FLUE GAS TEMPERATURE
 AFTER BOILER 435 °F ; AFTER HEAT TRAP _____ °F

SAFETY DEVICES
 SAFETY VALVES

21. MANUFACTURER
 CONSOLIDATED
 22. NUMBER AND SIZE
 2-3" 1/6"
 23. PSI SETTING
 168
 175-184
 24. CONDITION
 Good

STEAM PRESSURE GAUGE

25. MANUFACTURER
 Ashcroft
 26. CORRECTIONS
 WATER LEG CONSTANT _____ psi; OTHER _____ psi
 27. REASON IF NOT TESTED

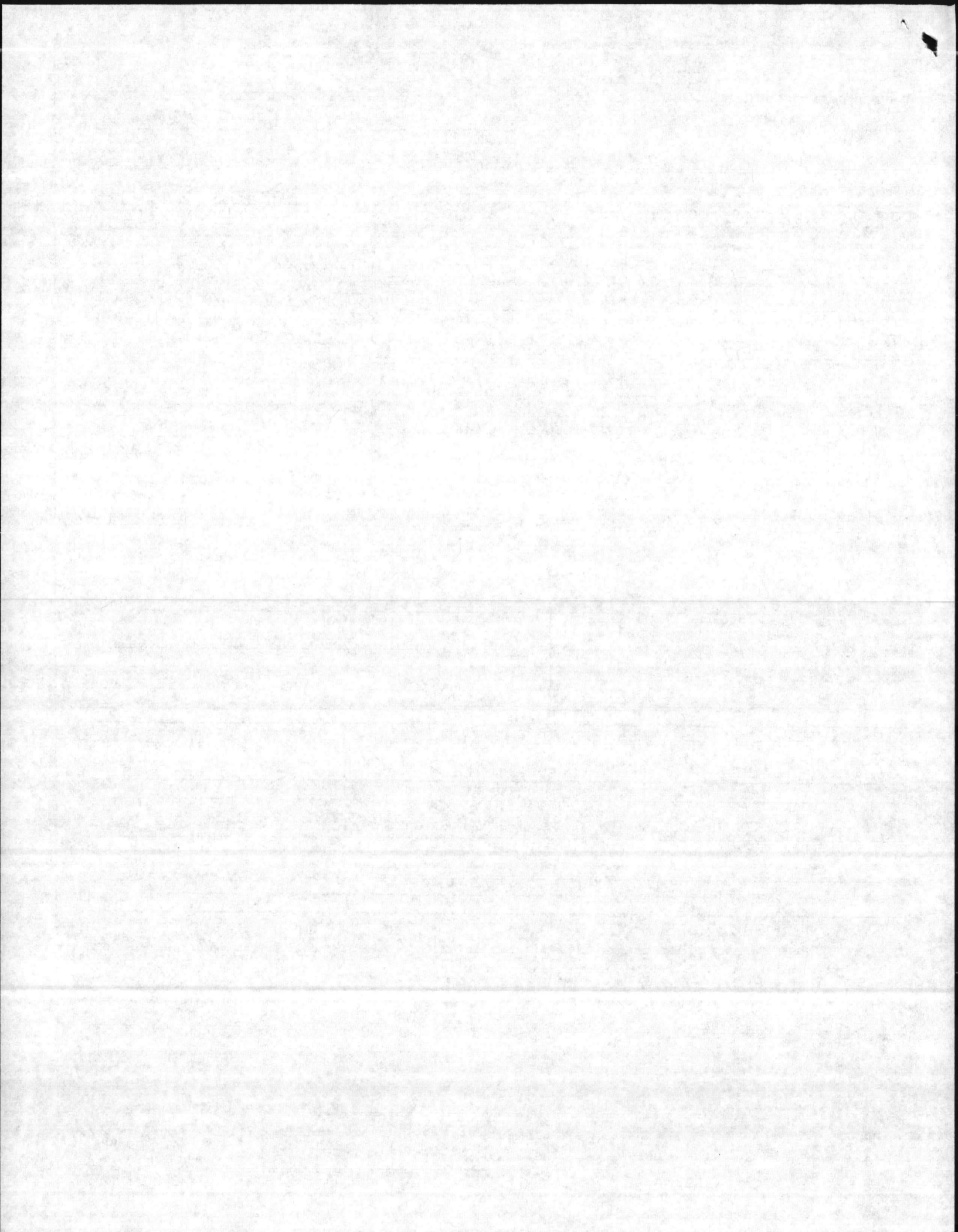
FIRING EQUIPMENT

ITEM	IN SERVICE	ALTERNATE
28. MANUFACTURER	RILEY STOKER	ENCO OIL BURNER
29. TYPE	HAMMER & PEG & COALMIL GON	
30. FUEL GRADE	COAL	#6

31. INSPECTOR'S COMMENTS

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

33. SIGNATURE
 VIRGIL O. RISSELL
 Head, Utilities Management
 Branch
 BY DIRECTION



DATE OF INSPECTION
 3/31/72 TO 4/5/72

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

1. FROM
 COMLANTNAVFACENGCOM

14. CERTIFICATE ISSUED YES NO
 EXPIRES 9/24/72
 15. BOILER INSPECTOR

2. TO
 CAMP LEJEUNE ATTEN UTIL OFFICER

W. O. Russell
 NAVY OR NATIONAL BOARD NO.
 NAVFAC 32
 16. REASON FOR NOT ISSUING CERTIFICATE

BOILER DATA

3. MANUFACTURER
 RILEY STOKER COY

4. PROPERTY NO. 4 5. MFG. SERIAL NO. 1978 6. MFG. MODEL NO. P-25-25-W

7. BUILDING NO. 1700 8. YEAR BUILT 1942 9. CAPACITY 100,000 #/hr

10. FUEL (Check) COAL OIL GAS 11. PRESSURE
 DESIGNED 193 psi OPERATING 150 psi TEST 300 psi

12. FEED WATER TREATMENT SATISFACTORY UNSATISFACTORY 13. TYPE WATER TUBE FIRE TUBE C. I.

17. BOILER USE
 HEATING

19. COMBUSTION
 % CO₂ _____ % EXCESS O₂ _____

18. COMBUSTION CONTROL (Mfg. Name)
 BECKMAN

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

SAFETY DEVICES
 SAFETY VALVES

21. MANUFACTURER CONSOLIDATED 22. NUMBER AND SIZE 2-3" - 1-6"

23. PSI SETTING 24. CONDITION

25. MANUFACTURER ASHEROFT 26. CORRECTIONS
 WATER LEG CONSTANT _____ psi; OTHER _____ psi

27. REASON IF NOT TESTED

FIRING EQUIPMENT

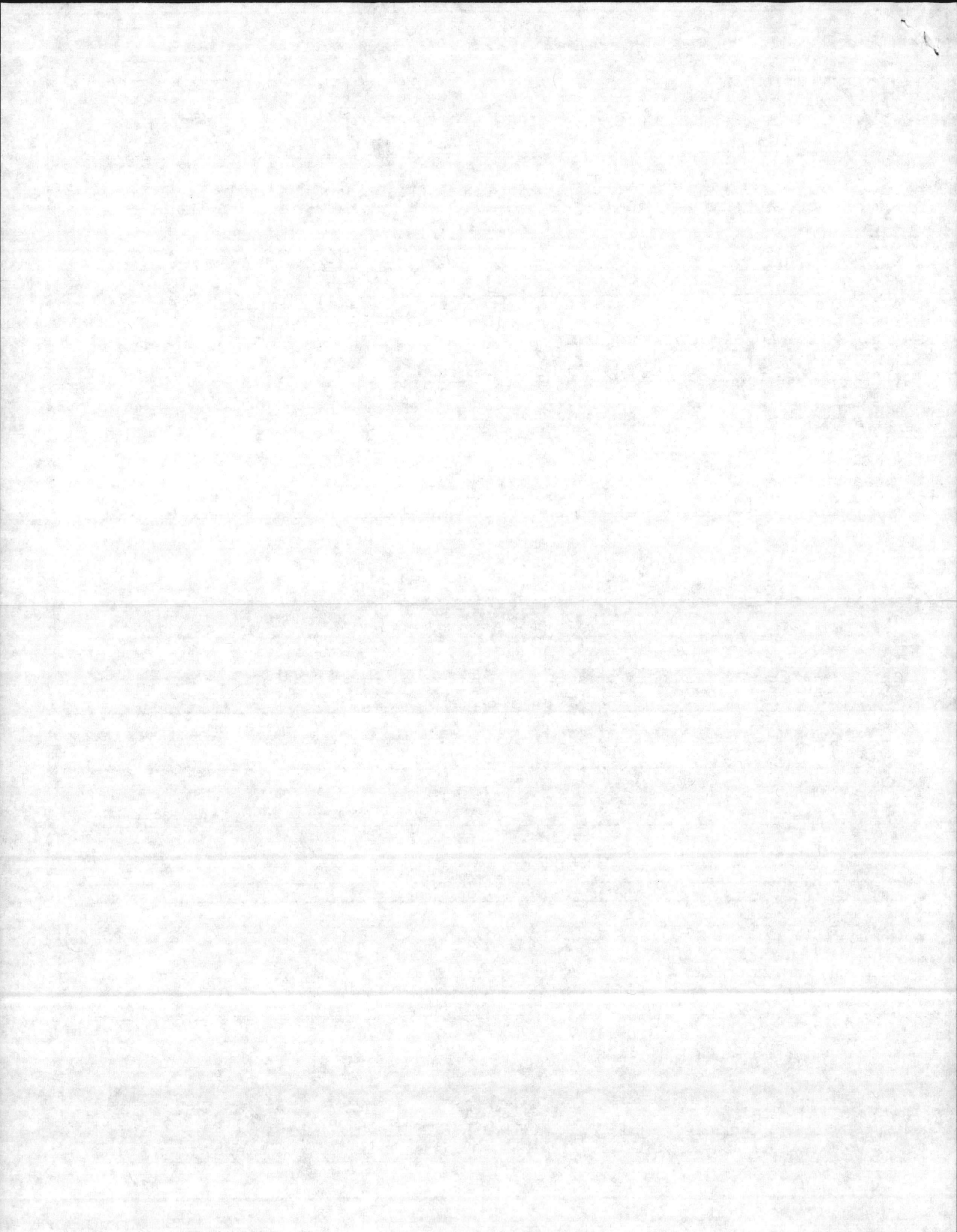
ITEM	IN SERVICE	ALTERNATE
28. MANUFACTURER	RILEY STOKER MILLS	ENCO OIL BUCKER
29. TYPE	HAMMER & PEGS	QUN
30. FUEL GRADE	COAL	#6.

31. INSPECTOR'S COMMENTS

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

33. SIGNATURE
 VIRGIL O. RISSELL
 Head, Utilities Management
 Branch

BY DIRECTION
 W. O. Russell



DATE OF INSPECTION
 10-5-71

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

1. FROM Atlantic Division
 Naval Facilities Engineering Command
 Norfolk, Virginia 23511

2. TO
 CAMP LEJEUNE UTIL OFFICER

BOILER DATA

3. MANUFACTURER
 RILEY STOKER COY

4. PROPERTY NO. 4
 5. MFG. SERIAL NO. 1978
 6. MFG. MODEL NO. P-25-25-WW

7. BUILDING NO. 1700
 8. YEAR BUILT 1942
 9. CAPACITY 100,000 #/HR

10. FUEL (Check)
 COAL OIL GAS
 11. PRESSURE
 DESIGNED 193 psi OPERATING 150 psi TEST psi

12. FEED WATER TREATMENT
 SATISFACTORY UNSATISFACTORY
 13. TYPE
 WATER TUBE FIRE TUBE C. I.

17. BOILER USE
 HEATING

18. COMBUSTION CONTROL (Mfg. Name)
 AW CASH - BECKMAN

19. COMBUSTION
 11.9 % CO₂ % EXCESS O₂

20. FLUE GAS TEMPERATURE
 AFTER BOILER 490 °F ; AFTER HEAT TRAP °F

SAFETY DEVICES
 SAFETY VALVES

21. MANUFACTURER
 CONSOLIDATED

22. NUMBER AND SIZE 2-3" 1-6"
 23. PSI SETTING 170-182
 24. CONDITION Good

25. MANUFACTURER
 ASHCROFT

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

27. REASON IF NOT TESTED

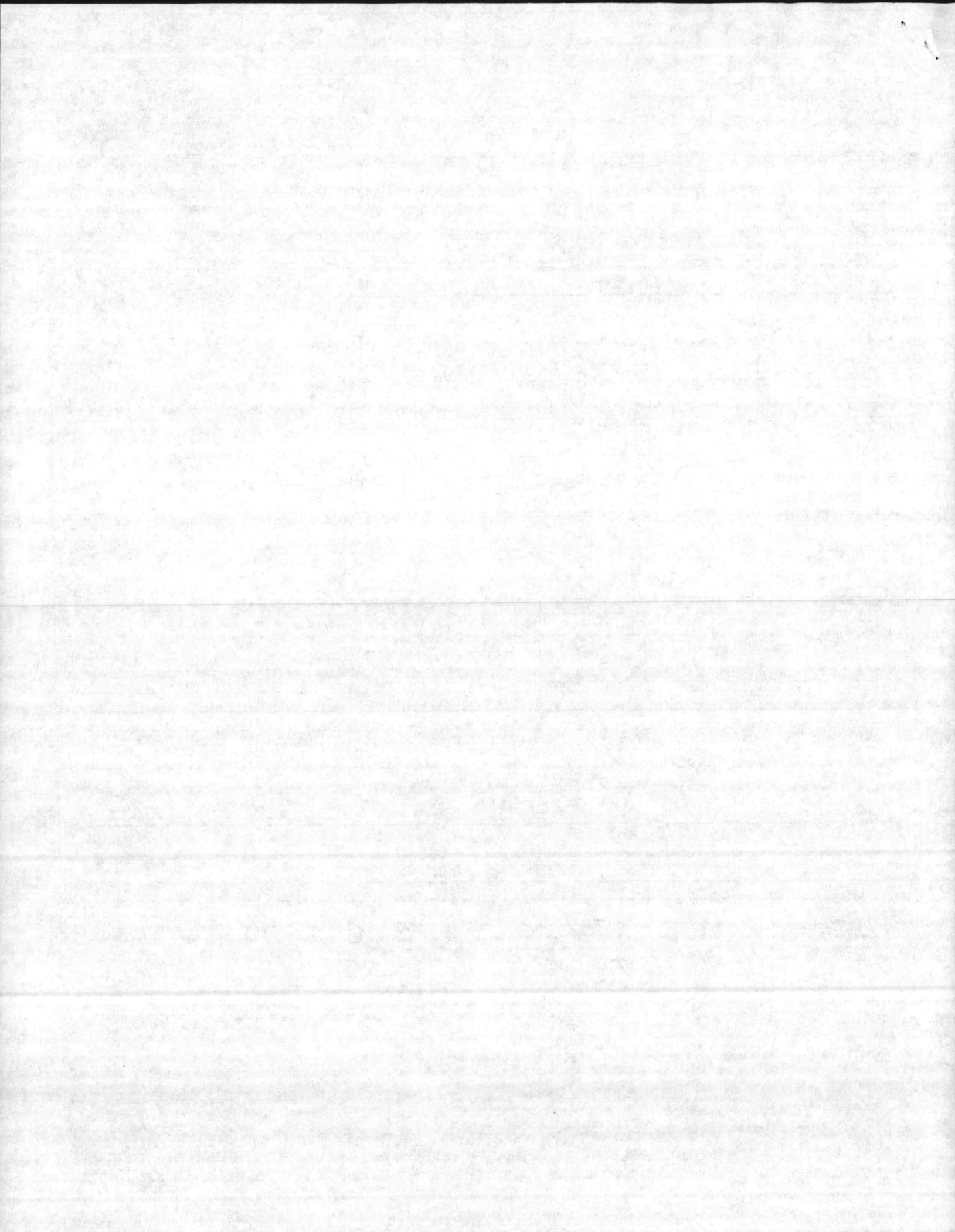
FIRING EQUIPMENT

ITEM	IN SERVICE	ALTERNATE
28. MANUFACTURER	RILEY STOKER	ENCO OIL BURNER
29. TYPE	COAL MILLS	GUN
30. FUEL GRADE	COAL	#6.

31. INSPECTOR'S COMMENTS

ATTACHMENT(S) (Check)
 COPY OF INSPECTOR'S REPORT SPECIAL COMMENTS

33. SIGNATURE
 VIRGIL O. RISSELL
 Head, Util Management
 Branch BY DIRECTION



DATE OF INSPECTION
 12 TO 26 July 71

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

1. FROM
 COALANT DIV NAVFASENGCOM

14. CERTIFICATE ISSUED YES NO
 EXPIRES - 11-7-71

2. TO
 CAMP LEJEUNE ATTN UTIL OFFICER

15. BOILER INSPECTOR
 W. M. D. [Signature]
 NAVY OR NATIONAL BOARD NO.
 NAVFAC Y 22

BOILER DATA

3. MANUFACTURER
 RILEY STOKER COY P

4. PROPERTY NO. 4 5. MFG. SERIAL NO. 1978 6. MFG. MODEL NO. P-25-25-WL

7. BUILDING NO. 1700 8. YEAR BUILT 1942 9. CAPACITY 100,000 #/HR

10. FUEL (Check) COAL OIL GAS 11. PRESSURE
 DESIGNED 193 psi OPERATING 150 psi TEST 300 psi

12. FEED WATER TREATMENT SATISFACTORY UNSATISFACTORY 13. TYPE WATER TUBE FIRE TUBE C. I.

17. BOILER USE
 HEATING

19. COMBUSTION
 % CO₂ _____ % EXCESS O₂ _____

18. COMBUSTION CONTROL (Mfg. Name)
 BECKMAN

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

SAFETY DEVICES
 SAFETY VALVES

21. MANUFACTURER
 CONSOLIDATED

22. NUMBER AND SIZE
 2-3" 1-6"

23. PSI SETTING

24. CONDITION

STEAM PRESSURE GAUGE

25. MANUFACTURER
 ASHCROFT

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

27. REASON IF NOT TESTED

FIRING EQUIPMENT

ITEM	IN SERVICE	ALTERNATE
28. MANUFACTURER	RILEY COAL MILL	ENCO OIL BURNER
29. TYPE	HAMMER & PEGS	GUN
30. FUEL GRADE	COAL	#6

31. INSPECTOR'S COMMENTS

1-AIR HEATER IS UNDER REPAIR.

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

33. SIGNATURE
 VIRGIL O. RISSELL
 Head, Utilities Management
 Branch

[Signature]
 DIRECTION

