

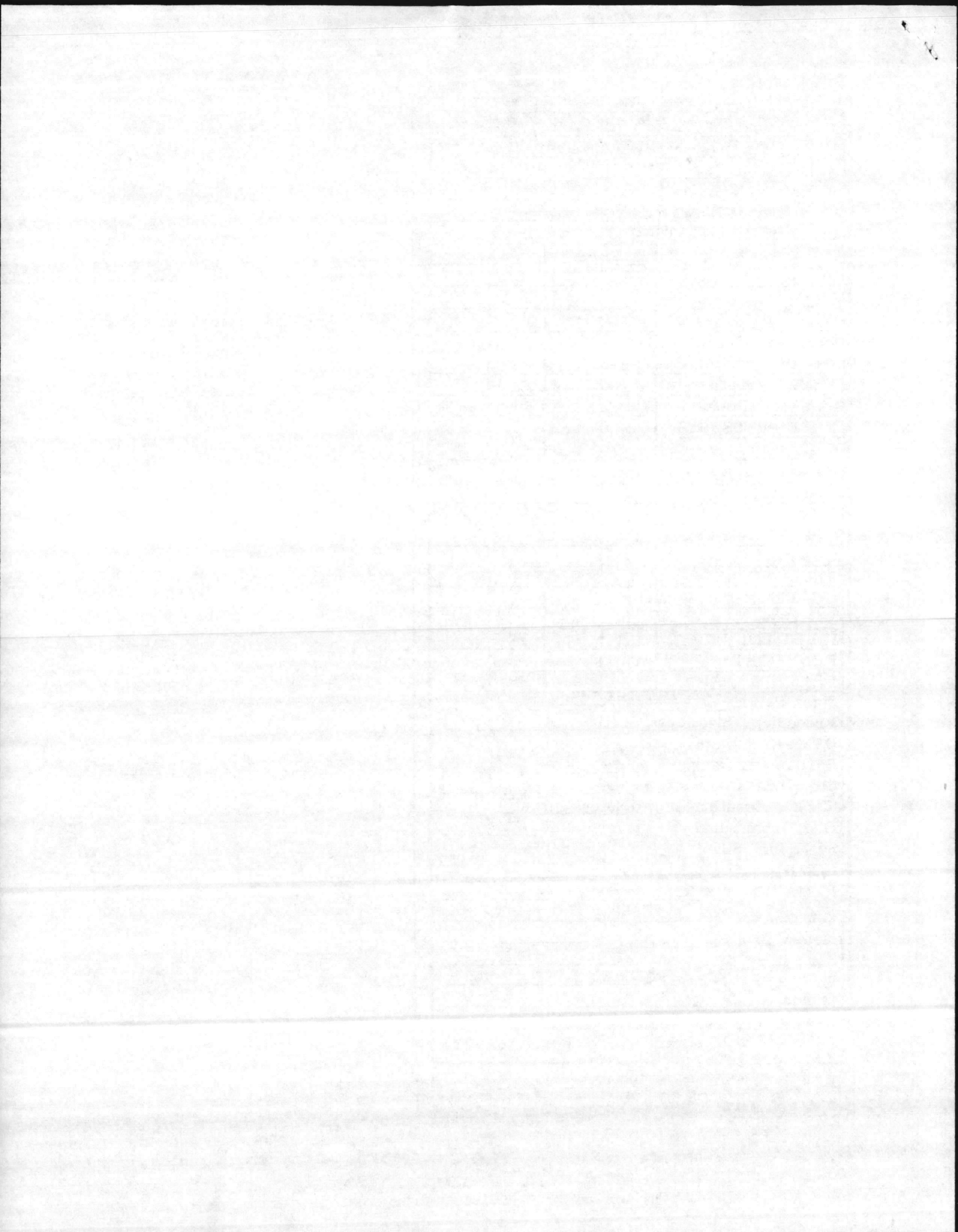
Boiler #19

JOB CAMP LEJEUNE Bldg. LCH 4022
 UNIT: Mfr SUPERIOR Size 3-7-5-75
 Rated Input _____ MBH _____ GPH# 2 OIL
 BURNER: Mod R. Co. 9-0-03
 UL Serial No 56602
 COMBUSTION TESTS:

	GAS		OIL	
	HI	LO	HI	LO
CO ₂ -%			10.5	
CO ₂ -%/SMOKE-# /			8.0	
DRAFT: Overfire				
Outlet				
TEMP. Outlet			435	
Room			60	
FUEL PRESSURES:				
Orifice/Nozzle				
Bypass <u>VACUUM</u>			10"	11"
Atomizing Air				
PUMP: Disch-PSI			300	100
Suct. "Hg				
GAS INLET				
AIR COMP. PSI				
OIL TEMP-Deg. F-Inlet				
Outlet				
INLET LOUVER-"			18"	
PRI/SEC AIR-%				
FLAME SIGNAL			5	5
Stack Height <u>25'</u> ft. Size _____				
Breeching: Size <u>N/A</u> Lgth <u>N/A</u>				
DAMPER: Unit-%Open <u>N/A</u> Breeching <u>N/A</u>				
Barometric Damper <u>N/A</u> Size <u>N/A</u>				
Seq. Draft Control <u>N/A</u>				
TANK: Location-Above/ <u>Below</u> Burner				
Dist. from pump <u>50'</u> Vert. Lift <u>10'</u>				
Suct. Line Size <u>1/2"</u> <u>Copper</u> /Pipe				
COMBUSTION AIR INLET: Size <u>2 1/2' X 2 1/2'</u>				
REMARKS <u>IF CO2 ANY HIGHER</u> <u>to much smoke will</u> <u>RUN TEST.</u>				
Startup by <u>Jim Davis</u>				
Owner <u>J.H. T.</u>				
Date <u>10-20-87</u>				

Form No. 1210

JOB SITE COPY



INSPECTION REPORT-BOILERS
 NAVFAC 9-11014/41 (3/87)
 Supersedes NAVDOCKS 2544
 S/N 0105-LF-004-0000

DATE OF INSPECTION
 29 OCT 1987

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

BOILER DATA

3. MANUFACTURER **FITZGERIBONS**
 4. PROPERTY NO. **19** 5. MFG. SERIAL NO. **H 22244** 6. MFG. MODEL NO. **R-M-511**
 7. BUILDING NO. **LCH 4022** 8. YEAR BUILT **1956** 9. CAPACITY **300,000 BTU/HR.**
 10. FUEL (Check) COAL OIL GAS
 11. PRESSURE DESIGNED **30** psi OPERATING **12** psi TEST **-** psi
 12. FEED WATER TREATMENT SATISFACTORY UNSATISFACTORY
 13. TYPE WATER TUBE FIRE TUBE C. I.

15. BOILER INSPECTOR
Thomas L. Lavin
 NAVY OR NATIONAL BOARD NO

16. REASON FOR NOT ISSUING CERTIFICATE
NAVFAC 239

**BOILER HAS BEEN
 REMOVED UNDER
 CONTRACT # 85-6439**

17. BOILER USE **HEATING**
 19. COMBUSTION
 _____ % CO₂ _____ % EXCESS O₂

18. COMBUSTION CONTROL (Mfg. Name) **HONEYWELL**
 20. FLUE GAS TEMPERATURE
 AFTER BOILER _____ °F AFTER HEAT TRAP _____ °F

**SAFETY DEVICES
 SAFETY VALVES**

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

STEAM PRESSURE GAUGE

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

FIRING EQUIPMENT

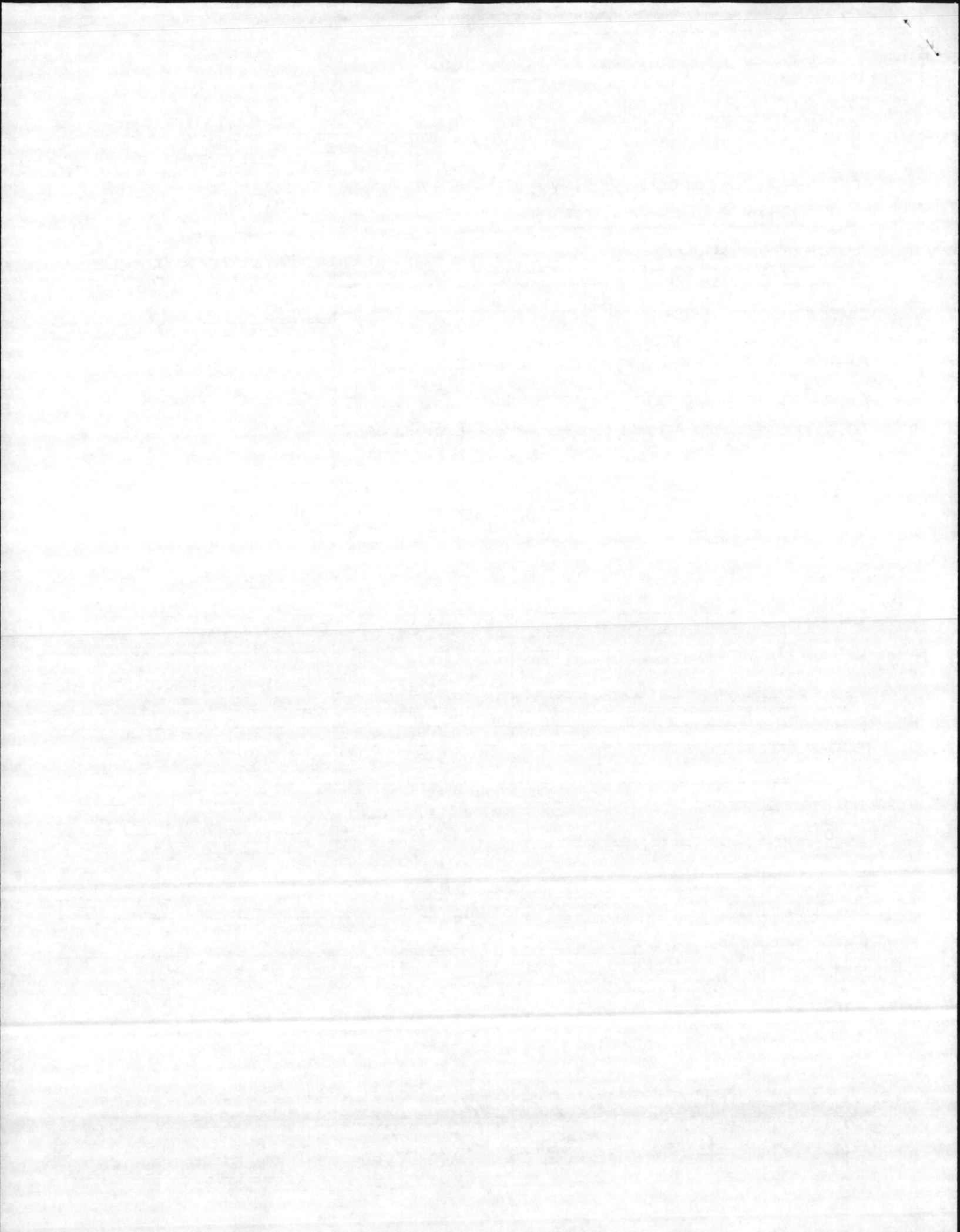
ITEM	IN SERVICE	ALTERNATE
28. MANUFACTURER	RADIANT	
29. TYPE	NOZZLE SPRAY	
30. FUEL GRADE	#2	

31. INSPECTOR'S COMMENTS

HAS BEEN REPLACED BY NEW UNIT.

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

33. SIGNATURE
Timothy J. Judd 11/2/87 BY DIRECTION



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

DATE OF INSPECTION
 1 JULY - 30 OCT 1987

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 **NAVFACENCOM
 NORFOLK, VA**

14. CERTIFICATE ISSUED YES NO
 EXPIRES 1 JULY 1988
 15. BOILER INSPECTOR

Thomas L. Lanier
 NAVY OR NATIONAL BOARD NO

NAVFAC 239
 16. REASON FOR NOT ISSUING CERTIFICATE

BOILER DATA

3. MANUFACTURER
SUPERIOR BOILER CO.
 4. PROPERTY NO. **19** 5. MFG. SERIAL NO. **9991** 6. MFG. MODEL NO. **3-7.5-75**
 7. BUILDING NO. **LCH 4022** 8. YEAR BUILT **1987** 9. CAPACITY **502 MBH**
 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 **10.5** % CO₂ **4.0** % EXCESS O₂ 20. FLUE GAS TEMPERATURE
 AFTER BOILER **325** °F AFTER HEAT TRAP _____ °F

SAFETY DEVICES

SAFETY VALVES

21. MANUFACTURER **WATTS** 22. NUMBER AND SIZE **1 - 3/4"** 23. PSI SETTING **30** 24. CONDITION **SAT.**

STEAM PRESSURE GAUGE

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

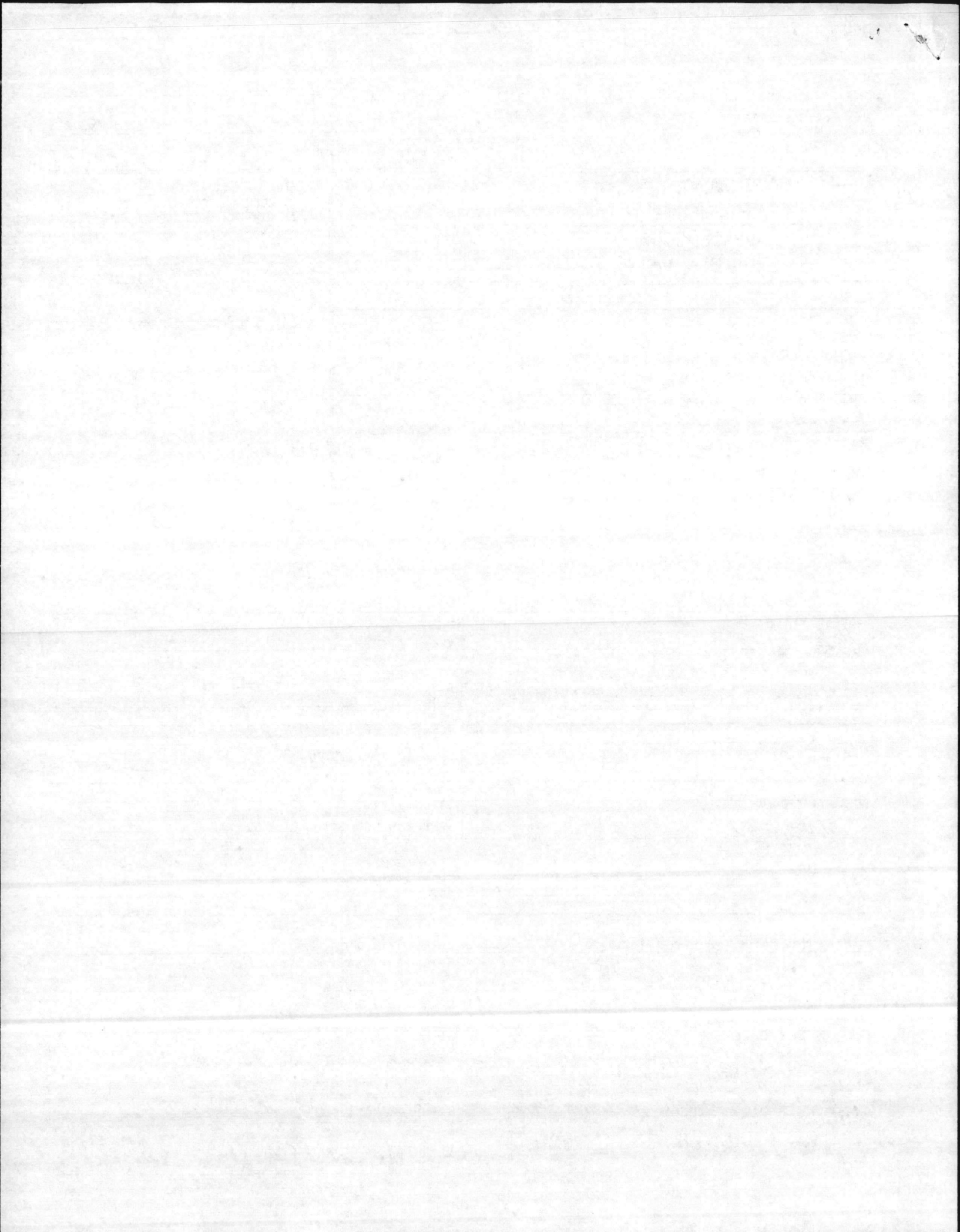
FIRING EQUIPMENT

ITEM	IN SERVICE	ALTERNATE
28. MANUFACTURER	GORDON PIATT	
29. TYPE	NOZZLE SPRAY	
30. FUEL GRADE	#2	

31. INSPECTOR'S COMMENTS
NEW BOILER INSTALLED UNDER CONTRACT # 85-6439
NEW BOILER WILL RETAIN SAME PROPERTY NO AS OLD UNIT.

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

33. SIGNATURE
Timothy J. [Signature] 11/12/87
 BY DIRECTION



MFGRS. SERIAL NO. 9991	MFGRS. MODEL NO. 3-7.5-75	MANUFACTURER SUPERIOR	DATE OF SHEET 14 OCT 1987
TYPE OF SUPERHEATER	FURNACE VOLUME CU. FT.	OPERATION <input checked="" type="checkbox"/> AUTOMATIC <input type="checkbox"/> SEMI-AUTOMATIC <input type="checkbox"/> MANUAL	USE <input type="checkbox"/> EXPORT <input type="checkbox"/> ELEC. POWER GENERATION <input type="checkbox"/> LAID UP - WET <input type="checkbox"/> LAID UP - DRY <input checked="" type="checkbox"/> HEATING
TEMPERATURE AT SUPERHEATER OUTLET °F	HEATING SURFACE (SQ. FT.) BOILER 75 WATER WALL ECONOMIZER SUPERHEATER	PRESSURE (psig) DESIGN 30 MAWP INSTALLED WP 15	DATE BUILT 1987 DATE INSTALLED 1987
NORMAL FEEDWATER TEMPERATURE °F	DRUMS NO. _____ DIAMETER _____ IN. LENGTH _____ FT. _____ IN.	CAPACITY 15 HP _____ LB./HR _____ EDR 502 BTU/HR.	BOILER TYPE <input type="checkbox"/> C.I. <input checked="" type="checkbox"/> WATER TUBE <input checked="" type="checkbox"/> FIRE TUBE
(See Reverse Side for Fittings)	<input type="checkbox"/> RIVETED <input checked="" type="checkbox"/> FORGE WELDED <input checked="" type="checkbox"/> FUSION WELDED	AIR HEATER <input type="checkbox"/> NONE <input type="checkbox"/> TUBULAR <input type="checkbox"/> REGENERATIVE <input type="checkbox"/> STEAM	DRAFT <input type="checkbox"/> NATURAL <input checked="" type="checkbox"/> FORCED <input type="checkbox"/> INDUCED
			PRODUCES <input checked="" type="checkbox"/> STEAM <input type="checkbox"/> LOW TEMP. WATER <input type="checkbox"/> HIGH TEMP. WATER
			CIRCULATION <input checked="" type="checkbox"/> NATURAL <input type="checkbox"/> FORCED

	FUEL & FIRING EQUIPMENT IN SERVICE	ALTERNATE FUEL & FIRING EQUIPMENT	
FUEL	COAL <input type="checkbox"/> ANTHRACITE <input type="checkbox"/> BITUMINOUS GAS <input type="checkbox"/> NATURAL <input type="checkbox"/> MANUFACTURED	OIL <input checked="" type="checkbox"/> COMMERCIAL 1, 2, 4, 5, 6 <input type="checkbox"/> NAVY <input type="checkbox"/> OTHER _____ GAS <input type="checkbox"/> NATURAL <input type="checkbox"/> MANUFACTURED	COAL <input type="checkbox"/> ANTHRACITE <input type="checkbox"/> BITUMINOUS GAS <input type="checkbox"/> NATURAL <input type="checkbox"/> MANUFACTURED

	FUEL & FIRING EQUIPMENT IN SERVICE	ALTERNATE FUEL & FIRING EQUIPMENT	
FIRING EQUIPMENT	COAL - HAND FIRED COAL - STOKER <input type="checkbox"/> UNDERFEED - MULTIPLE RETORT <input type="checkbox"/> UNDERFEED - SINGLE RETORT <input type="checkbox"/> SPREADER - DUMP GRATE <input type="checkbox"/> SPREADER - VIBRATING GRATE <input type="checkbox"/> SPREADER - TRAVELING GRATE <input type="checkbox"/> CHAIN GRATE GAS <input type="checkbox"/> GAS RING <input type="checkbox"/> VENTURI TYPE	COAL - PULVERIZER <input type="checkbox"/> ATTRITION <input type="checkbox"/> BALL & RACE <input type="checkbox"/> BOWL MILL <input type="checkbox"/> TUBULAR OIL BURNERS <input checked="" type="checkbox"/> MECHANICAL <input type="checkbox"/> STEAM ATOMIZED <input type="checkbox"/> AIR ATOMIZED <input type="checkbox"/> ROTARY CUP	COAL - HAND FIRED COAL - STOKER <input type="checkbox"/> UNDERFEED - MULTIPLE RETORT <input type="checkbox"/> UNDERFEED - SINGLE RETORT <input type="checkbox"/> SPREADER - DUMP GRATE <input type="checkbox"/> SPREADER - VIBRATING GRATE <input type="checkbox"/> SPREADER - TRAVELING GRATE <input type="checkbox"/> CHAIN GRATE GAS <input type="checkbox"/> GAS RING <input type="checkbox"/> VENTURI TYPE

FIRING EQUIPMENT MANUFACTURER GORDON PLATT R6.9-0-03	PROPERTY NO. 19	BUILDING OR LOCATION LCH-4022	ACTIVITY BOILER 19 MCBCL
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DATA RECORD SHEET - BOILERS
 NAVFAC 8-11014/NO (8-88) Supersedes NAVDOCS 2589
 S/N 0105-003-70 10

FITTING	NUMBER	SIZE	MANUFACTURER	TYPE	SETTING	RANGE	PRESSURE CLASS
SAFETY VALVES	1	3/4"	WATTS		30		
STEAM OUTLET VALVES	1	2"	MILWAUKEE	GATE			200 WOG
BLOW-OFF VALVES	1	2"	HAMMOND (DRAIN VALVE)	GATE			150 WSP
FEEDWATER VALVES	1	3/4"	HAMMOND	GATE			150 WOG
WATER COLUMN							
FEEDWATER REGULATOR	1	3/4"	ASCO		12	10-25	100
WATER GAGES	1	4"	MARSHALLTOWN	ALTITUDE		0-60 PSI 60-260 OF	
STEAM GAGES							
SOOT BLOWERS							
FUSIBLE PLUGS							

NB # 9991

LWCO - McDONNELL 247-2 - 30 PSI

NOZZLE SIZE 1.75 - 90° B - DELAVAN @ 300 PSI

PROGRAMMER - HONEYWELL - TYPE R7795

BOILER INSPECTION CHECK LIST

CONTRACT # 85-6439

LOCATION	BLDG NO.	BOILER NO.	DATE
	LCH-4022	19	20-14 OCT-87

BOILER MFG. SUPERIOR Boiler Co.	OPERATING PRESS. 17	DESIGN PRESS. 30	CAP. 15 HP.
SERIAL NO. 999/	MODEL NO. 3-7-5-75	N.B. NO. 999/	

BURNER MFG. GORDON PIATT	FIRING RATE:	
STEAM CAGE NAME: MARSHALL TOWN	PRESS. 0-60 60-260	TEST

SV MFG WATTS	CAP 925,000 BTU/HO.	NO. 1	NO. 2	NO. 3	SIZE 3/4
		SET 30	OPEN 32.5	OPEN	CLOSE
		SET	OPEN	OPEN	CLOSE
		SET	OPEN	OPEN	CLOSE

CO2% H. 10.5	02% 6.0 8.0	STACK TEMP 430-375-400	COMB. EFF. 83.75	PURGE TIME
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NO. 1 FIREYE C/O	OK (3.5 SEC)	L/O	A/L
NO. 2 FIREYE C/O			A/L
HI-STEAM TEMP. C/O	OK @ 170 °F		A/L
EXCESS WATER STEAM TEMP. C/O	OK @ 190 °F	MAN-RESET-	A/L
HI OIL TEMP. C/O			A/L
HI OIL PRESS. C/O			A/L
LO OIL TEMP. C/O			A/L
LO OIL PRESS. C/O			A/L
LO ATOM AIR/STEAM C/O			A/L
NO. 1 LW C/O	OK	MAN-RESET	A/L
NO. 2 LW C/O			A/L
LO FURNACE DRAFT C/O			A/L
LO FIRE START C/O			A/L
TYPE OF FUEL 2	YEAR BUILT 1987		A/L

STARTED BOILER ON 10/30/87

HEAT SURFACE	Boiler	WATER WALL
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REMARKS: HI FIRE OIL PRESS ~~285~~ PSF 300
LOW FIRE OIL PRESS - 100 PSF-

NOZZLE SIZE - ~~3.0 GPH~~ 90° B 1.75 GPH 90° B (10/24/87)

1. Boiler ALTITUDE RAGE 4 PSI HIGH - AS PER TEST CARD
- *2. SUPERIOR Boiler Co., WILL SEND NAME PLATE DATE - TO CHANGE ON Boiler SHOWING CAPACITY OF BOILER
FIRE TEST ON NOZZLE SIZE - 1.75 GPH
CO2 - 10.5 02 8.0 TEMP 435 (375) EFF - 83.0%
- *3. HEATING CIRCULATING PUMP WANT RUN OK 10/30/87
- *4. Boiler NEEDS BOILING OUT. (INTERNAL INSP.)

~~3.0 x 1.7 = 5.1 GPH = 714,000 BTU~~

~~214 MBH x .80 = 521 MBH~~

FIRE CONTROL - HONEYWELL MODEL - R 7795
TYPE -

NOZZLE SIZE

1.75 @ 300 PSI - 3.03 GPH =

424 MBH INPUT = 339 MBH @ 80% EFF.

FORM H-2 MANUFACTURERS DATA REPORT FOR ALL TYPES OF EXCEPT WATERTUBE AND THOSE MADE OF CAST IRON As Required by the Provisions of the ASME Code Rules

APPROVED AS NOTED
 NOT APPROVED
 REVISE & SUBMIT
 KINSTON PLUMBING & HEATING

1. Manufactured and certified by SUPERIOR BOILER WORKS, INC.; 3524 E. 4TH, HUTCHINSON, KS 67501 DATE 4/10/86

2. Manufactured for KINSTON PLUMBING & HEATING; P.O. BOX 637; KINSTON, NC 28502-0637

3. Location of installation MARINE CORPS BASE, BLDG. LCH-4022, CAMP LEJEUNE, NC 28542

4. Unit identification FIREBOX 9991 --- --- 9991 1987
(complete boiler superheater waterwall, economizer etc) (mfr's serial no) (CRN) (drawing no) (Nat'l Bd no) (year built)

5. The chemical and physical properties of all parts meet the requirements of material specifications of the ASME BOILER AND PRESSURE VESSEL CODE. The design, construction and workmanship conform to ASME Code, Section IV, 1986
(year) (addenda (date)) (Code Case no)

6. Shells or drums 1 SA285C .312" 31 1/2" 38-1/8" --- ---
(no) (mat'l spec gr) (thickness (in)) (dia (ft)) (length (overall)) (dia (ft)) (length (overall))

7. Joints WELDED 85% --- 1
(long (seamless welded)) (off (as compared to seamless)) (girth (seamless welded)) (no of shell courses)

8. Tubesheet (2) SA285C .375" Tube holes 47 2.025"
(mat'l spec grade) (thickness)

9. Tubes. No SA178A STRAIGHT Dia. 2" Length 17 @ 38-5/8" 30 @ 20-3/8" Gauge 13
(mat'l spec grade) (straight or bent) (if various, give max & min) (or thickness)

10. Heads SA285C .687" FLAT ---
(mat'l specification no) (thickness) (flat, dished, ellipsoidal) (radius of dish)

11. Furnace SA285C .312" 1 25-5/8"OD 19-7/8" 19-7/8" PLAIN Seams: WELDED
(mat'l spec gr) (thickness) (no) (size (OD or W x H)) (length (each section)) (total) (type (plain, corrugated, etc)) (type (seamless, welded))

12. Staybolts 28 3/4" SA36 --- NONE .4418" 9" 30
(no) (size (dia)) (mat'l spec gr) (size) (material) (net area) (pitch (hor and vert)) (MAWP (psi))

13. Stays or braces

Location	Mat'l Spec	Type	No & Size	Pitch	Total Net Area	Fig Hts Jct UT	Dist Tubes to Shell	Area to be Stayed	MAWP psi
(a) FH above tubes									
(b) RH above tubes									
(c) FH below tubes									
(d) RH below tubes	SA36	STR.	(9) 3/4"	9 1/2"	3.98"	---	---	---	30
(e) Through stays	SA36	STR.	(2) 3/4"	9"	.88"	---	---	---	30

14. Other parts 1 INNER TUBESHEET 2 CROWNSHEET & SIDEWALLS 3 WATERLEG BASE 4. BURNER TUBE
(brief description - ie dome, boiler piping, etc)

1 SA285C .687" 30 PSI
2 SA285C .312" 30 PSI
3 SA285C .312" 30 PSI
4. SA53B 14"OD, 8"L, .375" 30 PSI (mat'l spec grade size material thickness MAWP)

15. Nozzles, inspection and safety valve openings

Purpose (inlet, outlet, drain, etc)	No	Dia or Size	Type	How Attached	Mat'l	Nom Thickness	Reinforcement Mat'l	Location
Handhole up to 3" x 4" Manhole	3	3" x 4"	ELLIP.	NA	NA	NA	NA	SHELL
Outlet	1	3"	CPL.	WELDED	SA105	.327"	NA	SHELL
Safety Valve	1	1"	CPL.	WELDED	SA105	.196"	NA	SHELL
Inlet	1	3"	CPL.	WELDED	SA105	.327"	NA	REAR TUBESHEET
Drain	4	2"	CPL.	WELDED	SA105	.238"	NA	(2) SHELL

16. Boiler supports 1 STEEL SKID BASE WELDED
(no) (type (saddles, legs, lugs)) (attachment (bolted or welded))

17. Design pressure 30 Based on HG301 Heating surface 75 SQ. FT. Shop hydro. test 60
(psi) (code per ASME formula) (sq ft or kW (total)) (psi (complete boiler))

18. Remarks: Manufacturers' Partial Data Reports properly identified and signed by Commissioned Inspectors have been furnished for the following items of this report

(name of part, item number, mfr's name and identifying stamp)

CERTIFICATE OF SHOP COMPLIANCE

We certify that the statements made in this data report are correct and that all details of design, material, construction, and workmanship of this boiler conform to the ASME BOILER AND PRESSURE VESSEL CODE, SECTION IV.

"H" Certificate of Authorization no 3967 expires MARCH 30 1988
Date Mar 4, 1987 Name SUPERIOR BOILER WORKS, INC. Signed Phillip A. Smith (by representative)

CERTIFICATE OF SHOP INSPECTION

Boiler constructed by SUPERIOR BOILER WORKS, INC. at HUTCHINSON, KS
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the state of HARTFORD, CT and employed by H.S.B.I. & I. CO. have inspected parts of this boiler referred to as data items 6 through 18 and have examined Manufacturers' Partial Data Reports for items

and state that, to the best of my knowledge and belief, the manufacturer has constructed this boiler in accordance with the applicable sections of the ASME BOILER AND PRESSURE VESSEL CODE.
By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the boiler described in this Manufacturers' Data 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.
Date 3-4-87 Signed Bill Dumber Commissions NB8286

CERTIFICATE OF FIELD ASSEMBLY COMPLIANCE

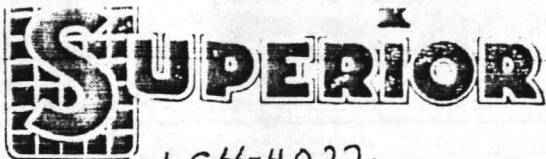
We certify that the field assembly construction of all parts of this boiler conforms with the requirements of SECTION IV of the ASME BOILER AND PRESSURE VESSEL CODE.

"H" Certificate of Authorization no. expires 19
Date Name Signed (by representative)

CERTIFICATE OF FIELD ASSEMBLY INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the state of and employed by of have compared statements in this Manufacturers' Data Report with the described boiler and state that the parts referred to as data items not included in the certificate of shop inspection, have been inspected by me and that to the best of my knowledge and belief the manufacturer and/or the assembler has constructed and assembled this boiler in accordance with the applicable sections of the ASME BOILER AND PRESSURE VESSEL CODE. The described boiler was inspected and subjected to a hydrostatic test of psi.
By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the boiler described in this Manufacturers' Data 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.

Date Signed Commissions (Authorized Inspector) (Nat'l Bd (incl endorsements) state, prov and no)



LCH-4022

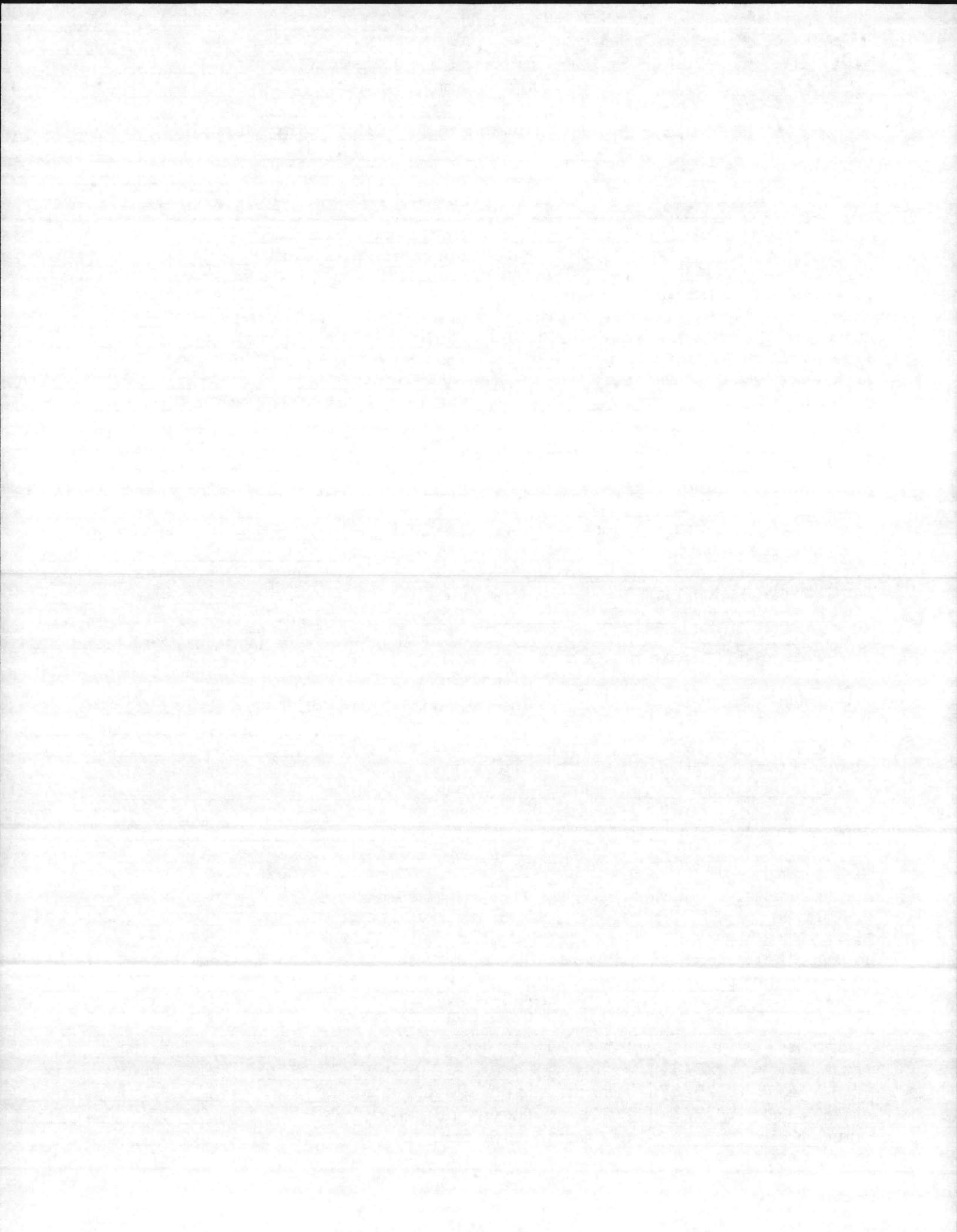
SALES ORDER NO. 50092 NAT'L BOARD NO. 9994
 DATE RECEIVED: 1/27/87 SHIPPING DATE: WK. OF 3/30/87
 STATUS: W.A.&R. RELEASED DATE: _____
 JOB: Camp Lejeune
Bldg. AS-3502
 SOLD TO: Kinston Plbg. & Htg. P.O. NO.
P. O. Box 637
Kinston, NC 28502-0637
 SUBMITTAL REQ'D: 2 SETS CERTIFIED
 R & D SHEET W.D. NUMBER: _____
 DATE REQ'D: _____ MANUALS REQ'D: 9 SETS, SPARE PARTS LIST - SEND TO: _____

BOILER: MODEL NO. 3-5.3-75-S15-M
 NOMINAL H.P. 14 OUTPUT 468 MBH
 DESIGN PRESSURE 15 P.S.I.G. STEAM WATER
 PER A.S.M.E. CODE SECTION IV
 NAME PLATE: Osage PAINT: Blue
 TURBULATORS: COMBUSTION RELIEF DOORS
 STEAM NOZZLE: STD SPL
 STACK DAMPER: PLAIN W/BEARINGS
 MOTORIZED _____ ()
 STACK THERMOMETER: _____ (L)
 DIA. _____ STEM LGTH. _____ RANGE _____ °F
 SAFETY VALVE(S): Kunkle (L)
 (1) #740 SIZE 2x2 SET@ 15 PSIG
 () _____ SIZE _____ SET@ _____ PSIG
 () _____ SIZE _____ SET@ _____ PSIG
 WATER COLUMN BLOWDOWN VALVE(S) _____ ()
 () _____ TYPE _____ SIZE _____
 FEEDWATER VALVE(S): RS LS _____ ()
 () _____ TYPE _____ SIZE _____
 () _____ TYPE _____ SIZE _____
 MOTORIZED: ON-OFF MODULATING SOLENOID
 _____ SIZE _____ ()
 3-VALVE BY-PASS: _____ ()
 () _____ TYPE _____ SIZE _____
 () _____ TYPE _____ SIZE _____
 BLOWDOWN VALVE(S) RS LS _____ ()
 () _____ TYPE _____ SIZE _____
 () _____ TYPE _____ SIZE _____
 SURFACE BLOWDOWN VALVE: RS LS _____ ()
 _____ SIZE _____
 BLENDING PUMPS: _____ ()
 SHUT-OFF VALVES _____ TYPE _____ SIZE _____ ()
 FLOW SWITCHES _____ ()
 SPECIAL INSTRUCTIONS: Unit to have rear smoke outlet - horizontal.

CONTROL PACKAGE: VOLTAGE _____
 BOILER JUNCTION BOX: N.E.M.A. _____ RS LS
 WATER COLUMN: RS LS W/GAUGE GLASS TRYCOCKS _____ (L)
 PRIMARY L.W.C.O.: RS LS TOP _____ (L)
MM157
 AUX. L.W.C.O.: RS LS TOP _____ (L)
MM47-2
 HIGH WATER: RS LS TOP _____
 CUTOFF ALARM _____ ()
 GAUGE: PRESSURE W/ GAUGE/TEST COCKS
 TEMPERATURE TRIDICATOR RANGE _____
 _____ DIAL _____ RANGE _____ (L)
 () OPERATOR _____ RANGE _____ ()
 () LIMIT _____ RANGE _____ ()
 () FIRING RATE _____ RANGE _____ ()
 () _____ RANGE _____ ()
 () _____ RANGE _____ ()
 OIL PREHEATER: RS LS STEAM STEAM/ELECTRIC
 ELECTRIC WATER/ELECTRIC KW _____ VOLTAGE _____ ()
 WATER PUMP: _____ H.P. _____ ()
 () SHUT-OFF VALVE(S) _____ SIZE _____ ()
 TEMP. REG. VALVE _____ RG. _____ SIZE _____ ()
 PRESS. RED. VALVE _____ RG. _____ SIZE _____ ()
 INLET PRESSURE _____ PSIG DISCHARGE PRESSURE _____ PSIG
 TRAP _____ SIZE _____ ()
 STRAINER _____ SIZE _____ ()
 THERMOMETER _____ RG. _____ SIZE _____ ()
 BY-PASS OIL RELIEF VALVE _____ SIZE _____ ()
 SET @ _____ PSIG
 () OIL PRESS. GAUGE _____ RANGE _____ ()
 () OIL STRAINER _____ SIZE _____ ()

for GP R6-0-03 direct spark. No pressuretrols or junction box.

COMPLETED BY: _____ DATE 1/27/87
 SALES: JER 1/27/87
 ENG: ALS 1/29/87
 SCHED: TJR 1/29/87
 PURCH: _____
 BOILER TO MEET THE FOLLOWING CODES: U.L. LABEL B
 FACTORY FIRETEST W/EFFICIENCY REPORT
 (M) SHIPPED MOUNTED (L) SHIPPED LOOSE
 (P) PREPIPED/SHIPPED LOOSE
 REVISIONS
 REV. DATE BY



**FORM H-2 MANUFACTURERS' DATA REPORT FOR ALL TYPES OF BOILERS
EXCEPT WATERTUBE AND THOSE MADE OF CAST IRON**
As Required by the Provisions of the ASME Code Rules

LCH-4022

1. Manufactured and certified by SUPERIOR BOILER WORKS, INC.; 3524 E. 4TH; HUTCHINSON, KS 6750
(name and address of manufacturer)

2. Manufactured for KINSTON PLUMBING & HEATING, P.O. BOX 637, KINSTON, NC 28502-0637
(name and address of purchaser)

3. Location of installation MARINE CORPS BASE, BLDG. AS-3502, CAMP LEJEUNE, NC 28542
(name and address)

4. Unit identification FIREBOX 9994 --- --- 9994 1987
(complete boiler, superheater, waterwall, economizer, etc.) (mfr's serial no.) (CRN) (drawing no.) (Nat'l. Bd. no.) (year built)

5. The chemical and physical properties of all parts meet the requirements of material specifications of the ASME BOILER AND PRESSURE VESSEL CODE. The design, construction and workmanship conform to ASME Code, Section IV, 1986
(year) (addenda (date)) (Code Case no.)

6. Shells or drums: 1 SA285C .312" 31 1/2" 38 1/2" --- ---
(no.) (mat'l spec. gr.) (thickness (in.)) (dia. (I.D.)) (length (overall)) (dia. (I.D.)) (length (overall))

7. Joints: WELDED 85% --- 1
(long (seamless, welded)) (eff. (as compared to seamless)) (girth (seamless, welded)) (no. of shell courses)

8. Tubesheet: (2) SA285C .375" Tube holes: 47 2.025"
(mat'l spec. grade) (thickness) (no. & dia.) (dia. (I.D.))

9. Tubes: No. SA178A STRAIGHT Dia. 2" Length 17 @ 38-3/4" 30 @ 20-3/8" Gauge 13
(mat'l spec. grade) (straight or bent) (if various, give max. & min.) (or thickness)

10. Heads: SA285C .687" FLAT ---
(mat'l specification no.) (thickness) (diam. (dished, ellipsoidal)) (radius of dish)

11. Furnace: SA285C .312" 1 25-5/8" OD 20-3/8" 20-3/8" PLAIN Seams: WELDED
(mat'l. spec., gr.) (thickness) (no.) (size (O.D. or W x H)) (length (each section)) (total) (type (plain, corrugated, etc.)) (type (seamless, welded))

12. Staybolts: 28 3/4" SA36 --- NONE .4418" 9" 30
(no.) (size (dia.)) (mat'l spec. gr.) (size) (telltale) (net area) (pitch (hor. and vert.)) (MAWP (psi))

13. Stays or braces:

Location	Mat'l Spec	Type	No & Size	Pitch	Total Net Area	Fig HG 343 L/1	Dist Tubes to Shell	Area to be Stayed	MAWP psi
(a) F.H. above tubes									
(b) R.H. above tubes									
(c) F.H. below tubes									
(d) R.H. below tubes	SA36	STR.	(9) 3/4"	9 1/2"	3.98"	---	---	---	30
(e) Through stays	SA36	STR.	(2) 3/4"	9"	.88"	---	---	---	30

14. Other parts 1. INNER TUBESHEET 2. CROWNSHEET & SIDEWALLS 3. WATERLEG BASE
(brief description - i.e. dome, boiler piping, etc.) 4. BURNER TUBE

- SA285C .687" 30 PSI
- SA285C .312" 30 PSI
- SA285C .312" 30 PSI
- SA53B 14"OD, 7"L, .375" 30 PSI
(mat'l spec. grade, size, material thickness, MAWP)

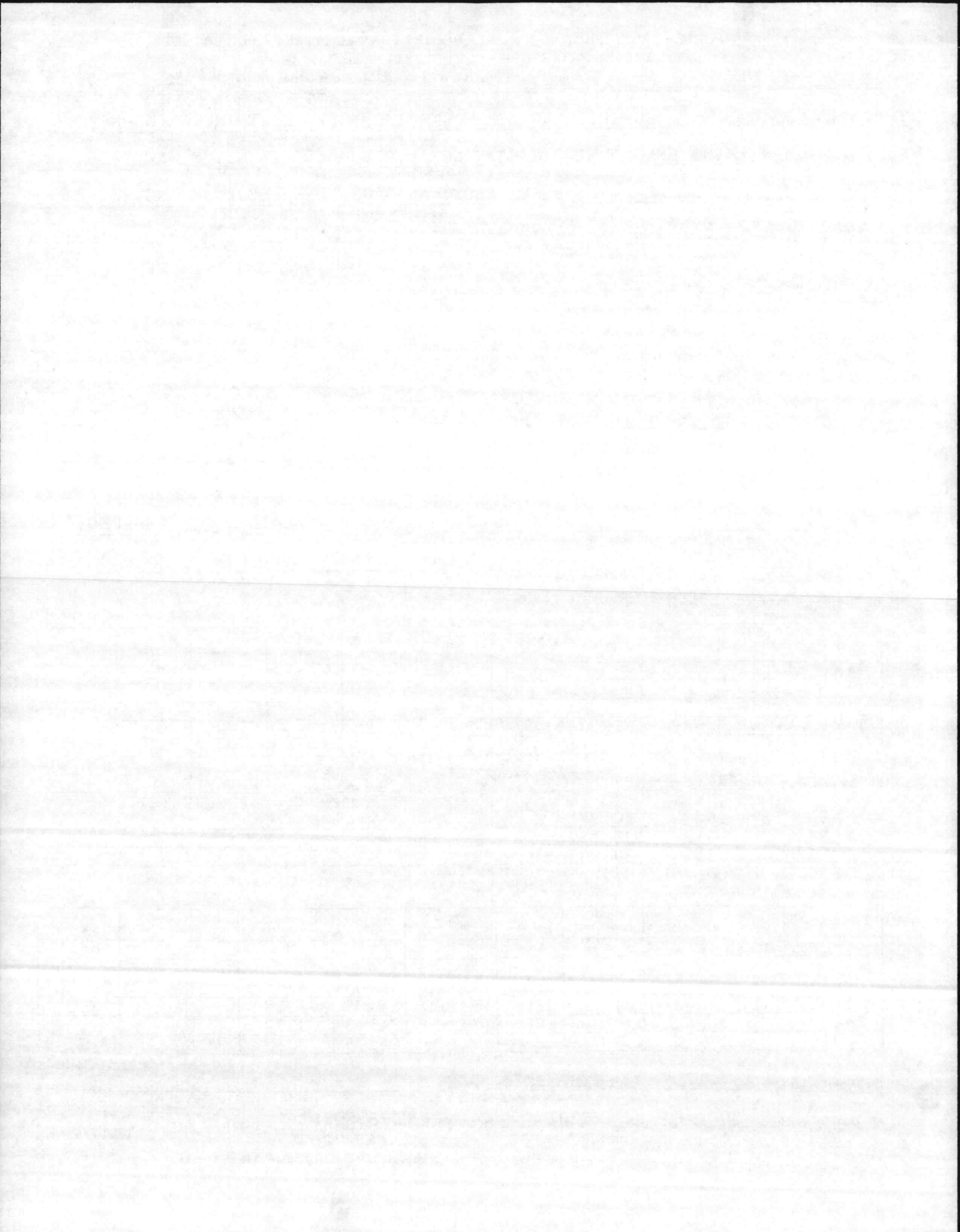
15. Nozzles, inspection and safety valve openings:

Purpose (inlet, outlet, drain, etc.)	No	Dia or Size	Type	How Attached	Mat'l	Nom Thickness	Reinforcement Mat'l	Location
Handhole up to 3" x 4"	3	3" x 4"	ELLIP.	NA	NA	NA	NA	SHELL
Manhole	---							
Outlet	1	3"	CPL.	WELDED	SA105	.327"	NA	SHELL
Safety Valve	1	2"	CPL.	WELDED	SA105	.238"	NA	SHELL
Inlet	1	3"	CPL.	WELDED	SA105	.327"	NA	REAR TUBESHEET
Drain	4	2"	CPL.	WELDED	SA105	.238"	NA	(2) SHELL

(1) EA. TUBESHEET

16. Boiler supports: 1 STEEL SKID BASE WELDED
(no.) (type (saddles, legs, lugs)) (attachment (bolted or welded))

17. Design pressure: 30 Based on HG301 Heating surface 75 SQ. FT. Shop hydro. test 60
(psi) (Code par and/or formula) (sq. ft. or kW (total)) (psi (complete boiler))



18. Remarks: Manufacturers' Partial Data Reports properly identified and signed by Commissioned Inspectors have been furnished for the following items of this report: -----

(name of part, item number, mfr's name and identifying stamp)

CERTIFICATE OF SHOP COMPLIANCE

We certify that the statements made in this data report are correct and that all details of design, material, construction, and workmanship of this boiler conform to the ASME BOILER AND PRESSURE VESSEL CODE, SECTION IV.

"H" Certificate of Authorization no. 3967 expires MARCH 30, 1988

Date Mar 4, 1987 Name SUPERIOR BOILER WORKS, INC. Signed Phillip Y. Smith (manufacturer that constructed and certified boiler) (by representative)

CERTIFICATE OF SHOP INSPECTION

Boiler constructed by SUPERIOR BOILER WORKS, INC. at HUTCHINSON, KS

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the state or province of Mo. #194 and employed by H.S.B.I. & I. CO.

of HARTFORD, CT have inspected parts of this boiler referred to as data items 6 through 18 and have examined Manufacturers' Partial Data Reports for items -----

and state that, to the best of my knowledge and belief, the manufacturer has constructed this boiler in accordance with the applicable sections of the ASME BOILER AND PRESSURE VESSEL CODE.

By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the boiler described in this Manufacturers' Data 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.

Date 3-4-87 Signed Paul Dumbler Commissions NB 8286 (Authorized Inspector) (Nat'l Bd. (incl. endorsements) state, prov. and no.)

CERTIFICATE OF FIELD ASSEMBLY COMPLIANCE

We certify that the field assembly construction of all parts of this boiler conforms with the requirements of SECTION IV of the ASME BOILER AND PRESSURE VESSEL CODE.

"H" Certificate of Authorization no. _____ expires _____, 19____.

Date _____ Name _____ Signed _____ (assembler that certified and constructed field assembly) (by representative)

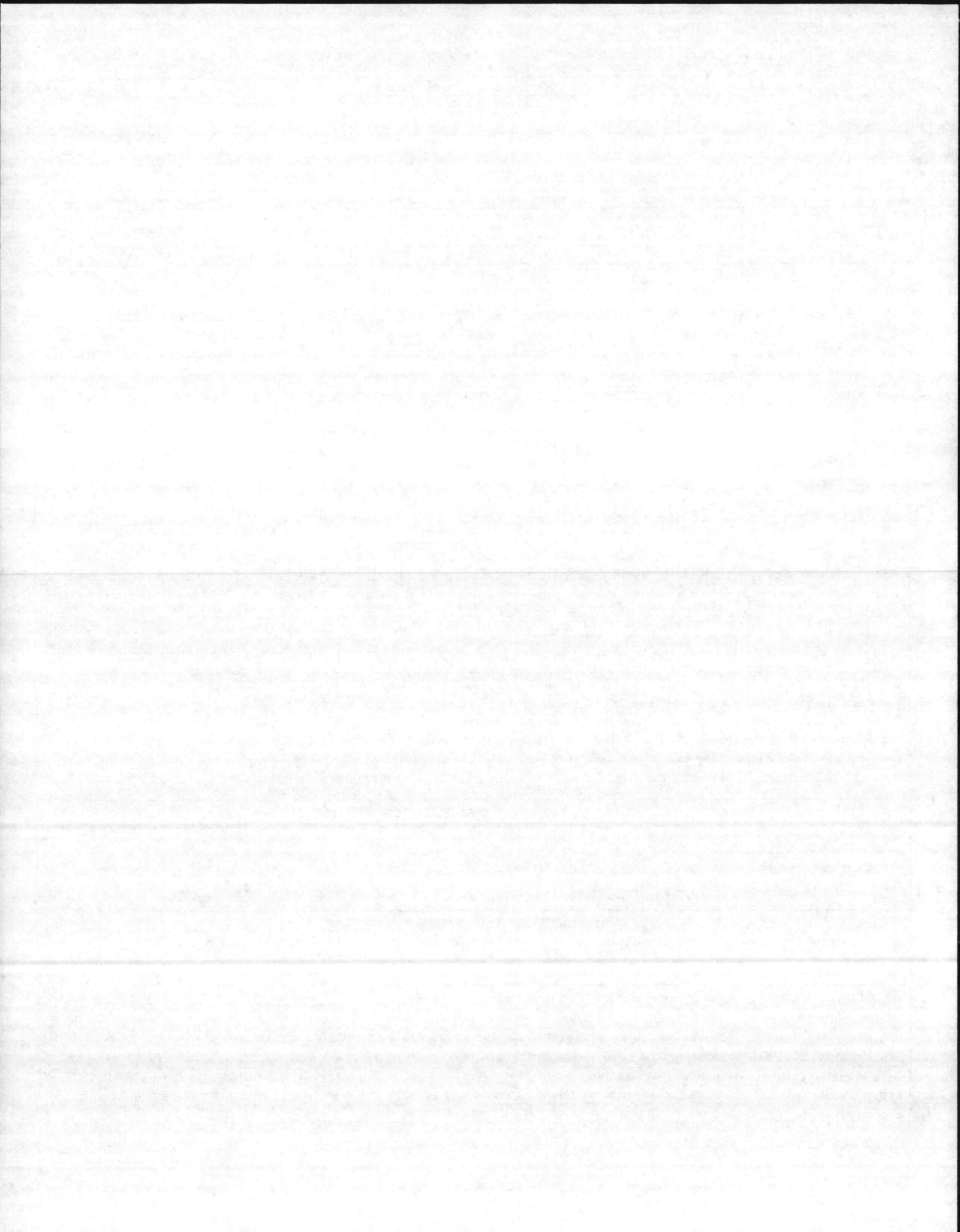
CERTIFICATE OF FIELD ASSEMBLY INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the state or province of _____ and employed by _____

of _____ have compared statements in this Manufacturers' Data Report with the described boiler and state that the parts referred to as data items _____, not included in the certificate of shop inspection, have been inspected by me and that to the best of my knowledge and belief the manufacturer and/or the assembler has constructed and assembled this boiler in accordance with the applicable sections of the ASME BOILER AND PRESSURE VESSEL CODE. The described boiler was inspected and subjected to a hydrostatic test of _____ psi.

By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the boiler described in this Manufacturers' Data 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.

Date _____ Signed _____ Commissions _____ (Authorized Inspector) (Nat'l Bd. (incl. endorsements) state, prov. and no.)



DATE OF INSPECTION
 4 MAY - 12 MAY 1982

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 **NAVFACENCOM
 NORFOLK, VA**

14. CERTIFICATE ISSUED YES NO
 EXPIRES 24 NOV. 1982
 15. BOILER INSPECTOR

Thomas L. Lanier
 NAVY OR NATIONAL BOARD NO.

NAVFAC 239

16. REASON FOR NOT ISSUING CERTIFICATE

BOILER DATA

3. MANUFACTURER
FITZ GIBBONS

4. PROPERTY NO. 19	5. MFG. SERIAL NO. A 22244	6. MFG. MODEL NO. RM-511
7. BUILDING NO. LCH 4022	8. YEAR BUILT 1956	9. CAPACITY 300,000 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
 _____ % CO₂ _____ % EXCESS O₂

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

SAFETY DEVICES

SAFETY VALVES

21. MANUFACTURER WATTS	22. NUMBER AND SIZE 1-1/2"	23. PSI SETTING 30	24. CONDITION
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STEAM PRESSURE GAUGE

25. MANUFACTURER
ASME STD.

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

27. REASON IF NOT TESTED

FIRING EQUIPMENT

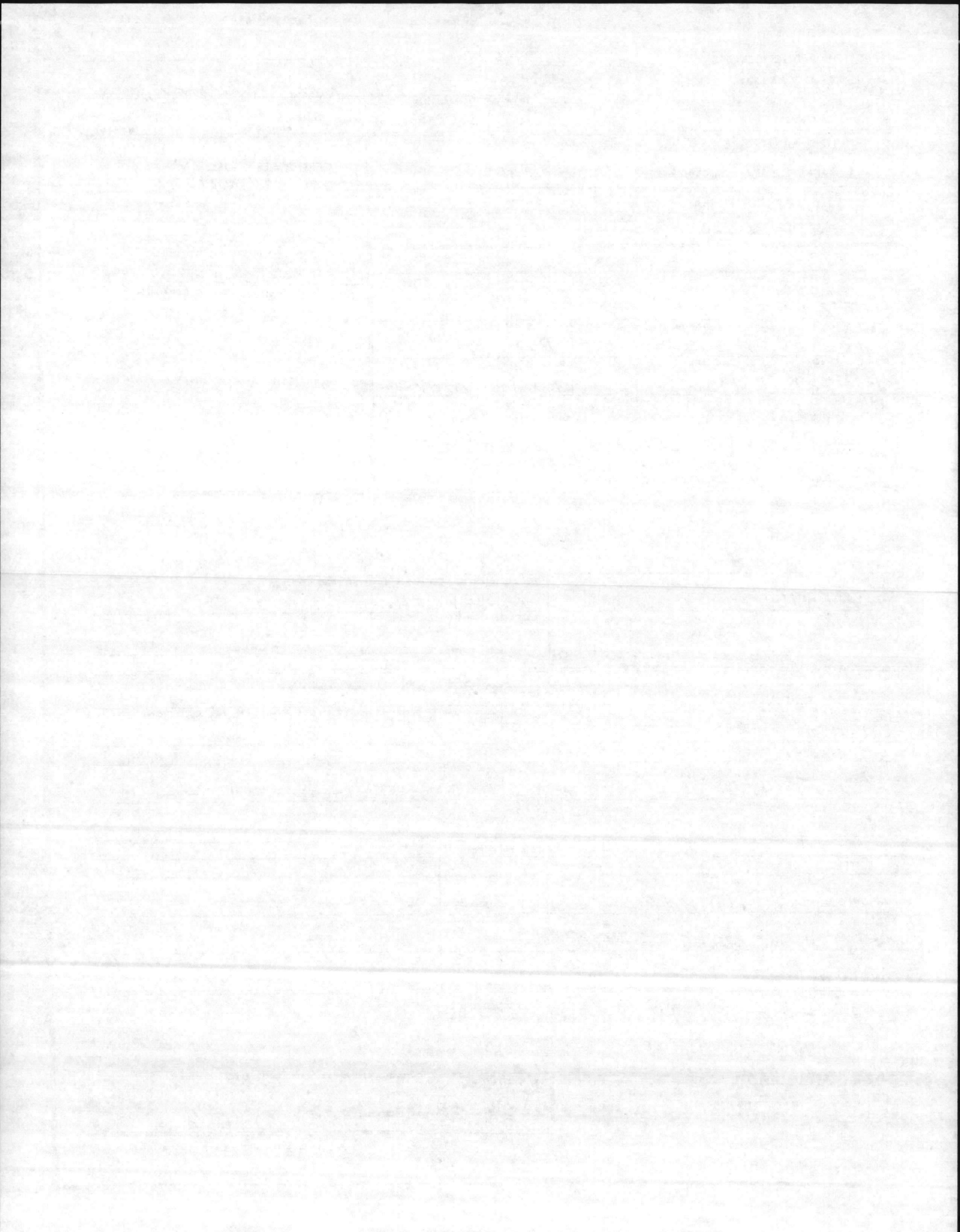
ITEM	IN SERVICE	ALTERNATE
28. MANUFACTURER	RADIANT	
29. TYPE	NOZZLE SPRAY	
30. FUEL GRADE	# 2	

31. INSPECTOR'S COMMENTS
Light to MED. Pitting ON WATER SIDE

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

33. SIGNATURE
R.M. Wilcox

BY DIRECTION



DATE OF INSPECTION
 16 DEC 1981

TYPE OF INSPECTION
 A INTERNAL & EXTERNAL B NR 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 16 DEC 1981

15. BOILER INSPECTOR
 Jesse L. Sellen
 NAVY OR NATIONAL BOARD NO
 NAUFAC 225

BOILER DATA

3. MANUFACTURER
 FITZGIBBONS

4. PROPERTY NO. 19 5. MFG. SERIAL NO. A22244 6. MFG. MODEL NO. Rm-511

7. BUILDING NO. LCH-4022 8. YEAR BUILT 1956 9. CAPACITY 300,000 BTU/HR

10. FUEL (Check)
 COAL OIL GAS

11. PRESSURE
 DESIGNED 30 psi OPERATING 12 psi TEST _____ psi

12. FEED WATER TREATMENT
 SATISFACTORY UNSATISFACTORY

13. TYPE
 WATER TUBE FIRE TUBE C. I.

16. REASON FOR NOT ISSUING CERTIFICATE

17. BOILER USE
 HEATING

19. COMBUSTION
 9.0 % CO₂ _____ % EXCESS O₂

18. COMBUSTION CONTROL (Mfg. Name)
 HONEYWELL

20. FLUE GAS TEMPERATURE
 AFTER BOILER 400 °F ; AFTER HEAT TRAP _____ °F

SAFETY DEVICES
 SAFETY VALVES

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

STEAM PRESSURE GAUGE

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

27. REASON IF NOT TESTED

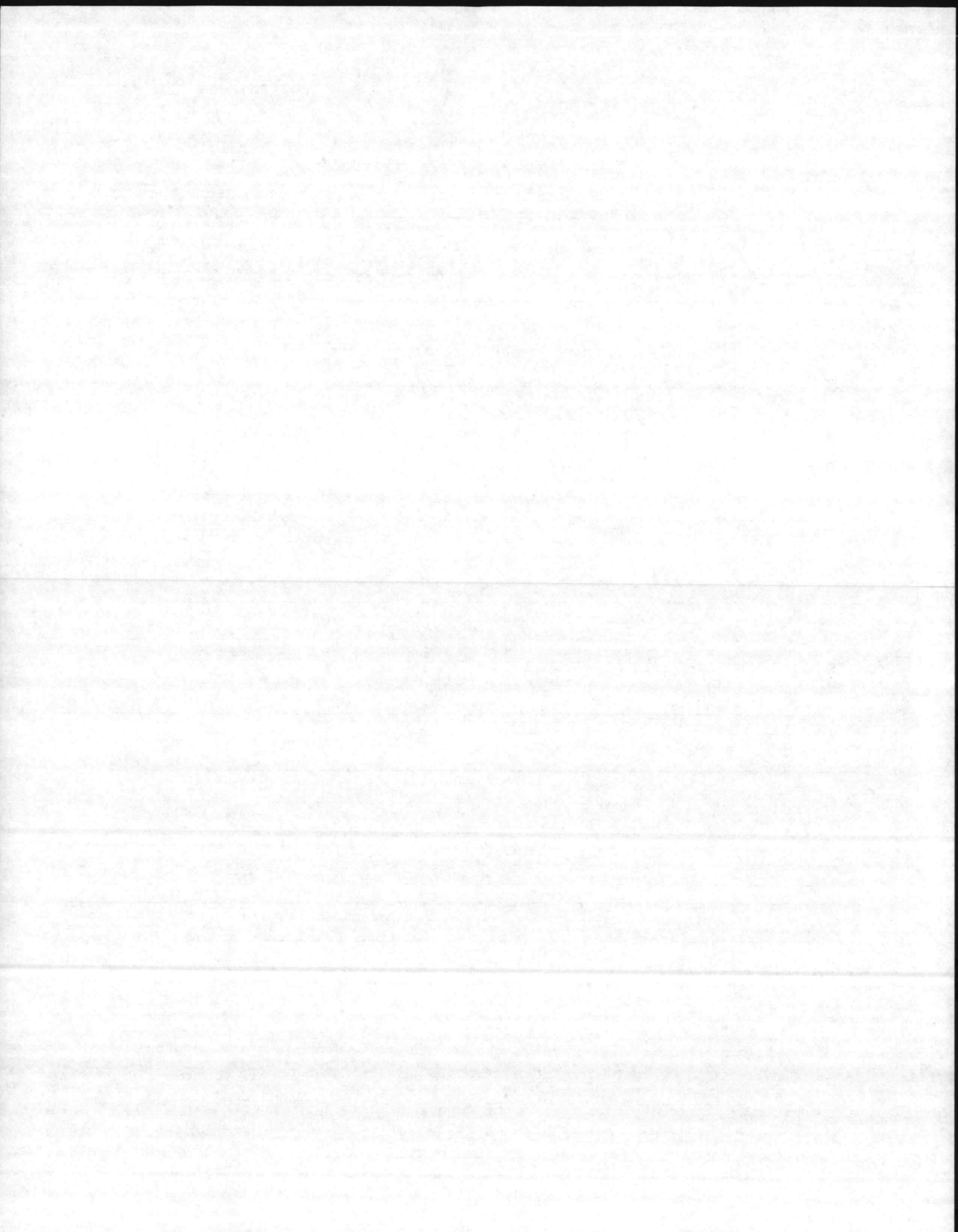
FIRING EQUIPMENT

ITEM	IN SERVICE	ALTERNATE
28. MANUFACTURER	RADIANT	
29. TYPE	NOZZLE	
30. FUEL GRADE	#2	

31. INSPECTOR'S COMMENTS
 OK

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

33. SIGNATURE
 R.W. Sellen
 BY DIRECTION



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

DATE OF INSPECTION
 11-22-76

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

1. FROM
 Base Maint Officer Campejeune NC.

2. TO
 Commandant Adgres Marine Corps (Code LFI)

14. CERTIFICATE ISSUED YES NO
 EXPIRES 5-4-77

15. BOILER INSPECTOR
 E.O. Mahley
 NAVY OR NATIONAL BOARD NO.

BOILER DATA

3. MANUFACTURER
 FITZGERIBBONS

4. PROPERTY NO. 19	5. MFG. SERIAL NO. A-22244	6. MFG. MODEL NO. RM 511
7. BUILDING NO. 4022	8. YEAR BUILT 1952	9. CAPACITY 300,000 BTU/HR
10. FUEL (Check) <input type="checkbox"/> COAL <input checked="" type="checkbox"/> OIL <input type="checkbox"/> GAS		11. PRESSURE DESIGNED 30 psi OPERATING 12 psi TEST - psi
12. FEED WATER TREATMENT <input type="checkbox"/> SATISFACTORY <input type="checkbox"/> UNSATISFACTORY		13. TYPE <input type="checkbox"/> WATER TUBE <input checked="" type="checkbox"/> FIRE TUBE <input type="checkbox"/> C. I.

16. REASON FOR NOT ISSUING CERTIFICATE
 NAVFAC 101

17. BOILER USE
 Heating

18. COMBUSTION CONTROL (Mfg. Name)
 Honeywell

19. COMBUSTION
 7.0 % CO₂ % EXCESS O₂

20. FLUE GAS TEMPERATURE
 AFTER BOILER 450 °F ; AFTER HEAT TRAP °F

SAFETY DEVICES

SAFETY VALVES

21. MANUFACTURER Watts	22. NUMBER AND SIZE 1-1 1/2"	23. PSI SETTING 30	24. CONDITION Good
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STEAM PRESSURE GAUGE

25. MANUFACTURER ASME STD	26. CORRECTIONS WATER LEG CONSTANT _____ psi; OTHER _____ psi
------------------------------	--

27. REASON IF NOT TESTED

FIRING EQUIPMENT

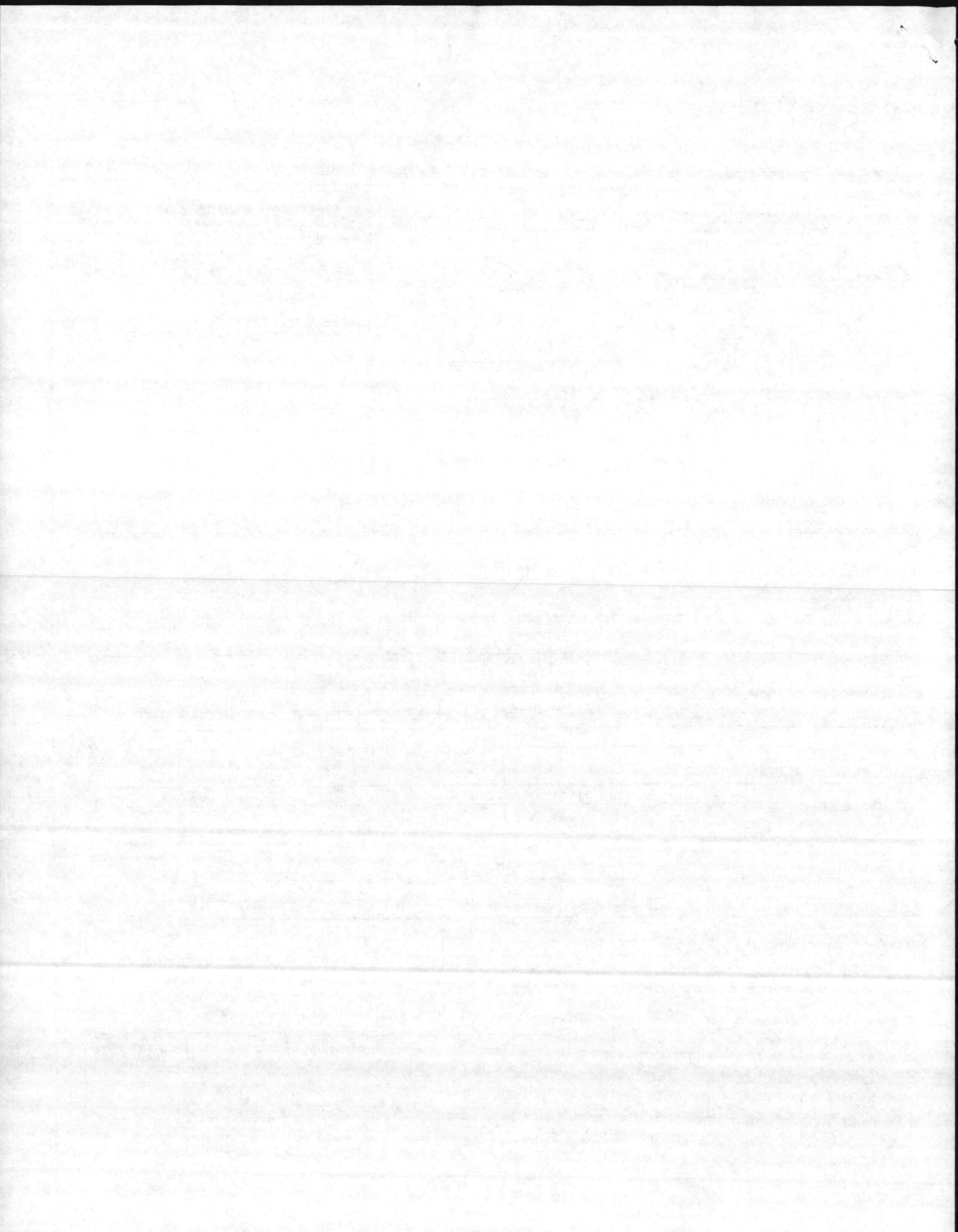
ITEM	IN SERVICE	ALTERNATE
28. MANUFACTURER	Radiant	None
29. TYPE	Nozzle spray Press Atom	
30. FUEL GRADE	#2	

31. INSPECTOR'S COMMENTS

OK.

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

33. SIGNATURE
 Daniel L. White
 BY DIRECTION



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

DATE OF INSPECTION
 5-4-76 - 6-8-76

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

1. FROM
 Base MAINT OFFICER Camp Lejeune NC.
 2. TO
 Commandant Hydras Marine Corps (Cadet) E.O. Mahley

14. CERTIFICATE ISSUED YES NO
 Expires 10-10-76
 15. BOILER INSPECTOR
 E.O. Mahley
 NAVY OR NATIONAL BOARD NO.
 NAV FAC 101

BOILER DATA

3. MANUFACTURER
 Fitzgibbons

4. PROPERTY NO. 19	5. MFG. SERIAL NO. A-22244	6. MFG. MODEL NO. RM5-11
7. BUILDING NO. 4022	8. YEAR BUILT 1956	9. CAPACITY 300,000 BTU/HR.
10. FUEL (Check) <input type="checkbox"/> COAL <input checked="" type="checkbox"/> OIL <input type="checkbox"/> GAS		11. PRESSURE DESIGNED 30 psi OPERATING 12 psi TEST 45 psi
12. FEED WATER TREATMENT <input checked="" type="checkbox"/> SATISFACTORY <input type="checkbox"/> UNSATISFACTORY		13. TYPE <input type="checkbox"/> WATER TUBE <input checked="" type="checkbox"/> FIRE TUBE <input type="checkbox"/> C. I.

16. REASON FOR NOT ISSUING CERTIFICATE

17. BOILER USE
 Heating

18. COMBUSTION CONTROL (Mfg. Name)
 Honeywell

19. COMBUSTION
 % CO₂ _____ % EXCESS O₂ _____

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

SAFETY DEVICES

SAFETY VALVES

21. MANUFACTURER Watts	22. NUMBER AND SIZE 1-1/2"	23. PSI SETTING	24. CONDITION
---------------------------	-------------------------------	-----------------	---------------

STEAM PRESSURE GAUGE

25. MANUFACTURER
 ASME STD.

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

27. REASON IF NOT TESTED

FIRING EQUIPMENT

ITEM	IN SERVICE	ALTERNATE
28. MANUFACTURER	Radiant	None
29. TYPE	Nozzle, spray Press. Atom.	
30. FUEL GRADE	#2	

31. INSPECTOR'S COMMENTS

OK.

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

33. SIGNATURE
 Dan White
 BY DIRECTION

