

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

DATE OF INSPECTION
 28 OCT 87

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

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

BOILER DATA

3. MANUFACTURER
 KEWANEE

4. PROPERTY NO. 17	5. MFG. SERIAL NO. HSB 97427	6. MFG. MODEL NO. CL-L-77
7. BUILDING NO. LCH 4014	8. YEAR BUILT 1945	9. CAPACITY 4,000 LBS/HR.

10. FUEL (Check)
 COAL OIL GAS

11. PRESSURE
 DESIGNED 15 psi OPERATING 8 psi TEST 15 psi

12. FEED WATER TREATMENT
 SATISFACTORY UNSATISFACTORY

13. TYPE
 WATER TUBE FIRE TUBE C. I.

16. REASON FOR NOT ISSUING CERTIFICATE
 BOILER HAS BEEN
 REMOVED UNDER
 CONTRACT # 85-6439

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 CONSOLIDATED	22. NUMBER AND SIZE 1-2"	23. PSI SETTING 15	24. CONDITION
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STEAM PRESSURE GAUGE

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

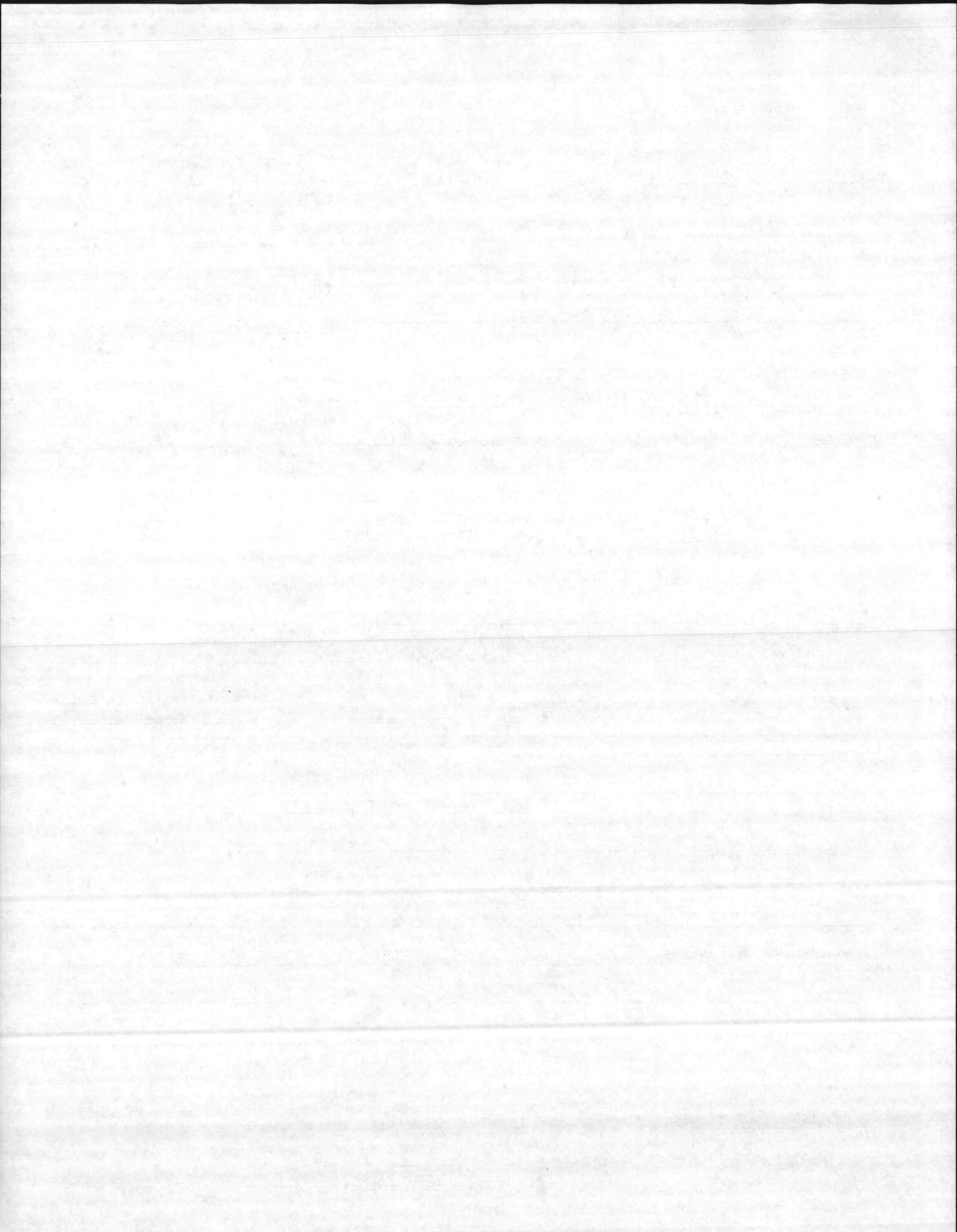
FIRING EQUIPMENT

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

31. INSPECTOR'S COMMENTS
 HAS BEEN REPLACED BY NEW BOILER

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

33. SIGNATURE
 Timothy Jewell 11/12/87
 BY DIRECTION





SALES ORDER NO. 50091 NAT'L BOARD NO. 9993
 DATE RECEIVED: 1/27/87 SHIPPING DATE: WK. OF 3/30/87
 STATUS: W.A.&R. RELEASED DATE: _____
 JOB: Camp Lejeune
Bldg. LCH-4014
 SOLD TO: Kinston Plbg. & Htg. P.O. NO.
P. O. Box 637
Kinston, NC 28502-0637
 DATE REQ'D: _____ MANUALS REQ'D: 9 SETS SPARE PARTS LIST - SEND TO: _____

LCH-4014

SUBMITTAL REQ'D: 2 SETS CERTIFIED

R & D SHEET W.D. NUMBER: _____

DATE REQ'D: _____

BOILER: MODEL NO. 3-5.6-306-S15-M
 NOMINAL H.P. 54 OUTPUT 1800 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) Fig. 930 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 115-60-1⁰
 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 _____
MM157 (L)
 AUX. L.W.C.O.: RS LS TOP _____
MM51-2 (L)

HIGH WATER: RS LS TOP _____
 CUTOFF ALARM _____ ()
 GAUGE: PRESSURE W/ GAUGE/TEST COCKS

TEMPERATURE TRIDICATOR RANGE _____
Marshalltown G10413 DIAL 3 3/4" RANGE 30x30 (L)
 () OPERATOR _____ RANGE _____ ()
 () LIMIT _____ RANGE _____ ()
 () FIRING RATE _____ RANGE _____ ()
 () _____ RANGE _____ ()
 () _____ RANGE _____ ()

OIL PREHEATER: RS LS STEAM S/TEAM/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 _____ ()

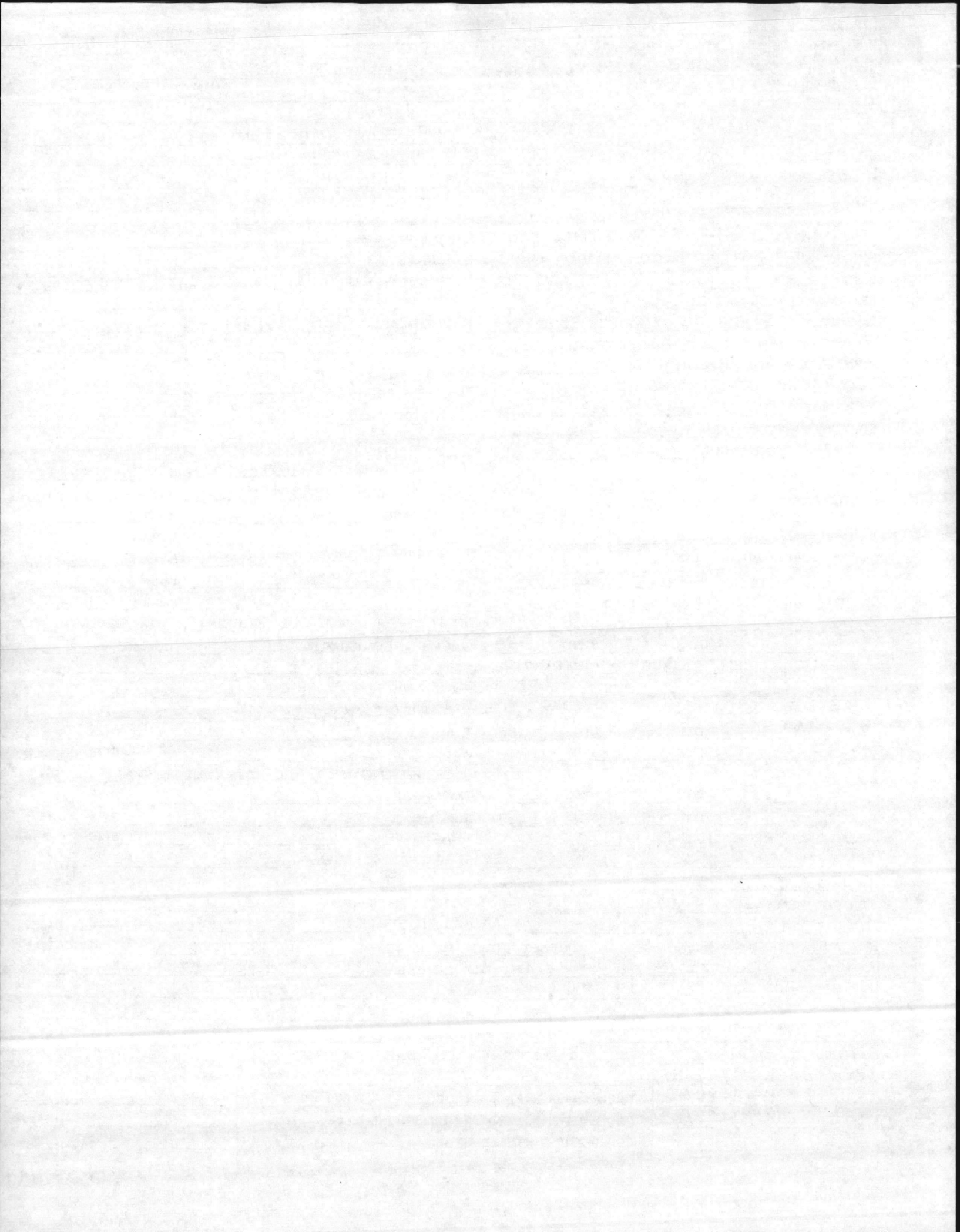
SET @ _____ PSIG
 () OIL PRESS. GAUGE _____ RANGE _____ ()
 () OIL STRAINER _____ SIZE _____ ()

Burner mounting plate for No pressure controls or junction
S8-0-07, direct spark. box.

COMPLETED BY: _____ DATE _____
 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

APPROVED
 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
(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. LCH-4014, CAMP LEJEUNE, NC 28542
(name and address)

4. Unit identification FIREBOX 9993 --- --- 9993 1987
(complete boiler, superheater, waterwall, economizer, etc.) (mfr's serial no.) (CRN) (drawing no.) (Nat'l Bd no.) (year built)

BY [Signature] DATE 4/10/1

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" 44-5/8" 71 1/2" --- ---
(no.) (mat'l spec. gr.) (thickness (in.)) (dia. (I.D.)) (length (overall)) (dia. (I.D.)) (length (overall))

7. Joints: WELDED 85% NONE 1
(long (seamless, welded)) (eff. (as compared to seamless)) (girth (seamless, welded)) (no. of shell courses)

8. Tubesheet: (2)SA285C .437" Tube holes: 104 2.025"
(mat'l spec. grade) (thickness) (no. & dia.)

9. Tubes: No. SA178A STRAIGHT Dia. 2" Length 40 @ 72-1/8" 64 @ 52-1/2" Gauge 13
(mat'l spec. grade) (straight or bent) (if various, give max. & min.) (or thickness)

10. Heads: SA516-70 .875" FLAT ---
(mat'l specification no.) (thickness) (flat, dished, ellipsoidal) (radius of dish)

11. Furnace: SA285C .312" 1 38-5/8"OD 46 1/2" 46 1/2" 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: 46 3/4" SA36 --- NONE .4418" 9" 30
(no.) (size (dia.)) (mat'l spec. gr.) (size) (elliptical) (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 143 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.	(16) 3/4"	9"	7.07"	---	---	1930	30
(e) Through stays	SA36	STR.	(5) 3/4"	9"	2.21"	---	---	---	30

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

1. SA516-70 .875" 30 PSI
 2. SA285C .312" 30 PSI
 3. SA285C .312" 30 PSI

4. Cont. in Remarks (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	---							
Safety Valve	1	2"	CPL.	WELDED	SA105	.238"	NA	SHELL
Inlet	1	4"	CPL.	WELDED	SA105	.368"	NA	REAR TUBESHEET
Outlet	1	4"	CPL.	WELDED	SA105	.368"	NA	SHELL
Drains	4	2"	CPL.	WELDED	SA105	.238"	NA	(2) SHELL

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

17. Design pressure 30 Based on HG301 Heating surface 306 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)

14. BURNER TUBE
 4. SA106B 18"OD, 8"L .375" 30 PSI

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 19 88
 Date Mar 6, 1987 Name SUPERIOR BOILER WORKS, INC. Signed Phillip D. 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 Kans, #194 and employed by H.S.B.I.&I. CO.
 of HARTFORD, CT ~~XX~~ 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 3-6-87 Signed Paul Dumber 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.)

BOILER INSPECTION CHECK LIST

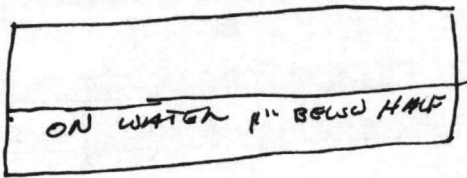
LOCATION		BLDG NO.	BOILER NO.	DATE
		LCH 4014	17	9-30-9/29/87
BOILER MFG. SUPERIOR	OPERATING PRESS. 10	DESIGN PRESS. 15	CAP. 1862 LB/LH	
SERIAL NO. 9993	MODEL NO. 3-5-6-306	N.B. NO. 9993		
BURNER MFG. GORDON PATT	FIRING RATE: 16.7			
STEAM CAGE NAME: USG	PRESS.		TEST	
SV MFG Kunkle	CAP 3161-LB/HAL	NO. 1	SIZE 2"	
NO. 1	SET 15	OPEN 16	CLOSE 14	
NO. 2	SET	OPEN	CLOSE	
NO. 3	SET	OPEN	CLOSE	
CO2%	02%	STACK TEMP	COMB. EFF.	PURGE TIME
NO. 1 FIREYE C/O	OK (4 sec)	L/O	A/L	
NO. 2 FIREYE C/O			A/L	
HI-STEAM TEMP. C/O	OK @ 10. PSF		A/L	
EXCESS STEAM TEMP. C/O	OK @ 11.5 PSF - MAN-RESET		A/L	
HI OIL TEMP. C/O	OK @ 10 PSF		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 PUMP ON		A/L	
NO. 2 LW C/O	OK MAN-RESET		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	
HEAT SURFACE BOILER	WATER W/ILL		A/L	

STARTED BOILER 10/30/87

#17 & 18 OLD BOILERS ARE GOING - NEW BOILER WILL RETAIN PROPERTY # 12

- REMARKS:
1. WATER SOFTNER NOT WORKING RIGHT.
 2. LOW WATER C/O FEEDER COMBINATION NOT ADJUSTED RIGHT. TAKES ON WATER
 3. FUEL OIL PUMP NOISY ON LO-FIRE. AT TIMES
 4. FUEL OIL BOOSTER PUMP SITTING ON ELEC CONDUIT-

MAKE UP TANK



FEED PUMP.

ON @ $1\frac{15}{16}$ F/BOTTOM
 OFF @ $2\frac{5}{16}$ F/BOTTOM
 LWCO #1 OFF @ $1\frac{1}{8}$
 AUX FEED ON @ $\frac{1}{2}$
 LWCO #2 OFF @ $\frac{5}{16}$
 WATER LEVEL $2\frac{1}{4}$ ABOVE ... ON Boiler

~~FEED PUMP
 ON @ $1\frac{7}{8}$ F/BOTTOM
 LWCO - #1 OUT @ $1\frac{1}{4}$ F/BOTTOM
 AUX FEED ON @ $1\frac{1}{4}$ F/BOTTOM
 LWCO #2 OUT $1\frac{1}{4}$ MAN-RESET
 WATER LEVEL $1\frac{5}{8}$ ABOVE ... ON Boiler~~

LO FIRE

O2 - 7.5
 CO2 - 10.0
 TEMP - 340 - (300)
 EFF - 45

Hi-FIRE

O2 - 6
 CO2 - 11.5
 TEMP - 450 (400)
 EFF - 83.5

S/V

OPEN @ 15
 CLOSED @ 13.5
 WITH BURNER RUNNING S/V HEID
 PSI @ 16 PSI.

BURNER O/P - 75
 PUMP UAC - 2"
 PUMP PRESS - 97

255
 1"
 260

14 OCT-87

FEED PUMP
 OFF - $2\frac{1}{2}$ F/BOTTOM OF G/CLASS
 ON - 2"
 AUX F - $1\frac{13}{16}$
 LWCO #1 - $1\frac{5}{8}$
 LWCO #2 - $1\frac{9}{16}$

WITH BURNER
 RUNNING.

WATER LEVEL $2\frac{3}{4}$ ABOVE ... ON Boiler TO B/GAGE CLASS.

LOWER WATER BY DRAIN
 VALVE

OFF - $2\frac{3}{16}$
 ON - 2"
 AUX F - $1\frac{13}{16}$
 LWCO #1 - $1\frac{5}{8}$
 LWCO #2 - $1\frac{13}{16}$
 2nd RUNN
 OFF - $2\frac{3}{16}$
 ON -
 AUX F -
 LWCO #1 - $1\frac{15}{16}$
 LWCO #2 - $1\frac{3}{4}$

15 OCT 87

FEED PUMP
 OFF - $2\frac{1}{16}$
 ON - $2\frac{3}{16}$
 AUX F - $1\frac{7}{8}$
 LWCO #1 - $1\frac{13}{16}$
 LWCO #2 - $1\frac{7}{8}$

10/30/87

STARTED Boiler, NON-RETURN VALVE
 CLOSED.

MFGRS. SERIAL NO. 9993	MFGRS. MODEL NO. 3-5.6-306	MANUFACTURER SUPERIOR BLR. WKS.	DATE OF SHEET 9/28/87
TYPE OF SUPERHEATER N/A	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 N/A °F	HEATING SURFACE (SQ. FT.) 306	PRESSURE (psig) 15 DESIGN 10 MAWP 10 INSTALLED WP	DATE BUILT 1987
NORMAL FEEDWATER TEMPERATURE N/A °F	BOILER 306	AIR HEATER <input checked="" type="checkbox"/> NONE <input type="checkbox"/> TUBULAR <input type="checkbox"/> REGENERATIVE <input type="checkbox"/> STEAM	DATE INSTALLED 1987
(See Reverse Side for Fittings)	DRUMS NO. _____ DIAMETER _____ IN. LENGTH _____ FT. _____ IN.	CAPACITY _____ HP 1862 LB./HR. _____ EDR _____ BTU/HR.	BOILER TYPE <input checked="" type="checkbox"/> C.I. <input type="checkbox"/> WATER TUBE <input checked="" type="checkbox"/> FIRE TUBE
	<input type="checkbox"/> RIVETED <input type="checkbox"/> FORGE WELDED <input checked="" type="checkbox"/> FUSION WELDED		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	FUEL & FIRING EQUIPMENT IN SERVICE		ALTERNATE FUEL & FIRING EQUIPMENT	
	COAL	OIL	COAL	OIL
<input type="checkbox"/> ANTHRACITE <input type="checkbox"/> BITUMINOUS	<input checked="" type="checkbox"/> COMMERCIAL 1, 2, 4, 5, 6 <input type="checkbox"/> NAVY <input type="checkbox"/> OTHER _____	<input type="checkbox"/> ANTHRACITE <input type="checkbox"/> BITUMINOUS	<input type="checkbox"/> COMMERCIAL 1, 2, 4, 5, 6 <input type="checkbox"/> NAVY SPECIAL <input type="checkbox"/> OTHER _____	
<input type="checkbox"/> NATURAL <input type="checkbox"/> MANUFACTURED		<input type="checkbox"/> NATURAL <input type="checkbox"/> MANUFACTURED		
FIRING EQUIPMENT	<input type="checkbox"/> COAL - HAND FIRED <input type="checkbox"/> 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 <input type="checkbox"/> GAS <input type="checkbox"/> GAS RING <input type="checkbox"/> VENTURI TYPE	<input type="checkbox"/> COAL - PULVERIZER <input type="checkbox"/> ATTRITION <input type="checkbox"/> BALL & RACE <input type="checkbox"/> BOWL MILL <input type="checkbox"/> TUBULAR <input checked="" type="checkbox"/> OIL BURNERS <input checked="" type="checkbox"/> MECHANICAL <input type="checkbox"/> STEAM ATOMIZED <input type="checkbox"/> AIR ATOMIZED <input type="checkbox"/> ROTARY CUP	<input type="checkbox"/> COAL - HAND FIRED <input type="checkbox"/> 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 <input type="checkbox"/> GAS <input type="checkbox"/> GAS RING <input type="checkbox"/> VENTURI TYPE	<input type="checkbox"/> COAL - PULVERIZER <input type="checkbox"/> ATTRITION <input type="checkbox"/> BALL & RACE <input type="checkbox"/> BOWL MILL <input type="checkbox"/> TUBULAR <input type="checkbox"/> OIL BURNERS <input type="checkbox"/> MECHANICAL <input type="checkbox"/> STEAM ATOMIZED <input type="checkbox"/> AIR ATOMIZED <input type="checkbox"/> ROTARY CUP
	FIRING EQUIPMENT MANUFACTURER			

DATA RECORD SHEET - BOILERS
 NAVFAC 9-11014/40 (9-89) Supersedes NAVDOCS 3509
 S/N 0105-003-7010

PROPERTY NO. 17	BUILDING OR LOCATION LCH-4014	ACTIVITY BOILER 17	MOBCL
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3161 # LB/HR

FITTING	NUMBER	SIZE	MANUFACTURER	TYPE	SETTING	RANGE	PRESSURE CLASS
SAFETY VALVES	1	2"	KUMBLE	S 930-1	15		
STEAM OUTLET VALVES	1	6"	HAMMOND	GATE			SWP 125
BLOW-OFF VALVES	2	2"	HAMMOND	GATE			WSP 150
FEEDWATER VALVES							
WATER COLUMN	1	1"	MCDONNELL MILLER	NO 157			150
FEEDWATER REGULATOR	1	1"	MCDONNELL MILLER	81-2			30
WATER GAGES							
STEAM GAGES	1	4"	U S GAGE	COMPOUND		0-30 0-30	
SOOT BLOWERS							
FUSIBLE PLUGS							

NB # 9993

PROGRAMMER - GORDON PIATT (GPI01)

BURNER - MODEL S8-0-07 GPH - 16.7

NOZZLE SIZE - 2 EA 5.00 GPH (DELHVN)
90°

CONTRACT # 85-6439

JOB CAMP LEJEUNE Ck. 107704

UNIT: Mfr Superior Size 3-3.6-306

Rated Input _____ MBH _____ GPH# 2 Oil

BURNER: Mod 58-0-07

UL Serial No 506003

COMBUSTION TESTS:

	GAS		OIL	
	HI	LO	HI	LO
CO ₂ -%			10	12
CO-%/SMOKE-# <u>02</u>			7	4 1/2
DRAFT: Overfire				
Outlet			7.06	7.05
TEMP. Outlet				
Room				
FUEL PRESSURES:				
Orifice/Nozzle			75	255
Bypass <u>Vacuum Pump</u>			2"	1"
Atomizing Air <u>NOT RECORDED</u>				
PUMP: Disch-PSI			77	245
Suct. "Hg			450	540
GAS INLET				
AIR COMP. PSI				
OIL TEMP-Deg. F-Inlet				
Outlet				
INLET LOUVER-"			14	14
PRI/SEC AIR-%			2	2
FLAME SIGNAL			4 1/2	4 1/2

Stack Height 35 ft. Size 12"

Breeching: Size N/A Lgth N/A

DAMPER: Unit-%Open N/A Breeching _____

Barometric Damper N/A Size _____

Seq. Draft Control N/A

TANK: Location-Above/Below Burner

Dist. from pump 300' Vert. Lift N/A

Suct. Line Size 1 1/2" Copper/Pipe _____

COMBUSTION AIR INLET: Size 2 1/2" X 2 1/4"

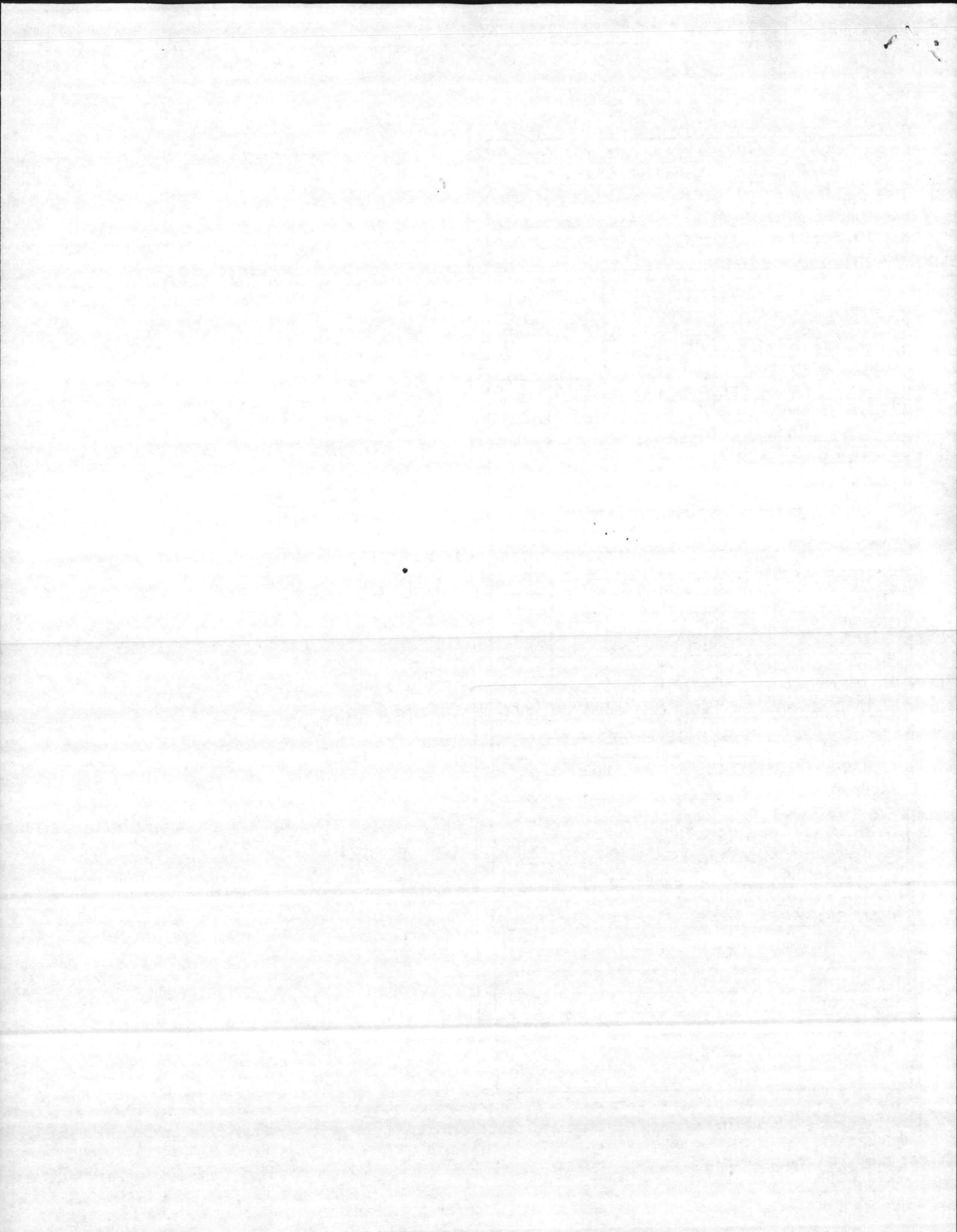
REMARKS TRANSFER PUMP

Startup by [Signature]

Owner [Signature]

Date 9/20/87

Form No. 1210



LCH-4014

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

APPROVED AS NOTED BY JKK DATE 4/10/87
 NOT APPROVED
 REVISE & SUBMIT
 KINSTON PLUMBING & HEATING CO

1. Manufactured and certified by SUPERIOR BOILER WORKS, INC.; 3524 E. 4TH; HUTCHINSON, KS 67501
(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. LCH-4014, CAMP LEJEUNE, NC 28542
(name and address)

4. Unit identification FIREBOX 9993 ---- ---- 9993 1987
(complete boiler, superheater, waterwall, economizer, etc.) (mfr's serial no.) (CHN) (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" 44-5/8" 71 1/2" ---- ----
(no) (mat'l spec. gr) (thickness (in)) (dia (I.D.)) (length (overall)) (dia (I.D.)) (length (overall))

7. Joints: WELDED 85% NONE 1
(long (seamless, welded)) (eff (as compared to seamless)) (girth (seamless, welded)) (no. of shell courses)

8. Tubesheet: (2)SA285C .437" Tube holes: 104 2.025"
(mat'l spec. grade) (thickness)

9. Tubes: No. SA178A STRAIGHT Dia. 2" Length 40 @ 72-1/8" 64 @ 52-1/2" Gauge 13
(mat'l spec. grade) (straight or bent) (if various, give max & min) (or thickness)

10. Heads: SA516-70 .875" FLAT ----
(mat'l specification no) (thickness) (flat, dished, ellipsoidal) (radius of dish)

11. Furnace: SA285C .312" 1 38-5/8"OD 46 1/2" 46 1/2" 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: 46 3/4" SA36 --- NONE .4418" 9" 30
(no) (size (dia)) (mat'l spec. gr) (size) (ellipte) (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 14J 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.	(16) 3/4"	9"	7.07"	---	---	1930	30
(e) Through stays	SA36	STR.	(5) 3/4"	9"	2.21"	---	---	---	30

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

1. SA516-70 .875" 30 PSI
 2. SA285C .312" 30 PSI
 3. SA285C .312" 30 PSI
 4. Cont. in Remarks (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	----							
Safety Valve	1	2"	CPL.	WELDED	SA105	.238"	NA	SHELL
Inlet	1	4"	CPL.	WELDED	SA105	.368"	NA	REAR TUBESHEET
Outlet	1	4"	CPL.	WELDED	SA105	.368"	NA	SHELL
Drains	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 306 SQ. FT. Shop hydro. test 60
(psi) (Code par and/or formula) (sq ft or kW (total)) (psi (complete boiler))

(6/83)

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)

14. BURNER TUBE

4. SA106B 18"OD, 8"L .375" 30 PSI

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 6, 1987 Name SUPERIOR BOILER WORKS, INC. Signed Phillip D. 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 Kans, #194 and employed by H.S.B.I. & I. CO. of HARTFORD, CT

6 through 18 have inspected parts of this boiler referred to as data items 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 3-6-87 Signed Paul Dumber 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)

APPROVED
 APPROVED AS NOTED
 NOT APPROVED
 REVISE & SUBMIT

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

KINSTON PLUMBING & HEATING
 BY Jck DATE 4/10/67

1. Manufactured and certified by SUPERIOR BOILER WORKS, INC.; 3524 E. 4TH, HUTCHINSON, KS 67
(name and address of manufacturer)

2. Manufactured for KINSTON PLUMBING & HEATING, P.O. BOX 637, KINSTON, NC 28502-06
(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 1/4" ---- ----
(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)

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) (dia) (if various, give max & min) (no & dia) (net area) (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 20-3/8" 20-3/8" PLAIN 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) (elliptical) (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 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 1/4"	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 - i.e. dome, boiler piping, etc)

1. SA285C .687" 30 PSI
 2. SA285C .312" 30 PSI
 3. SA285C .312" 30 PSI
 4. 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

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))

X APPROVED
 APPROVED AS NOTED
 APPROVED
 REVISIONS: 1 REVISE & SUBMIT
 KINSTON PLUMBING & HEATING

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

1. Manufactured and certified by SUPERIOR BOILER WORKS, INC.; 3524 E. 4TH; HUTCHINSON, KS 6750
(name and address of manufacturer)
2. Manufactured for KINSTON PLBG. & HTG., P. O. BOX 637, KINSTON, NC 28502-0637
(name and address of purchaser)
3. Location of installation MARINE CORPS BASE, BLDG. #CG-1, CAMP LEJEUNE, NC 28542
(name and address)
4. Unit identification FIREBOX 9992 ---- ---- 9992 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 1/4" ---- ----
(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)
9. Tubes: No. SA178A STRAIGHT Dia. 2" Length 30 @ 17 @ 38-3/4" 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 15-11/16" 15-11/16" 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) (elliptical) (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 U1	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
1. SA285C .687" 30 PSI
SA285C .312" 30 PSI
3. SA285C .312" 30 PSI ?
 4. SA53B .375" 30 PSI 14" OD, 7" L
(mat'l spec. grade, give 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	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 (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 per 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 Feb. 27, 1987 Name SUPERIOR BOILER WORKS, INC. Signed Phillip A. 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 Kans. #144 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 2-27-87 Signed Paul Dunder 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)

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

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

1. Manufactured and certified by SUPERIOR BOILER WORKS, INC.; 3524 E. 4TH, HUTCHINSON, KS 67501 BY QCK DATE 4/10/87

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) (dia (in)) (pitch)

9. Tubes No SA178A STRAIGHT Dia. 2" Length 17 @ 38-5/8" Gauge 13
(mat'l spec. grade) (straight or bent) (of various give max & min) (pitch) (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) (feature) (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. U1	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 4. BURNER TUBE
(brief description - i.e. 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 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 D. 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 Kans. #194 and employed by H.S.B.I. & I. CO. of HARTFORD, CT. ~~XX~~ 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 Neil Dumber Commissions NB8286
(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
 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 NAVFACENGCOM
 NORFOLK, VA

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

Thomas L. Lanier
 NAVY OR NATIONAL BOARD NO
 NAVFAC 239

BOILER DATA

3. MANUFACTURER
 SUPERIOR Boiler Co

4. PROPERTY NO. 17	5. MFG. SERIAL NO. 9993	6. MFG. MODEL NO. 3-5.6-306
7. BUILDING NO. LCH 4014	8. YEAR BUILT 1987	9. CAPACITY 1862 54 HP LB/HR.

10. FUEL (Check)
 COAL OIL GAS

11. PRESSURE
 DESIGNED 15 psi OPERATING 10 psi TEST 22 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

18. COMBUSTION CONTROL (Mfg. Name)
 GORDON PIATT

19. COMBUSTION
 11.5 % CO₂ 6.0 % EXCESS O₂

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

SAFETY DEVICES
 SAFETY VALVES

21. MANUFACTURER
 KUNKLE

22. NUMBER AND SIZE
 1-2"

23. PSI SETTING
 15

24. CONDITION
 SAT.

STEAM PRESSURE GAUGE

25. MANUFACTURER
 USG

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

27. REASON IF NOT TESTED

FIRING EQUIPMENT

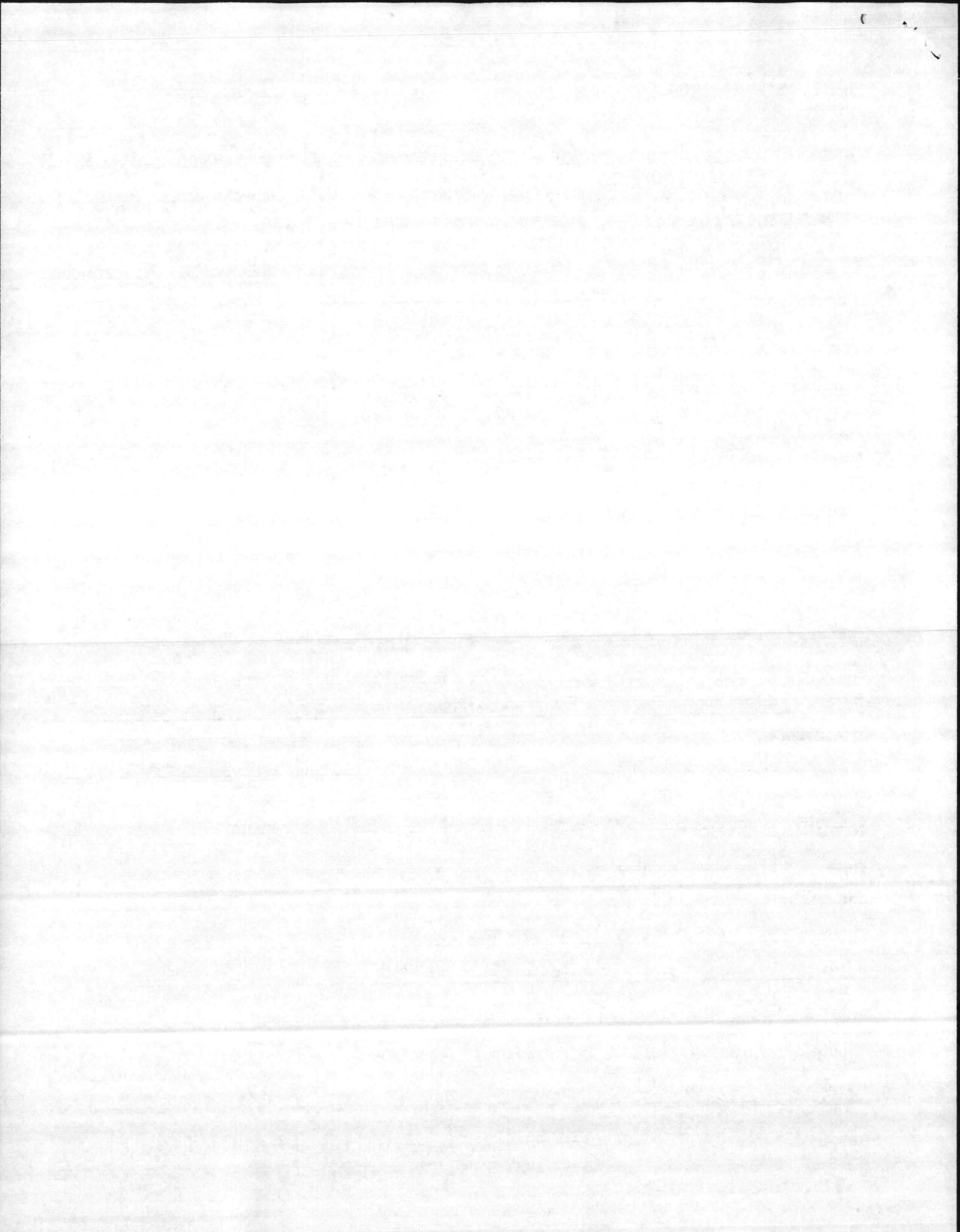
ITEM	IN SERVICE	ALTERNATE
28. MANUFACTURER	GORDON PIATT	
29. TYPE	NOZZLE SPRAY	
30. FUEL GRADE	#2	

31. INSPECTOR'S COMMENTS
 NEW BOILER INSTALLED UNDER CONTRACT # 85-6439

NEW UNIT WILL RETAIN PROPERTY NO AS OLD BOILER.

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

33. SIGNATURE
Timothy Jewell 11/12/87
 BY DIRECTION



MFGRS. SERIAL NO. 9993	MFGRS. MODEL NO. 3-516-306	MANUFACTURER SUPERIOR BLR. WKS.	DATE OF SHEET 9/28/87
TYPE OF SUPERHEATER N/A	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 N/A °F	BOILER 306	PRESSURE (psig) 15 DESIGN 10 MAINT 10 INSTALLED WP	DATE BUILT 1987
NORMAL FEEDWATER TEMPERATURE N/A °F	WATER WALL _____ ECONOMIZER _____ SUPERHEATER _____	CAPACITY 54 HP 1862 LB./HR.	DATE INSTALLED 1987
(See Reverse Side for Fittings)	DRUMS NO. _____ DIAMETER _____ IN. LENGTH _____ FT. _____ IN.	AIR HEATER <input checked="" type="checkbox"/> NONE <input type="checkbox"/> TUBULAR <input type="checkbox"/> REGENERATIVE <input type="checkbox"/> STEAM	BOILER TYPE <input type="checkbox"/> C.I. <input checked="" type="checkbox"/> WATER TUBE <input type="checkbox"/> FIRE TUBE
	<input type="checkbox"/> RIVETED <input type="checkbox"/> FORGE WELDED <input checked="" type="checkbox"/> FUSION WELDED		DRAFT <input checked="" type="checkbox"/> NATURAL <input 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	FUEL & FIRING EQUIPMENT IN SERVICE		ALTERNATE FUEL & FIRING EQUIPMENT	
		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 _____	COAL <input type="checkbox"/> ANTHRACITE <input type="checkbox"/> BITUMINOUS GAS <input type="checkbox"/> NATURAL <input type="checkbox"/> MANUFACTURED
FIRING EQUIPMENT	<input type="checkbox"/> COAL - HAND FIRED <input type="checkbox"/> 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 <input type="checkbox"/> GAS <input type="checkbox"/> GAS RING <input type="checkbox"/> VENTURI TYPE	<input type="checkbox"/> COAL - PULVERIZER <input type="checkbox"/> ATTRITION <input type="checkbox"/> BALL & RACE <input type="checkbox"/> BOWL MILL <input type="checkbox"/> TUBULAR <input checked="" type="checkbox"/> OIL BURNERS <input checked="" type="checkbox"/> MECHANICAL <input type="checkbox"/> STEAM ATOMIZED <input type="checkbox"/> AIR ATOMIZED <input type="checkbox"/> ROTARY CUP	<input type="checkbox"/> COAL - HAND FIRED <input type="checkbox"/> 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 <input type="checkbox"/> GAS <input type="checkbox"/> GAS RING <input type="checkbox"/> VENTURI TYPE	<input type="checkbox"/> COAL - PULVERIZER <input type="checkbox"/> ATTRITION <input type="checkbox"/> BALL & RACE <input type="checkbox"/> BOWL MILL <input type="checkbox"/> TUBULAR <input type="checkbox"/> OIL BURNERS <input type="checkbox"/> MECHANICAL <input type="checkbox"/> STEAM ATOMIZED <input type="checkbox"/> AIR ATOMIZED <input type="checkbox"/> ROTARY CUP
	FIRING EQUIPMENT MANUFACTURER			FIRING EQUIPMENT MANUFACTURER

DATA RECORD SHEET - BOILERS
 MAY/84 9-1101/4/80 (8-68) Supersedes MAY/DOCS 2509
 S/N 0105-003-7010

PROPERTY NO. 17	BUILDING OR LOCATION LCH-4014	BOILER 17	ACTIVITY MOBCL
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FITTING	NUMBER	SIZE	MANUFACTURER	TYPE	SETTING	RANGE	PRESSURE CLASS
SAFETY VALVES	1	2"	KUAT	S 930-1	15		
STEAM OUTLET VALVES	1	6"	HAMMOND	GATE			SWP 125
BLOW-OFF VALVES	2	2"	HAMMOND	GATE			WSP 150
FEEDWATER VALVES							
WATER COLUMN	1	1"	MCDONNELL MILLER	NO 157			150
FEEDWATER REGULATOR	1	1"	MCDONNELL MILLER	51-2			30
WATER GAGES							
STEAM GAGES	1	4"	U.S. GAGE	COMPOUND		0-30 0-30	
SOOT BLOWERS							
FUSIBLE PLUGS							

NB # 9993

PROGRAMMER - GORDON PIATT (GPI01)

BURNER - MODEL S8-0-07 GPH - 16.7

NOZZLE SIZE - 2 EA. 5.00 GPH (DEHAVAN)
90°

CONTRACT # 85-6439

H.P. 54

DATE OF INSPECTION
 23 SEPT - 16 DEC 1981

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 23 SEPT 1981
 15. BOILER INSPECTOR
Jesse L. Sellen
 NAVY OR NATIONAL BOARD NO
 NAVFAC 225

3. MANUFACTURER
 KEWANEE

4. PROPERTY NO. 17	5. MFG. SERIAL NO. HSB 97427	6. MFG. MODEL NO. CL-L-77
7. BUILDING NO. LCH-4014	8. YEAR BUILT 1945	9. CAPACITY 4,000 LBS/HR
10. FUEL (Check) <input type="checkbox"/> COAL <input checked="" type="checkbox"/> OIL <input type="checkbox"/> GAS		11. PRESSURE DESIGNED 15 psi OPERATING 8 psi TEST 23 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
 19. COMBUSTION
 9.0 % CO₂ % EXCESS O₂

18. COMBUSTION CONTROL (Mfg. Name)
 HONEYWELL
 20. FLUE GAS TEMPERATURE
 AFTER BOILER 250 °F ; AFTER HEAT TRAP _____ °F

SAFETY DEVICES
 SAFETY VALVES

21. MANUFACTURER CONSOLIDATED	22. NUMBER AND SIZE 1-2"	23. PSI SETTING 15	24. CONDITION GOOD
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STEAM PRESSURE GAUGE

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

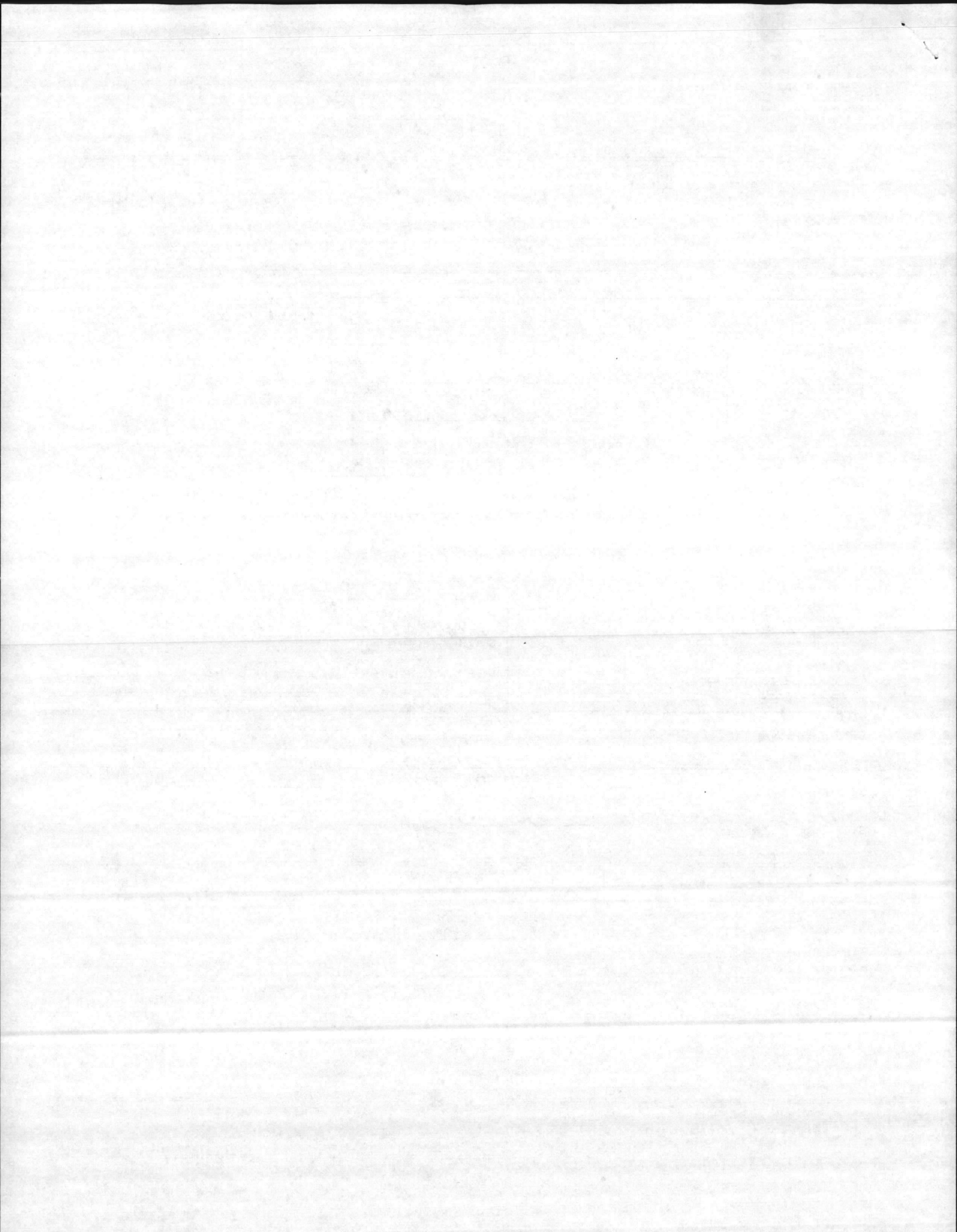
FIRING EQUIPMENT

ITEM	IN SERVICE	ALTERNATE
28. MANUFACTURER PETRO		
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. M. Sellen
 BY DIRECTION



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

DATE OF INSPECTION
 1-20-77

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
 Commandant Hdqtrs Marine Corps (Code LFF)

14. CERTIFICATE ISSUED YES NO
 EXPIRES 7-8-77
 15. BOILER INSPECTOR
 E.O. Mahley
 NAVY OR NATIONAL BOARD NO
 NAVFAC 101

BOILER DATA

3. MANUFACTURER
 Kewanee Boiler Corp.

4. PROPERTY NO. 17	5. MFG. SERIAL NO. H5B97427	6. MFG. MODEL NO. C7-L-77
7. BUILDING NO. 4014	8. YEAR BUILT 1945	9. CAPACITY 4,000 #/HR.
10. FUEL (Check) <input type="checkbox"/> COAL <input checked="" type="checkbox"/> OIL <input type="checkbox"/> GAS		11. PRESSURE DESIGNED 15 psi OPERATING 8 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

17. BOILER USE
 Heating

18. COMBUSTION CONTROL (Mfg. Name)
 Honeywell

19. COMBUSTION
 5.0 % CO₂ _____ % EXCESS O₂

20. FLUE GAS TEMPERATURE
 AFTER BOILER 550 °F ; AFTER HEAT TRAP _____ °F

SAFETY DEVICES
SAFETY VALVES

21. MANUFACTURER Consolidated	22. NUMBER AND SIZE 1-2"	23. PSI SETTING 15	24. CONDITION New.
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STEAM PRESSURE GAUGE

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

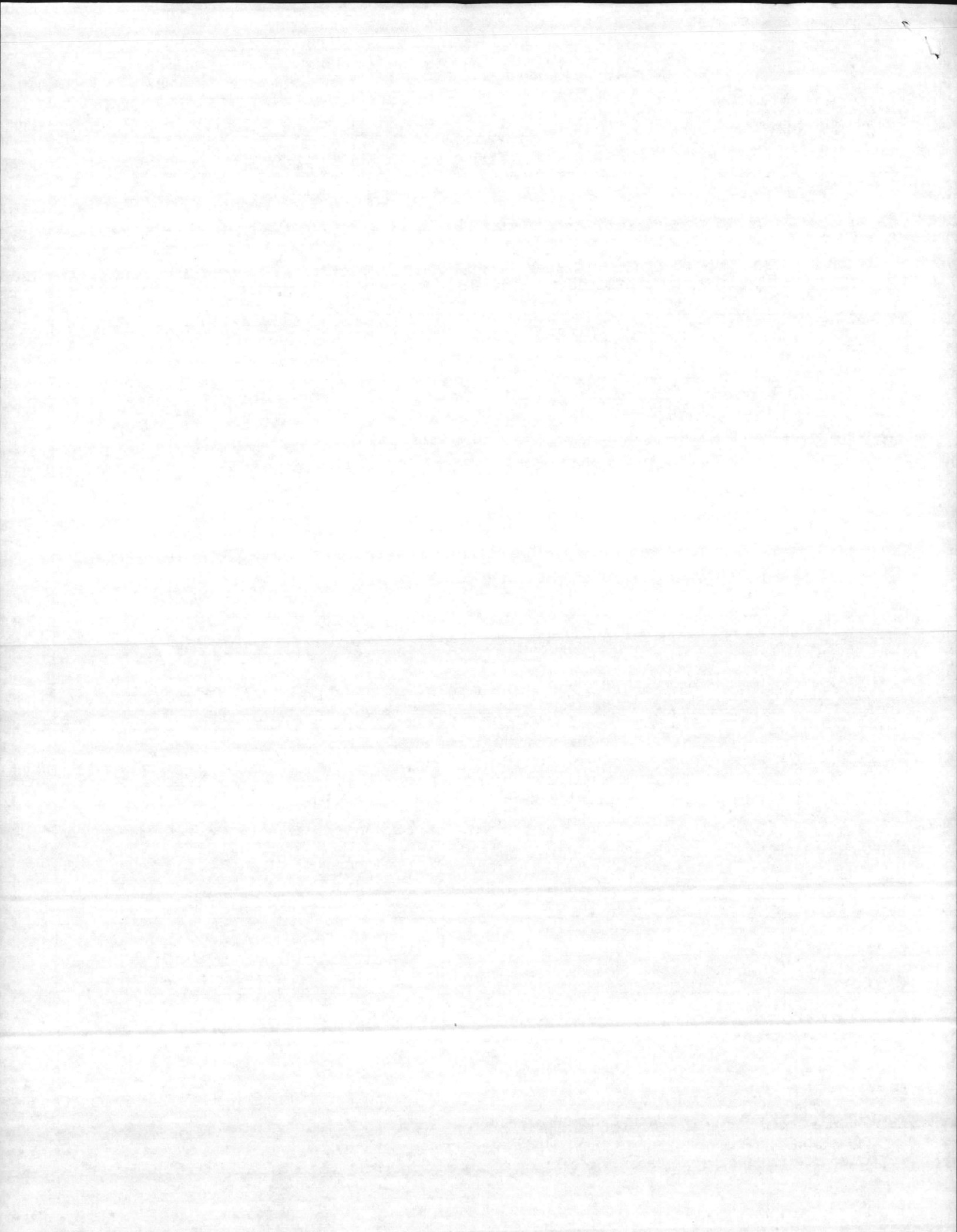
FIRING EQUIPMENT

ITEM	IN SERVICE	ALTERNATE
28. MANUFACTURER	Petco	None
29. TYPE	Nozzle spray - Press Atom	
30. FUEL GRADE	H 2	

31. INSPECTOR'S COMMENTS

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

33. SIGNATURE
 J. A. Davis
 BY DIRECTION



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

DATE OF INSPECTION

6-23/7-8-76

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

Commandant Hdqtrs Marine Corps (Code 117)

14.

CERTIFICATE ISSUED YES NO

Expires 11-11-76

15. BOILER INSPECTOR

E.O. Mobley
 NAVY OR NATIONAL BOARD NO.

BOILER DATA

3. MANUFACTURER

Kewanee Boiler Corp.

NAV FAC 101

16. REASON FOR NOT ISSUING CERTIFICATE

4. PROPERTY NO.

5. MFG. SERIAL NO.

6. MFG. MODEL NO.

7. BUILDING NO.

8. YEAR BUILT

9. CAPACITY

10. FUEL (Check)

11. PRESSURE

DESIGNED

OPERATING

TEST

COAL OIL GAS

15 psi

psi

8 psi

psi

22 1/2 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

20. FLUE GAS TEMPERATURE

% CO₂

% EXCESS O₂

AFTER BOILER

°F

: AFTER HEAT TRAP

°F

SAFETY DEVICES

SAFETY VALVES

21. MANUFACTURER

Consolidated

22. NUMBER AND SIZE

1-1" & 1-2"

23. PSI SETTING

24. CONDITION

STEAM PRESSURE GAUGE

25. MANUFACTURER

U.S. Gage

26. CORRECTIONS

WATER LEG CONSTANT

psi

OTHER

psi

27. REASON IF NOT TESTED

FIRING EQUIPMENT

ITEM	IN SERVICE	ALTERNATE
28. MANUFACTURER	Petco	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

