

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

DATE OF INSPECTION
 1 JULY - 5 NOV. 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. Lamer
 NAVY OR NATIONAL BOARD NO

NAVFAC 239
 16. REASON FOR NOT ISSUING CERTIFICATE

BOILER DATA

3. MANUFACTURER
 SUPERIOR Boiler Co.

4. PROPERTY NO. 45	5. MFG. SERIAL NO. 9992	6. MFG. MODEL NO. 3-4-7-75
7. BUILDING NO. CBI	8. YEAR BUILT 1987	9. CAPACITY 536 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
 11.0 % CO₂ 6.5 % EXCESS O₂

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

**SAFETY DEVICES
 SAFETY VALVES**

21. MANUFACTURER	22. NUMBER AND SIZE	23. PSI SETTING	24. CONDITION
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STEAM PRESSURE GAUGE

25. MANUFACTURER MARSHALL	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	GORDON PIATT	
29. TYPE	NOZZLE SPRAY	
30. FUEL GRADE	#2	

31. INSPECTOR'S COMMENTS
 NEW Boiler INSTALLED UNDER CONTRACT # 95-6439

NEW Boiler Will RETAIN SAME PROPERTY NO AS OLD UNIT.

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

33. SIGNATURE
Timothy Powell 11/2/87
 BY DIRECTION

MFGRS. SERIAL NO. 9992	MFGRS. MODEL NO. 3-4-7-75	MANUFACTURER SUPERIOR	DATE OF SHEET 5 NOV. 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	PRESSURE (psig) DESIGN 30 MAWP 12 INSTALLED WP	DATE BUILT 1987
NORMAL FEEDWATER TEMPERATURE _____ °F	WATER WALL _____ ECONOMIZER _____ SUPERHEATER _____	AIR HEATER <input 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. <input type="checkbox"/> RIVETED <input type="checkbox"/> FORGE WELDED <input checked="" type="checkbox"/> FUSION WELDED	CAPACITY _____ HP _____ LB./HR _____ EDR 559 536 BTU/HR.	BOILER TYPE <input type="checkbox"/> C.I. <input checked="" type="checkbox"/> WATER TUBE <input checked="" type="checkbox"/> FIRE TUBE
			DRAFT <input type="checkbox"/> NATURAL <input checked="" type="checkbox"/> FORCED <input type="checkbox"/> INDUCED
			PRODUCES <input type="checkbox"/> STEAM <input checked="" type="checkbox"/> LOW TEMP. WATER <input type="checkbox"/> HIGH TEMP. WATER
			CIRCULATION <input type="checkbox"/> NATURAL <input checked="" 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 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 _____
	GAS <input type="checkbox"/> NATURAL <input type="checkbox"/> MANUFACTURED		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"/> COAL - PULVERIZER <input type="checkbox"/> ATTRITION <input type="checkbox"/> BALL & RACE <input type="checkbox"/> BOWL MILL <input type="checkbox"/> TUBULAR	<input type="checkbox"/> COL - HAND FIRED <input type="checkbox"/> COAL - STOKER	<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"/> 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"/> 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"/> 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"/> MECHANICAL <input type="checkbox"/> STEAM ATOMIZED <input type="checkbox"/> AIR ATOMIZED <input type="checkbox"/> ROTARY CUP
	GAS <input type="checkbox"/> GAS RING <input type="checkbox"/> VENTURI TYPE		GAS <input type="checkbox"/> GAS RING <input type="checkbox"/> VENTURI TYPE	
FIRING EQUIPMENT MANUFACTURER	GORDON PLATT			

PROPERTY NO. 45	BUILDING OR LOCATION CG-1	BOILER 45	ACTIVITY MCBCL
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DATA RECORD SHEET - BOILERS
 NAVFAC 9-11014/40 (9-68) Supersedes NAVDOCS 2509
 S/N 0105-003-7010

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

PROGRAMMER - HONEYWELL TYPE R7795

LWCO - McDONNELL # 247.2 30 PSI - FLOAT TYPE.

N.B. # 9992

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

DATE OF INSPECTION

28 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

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

NAVFAC 239
 16. REASON FOR NOT ISSUING CERTIFICATE

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

BOILER DATA

3. MANUFACTURER

KEWANEE

4. PROPERTY NO. 45	5. MFG. SERIAL NO. 3510	6. MFG. MODEL NO. E-9535
7. BUILDING NO. CG1	8. YEAR BUILT 1952	9. CAPACITY 500,000 BTU/HR.
10. FUEL (Check)		11. PRESSURE
<input type="checkbox"/> COAL	<input checked="" type="checkbox"/> OIL	<input type="checkbox"/> GAS
		DESIGNED 30 psi
		OPERATING 12 psi
		TEST _____ psi

12. FEED WATER TREATMENT	13. TYPE
<input type="checkbox"/> SATISFACTORY	<input type="checkbox"/> WATER TUBE
<input type="checkbox"/> UNSATISFACTORY	<input checked="" type="checkbox"/> FIRE TUBE
	<input type="checkbox"/> C. I.

17. BOILER USE HEATING	18. COMBUSTION CONTROL (Mfg. Name) HONEYWELL
19. COMBUSTION	20. FLUE GAS TEMPERATURE
_____ % CO ₂	AFTER BOILER _____ °F
_____ % EXCESS O ₂	AFTER HEAT TRAP _____ °F

SAFETY DEVICES

SAFETY VALVES

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

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

FIRING EQUIPMENT

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

31. INSPECTOR'S COMMENTS

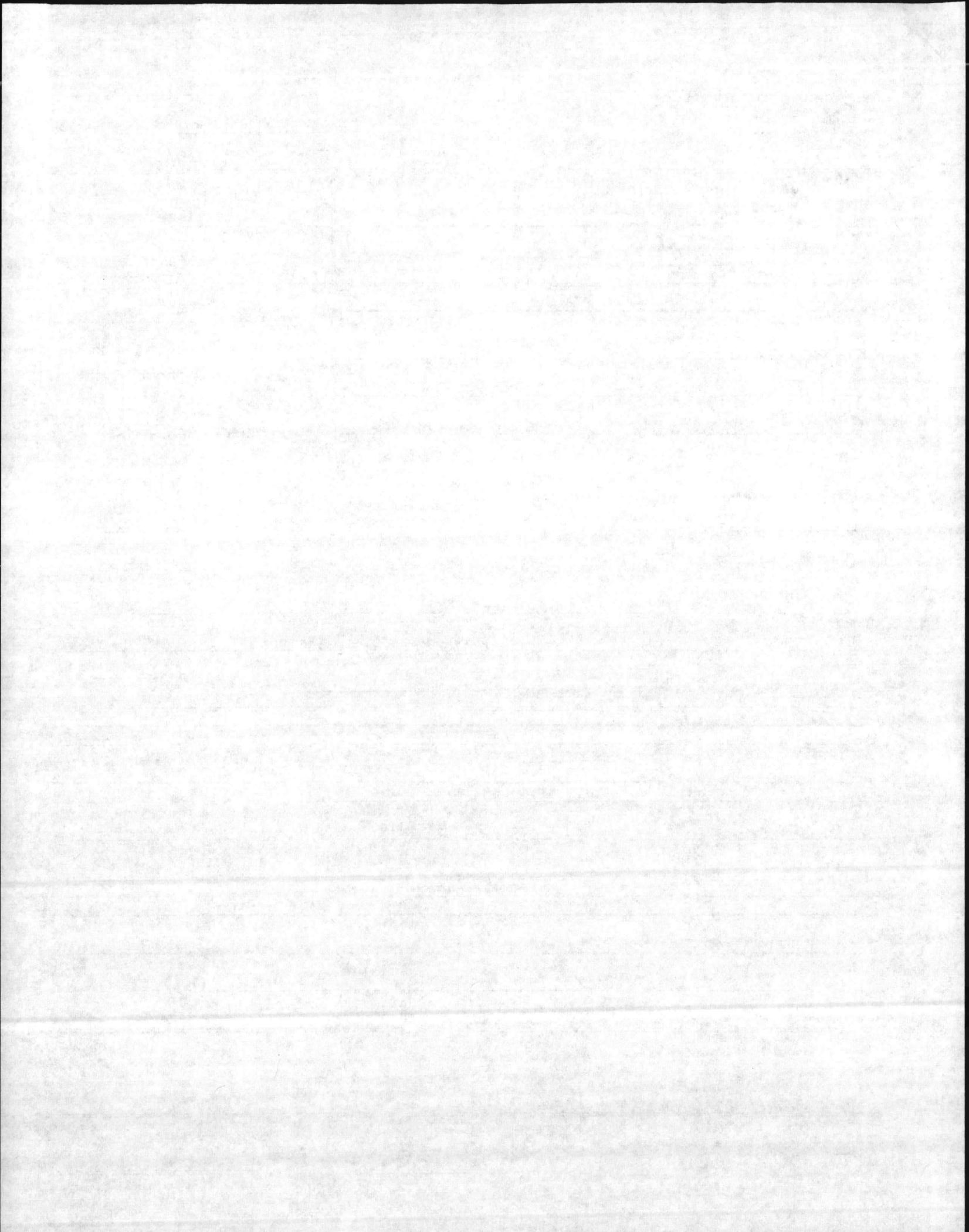
HAS BEEN REPLACED BY NEW Boiler

32. ATTACHMENT(S) (Check)

COPY OF INSPECTOR'S REPORT SPECIAL COMMENTS

33. SIGNATURE

Timothy J. ... 11/12/87 BY DIRECTION



BOILER INSPECTION CHECK LIST

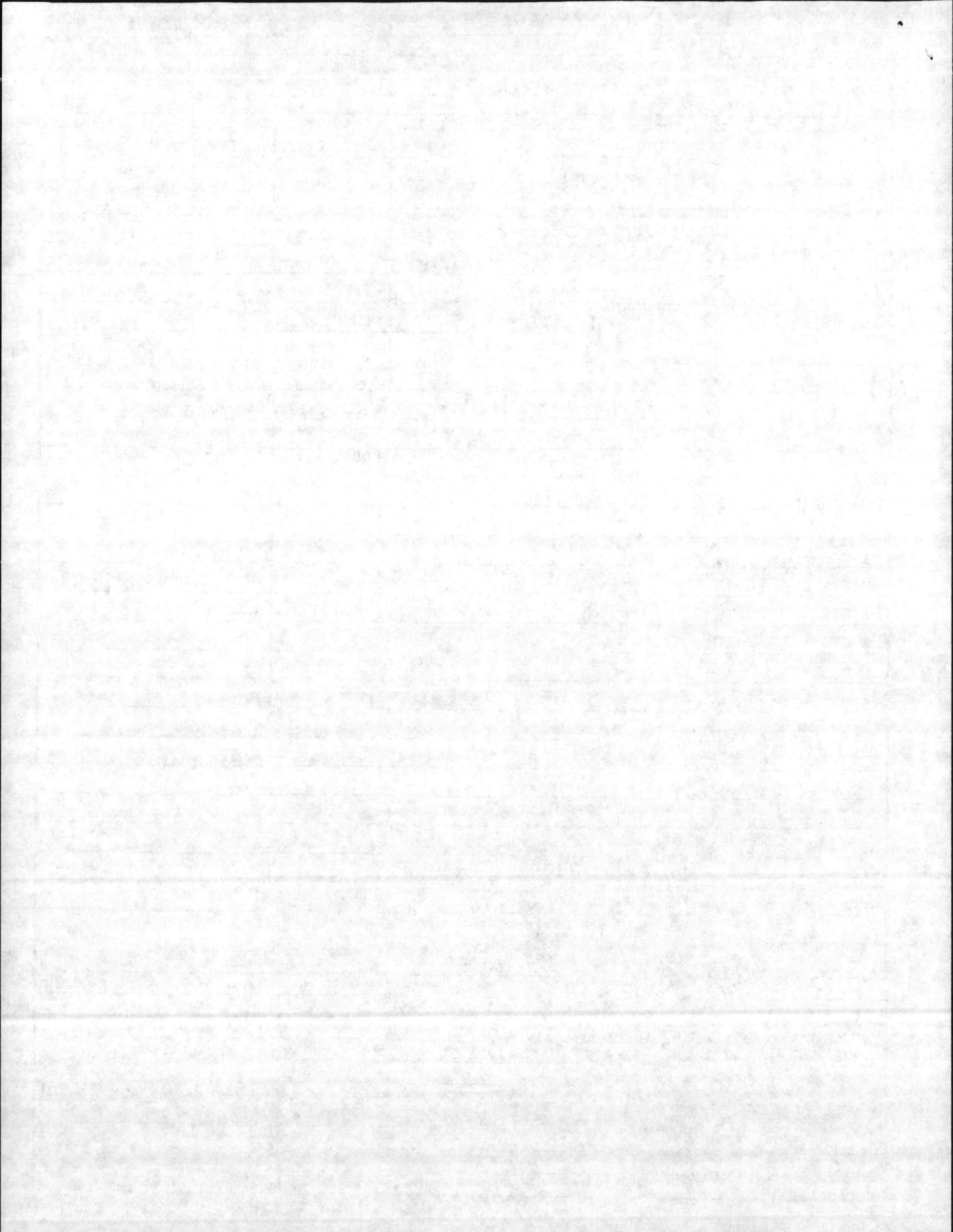
85-6439

LOCATION		BLDG NO.	BOILER NO.	DATE
		CG-1	45	5 NOV. 87 20 OCT. 87
BOILER MFG. SUPERIOR BOILER		OPERATING PRESS. 12	DESIGN PRESS. 30	CAP.
SERIAL NO. 9992		MODEL NO. 3-4.7-75	N.B. NO. 9992	
BURNER MFG. GORDON PIATT			FIRING RATE:	
STEAM CASE NAME: MARSHALL TOWN			PRESS. 60-260 0-60	TEST
SV MFG WATTS	MODEL M-1	CAP 925,000	NO. 1	SIZE 3/4
NO. 1	SET 30	OPEN 35 UNSAT.	CLOSE	
NO. 2	SET	OPEN 32 NEW S/U 5 NOV. 87	CLOSE	
NO. 3	SET	OPEN	CLOSE	
CO2% 11.0	02% 6.5	STACK TEMP 320-450	COMB. EFF. 81.5	PURGE TIME
NO. 1 FIREYE	C/O OK (3.5 SEC)	L/O	A/L	
NO. 2 FIREYE	C/O		A/L	
HI WATER STEAM TEMP.	C/O OK @ 170		A/L	
EXCESS WATER STEAM TEMP.	C/O OK @ 190	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	YEAR BUILT 1987		A/L	
HEAT SURFACE	Boiler 75	WATER WALL		

REMARKS:

CONTRACT # 85-6439

- * 1. S/U LIFTS AT 35 PSE - UNSAT. (5 NOV. 87 NEW S/U - SATISFACTORY)
- 2. INSTALL 1/2" PIPE PLUG IN BREECHING.
- 3. STAMP CAPACITY ON NAME PLATE.
- BURNER NOZZLE SIZE - 2.75 GPH 90° B @ 300 PSE
- LO - FIRE = 100 PSE
- HI - FIRE = 300 PSE = $2.75 \times 1.7 = 4.675 \text{ GPH} \times 140 \text{ MBH} = 654 \text{ INPUT}$
 $\times 80\% = 523 \text{ MBH OUT PUT.}$
- CAP OF



MPGRS. SERIAL NO. 9992	MPGRS. MODEL NO. 3-4-7-75	MANUFACTURER SUPERIOR	DATE OF SHEET 5 NOV. 1987
TYPE OF SUPERHEATER	FURNACE - VOLUME _____ CU. FT.	OPERATION <input 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.) 75	PRESSURE (psig) 30 DESIGN 12 MAWP 12 INSTALLED WP	DATE BUILT 1987
NORMAL FEEDWATER TEMPERATURE _____ °F	BOILER _____ WATER WALL _____ ECONOMIZER _____ SUPERHEATER _____	CAPACITY _____ HP _____ LB./HR _____ EDR _____ BTU/HR.	DATE INSTALLED 1987
(See Reverse Side for Fittings)	DRUMS NO. _____ DIAMETER _____ IN. LENGTH _____ FT. _____ IN. <input type="checkbox"/> RIVETED <input type="checkbox"/> FORGE WELDED <input type="checkbox"/> FUSION WELDED	AIR HEATER <input type="checkbox"/> NONE <input type="checkbox"/> TUBULAR <input type="checkbox"/> REGENERATIVE <input type="checkbox"/> STEAM	BOILER TYPE <input type="checkbox"/> C.I. <input type="checkbox"/> WATER TUBE <input checked="" type="checkbox"/> FIRE TUBE 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

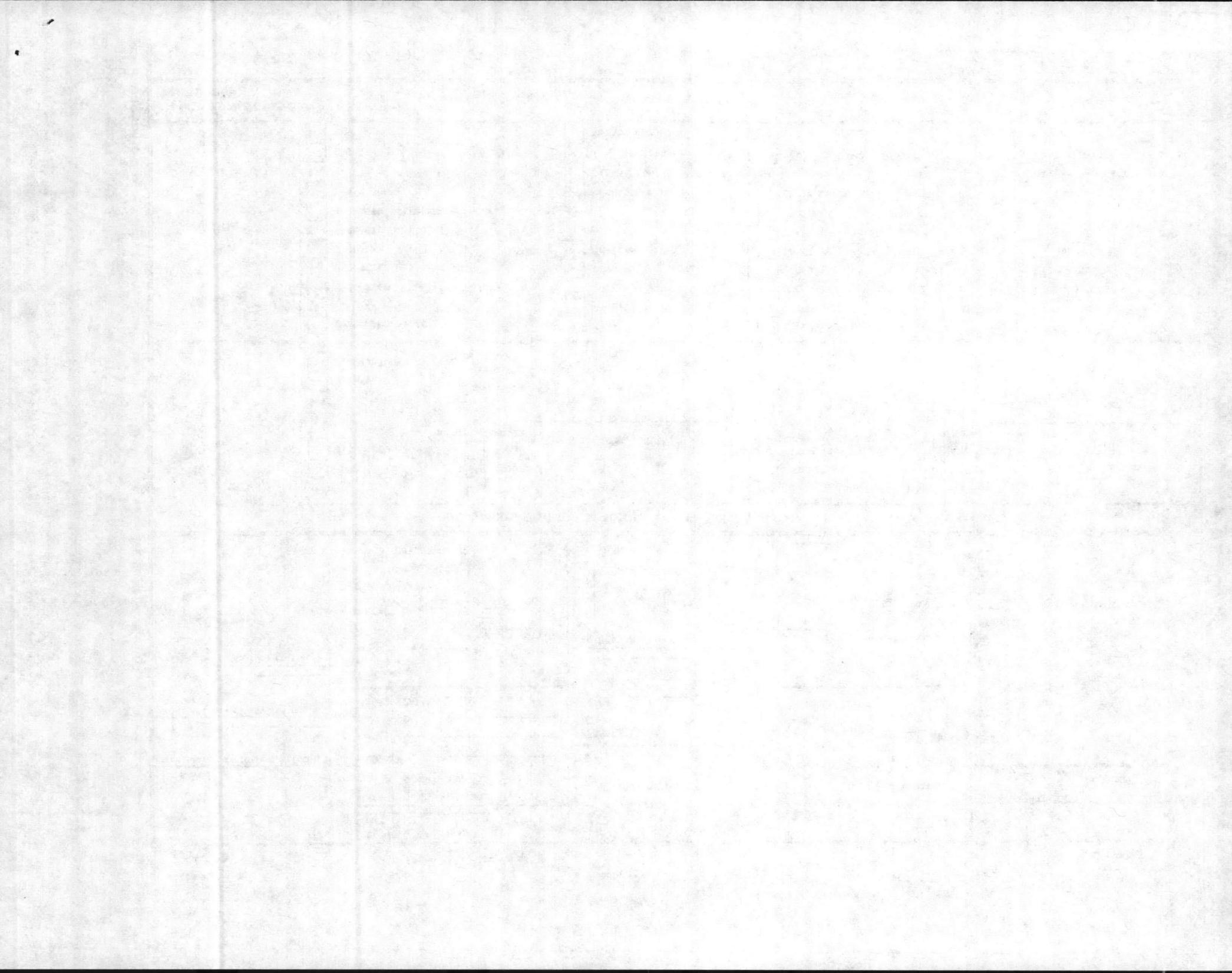
FUEL	FUEL & FIRING EQUIPMENT IN SERVICE		ALTERNATE FUEL & FIRING EQUIPMENT	
	COAL <input type="checkbox"/> ANTHRACITE <input type="checkbox"/> BITUMINOUS GAS <input type="checkbox"/> NATURAL <input type="checkbox"/> MANUFACTURED	OIL <input type="checkbox"/> COMMERCIAL 1, 2, 4, 5, 6 <input type="checkbox"/>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

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 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	<input type="checkbox"/> COL - 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 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 type="checkbox"/> MECHANICAL <input type="checkbox"/> STEAM ATOMIZED <input type="checkbox"/> AIR ATOMIZED <input type="checkbox"/> ROTARY CUP
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FIRING EQUIPMENT MANUFACTURER GORDON PLATT
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PROPERTY NO. 45	BUILDING OR LOCATION CG-1	ACTIVITY BOILER 45 MCBCL
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DATA RECORD SHEET - BOILERS
 NAVFAC 9-11014/40 (9-69) Supersedes NAVDOCS 2509
 9/74 0105-003-7010



JOB CAMP DEJEUNE Bldg C 61
 UNIT: Mfr SUPERIOR Size 3-4.7-15
 Rated Input _____ MBH _____ GPH# 2 Oil
 BURNER: Mod RC-0-03
 UL Serial No 56601

COMBUSTION TESTS:

	GAS		OIL	
	HI	LO	HI	LO
CO ₂ -%			11.0	
CO ₂ %/SMOKE-# <u>0</u>			6.5	
DRAFT: <u>Overfire</u>				
Outlet				
TEMP. Outlet			520	
Room			70	

FUEL PRESSURES:
 Orifice/Nozzle _____
 Bypass VACUUM
 Atomizing Air 300 100
 PUMP: Disch-PSI 300 100
 Suct. "Hg _____

GAS INLET _____
 AIR COMP. PSI _____
 OIL TEMP-Deg. F-Inlet _____
 Outlet _____
 INLET LOUVER-" 1/2
 PRI/SEC AIR-% 3
 FLAME SIGNAL 5 5

Stack Height 25 ft. Size _____
 Breeching: Size N/A Lgh N/A
 DAMPER: Unit-%Open N/A Breeching N/A
 Barometric Damper N/A Size _____
 Seq. Draft Control N/A
 TANK: Location Above/Below Burner
 Dist. from pump 30' Vert. Lift 0
 Suct. Line Size 3/8" Copper/Pipe _____
 COMBUSTION AIR INLET: Size 23" X 23"

REMARKS _____

Startup by Jim Davis
 Owner Tom Smith
 Date 10/20/87

Form No. 1210

DATE OF INSPECTION
 16 DEC 1980

TYPE OF INSPECTION **NR**
 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 16 DEC 1981
 15. BOILER INSPECTOR
James L. Sellins
 NAVY OR NATIONAL BOARD NO.
 NAVFAC 225

BOILER DATA

3. MANUFACTURER
KEWANEE

4. PROPERTY NO. 45	5. MFG. SERIAL NO. 3510	6. MFG. MODEL NO. E9535
7. BUILDING NO. CG-1	8. YEAR BUILT 1952	9. CAPACITY 500,000 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.

17. BOILER USE
HEATING
 19. COMBUSTION
 7.5 % CO₂ % EXCESS O₂

18. COMBUSTION CONTROL (Mfg. Name)
HONEYWELL
 20. FLUE GAS TEMPERATURE
 AFTER BOILER 350 °F ; AFTER HEAT TRAP _____ °F

SAFETY DEVICES
SAFETY VALVES

21. MANUFACTURER McDONNELL MILLER	22. NUMBER AND SIZE 1-2 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
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27. REASON IF NOT TESTED

FIRING EQUIPMENT

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

31. INSPECTOR'S COMMENTS
**CONDITION UNCHANGED -
 OK -**

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

33. SIGNATURE
R.M. Wilson
 BY DIRECTION

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

DATE OF INSPECTION
 2-1-77

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

1. FROM
 2. TO
 Base Maint. Officer Camp Lejeune N.C.
 Commandant Hdqtrs Marine Corps (Code Lt)

14. CERTIFICATE ISSUED YES NO
 EXPIRES 6-30-77
 15. BOILER INSPECTOR
 E.D. Mobley

BOILER DATA

3. MANUFACTURER
 Kewanee Boiler Corp.

4. PROPERTY NO. 45	5. MFG. SERIAL NO. 3510	6. MFG. MODEL NO. E 95-35
7. BUILDING NO. CG1	8. YEAR BUILT 1952	9. CAPACITY 500,000 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
 Dry Layup

13. TYPE
 WATER TUBE FIRE TUBE C. I.

NAVY OR NATIONAL BOARD NO.
 NAV FAC 101
 16. REASON FOR NOT ISSUING CERTIFICATE

17. BOILER USE
 Heating

18. COMBUSTION CONTROL (Mfg. Name)
 Honeywell

19. COMBUSTION
 6.0 % CO₂ % EXCESS O₂

20. FLUE GAS TEMPERATURE
 AFTER BOILER 600 °F : AFTER HEAT TRAP °F

SAFETY DEVICES

21. MANUFACTURER
 MS DONNELL MILLER

22. NUMBER AND SIZE
 1-2 1/2"

23. PSI SETTING
 30

24. CONDITION
 Good

25. MANUFACTURER
 ASME STD.

26. CORRECTIONS
 WATER LEG CONSTANT psi OTHER psi

FIRING EQUIPMENT

ITEM	IN SERVICE	ALTERNATE
28. MANUFACTURER	Petro	None
29. TYPE	Nozzle spray Press Atom	
30. FUEL GRADE	#2	
31. INSPECTOR'S COMMENTS		

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

33. SIGNATURE
 [Signature]

BY DIRECTION



CG-1

SALES ORDER NO. 50090 NAT'L BOARD NO. 9992
 DATE RECEIVED: 1/27/87 SHIPPING DATE: WK. OF 3/30/87
 STATUS: W.A.&R. RELEASED DATE: _____
 JOB: Camp Lejeune
Bldg. CG-1
 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. 3-4.7-75-W30-M
 NOMINAL H.P. 16 OUTPUT 540 MEH
 DESIGN PRESSURE 30 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): Watts (L)
 (1) #740 SIZE 3/4x1 SET@ 30 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 _____ ()

CONTROL PACKAGE: VOLTAGE 115-60-1
 BOILER JUNCTION BOX: N.E.M.A. _____ RS LS
 WATER COLUMN: RS LS W/GAUGE GLASS TRYCOCKS
 _____ ()
 PRIMARY L.W.C.O.: RS LS TOP _____
MM 247-2 (L)
 AUX. L.W.C.O.: RS LS TOP _____ ()
 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 _____ ()

SPECIAL INSTRUCTIONS: Burner mounting plate No aquastats or junction
Unit to have rear smoke for GP R6.9-0-03 box.
outlet - horizontal. direct spark.

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

**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**

CG-1

1. Manufactured and certified by SUPERIOR BOILER WORKS, INC.; 3524 E. 4TH; HUTCHINSON, KS 67501
(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) (no. & dia)
9. Tubes: No. SA178A STRAIGHT Dia. 2" Length 17 @ 38-3/4" Gauge 13
(mat'l spec. grade) (straight or bent) (if various, give max. & min) (pitch (hor. and vert.)) (MAWP (psi))
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
2. SA285C .312" 30 PSI
3. SA285C .312" 30 PSI
4. SA53B .375" 30 PSI 14 OD, 7 L
(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	1"	CPL.	WELDED	SA105	.196"	NA	SHELL
Inlet	1	3"	CPL.	WELDED	SA105	.327"	NA	REAR TUBESHE
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))

FORM H-2 (Back)

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, 19 88
 Date Feb. 27, 1987 Name SUPERIOR BOILER WORKS, INC. Signed Shelby 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. #144 and employed by H.S.B.I. & I. CO. of HARTFORD, CT

8K 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 Rumber 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.)