

DATE OF INSPECTION

3-1 to 5-13 1985

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 MAR. 1986

15. BOILER INSPECTOR

Thomas L. Lanier
 NAVY OR NATIONAL BOARD NO.

NAVFAC 239
 16. REASON FOR NOT ISSUING CERTIFICATE

BOILER DATA

3. MANUFACTURER

CLEAVER BROOKS

4. PROPERTY NO.

72

5. MFG. SERIAL NO.

WG 3261

6. MFG. MODEL NO.

D-52-RH

7. BUILDING NO.

M-625

8. YEAR BUILT

1984

9. CAPACITY

25,000 LB/HR

10. FUEL (Check)

COAL

OIL

GAS

11. PRESSURE

DESIGNED

260 psi

OPERATING

100 psi

TEST

390 psi

12. FEED WATER TREATMENT

SATISFACTORY

UNSATISFACTORY

13. TYPE

WATER TUBE

FIRE TUBE

C. I.

17. BOILER USE

EXPORT

18. COMBUSTION CONTROL (Mfg. Name)

FIREYE

19. COMBUSTION

11 % CO₂

4.9 % 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

2 - 2 1/2"

23. PSI SETTING

125-130

24. CONDITION

SAT.

STEAM PRESSURE GAUGE

25. MANUFACTURER

CLEAVER BROOKS

26. CORRECTIONS

WATER LEG CONSTANT _____ psi; OTHER _____ psi

27. REASON IF NOT TESTED

FIRING EQUIPMENT

ITEM	IN SERVICE	ALTERNATE
28. MANUFACTURER	CLEAVER BROOKS	
29. TYPE	NOZZLE - STEAM/AIR ATOM.	
30. FUEL GRADE	IFG	

31. INSPECTOR'S COMMENTS

THIS UNIT HAS REPLACED OLD BOILER # 33
 NEW BOILER INSTALLED UNDER CONTRACT # 82-C-4678

32. ATTACHMENT(S) (Check)

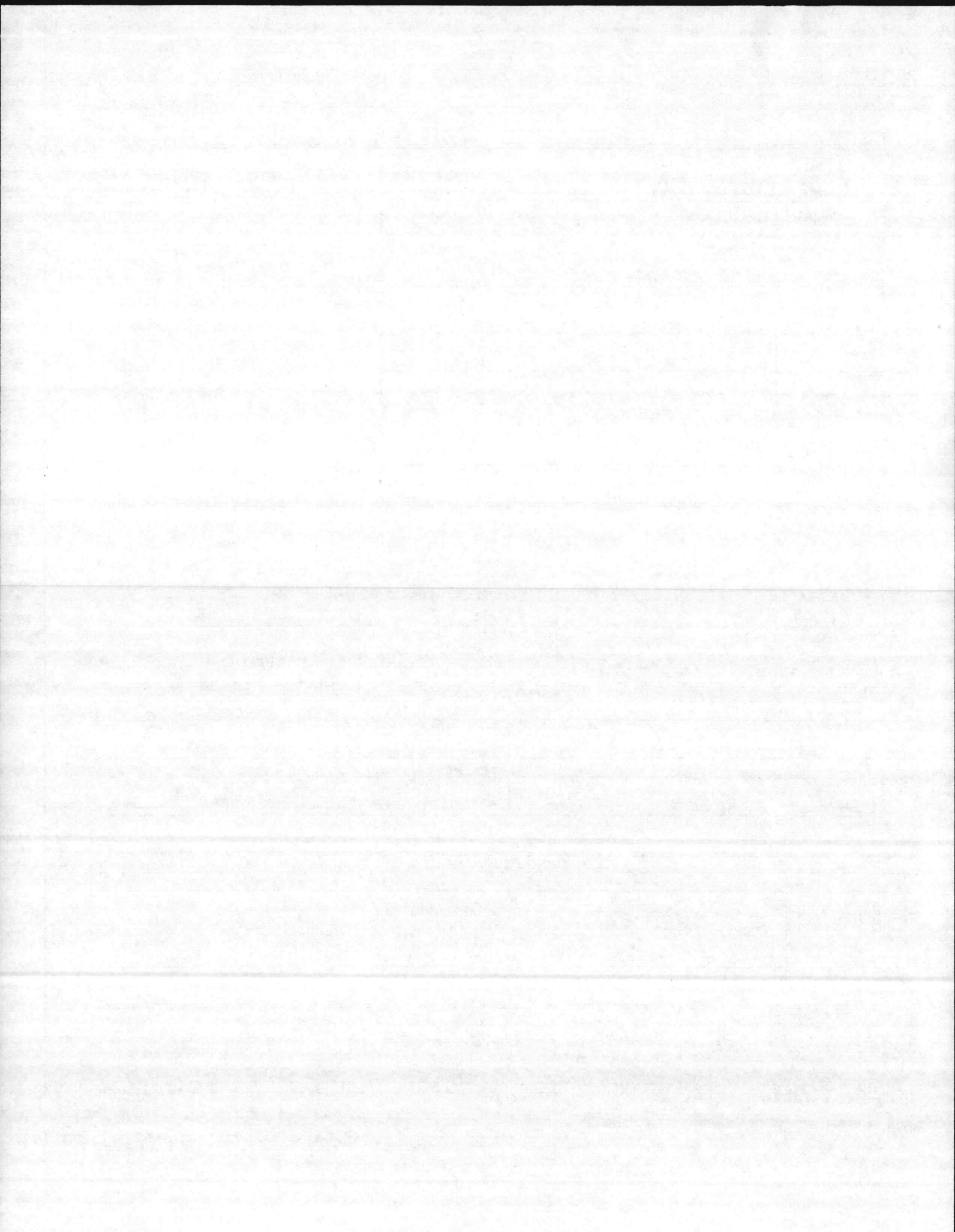
COPY OF INSPECTOR'S REPORT

SPECIAL COMMENTS

33. SIGNATURE

J. A. Seller

BY DIRECTION



MFGRS. SERIAL NO.

WG-3261

MFGRS. MODEL NO.

D 52 RH

MANUFACTURER

CLEAVER BROOKS

DATE OF SHEET

5-16-85

TYPE OF SUPERHEATER

N/A

FURNACE VOLUME

CU. FT.

HEATING SURFACE (SQ. FT.)

BOILER 2407

WATER WALL 449

ECONOMIZER

SUPERHEATER

TEMPERATURE AT SUPERHEATER OUTLET

N/A °F

NORMAL FEEDWATER TEMPERATURE

227 °F

(See Reverse Side for Fittings)

DRUMS

NO. 2

DIAMETER Steam Drum 36" W.

LENGTH 17 FT. 3 IN.

Lower Drum 24"

 RIVETED FORGE WILDED FUSION WELDED

OPERATION

 AUTOMATIC
 SEMI-AUTOMATIC
 MANUAL

PRESSURE (psig)

260 DESIGN

100 MAWP

INSTALLED WP

AIR HEATER

 NONE
 TUBULAR
 REGENERATIVE
 STEAM

USE

 EXPORT
 ELEC. POWER GENERATION
 LAID UP - WET
 LAID UP - DRY

CAPACITY

25,000 HP
LB./HR.
EDR
BTU/HR.

DATE BUILT

1984

DATE INSTALLED

1985

BOILER

TYPE

 C. I.
 WATER TUBE
 FIRE TUBE

DRAFT

 NATURAL
 FORCED
 INDUCED

PRODUCES

 STEAM
 LOW TEMP. WATER
 HIGH TEMP. WATER

CIRCULATION

 NATURAL
 FORCED

FUEL & FIRING EQUIPMENT IN SERVICE

COAL

 ANTHRACITE
 BITUMINOUS

OIL

 COMMERCIAL 1, 2, 4, 5, 6
 NAVY
 OTHER

FUEL

GAS

 NATURAL
 MANUFACTURED

ALTERNATE FUEL & FIRING EQUIPMENT

COAL

 ANTHRACITE
 BITUMINOUS

OIL

 COMMERCIAL 1, 2, 4, 5, 6
 NAVY SPECIAL
 OTHER

GAS

 NATURAL
 MANUFACTURED

FIRING EQUIPMENT

 COAL - HAND FIRED
 COAL - STOKER UNDERFEED - MULTIPLE RETORT
 UNDERFEED - SINGLE RETORT
 SPREADER - DUMP GRATE
 SPREADER - VIBRATING GRATE
 SPREADER - TRAVELING GRATE
 CHAIN GRATE

GAS

 GAS RING
 VENTURI TYPE

COAL - PULVERIZER

 ATTRITION
 BALL & RACE
 BOWL MILL
 TUBULAR

OIL BURNERS

 MECHANICAL
 STEAM ATOMIZED
 AIR ATOMIZED
 ROTARY CUP COL - HAND FIRED
 COAL - STOKER UNDERFEED - MULTIPLE RETORT
 UNDERFEED - SINGLE RETORT
 SPREADER - DUMP GRATE
 SPREADER - VIBRATING GRATE
 SPREADER - TRAVELING GRATE
 CHAIN GRATE

GAS

 GAS RING
 VENTURI TYPE

COAL - PULVERIZER

 ATTRITION
 BALL & RACE
 BOWL MILL
 TUBULAR

OIL BURNERS

 MECHANICAL
 STEAM ATOMIZED
 AIR ATOMIZED
 ROTARY CUP

FIRING EQUIPMENT MANUFACTURER

CLEAVER BROOKS

PROPERTY NO.

72

BUILDING OR LOCATION

M-625

BOILER 72

ACTIVITY

MCBCL

FITTING	NUMBER	SIZE	MANUFACTURER	TYPE	SETTING	RANGE	PRESSURE CLASS
SAFETY VALVES	2	2½"	KUNKLE	FIG-300	125-130	10-600	750
STEAM OUTLET VALVES	2	6"	CRANE - STOCKHAM			-	300
BLOW-OFF VALVES	2	1"	YARWAY				
FEEDWATER VALVES	2	2"	VELAN	CHECK VALVE GATE			800
WATER COLUMN	1	1"	CLEAVER BROOKS				
FEEDWATER REGULATOR	1	1½"	COPEES VULCON	FW-1			300
WATER GAGES	1	3/4"	RELIANCE	404-RS			
STEAM GAGES	1	8½"	CLEAVER BROOKS			0-200	
SOOT BLOWERS	1	2"	DIAMON (FLOATER TYPE)	G9B	55		400
FUSIBLE PLUGS	N/A		N/A				

COMBUSTION CONTROL - FIREYE TYPE 25RU8 MODEL 4580
 S/V @ 125 PSI CAP. - 18463
 S/V @ 130 PSI CAP. - 19288
 LWCO - CLEAVER BROOKS PROBE TYPE 2 EA & 1 FLOAT TYPE
 NAT'L B. # 68810
 CONTRACT # 82-C-4678

This boiler has replaced old Boiler #33.

MFGRS. SERIAL NO. WG-3261	MFGRS. MODEL NO. D 52 RH	MANUFACTURER CLEAVER BROOKS	DATE OF SHEET 5-16-85
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TYPE OF SUPERHEATER N/A	FURNACE VOLUME _____ CU. FT. HEATING SURFACE (SQ. FT.) BOILER <u>2407</u> WATER WALL <u>449</u> ECONOMIZER _____ SUPERHEATER _____	OPERATION <input checked="" type="checkbox"/> AUTOMATIC <input type="checkbox"/> SEMI-AUTOMATIC <input type="checkbox"/> MANUAL	USE <input checked="" type="checkbox"/> EXPORT <input type="checkbox"/> ELEC. POWER GENERATION <input type="checkbox"/> LAID UP - WET <input type="checkbox"/> LAID UP - DRY
TEMPERATURE AT SUPERHEATER OUTLET N/A °F	DRUMS NO. <u>2</u> DIAMETER <u>Steam Drum 36" N.</u> LENGTH <u>17</u> FT. <u>3</u> IN. <u>Lower Drum 24"</u> <input type="checkbox"/> RIVETED <input type="checkbox"/> FORGE WELDED <input checked="" type="checkbox"/> FUSION WELDED	PRESSURE (psig) <u>260</u> DESIGN MAWP _____ <u>100</u> INSTALLED WP	CAPACITY _____ HP <u>25,000</u> LB./HR. EDR _____ BTU/HR. _____
NORMAL FEEDWATER TEMPERATURE <u>227</u> °F (See Reverse Side for Fittings)	BOILER TYPE _____ DRAFT _____ <input type="checkbox"/> C.I. <input type="checkbox"/> NATURAL <input checked="" type="checkbox"/> WATER TUBE <input checked="" type="checkbox"/> FORCED <input type="checkbox"/> FIRE TUBE <input type="checkbox"/> INDUCED		PRODUCES _____ CIRCULATION _____ <input checked="" type="checkbox"/> STEAM <input checked="" type="checkbox"/> NATURAL <input type="checkbox"/> LOW TEMP. WATER <input type="checkbox"/> FORCED <input type="checkbox"/> HIGH TEMP. WATER

	FUEL & FIRING EQUIPMENT IN SERVICE	ALTERNATE FUEL & FIRING EQUIPMENT				
FUEL	<table style="width:100%;"> <tr> <td style="width:50%;"> COAL <input type="checkbox"/> ANTHRACITE <input type="checkbox"/> BITUMINOUS GAS <input type="checkbox"/> NATURAL <input type="checkbox"/> MANUFACTURED </td> <td style="width:50%;"> OIL <input type="checkbox"/> COMMERCIAL 1, 2, 4, 5, 6 <input type="checkbox"/> NAVY <input type="checkbox"/> OTHER _____ </td> </tr> </table>	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 _____	<table style="width:100%;"> <tr> <td style="width:50%;"> COAL <input type="checkbox"/> ANTHRACITE <input type="checkbox"/> BITUMINOUS GAS <input type="checkbox"/> NATURAL <input type="checkbox"/> MANUFACTURED </td> <td style="width:50%;"> OIL <input type="checkbox"/> COMMERCIAL 1, 2, 4, 5, 6 <input type="checkbox"/> NAVY SPECIAL <input type="checkbox"/> OTHER _____ </td> </tr> </table>	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 _____
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FIRING EQUIPMENT	<table style="width:100%;"> <tr> <td style="width:50%;"> <input type="checkbox"/> 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 </td> <td style="width:50%;"> 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 checked="" type="checkbox"/> STEAM ATOMIZED <input checked="" type="checkbox"/> AIR ATOMIZED <input type="checkbox"/> ROTARY CUP </td> </tr> </table>	<input type="checkbox"/> 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 type="checkbox"/> MECHANICAL <input checked="" type="checkbox"/> STEAM ATOMIZED <input checked="" type="checkbox"/> AIR ATOMIZED <input type="checkbox"/> ROTARY CUP	<table style="width:100%;"> <tr> <td style="width:50%;"> <input type="checkbox"/> 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 </td> <td style="width:50%;"> 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 </td> </tr> </table>	<input type="checkbox"/> 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 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 CLEAVER BROOKS		
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PROPERTY NO. 72	BUILDING OR LOCATION M-625	BOILER 72	ACTIVITY MCBCL
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 DATA RECORD SHEET - BOILERS
 MAYFAC 9-11014/40 (9-69) Supersedes MAYDOCKS 2509

FITTING	NUMBER	SIZE	MANUFACTURER	TYPE	SETTING	RANGE	PRESSURE CLASS
SAFETY VALVES	2	2½"	KUNKLE	FIG-300	125-130	10-600	750
STEAM OUTLET VALVES	2	6"	CRANE - STOCKHAM			-	300
BLOW-OFF VALVES	2	1"	YARWAY				
FEEDWATER VALVES	2	2"	VELAN	CHECK VALVE GATE			800
WATER COLUMN	1	1"	CLEAVER BROOKS				
FEEDWATER REGULATOR	1	1½"	COPEES VULCON	FW-1			300
WATER GAGES	1	3/4"	RELIANCE	404-RS			
STEAM GAGES	1	8½"	CLEAVER BROOKS			0-200	
SOOT BLOWERS	1	2"	DIAMON (FLOATER TYPE)	G9B	55		400
FUSIBLE PLUGS	N/A		N/A				

COMBUSTION CONTROL - FIREYE TYPE 25RU8 MODEL 4580
 S/V @ 125 PSI CAP. - 18463
 S/V @ 130 PSI CAP. - 19288
 LWCO - CLEAVER BROOKS PROBE TYPE 2 EA & 1 FLOAT TYPE
 NAT'L B. # 68810
 CONTRACT # 82-C-4678

This boiler has replaced old Boiler #33.

MFGRS. SERIAL NO. <u>WG-3261</u>	MFGRS. MODEL NO. <u>D 52 RH</u>	MANUFACTURER <u>CLEAVER BROOKS</u>	DATE OF SHEET <u>5-16-85</u>
TYPE OF SUPERHEATER <u>N/A</u>	FURNACE VOLUME CU. FT.	OPERATION <input checked="" type="checkbox"/> AUTOMATIC <input type="checkbox"/> SEMI-AUTOMATIC <input type="checkbox"/> MANUAL	USE <input checked="" type="checkbox"/> EXPORT <input type="checkbox"/> ELEC. POWER GENERATION <input type="checkbox"/> LAID UP - WET <input type="checkbox"/> LAID UP - DRY
TEMPERATURE AT SUPERHEATER OUTLET <u>N/A</u> °F	HEATING SURFACE (SQ. FT.) BOILER <u>2407</u> WATER WALL <u>449</u> ECONOMIZER SUPERHEATER	PRESSURE (psig) <u>260</u> DESIGN MAWP <u>100</u> INSTALLED WP	DATE BUILT <u>1984</u> DATE INSTALLED <u>1985</u>
NORMAL FEEDWATER TEMPERATURE <u>227</u> °F	DRUMS NO. <u>2</u> DIAMETER <u>STEAM DRUM 36"</u> IN. <u>LOW DRUM 24"</u> LENGTH <u>17</u> FT. <u>3</u> IN.	AIR HEATER <input checked="" type="checkbox"/> NONE <input type="checkbox"/> TUBULAR <input type="checkbox"/> REGENERATIVE <input type="checkbox"/> STEAM	BOILER TYPE C.I. <input checked="" type="checkbox"/> WATER TUBE <input type="checkbox"/> FIRE TUBE
(See Reverse Side for Fittings)	<input type="checkbox"/> RIVETED <input type="checkbox"/> FORGE WELDED <input checked="" type="checkbox"/> FUSION WELDED	CAPACITY <u>25,000</u> HP LR.. HR EDR BTU/HR.	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 & FIRING EQUIPMENT IN SERVICE		ALTERNATE FUEL & FIRING EQUIPMENT	
FUEL	COAL <input type="checkbox"/> ANTHRACITE <input type="checkbox"/> BITUMINOUS	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	OIL <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"/> 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"/> 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"/> 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"/> COAL - PULVERIZER <input type="checkbox"/> ATTRITION <input type="checkbox"/> BALL & RACE <input type="checkbox"/> BOWL MILL <input type="checkbox"/> TUBULAR
	<input type="checkbox"/> GAS <input type="checkbox"/> GAS RING <input type="checkbox"/> VENTURI TYPE	<input type="checkbox"/> OIL BURNERS <input checked="" type="checkbox"/> MECHANICAL <input checked="" type="checkbox"/> STEAM ATOMIZED <input checked="" type="checkbox"/> AIR ATOMIZED <input type="checkbox"/> ROTARY CUP	<input type="checkbox"/> GAS <input type="checkbox"/> GAS RING <input type="checkbox"/> VENTURI TYPE	<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 <u>CLEAVER BROOKS</u>	PROPERTY NO. <u>72</u>	BUILDING OR LOCATION <u>M-625</u>	ACTIVITY <u>BOILER 72</u>	<u>MEBCL</u>
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DATA RECORD SHEET - BOILERS
NAVFAC 9-11014/40 (9-69) Supersedes NAVDOCKS 2509

FITTING	NUMBER	SIZE	MANUFACTURER	TYPE	SETTING	RANGE	PRESSURE CLASS
SAFETY VALVES	2	2 1/2	KUNKLE	FIG-300	125-130	10-600	750
STEAM OUTLET VALVES	2	6"	CRANE - STOCKHAM			-	300
BLOW-OFF VALVES	2	1"	YARWAY				
FEEDWATER VALVES	2	2"	VELAW	CHECK VALVE GATE			800
WATER COLUMN	1	1"	CLEAVER BROOKS				
FEEDWATER REGULATOR	1	1 1/2	COPE'S VULCON	'FW-1			300
WATER GAGES	1	3/4"	RELIANCE	404-RS			
STEAM GAGES	1	8 1/2	CLEAVER BROOKS			0-200	
SOOT BLOWERS	1	2"	DIAMON (FLOATER TYPE)	G9B	55		400
FUSIBLE PLUGS	N/A		N/A				

COMBUSTION CONTROL - FIREYE TYPE 25 RUS MODEL 4580

SIV @ 125 PSI CAP - 18463

SIV @ 130 PSI CAP. 19288

LWCO - CLEAVER BROOKS PROBE TYPE 2 EA & 1 FLOAT TYPE

NAT'L B. # 68810

CONTRACT # 82-C-4678

THIS BOILER HAS REPLACED OLD BOILER # 33

#1

4/23/85

CLEAVER-BROOKS

92

Name of Customers Feedwater Consultant _____

Was Feedwater Treatment Discussed? _____

Operating Manuals Received By: (Name) _____

Operator Instructions Given To: (Name) _____

Draft Control Mfg. _____ Type _____

Modulating Draft Control Yes No

Low Draft Pressure Switch Yes No

FLAME SAFEGUARD AND SAFETY TRIP CHECK

Control _____ Set Point _____

Low Water Cut Out 1 1/2 Bottom of Glass

Low Water Alarm LIGHT 3" Bottom of Glass

High Water Alarm A/L 4 1/2 Top of Glass

Aux. Low Water Cut Out A/L 2" Bottom of Glass

Main Flame Out A/L 4:27 Sec.

Pilot Flame Out 20 Sec.

Minimum Pilot Check 6V NORMAL 9 Volts

Purge Time 68 Sec.

Ignition Time N/A Gas 20 Oil

Oper. Steam Press. 100

High Steam Press. 112

High Gas Press. _____

Low Gas Press. _____

High Oil Press. A/L @-

Soot Blower Press. 57

LO-PILOT GAS C/O @ 5" H2O

Control _____ Set Point _____

Low Oil Press. 92 SUPPLY 90

Low Atom Air- Steam Press. _____

High Oil Temp. A/L @ 228 MANUAL

Low Oil Temp. A/L @ 190°F

Purge Air Proving _____

Combustion Air Proving ✓

Furnace Press. _____

Switch _____

ID Fan Aux. _____

Contact _____

Leak Test Gas Valves _____

Leak Test Oil Valves _____

Leak Test Pilot Valves _____

HI-ATOM STM. @ 23 MANUAL A/L

Comments:

1. LO ATOM STM C/O - NEED LOWER RANGE. 0-30

2. RPR CONDUIT TO HI-OIL TEMP C/O

3. OIL REG. VALVE LEAKING WATER.

4. LO PILOT GAS PRESSURE CUT OUT CONTROL NOT WORKING.

4-30-85

STM-
 ATOM- TEST @ 25% LOAD - Boiler SUB MASTER @ 0%
 OIL GPH - 52.8
 CO2 - 12.1 TEMP - 350 - 300 EFF. 86%
 O2 - 4.0 TRACE OF SMOKE.

AIR -
 ATOM- TEST @ 25% LOAD - Boiler SUB MASTER @ 0%
 OIL GPH - 50
 CO2 - 11 TEMP 335 - 250 EFF - 87%
 O2 - 5.6 TRACE OF SMOKE OPACITY METER - 20

AIR
 ATOM TEST @ 50% LOAD - Boiler MASTER @ 21%
 CO2 - 11 TEMP 385 - 300 EFF. 85.75%
 O2 - 6.8
 GPH - 100 - OPACITY METER - 18

AIR
 ATOM
 5th
 SCREW TEST @ 75% LOAD Boiler MASTER @ 41%
 OIL GPH - 174
 CO2 - 12 TEMP 450 - 350 EFF. - 85%
 O2 - 5.6 14 ON OPACITY METER

AIR
 ATOM
 9th
 SCREW TEST @ 100% LOAD Boiler MASTER @ 100%
 OIL GPH - 198
 CO2 - 12.5 TEMP - 485 - 400 EFF. 84
 O2 - 5 ON OPACITY METER

PLACED Boiler IN AUTOMATIC CONTROL

PLANT MASTER

35
100

Boiler MASTER

35
100

STM FLOW

17,000
23,000

STM PRESS
AT Boiler

102
100 @ 200 GPH OIL

4-25-85

SAFETY VALVES - Pulled SV OFF #3 Boiler & INSTALLED ON #1 Boiler FOR TEST.

4-26-85

START TESTING SV

OK

AFT - SET 130 - LIFT - 132 RESULT - 128

FWD - SET 125 - LIFT - 134 RESULT - 124

4-29-85

FWD NEW V - 125 FIRST LIFT - 130 112

2nd LIFT - 129 111

RESQUATED AFTER FIRE CUT OUT.

3rd TEST WITH SV DISCH LINE REMOVED

130 112
FIRE CUT OUT.

#6 STM-ATOM TEST 100% Boiler SUB MASTER @ 100%
9th SCREW ON OIL METER OIL GPH = 210
CO₂ = 11.5 (STK. TEMP. 510 - 60 = 82% EFF.)
O₂ = 4.2

#6 STM-ATOM TEST 75% Boiler SUB MASTER @ 40%
5th SCREW ON OIL METER OIL GPH = 177 - 174
CO₂ = 11 (STK. TEMP 486 - 80 = 400 83% EFF.)
O₂ = 4.9
CONTROLLING WATER LEVEL WITH BY PASS.

STM. ATOM TEST @ 50% 4-30-85 Boiler SUB MASTER @ 21%
3rd SCREW OIL GPH - 104
CO₂ - 12. TEMP 420 - 350 EFF - 85%
O₂ - 4.7

BOILER INSPECTION CHECK LIST

LOCATION	BLDG NO.	BOILER NO.	DATE
MAWP - 260 PSI	M-625	NEW Boil. #1	4-24-85 4-23-85

BOILER MFG. CLEAVER BROOKS	CAP. 25,000
SERIAL NO. WG-3241	MODEL NO. D 52 RH
	N.B. NO. 68810

BURNER MFG. CLEAVER BROOKS	FIRING RATE:
STEAM GAGE NAME: ASHCROFT	PRESS. 0-200 TEST

SV MFG KUNKLE	CAP 37751	NO. 2	SIZE 2 1/2"
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NO. 1 FWD	SET 125 B.D. 5	OPEN 128	129,	CLOSE 118	120.
NO. 2 MFT.	SET 130 B.D. 5	OPEN 138	134,	CLOSE 127	125.

NO. 3	SET	OPEN		CLOSE	
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CO2%	02%	STACK TEMP	COMB. EFF.	PURGE TIME
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NO. 1 FIREYE	C/O	A/L
NO. 2 FIREYE	C/O	A/L
HI-STEAM TEMP.	C/O	A/L
EXCESS STEAM TEMP.	C/O	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	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		A/L

5-10-85 TESTED SIV ON AIR-COMP. LIFT @ 200 OK

DATE - 10-25-84

REMARKS:

Boiler 50.FT. 2407
Water walls 449

FWD
1. FWD. SIV HANGING UP ON B.D.

5-10-85 TESTED ANOTHER SIV SET @ 125, LIFTED @ 127 WOULD NOT RESET WITH FIRE BURNING ON LOW FIRE. CUT FIRE OUT AND VALVE RESET AT 121

5-13-85 TESTED SIV SET @ 125 LIFT @ 126 RESET @ 122 -OK