

DATE OF INSPECTION  
 30 SEPT, 11 OCT. 1985

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

1. FROM  
 COMMANDING GENERAL  
 MCB, CAMP LEFUNE, NC

2. TO  
 NAVFACENGCOM  
 NORFOLK, VA

14. CERTIFICATE ISSUED  YES  NO  
 EXPIRES 30 SEPT. 1986

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

BOILER DATA

3. MANUFACTURER  
 KEWANEE BOILER CORPORATION

4. PROPERTY NO. 3 5. MFG. SERIAL NO. 659962 6. MFG. MODEL NO. M-205

7. BUILDING NO. AS-710 8. YEAR BUILT 1985 9. CAPACITY 2107 LB/HR.

10. FUEL (Check)  COAL  OIL  GAS 11. PRESSURE  
 DESIGNED 15 psi OPERATING 10 psi TEST 23 psi

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

NAVFAC 239  
 16. REASON FOR NOT ISSUING CERTIFICATE

17. BOILER USE  
 HEATING

18. COMBUSTION CONTROL (Mfg. Name)  
 HONEYWELL

19. COMBUSTION  
 11.5 % CO<sub>2</sub> % EXCESS O<sub>2</sub>

20. FLUE GAS TEMPERATURE  
 AFTER BOILER 410 °F ; AFTER HEAT TRAP °F

SAFETY DEVICES

SAFETY VALVES

21. MANUFACTURER CONBRACO 22. NUMBER AND SIZE 1-2" 23. PSI SETTING 15 24. CONDITION GOOD

STEAM PRESSURE GAUGE

25. MANUFACTURER U.S.G. 26. CORRECTIONS  
 WATER LEG CONSTANT \_\_\_\_\_ psi; OTHER \_\_\_\_\_ psi

27. REASON IF NOT TESTED

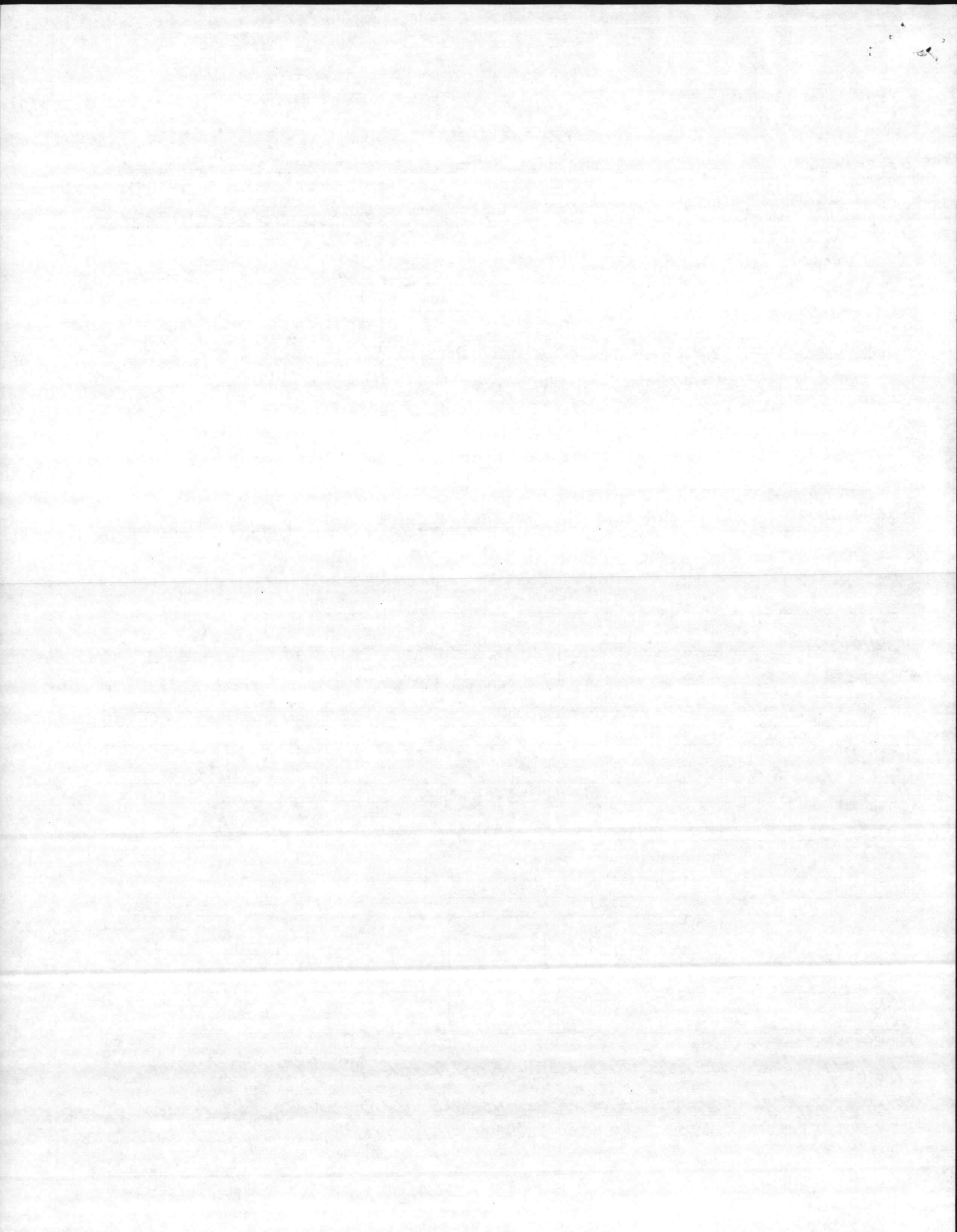
FIRING EQUIPMENT

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

31. INSPECTOR'S COMMENTS  
 NEW Boiler INSTALLED UNDER CONTRACT # 84-7857 AND  
 WILL RETAIN SAME PROPERTY NO. AS OLD UNIT.

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

33. SIGNATURE *W.M. K...* BY DIRECTION



MFGRS. SERIAL NO.

659962

MFGRS. MODEL NO.

M-205

MANUFACTURER

KEWANEE BOILER CORPORATION

DATE OF SHEET

17 Oct 1985

TYPE OF SUPERHEATER

NA

FURNACE VOLUME

CU. FT.

HEATING SURFACE (SQ. FT.)

BOILER 253

WATER WALL

ECONOMIZER

SUPERHEATER

DRUMS

NO. \_\_\_\_\_

DIAMETER \_\_\_\_\_ IN.

LENGTH \_\_\_\_\_ FT. \_\_\_\_\_ IN.

RIVETED

FORGE WELDED

FUSION WELDED

OPERATION

AUTOMATIC

SEMI-AUTOMATIC

MANUAL

PRESSURE (psig)

15 DESIGN

15 MAWP

11 INSTALLED WP

AIR HEATER

NONE

TUBULAR

REGENERATIVE

STEAM

USE

EXPORT

ELEC. POWER GENERATION

LAID UP - WET

LAID UP - DRY

Heating

CAPACITY

61.1 HP

\_\_\_\_\_ LB./HR

\_\_\_\_\_ EDR

2050 MBH BTU/HR.

DATE BUILT

1985

DATE INSTALLED

Oct 1985

BOILER

TYPE

C.I.

WATER TUBE

FIRE TUBE

DRAFT

NATURAL

FORCED

INDUCED

PRODUCES

STEAM

LOW TEMP. WATER

HIGH TEMP. WATER

CIRCULATION

NATURAL

FORCED

TEMPERATURE AT SUPERHEATER OUTLET \_\_\_\_\_ °F

NORMAL FEEDWATER TEMPERATURE \_\_\_\_\_ °F

(See Reverse Side for Fittings)

FUEL & FIRING EQUIPMENT IN SERVICE

COAL

ANTHRACITE  
 BITUMINOUS

GAS

NATURAL  
 MANUFACTURED

OIL

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

ALTERNATE FUEL & FIRING EQUIPMENT

COAL

ANTHRACITE  
 BITUMINOUS

GAS

NATURAL  
 MANUFACTURED

OIL

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

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

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

FIRING EQUIPMENT MANUFACTURER

PEABODY GORDON PIATT

PROPERTY NO.

3

BUILDING OR LOCATION

AS-710

BOILER 3

ACTIVITY

MCAS, NEW RIVER

DATA RECORD SHEET - BOILERS  
MAYFAC 8-11014/40 (9-69) Supersedes NAVDOCKS 2509  
S/N 0105-003-7010



FITTING	NUMBER	SIZE	MANUFACTURER	TYPE	SETTING	RANGE	PRESSURE CLASS
SAFETY VALVES	1	2"	CONBRACO	SAFETY RELIEF	15		
STEAM OUTLET VALVES	1	6"	STOCKMAN	GATE			125-S
BLOW-OFF VALVES	1	2"	EVERLASTING	QUICK CLOSING		FIG-4000A	250
FEEDWATER VALVES	1	1"	STOCKMAN	GATE			125-S
WATER COLUMN	1	1"	MCDONNEL MILLER				
FEEDWATER REGULATOR							
WATER GAGES							
STEAM GAGES	1	4"	USG	COMPOUND		0-30	
SOOT BLOWERS	NA						
FUSIBLE PLUGS	NA						

LWCO - MCDONNEL NO. 157

AUX FEED WATER CONTROL AND LWCO - MCDONNEL NO. 205015

SAFETY VALVE - MFG CONBRACO, SET 15 PSI, SIZE 2", CAP. 2500 LB/HR

BURNER - MFG PEABODY GORDON PIATT, MAX. FIRING RATE 18.3 GPH, #2 OIL

NAT'L B. #39053

MFGRS. SERIAL NO. <b>659967</b>	MFGRS. MODEL NO. <b>M-205</b>	MANUFACTURER <b>KEWANEE BOILER CORPORATION</b>	DATE OF SHEET <b>17 OCT. 1985</b>
TYPE OF SUPERHEATER <b>N/A</b>	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.) <b>253</b>	PRESSURE (psig) <b>15</b> DESIGN <b>15</b> MAWP <b>11</b> INSTALLED WP	DATE BUILT <b>1985</b>
NORMAL FEEDWATER TEMPERATURE _____ °F	BOILER _____ WATER WALL _____ ECONOMIZER _____ SUPERHEATER _____	AIR HEATER <input checked="" type="checkbox"/> NONE <input type="checkbox"/> TUBULAR <input type="checkbox"/> REGENERATIVE <input type="checkbox"/> STEAM	DATE INSTALLED <b>OCT 1985</b>
(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 <b>61.1</b> HP _____ LB./HR _____ EDR _____ BTU/HR.	BOILER TYPE <input type="checkbox"/> C.I. <input type="checkbox"/> WATER TUBE <input checked="" type="checkbox"/> FIRE TUBE <input type="checkbox"/> NATURAL <input checked="" type="checkbox"/> FORCED <input type="checkbox"/> INDUCED
			PRODUCES <input checked="" 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 <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	COAL - HAND FIRED COAL - STOKER <input type="checkbox"/> UNDERFEED - MULTIPLE RETORT <input type="checkbox"/> UNDERFEED - SINGLE RETORT <input type="checkbox"/> SPREADER - DUMP GRATE <input type="checkbox"/> SPREADER - VIBRATING GRATE <input type="checkbox"/> SPREADER - TRAVELING GRATE <input type="checkbox"/> CHAIN GRATE GAS <input type="checkbox"/> GAS RING <input type="checkbox"/> VENTURI TYPE		COAL - PULVERIZER <input type="checkbox"/> ATTRITION <input type="checkbox"/> BALL & RACE <input type="checkbox"/> BOWL MILL <input type="checkbox"/> TUBULAR OIL BURNERS <input checked="" type="checkbox"/> MECHANICAL <input type="checkbox"/> STEAM ATOMIZED <input type="checkbox"/> AIR ATOMIZED <input type="checkbox"/> ROTARY CUP	
	FIRING EQUIPMENT MANUFACTURER <b>PERABODY GORDON PIATT.</b>		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	

PROPERTY NO. <b>3</b>	BUILDING OR LOCATION <b>AS-710</b>	ACTIVITY <b>BOILER 3 MCAS(H)</b>
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DATA RECORD SHEET - BOILERS  
 NAVFAC 9-11014/40 (8-69) Supersedes NAVDOCKS 2509  
 S/N 0105-003-7010

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FEEDWATER VALVES	1	1"	STOCKMAN	GATE			125-5
WATER COLUMN	1	1"	MCDONNELL MILLER				
FEEDWATER REGULATOR							
WATER GAGES							
STEAM GAGES	1	4"	USG	COMPOUND		0-30	
SOOT BLOWERS	N/A						
FUSIBLE PLUGS	N/A						

LWCO - MCDONNELL NO. 157  
 AUX FEED WATER CONTROL AND LWCO - MCDONNELL ~~205015~~ NO. 205015  
 SAFETY VALVE - MFG. CONBRACO, SET 15 PSF, SIZE 2", CAP 2500 LB/HR.  
 BURNER - MFG. PEABODY GORDON PIATT, MAX. FIRING RATE 18.3 GPH, #2 OIL  
 NAT'L B. # 39053



BOILER INSPECTION CHECK LIST

LOCATION		BLDG NO.	BOILER NO.	DATE
(CONTRACT # 84-7857)		AS-710	3	9 OCT. 85 30 SEPT. 85
BOILER MFG. KEWANEE		61.1 H.P.		CAP. 2050 MBH.
SERIAL NO. 659962	MODEL NO. M-205	N.B. NO. 39053		
BURNER MFG. PEABODY GORDON PIRTT		FIRING RATE: 2563 MBH.		
STEAM GAGE NAME: USG		PRESS. 0-30" UAC. 0-30	TEST	
SV MFG CONBRACO	CAP 2500 LB/HR	NO. 1	SIZE 2"	
NO. 1	SET 15	OPEN 17	CLOSE 13.5	
NO. 2	SET	OPEN	CLOSE	
NO. 3	SET	OPEN	CLOSE	
CO2% 11.5	02%	STACK TEMP 510-100-410	COMB. EFF.	PURGE TIME 60 SEC.
NO. 1 FIREYE C/O	OK	4 SEC.	L/O	A/L
NO. 2 FIREYE C/O				A/L
HI-STEAM TEMP. C/O	11 PSI	OK		A/L
EXCESS STEAM TEMP. C/O	13 PSI	OK	MANUAL 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 ATM AIR/STEAM C/O				A/L
NO. 1 LW C/O	OK			A/L
NO. 2 LW C/O	OK			A/L
LO FURNACE DRAFT C/O				A/L
LO FIRE START C/O				A/L
TYPE OF FUEL #2				A/L

REMARKS: HEATING SURFACE - 253 SQ.FT.

YEAR - 1985  
MAWP - STM - 15 PSI WATER 30 PSI

- 1. AIR LEAK BLAST TUBE @ BOILER FLANGE.
- " " FRONT OF BOILER

SIV

MFG - COMBRACO  
SET - 15 PSI  
SIZE - 2"  
CAP - 2500 LB/HR.

COMBUSTION CONTROL  
HONEYWELL R 4140 M 1079  
PEARSON GORDON PAIT - MODEL # GP101

HYDRO @ 23 PSI - OK 30 SEPT. 85

HYDRO @ 30 PSI - BOILER & HEADER - OK 30 SEPT. 85

FUEL OIL NOZZLE

2 EA - 5.50 @ 90° B DELAVAN

MAX FLOW RATE 18.3 GPH.

LO-FIRE OIL PRESS = 100 PSI PUMP VACUUM - 6"

HI-FIRE OIL PRESS = 285 PSI PUMP VACUUM - 1/2"

1. STEAM STOP VALVE - STOCKMAN - 6" 125 S - 200 OWG
2. FEED WATER VALVE - STOCKMAN - 1" FIG-103 - 200 OWG - 125 S.
3. BLOW OFF VALVE -

CO<sub>2</sub> - LO-FIRE (9.0) TEMP 450-100 - (350) EFF = 82.25 - 0.2 = 8.5

CO<sub>2</sub> - HI-FIRE (11.5) TEMP 510-100 - 410 EFF = 83.50 - 0.2 = 6.5

WCO/FEED WATER CONTROL - McDONNELL NO 157.

AUX FEED WATER CONTROL & LWCO - 205015 McDONNELL MULLER