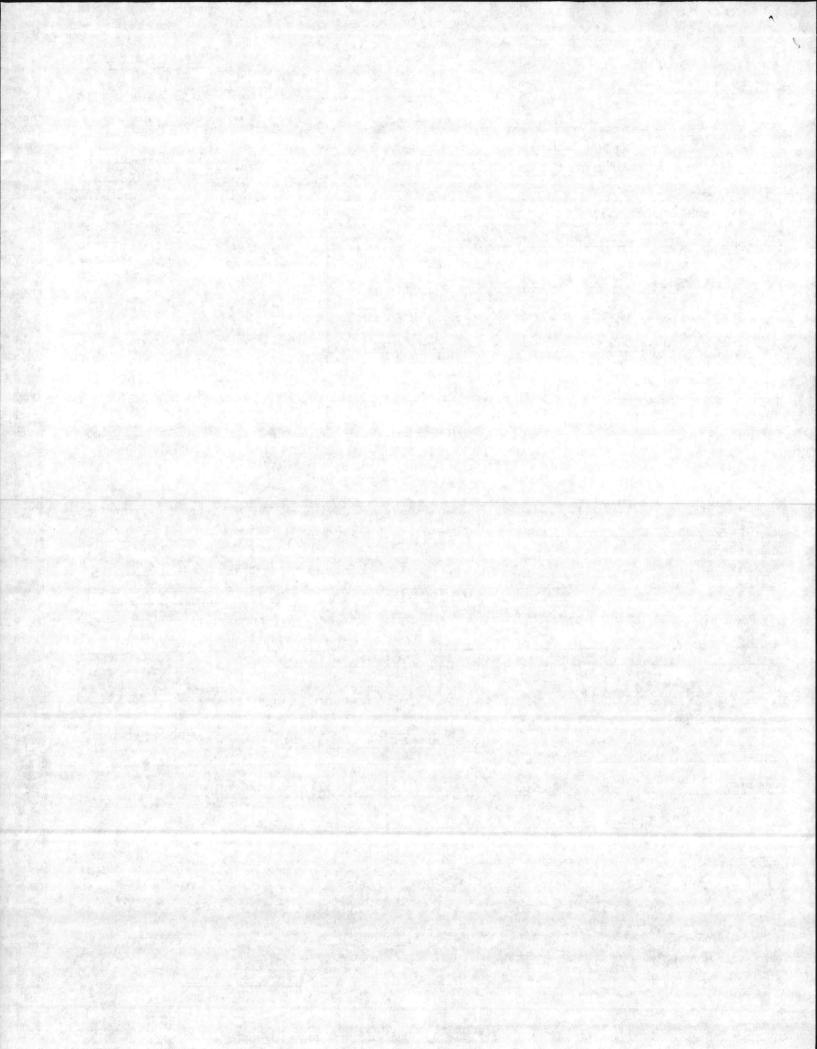
IN3PECTIÓN REPORT-BOILERS NAVFAC 9-11014/41 (3/67) Superace NAVDOCKS 2544 S/N 0105-LF-004-0000	TYPE OF INSPECTION	DATE OF INSPECTION 3 JUNE - 14 JUNE 19
BASE MAINT. OFFICER	A INTERNAL & B	INTERNAL & EXTERNAL C PPERA- TIONAL 4.
2 TO NAVFACENGCOM NORFOLK, VA		Thomas & Lania
BOILER DATA	Children and the strends	NAVY OR NATIONAL BOARD NO
CLEAVER BROOKS		16. REASON FOR NOT ISSUING CERTIFICATE.
2 L CS 95	6. MFG. MODEL NO. C. B - 600 - 3.50 9. CAPACITY	
<u>NH-100 1981</u> 0. FUEL (Check) 11. PRESSURE DESIGNED	14,645,000 BTU/HR.	
COAL OIL GAS 150 PE	125 pai 225 pai	
SATISFACTORY UNSATISFACTORY	TUBE TUBE C. I.	

18. COMBUSTION CONTROL (M/g. Name)
CLEAVER BROOKS
20. FLUE GAS TEMPERATURE
AFTER BOILER 300 F : AFTER HEAT TRAP
SAFETY DEVICES
SAFETY VALVES
22. NUMBER AND SIZE 23. PSI SETTING 24. CONDITION
1-11/2" 1-2" 140-145 NEW
M PRESSURE GAUGE
26. CORRECTIONS
WATER LEG CONSTANTpsi; OTHERpsi

	FIRING EQUIP	MENT
ITEM	IN SERVICE	ALTERNATE
8. MANUFACTURER	CLEALER BROOKS	CLEAVER BROOKS
9. TYPE	NOZZLE - AIR ATOM	NOZZLE - AIR ATOM
0 FUEL GRADE	#4	#2
W/S 2160	HT CONT OF RED SCALE O FURNACE, 3 INSTALLED NEW	N TUBES . (2) REPLACED REFRACTORY

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5ND LANTDIV 9-4730/6 (Rev. 8/68) Boiler Inspection - Addendum to NAVFAC 9-11014/41

## DATE: 28 May 85

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ACTIVITY: NAVAL HOSPITAL

BUILDING NO: NH-100 BOILER NO.

Based on the existing condition and present rate of deterioration, it is estimated that the boiler has a remaining life of

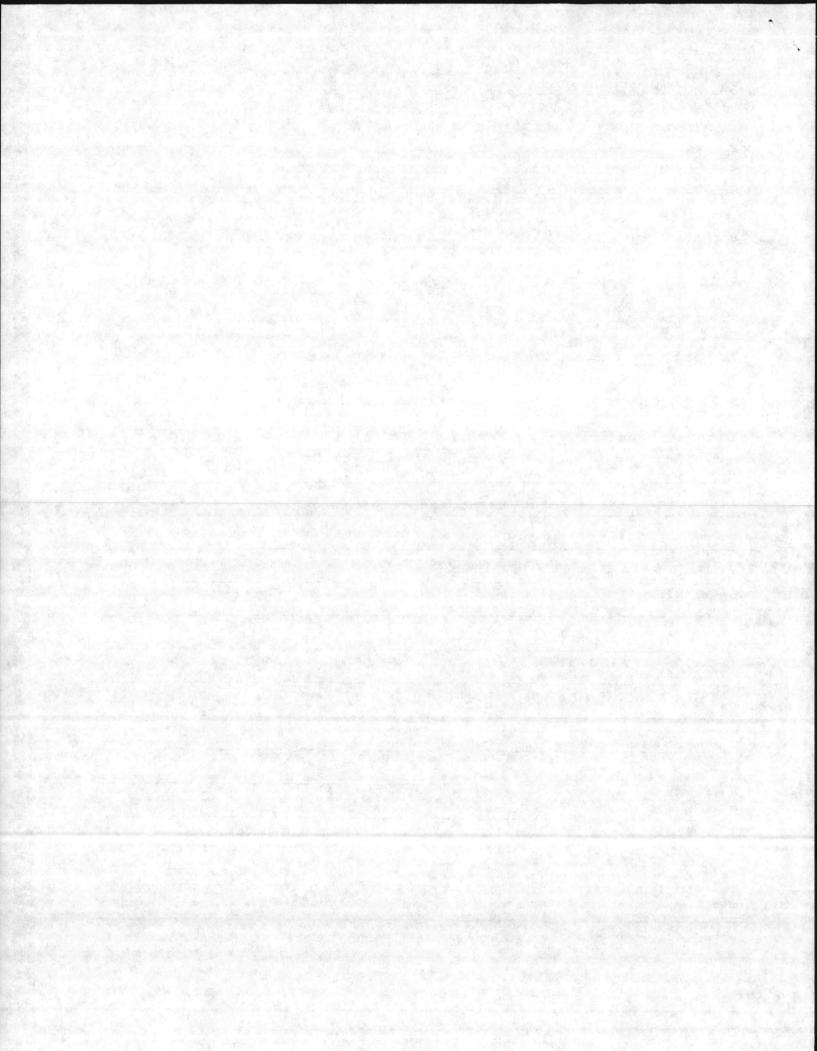
// 5 or more years

. .

// ( ) years

The following corrective action is recommended:

Subj: Deaerator Tank, should be open up for cleaning and inspection every year. Boilers will have to be secured for this period of time or means provided to supply feed water to boilers. Also some way of rerouting condensateto another receiver or to waste drain.



5ND LANTDIV 9-4730/6 (Rev. 8/68) Boiler Inspection - Addendum to NAVFAC 9-11014/41

DATE: 28 MAX85

ACTIVITY: NAUAL HOSP, THE

BUILDING NO: NH-100

BOILER NO.

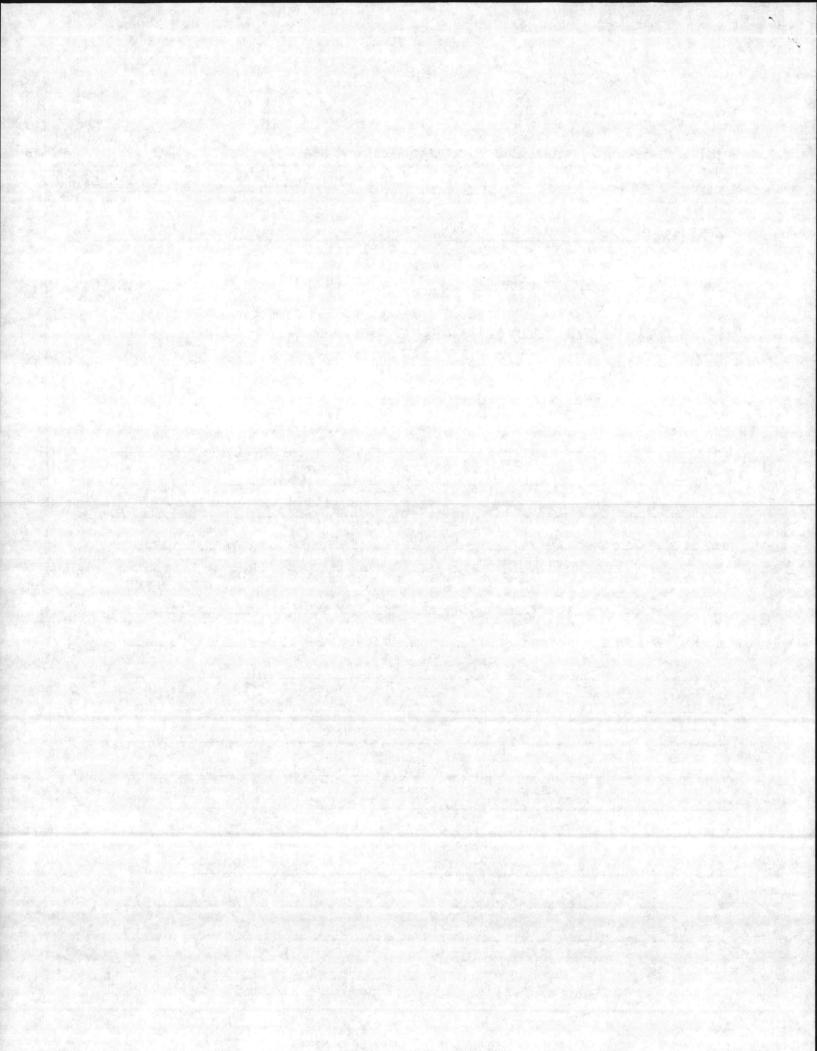
Based on the existing condition and present rate of deterioration, it is estimated that the boiler has a remaining life of

17 5 or more years

[] ( ) years

The following corrective action is recommended:

SUBJ DEAERATOR TANK, SHOULD BE OPEN UP FOR CLEANING AND INSPECTION EVERY YEAR. BOILERS WILL HAVE TO BE SELIKED FOR THIS PERIOD OF TIME OR MEANS PROVIDED TO SUPPLY FEED WATER TO BOLERS 14/50 SOME WHY OF REROUTING CONDENSATE TO ANOTHER RECEIVED OR TO WASTE DRAIN.

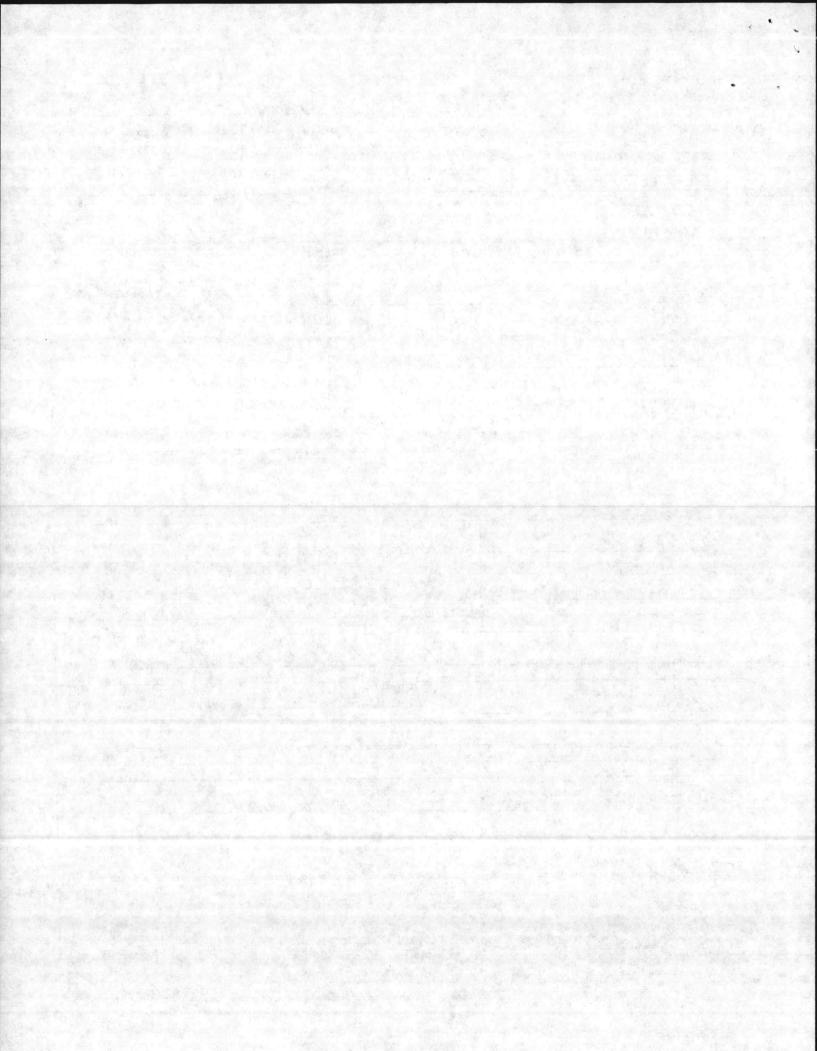


INSPECTION REPORT-BOILERS NAVFAC 9-11014/41 (3/67) Superade NAVDOCKS 2544 S/N 0105-LF-004-0000	TYPE OF INSPECTION	DATE OF INSPECTION 30 NOV 1982
	A INTERNAL & B	WITH PRESSURE TEST C TIONAL
BASE MAINT. OFFICER CAMP LEJEUNE, N. C.		
NAVFACENGCOM		Thomas & bania
BOILER DATA		NAVY OR NATIONAL BOARD NO.
CLEPAVER BROOKS		10. REASON FOR NOT ISSUING CERTIFICATE AS OF 22 FEB, 1983 - INTERNAL
4. PROPERTY NO. 5. MFG. SERIAL NO.   2 1-68195   7. BUILDING NO. 8. YEAR BUILT	6. MFG. MODEL NO. CB 600-350 9. CAPACITY	HND EXTERNAL WITH PRESSURE TEST HAS NOT BEEN RUN.
H-160 1981 10. FUEL (Check) 11. PRESSURE DESIGNED	14645000 BTU/HR.	SAFETY VALUES NOT OPERATING
COAL COL GAS 150 P	al 12.5 pai pai	IN PERMISSIBLE RANGE.
X SATISFACTORY UNSATISFACTORY	TUBE TUBE C. I.	

7. BOILER USE		18. COMBUSTION CONTROL (M/g. Name)
HEATIN	6	CLEAVER BROOKS
S. COMBUSTION		20. FLUE GAS TEMPERATURE
13.4	x CO <sub>2</sub> x EXCESS O <sub>2</sub>	AFTER BOILER 375 F : AFTER HEAT TRAP
		SAFETY DEVICES
		SAFETY VALVES
1. MANUFACTURER		22. NUMBER AND SIZE 23. PSI SETTING 24. CONDITION
KUIVIKLE	VAILE CO.	1-11/2" 1-2" 150 - 150 NEW SEE COMMENTS
	STEAN	M PRESSURE GAUGE
5. MANUFACTURER		26. CORRECTIONS
CLEAVER 7. REASON IF NOT	BRACKS	WATER LEG CONSTANTpsi; OTHERpsi
7. REASON IF NOT	TESTED	
and the second second	FI	IRING EQUIPMENT
ITEM	IN SERVICE	ALTERNATE
8. MANUFACTURER	CLEAVER BROOKS	CLEDAVER BROOKS
9. TYPE	NOTTLE SARAY - AIR	

and the solution of	FIRING EQUIPA	AENT
ITEM	IN SERVICE	ALTERNATE
28. MANUFACTURER	CLEAVER BROOKS	CLEAVER BROOKS
29. TYPE	NOULLE SARAY - AIK ATOM	NOTLE SPRAY - AIR MTOM
30. FUEL GRADE	#6	#2

KIEW BOILERS INSTALLED AT		
32. ATTACHMENT(S) (Check) SPECIAL COPY OF INSPECTOR'S REPORT COMMENTS	R.M. Deller	
		BY DIRECTION



5ND LANTDIV 9-4730/6 (Rev. 8/68) Boiler Inspection - Addendum to NAVFAC 9-11014/41

DATE: 1 March 1983

ACTIVITY: Marine Corps Base, Camp Lejeune, North Carolina

BUILDING NO: H-100 BOILER NO. 1 and 2

Based on the existing condition and present rate of deterioration, it is estimated that the boiler has a remaining life of

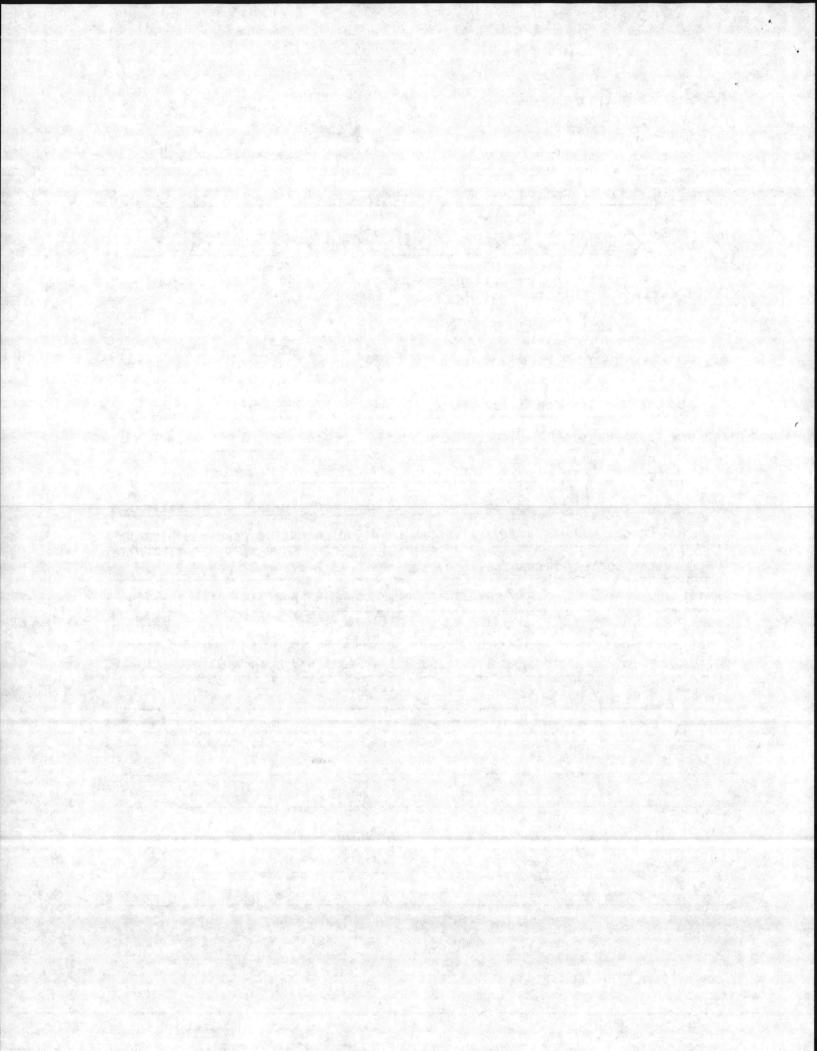
1 5 or more years

// ( ) years

The following corrective action is recommended:

Two new Cleaver Brooks Boilers, Model Numbers CB 600-350 were installed at the new Naval Regional Medical Center, Building Number H-100, Camp Lejeune, North Carolina in 1982. Operational and efficiency tests were run in November 1982 by Cleaver Brooks representative. The boilers are equipped with two (each) Kunkle Safety Valves which do not meet the requirements of the American Society Mechanical Engineering Code, Section I, page 72. Boiler Number 1 - South S/V Set at 150 PSI - Front opens 146 PSI, Close 135 PSI; Back S/V Opens 144 PSI, Closes 124 PSI Boiler Number 2 - North S/V Set at 150 PSI - Front S/V opens 150 PSI, Cleses 133 PSI; Back S/V opens 145 PSI, Closes 135 PSI.

Internal inspection and hydrostatic test have never been run on boilers.



MFGRS. SERIAL NO. L-68195	MFGRS. MODEL NO. CB 600-350	MANUFACTURER	DATE OF SHEET		
TYPE OF SUPERHEATER		Cleaver Brooks	the second s	1 March 1983	
CU. FT. HEATING SURFACE (SQ. FT.)		OPERATION T. X AUTOMATIC SEMI-AUTOMATIC	USE X EXPORT ELEC. POWER GENERATION	DATE BUILT	
EMPERATURE AT SUPERHEA	FER OUTLET BOILER 1750	PRESSURE (psig)	LAID UP - WET	1982 BOILER TYPE DRAFT	
ORMAL FEEDWATER TEMPER		DESIGN		C.1 NATU	
See Reverse Side for F	NO	MAWP	CAPAC I TY	WATER TUBE X FORCE	
	DIAMETER 78 LENGTH 16 FT. 9 II RIVETED FORGE WELDED FUSION WELDED		нр LB./HR EDR 	PRODUCES CIRCULATION	
See Trans	FUEL & FIRING EQUI	PMENT IN SERVICE	ALTERNATE FUEL &	I FIRING EQUIPMENT	
FUEL	GAS	AL 1, 2, 4, 5, 🔊	BITUMINOUS NAVY OTHE	ERCIAL 1. ② 4. 5. 6 SPECIAL R	
	MANUFACTURED		MANUFACTURED		
FIRING	COAL-HAND FIRED COAL - STOKER UNDERFEED - MULTIPLE RETORT UNDERFEED - SINGLE RETORT SPREADER - DUMP GRATE	COAL - PULYERIZER ATTRITION BALL & RACE BOWL MILL TUBULAR	COL-HAND FIRED COAL - STOKER UNDERFEED - MULTIPLE RETORT UNDERFEED - SINGLE RETORT SPREADER - DUMP GRATE	COAL - PULVERIZER ATTRITION BALL & RACE BOWL MILL TUBULAR	
EQUIPMENT	SPREADER - VIBRATING GRATE SPREADER - TRAVELING GRATE CHAIN GRATE	OIL BURNERS	SPREADER - VIBRATING GRATE	OIL BURNERS	
	GAS GAS RING VENTURI TYPE		GAS RING	MECHANICAL STEAM ATOMIZED AIR ATOMIZED	
RING EQUIPMENT			VENTURI TYPE	ROTARY CUP	
NUFACTURER					

•

DATA RECORD SHEET - BOILERS Mavfac 9-11014/40 (9-69) Superfedee MavDocks 2509 S/N 0105-003-7010

FITTING	NUMBER	SIZE	MANUFACTURER	ТҮРЕ	SETTING	RANGE	PRESSURE CLASS
SAFETY VALVES	2	2 - 1 1/2	Kunkle Valve Co,		150		
STEAM OUTLET VALVES	1	4" 4"	Crane Crane	Non-Return Gate-Stop			250 250
BLOW-OFF VALVES	2 1	1 1/2" 1 1/2"	Everlasting Everlasting	4000 A 4060 A			250 250
FEEDWATER VALVES	1	2" 2"	Lunk, No. 554 Lunk, No. 73	Check Globe			
WATER COLUMN							
FEEDWATER REGULATOR	1	1 1/2	McDonnel Miller	No. 157			150
WATER GAGES							
STEAM GAGES	1	8 1/2" Dia.	Cleaver Brooks			0-300	
SOOT BLOWERS							
FUSIBLE PLUGS				2.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4			

Safety Valves

No. 1 - Size 2", Set 150, Cap. 9831 B.D. 6 No. 2 - Size 1 1/2", Set 150, Cap. 5997 B.D. 6

LWCO - 2 McDonnel Miller 150 BM

High Water Alarm - McDonnel 150 B

GRS. SERIAL NO.	MFGRS. MODEL NO.	MANUFACTURER	and the second	DATE OF SHEET
- 68195	C B 600 - 350 FURNACE VOLUME	CLEMUER BROOM	ts	
CU. FT HEATING SURFACE (SQ. FT.)		AUTOMATIC SEMI - AUTOMATIC	USE EXPORT ELEC. POWER GENERATION LAID UP - WET	DATE BUILT DATE INSTALLED 1982
NONE MPERATURE AT SUPERHEATER C	•F WATER WALL	PRESSURE (psig) DESIGN MAWP INSTALLED	CAPACITY	BOILER TYPE DRAFT C.I. WATER TUBE FIRE TUBE INDU
ee Reverse Side for Fitti	NO/ DIAMETER IN. LENGTH FT IN. RIVETED FORGE WELDED FUSION WELDED	AIR HEATER	HP LB., HR EDR <u>14645000</u> BTU/HR.	PRODUCES CIRCULATION STEAM LOW TEMP. WATER HIGH TEMP. WATER
	FUEL & FIRING EQUIP	MENT IN SERVICE	ALTERNATE FUEL &	FIRING EQUIPMENT
FUEL	COAL OIL ANTHRACITE COMMERCIAL BITUMINOUS OTHER GAS NATURAL	L 1, 2, 4, 5, 6		MERCIAL 1. 2 4, 5, 6 Y SPECIAL ER
	MANUFACTURED		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 RING	COAL - PULVERIZER ATTRITION BALL & RACE BOWL MILL TUBULAR OIL BURNERS MECHANICAL STEAM ATOMIZED AIR ATOMIZED	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	COAL - PULVERIZER ATTRITION BALL & RACE BOWL MILL TUBULAR OIL BURNERS MECHANICAL STEAM ATOMIZED AIR ATOMIZED
	VENTURI TYPE	ROTARY CUP	VENTURI TYPE	ROTARY CUP

DATA RECORD SHEET - BOILERS NAVFAC 9-1:014/40 (9-69) Superse

FITTING	NUMBER	SIZE	MANUFACTURER	the state of the	1.5. 16.00	Carl State of the	and the second
SAFETY VALVES			HANDIACIUREN	ТҮРЕ	SETTING	RANGE	PRESSURE CLASS
	2	2-11/2	KUNKLE VALVE CO		150	No.	
STEAM OUTLET VALVES	i	4"	CRANE CRANE	NON-RETURN			250
BLOW-OFF VALVES	2	1 1/2	EUERLASTING	GATE- STOP 4000 A	Same Contract	19-25 1	250
	1	2"	EVERLASTING LUNK HOL	4060 A			250
FEEDWATER VALVES	1	2 ''	LUNK #73	CHECK GLOBE			
WATER COLUMN	A						1
FEEDWATER REGULATOR	1	11/2	MEDONNELL MILLER	nia 100			
WATER GAGES			<i></i>	No. 157			150
STEAM GAGES	1	8 % DIA	CLEVER BROOKS				
GOOT, BLOWERS						0-300	
FUSIBLE PLUGS							

SAFETY UALVE

NO.1 SIZE 2" SET 150 CAP. 9831 B.D. 6 NO.2 SIZE 11/5 SET 150 CAP. 5997 BD. 6

LWCO - 2 MCDONNELL MILLER 150 BM HIGH WATER ALARM - MCDONNELL 150 B

NAVFAC 9-11014/40 (9-69) (BACK)

-1		1
71	2'2/	90
	00	10

#2 BOILER

(ACTUAL READINGS)

	@2					00°F oil temperature		
	GPM	GPH	02	CO2	STACK TEMP	1. EFF		B.A.
Ø1.	0.14	8.4	10.5%	9.07		85341.	@ 250 NST	10.5
25%	0.38	19.2	6.5%.	12.5.	350° F	87.5%	@ 250 NST	ra.t
50%	0.90	54.0	7.5%	11.57	360° F	8744%	@ 250 NST	17.:
75%	1.25	75.0	8.5%.	11.5%	375°F	86.0%	@ 300 NST	120.
100%	1.30	78.0	7.0%	12.0%	380°F	86 41.	@ 300 NST	20.5
						ani amb	cent tenyo . a / as	)%-
	· Test							
			- Angeland					
			and star					
						1. Alter		
			A Part Saint +		States and and	A State in		

	Gim	GPH
01.	.30	18.5
25%	. 62	37.0
50%	. 92	55.5
75%	1.23	74.0
108 %	1.54	92.5

MAX CAPACITY - 97.5 GPH

95%. MAX CAPACITY - 92.5 5PH

OPTIMUM READINGS

@ 5:1 ratio

7/23/90 Trim Out. 3627

