Cleaver BRooks

AIR/Steam Momo

model = CB. 600-408

DAte 5/27/81

Serial # 1-70773

MAX PRESSUre - 150 PST

INPUT 16738088 BT4/HR

OIL GPH 111.5

208 Volts 3 Ph. 60 HZ.

71 Amps.

MINIMUM CIRCUIT MAPS. 79

Blower motor 15 HA.

AIR-comp motor 5 H.P.

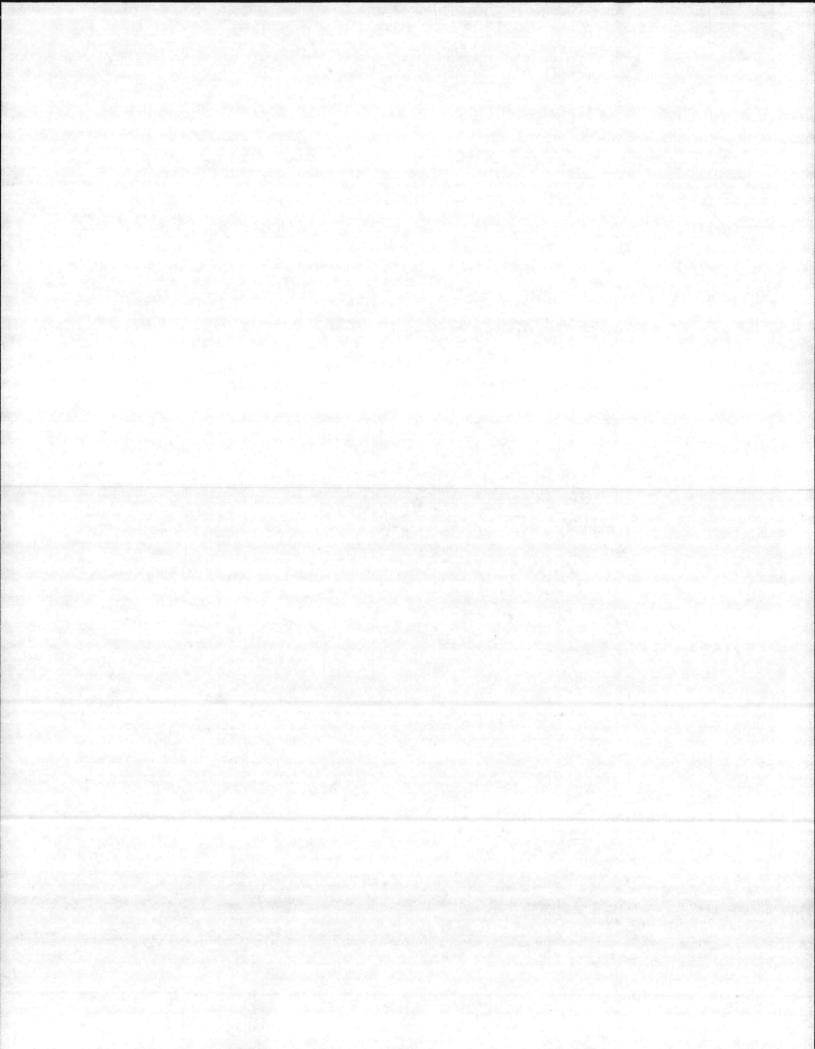
Sul Hester 7.5 KW

Oll pump motor

208 Volts 3 Ph. 60 HZ

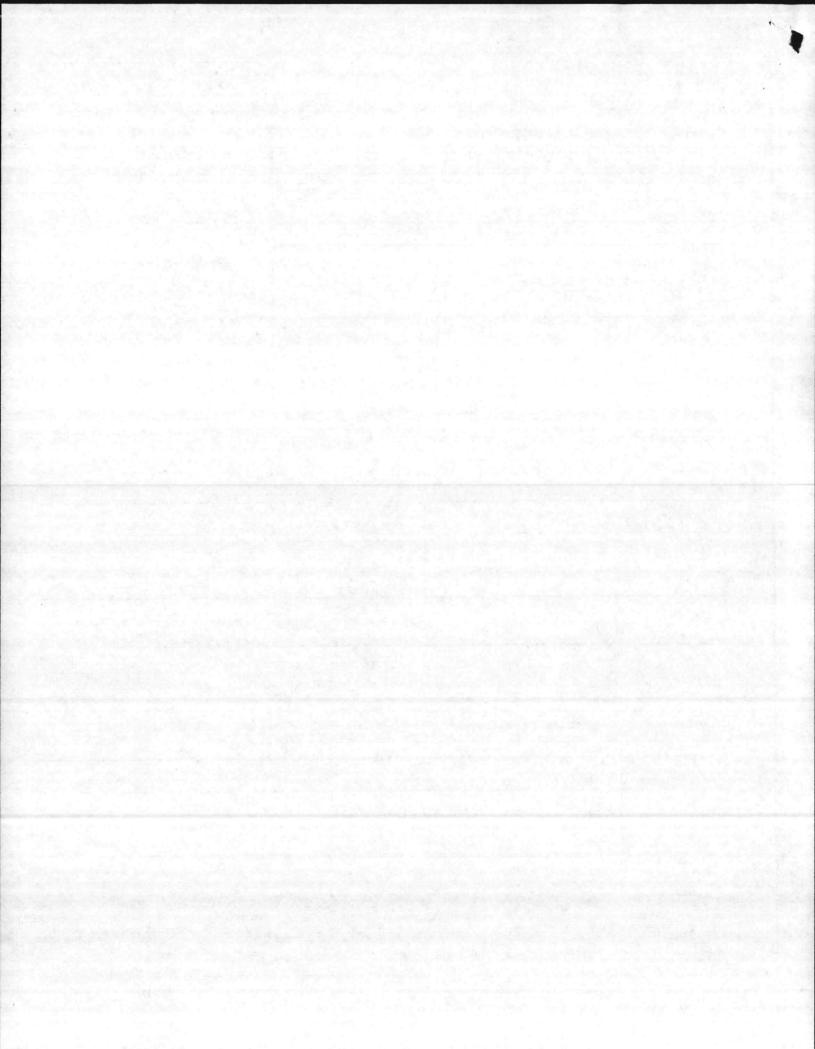
3.5 AMP.

Oll Fired Boiler MSSEMBly NO. 57/808 40 #6 01/-



NAVFAC 9-11014/4				DATE OF INSPECTIO	N /1 11
Supersedes NAVDOC S/N 0105-LF-004-00		TYPE OF INSPECTI	ON	16 -	1014 81
		A INTERNAL EXTERNAL	. a	INTERNAL & EXTER	
1. FROM	BASE MAINT, OFFICER	T T CATERNAL	-	14.	ST C TIONA
	CAMP LEJEUNE, N. C.			CERTIFICATE IS	SUED TES A
2. TO	NAVFACENGCOM			5. BOILER INSPECTO	R 2 01
	NORFOLK VA		<	Loase 7	Seller
	BOILER DATA			ALAIT W	IONAL BOARD NO.
3. MANUFACTURER			1	6. REASON FOR NOT	ISSUING CERTIFICATE
ORR & S	EMBOWER  5. MFG. SERIAL NO. 6. N	AFG. MODEL NO.		This IINIT	WAS Replace
9	And the second s	3550/		. the MIFE	Boiler CONT
7. BUILDING NO.	8. YEAR BUILT 9. C	APACITY			
26/5	1954 13	2,000 #/1	R	00. 77- 44	184. NEW UM
		ATING TEST	the u	III RETAIN	property v
COAL X	OIL GAS 151 psi 10	2 pal 22	psi 9	7.	
SATISFACTO	RY UNSATISFACTORY 13. TYPE	FIRE			
Janistacio	RY UNSATISFACTORY TUBE	TUBE	C. I.		
9. COMBUSTION		20. FLUE GAS TEMP	ERATURE		
Fig. 1	% CO <sub>2</sub> % EXCESS O <sub>2</sub>	AFTER BOILER_		F : AFTER HEA	T TRAP
		AFETY DEVICES			
1. MANUFACTURER	5	AFETY VALVES	R AND SIZE	23. PSI SETTING	24. CONDITION
LONERG.	HN	2-2	"	120-125	-
5. MANUFACTURER	STEAM	PRESSURE GAU			
ASHCRO	FT		EG CONSTAN	Tpsi; O	THERpsi
7. REASON IF NOT	TESTED				
	FIR	ING EQUIPMENT	a section		
ITEM	IN SERVICE		ALTERNATE		
B. MANUFACTURER	ORR & SEMBOWER				ag a service of the
. TYPE	GUN & NOZZIE-Steins	& AIR Atom			
. FUEL GRADE	#6				
. INSPECTOR'S COM		HE STATE OF THE ST	v		
. ATTACHMENT(S) (C	Check)	33. SIGNATURE			
	PECTOR'S REPORT SPECIAL COMMENTS	R.W. Di	20,0		
-		4,150	-00	В'	YDIRECTION

\* U. S. GOVERNMENT PRINTING OFFICE: 1978-604-467



100		T-52
III _	L-70773	MODE
	98438	DADT N

MODE CB-400, 150 psi, stm.
PART NO. 524-1245

## FORM P-2 MANUFACTURERS' DATA REPORT FOR ALL TYPES OF BOILERS EXCEPT WATERTUBE As Required by the Provisions of the ASME Code Rules

Charles and the	Cleav	er-Brook	s Div	ision o	f Aqua-Che	m, Inc., Milv	vaukee, Wisc	onsin LEB	ANON, PA
	BUI	LDING	26			s of manufactur		P LEJEU	NE, NC
Manufactured for _			11 - 40	(Na	me and addre	ess of purchaser	)	garting of the same	45 T 1879
Location of Installat	ion BUI	LDING	26			CORP BAS	SE, CAM	P LEJEU	NE, NC
Type Interi	nally Fired	Boile	r No.	. %	76383		N/A	524-124	15
							(CRN)	(Drawin	g No.)
512	57			Year Buil	,	9 81			
	t'i. Board No.)								OU ER AND
(Year)	CODE.	The designed Adden	gn, co	SUM	MER, 19	orkmanship co	onform to A	ASME Rules,	Section I
Remarks: Manufact									maned for the
following items of th	пз герогс.		(Nam	e of part	item number	, mfgr's name a	nd identifying	stamp)	
Boiler Shells or Drui	ms: No.	1	Dia.	96"	Length	134**	Dia.	Len	gth
					Total Phil				
Shell Plates	SA-515-70	1/2			Laborial Carry	lication N = 0	rada ====!==!	hickers!	and the state of t
		7.5				fication No. & g		IHCKHOSS/	
Longitudinal Joint(s	) Welde	d William	۹۱	Joint	Efficiency		90% As compared to	Saamlees)	
	Seam	less, Welde	a)	NON	F		ma compared to	2 3eailless/	
deads	(Mate	rial Specifi	cation			Dished, Ellipsoid	dal-Radius of D	Dish)	
	Welded								
Sirth Joint(s)	(Seamless, We		NO,	of Shell	Courses				
ube Sheet					Tube Holes		2.525"		
One Suset	(Mat'l Spec.,	Grade, Thi	ckness)	100	_ 1 000 110185		(Dia.	)	W. To A. T.
Boiler Tubes: No	273			SA-17	78-A	Lysel Control	Straigh	t	
				(Mat	I. Spec., Grad	(6)	131	raight or Bent)	
Dia. 2-1/2"	Leng	th 1	34-1/	2"	Gauge	.105**			
Furnace No1	Size 4	5" O.D.	Lei	ngth, each	section	THE LANGE	Total	134-1/	4"
Туре		(	Corrug	gated					
		Plain, Ada	mson,	Ring Rein	forced, Corre	gated, Combin	ed or Stayed)		
SA-285-C,	.440"		Seam	s: Type		Werden			
	, Grade, Thickn	ess)				(Se	amiess, Welded		
Staybolts: No. N	ONEsi	ze		N/A					
					Diam., Mat'l.	Spec. Grade Siz	e l'elitale, Net	Areai	
	/A d Vert.)	Max. AWP		N/A		psi.			
Pitch N	d vart./								
							Γ		Max
Pitch N (Hor. an Stays or Braces		1	No.	Max.	Total	Fig. PFT-32	Dist. Tubes	Area to be	Max. A.W.P.
	Material	100	&		and the second s			Stayed	psi.
	Material Spec. No.	Туре	& Size	Pitch	Net Area	L/1	to Shell	0.0,00	
Stays or Braces		Type	Size	155	Net Area 11.7816	1.09	24-1/4	905	154
Location  F.H. above tubes	Spec. No.	Diag	Size *	Pitch					154 154
Location  F.H. above tubes  R.H. above tubes	Spec. No.	1	Size *	Pitch 3-3/4	11.7816	1.09	24-1	905	
Location  b) F.H. above tubes  R.H. above tubes  F.H. below tubes	SA-31-B SA-31-B N/A N/A	Diag	Size *	Pitch 3-3/4	11.7816 11.7816	1.09 1.09	24-½ 24-½	905	
Location  a) F.H. above tubes b) R.H. above tubes c) F.H. below tubes d) R.H. below tubes	Spec. No.  SA-31-B  SA-31-B  N/A  N/A  N/A	Diag	Size *	Pitch 3-3/4	11.7816 11.7816	1.09	24-½ 24-½	905	
Location  a) F.H. above tubes b) R.H. above tubes c) F.H. below tubes d) R.H. below tubes f) R.H. below tubes f) Through stays	SA-31-B SA-31-B N/A N/A	Diag	Size *	Pitch 3-3/4	11.7816 11.7816	1.09 1.09	24-½ 24-½	905	
Location  a) F.H. above tubes b) R.H. above tubes c) F.H. below tubes d) R.H. below tubes e) Through stays f) Dome braces	Spec. No.  SA-31-B  SA-31-B  N/A  N/A  N/A  N/A	Diag Diag	Size *	Pitch 3-3/4 8-3/4	11.7816 11.7816	1.09 1.09 *12 @ 1-\s	24-\f	905	
Location  a) F.H. above tubes b) R.H. above tubes c) F.H. below tubes d) R.H. below tubes d) Through stays d) Dome braces	Spec. No. SA-31-B SA-31-B N/A N/A N/A N/A N/A	Diag Diag Assy.	* * *	Pitch B-3/4 B-3/4 Aux.	11.7816 11.7816	1.09 1.09 *12 @ 1-1/4	24-1/4 24-1/4	905 905	154
Location  a) F.H. above tubes b) R.H. above tubes c) F.H. below tubes d) R.H. below tubes e) Through stays f) Dome braces Other Parts. 1. Wat	Spec. No.  SA-31-B  SA-31-B  N/A  N/A  N/A  N/A	Diag Diag Assy.	* * * * * * * * * * * * * * * * * * *	Pitch B-3/4 B-3/4 Aux.  of Description 1-1/4"	11.7816 11.7816 Water Co	1.09 1.09 *12 @ 1-\frac{1}{2} lumn Assyne, Boiler Pipin Sch. 80	24-1/4 24-1/4	905 905 - 150 PS	154

	783/	Form P-2	(Back)		5	13,800 4
130	1 @ 6" 300# Flo	0.	Ib) Cafana	Value 2	@ 3" NP	
17. Openings: (a) Steam	(No., Size, and	Type)	(D) Salety	valve	(No., Size,	and Type)
(-) (0)((	2 @ 2" NPT Bot	tom Q	(d) Feed	2 @ 2-1/2"	NPT, R	& L Side
(c) Blowoll	(No., Size, and 2 @ 2" NPT Bot (No., Size, Type, and	nd Location)	(0)	(No.,	Size, Type, an	d Location)
	No1					
(e) Manholes: P	10.	2126		_ Location		
/6\ L1==3b=1==	No. 6	. size 31/	4" x 4 1/2"	Location	She	
No Connect	ions to Item 17.	EXCEDT A	S NOTE	D IN TTE	M 16	
	/-	DACEL I	D HOLD	D 111 11D		
18. Fusible Plug (if used)		(No., D	iam., Locatio	on, Mfrs. Stamp)		
10 Poiler Supports: No	4 Tvn	Legs		Attachment	Wel	ded
19. Boiler Supports: No.		(Seddles, L	egs. Lugs)		(Boit	ed or Welded)
20. Max. AWP150	psi Base	ed On PG	-27	Heatin	g Surface	2000 59
		(Code Pa	r. and/or For	mula)		(Total)
21. Shop Hydrostatic Test	225	psigN/	'A	kw.		
		(E)	ectric Boilers	1)		/
					11	0/
		RTIFICATE O			leten	W.412
We certify the statements in	this data report to be t	of Agu	a-Chem. In	oc.	TOH	T D FREED
Date May 8, 19	81s	gned Of Add	(Manufactu	rer)	(Autho	prized Representative)
Our Certificate of Authoriza	ation No. 10				S	Symbol expi
January 15,				1/		
BOILER MADE BY CI	CERT	Sion of Agua-C	SHOP INS	PECTION	Lebanon,	Pa.
BOILER MADE BY	eaver-brooks Divi	STOIL OF AGEN C	10, 1	0(	- Vessel Inco	server and/or the State
I, the undersigned, holding	a valid commission iss	ued by the Nation	ial Board of E	The Hartf	ord Steam	Roiler T & T Co
Province of Pen	insylvania	a	nd employed	by The Halli	ord Steam t	oner I d I co.
	rd, Conn.					
	3, 15, 17-21		and have e	xamined Manuta	cturer's Partia	i Data Reports for it
NO						de estado de estado est
and state that, to the best of			acturer has c	onstructed this b	oller in accor	gance with the applica
sections of the ASME BOILI	ER AND PRESSURE	VESSEL CODE.			and as impuli	nd concerning the bo
By signing this certificate r	neither the Inspector	nor his employer	makes any	warranty, expres	sed or impli	ed, concerning the bo
described in this Manufactu						ole in any manner for a
personal injury or property	A-	y kind arising from	or connecte	d with this inspe	ction.	
Dete   May 8, 19	8		NB	5004 PA	1743	
walter	Taylor	Commissio	ns		State, Province	e and No.
WALTER APP	PAPAK					
		RTIFICATE OF				
We certify that the field ass	embly of all parts of	this boiler conform	ns with the re	equirements of S	ECTION I of	the ASME BOILER A
PRESSURE VESSEL CODE						
Date	Si	gned	/Assemble	-1	_Ву	(Representative)
Our Certificate of Authoriza	au an No		to use t	he (A) or (S)		
Our Certificate of Authoriza						
	19		metals Light			
	CERTIFICA	TE OF FIELD	ASSEMBL	Y INSPECTIO	ON	
I, the undersigned, holding a	a valid commission issi	ued by the Nation	al Board of B	Soiler and Pressur	e Vessel Inspi	ectors and/pr the State
Province of	and	employed by	production con-		of	MANAGER STREET
have compared the statemen	its in this Manufacture	er's Data Report v	with the desc	ribed boiler and	state that the	e parts referred to as d
items			, not i	ncluded in the ce	ertificate of sh	op inspection, have be
inspected by me and that to	the best of my know					
this boiler in accordance wit	, the best of my known	- of the ACME D			CCEL CODE	The described boiler
			OILER AND	PRESSURE VE	SSEL CODE.	
			OILER AND		SSEE CODE.	
inspected and subjected to a	hydrostatic test of		OILER AND	_psi.		
By signing this certificate n	hydrostatic test of	nor his employer	makes any	_psi. warranty, expres	sed or implie	ed, concerning the bo
By signing this certificate in described in this Manufacture	hydrostatic test of neither the Inspector r rer's Data Report. Fur	nor his employer thermore, neither	makes any the Inspector	_psi. warranty, expres r nor his employi	sed or implie er shall be liab	ed, concerning the bo
By signing this certificate n	hydrostatic test of neither the Inspector r rer's Data Report. Fur	nor his employer thermore, neither	makes any the Inspector	_psi. warranty, expres r nor his employi	sed or implie er shall be liab	ed, concerning the bo

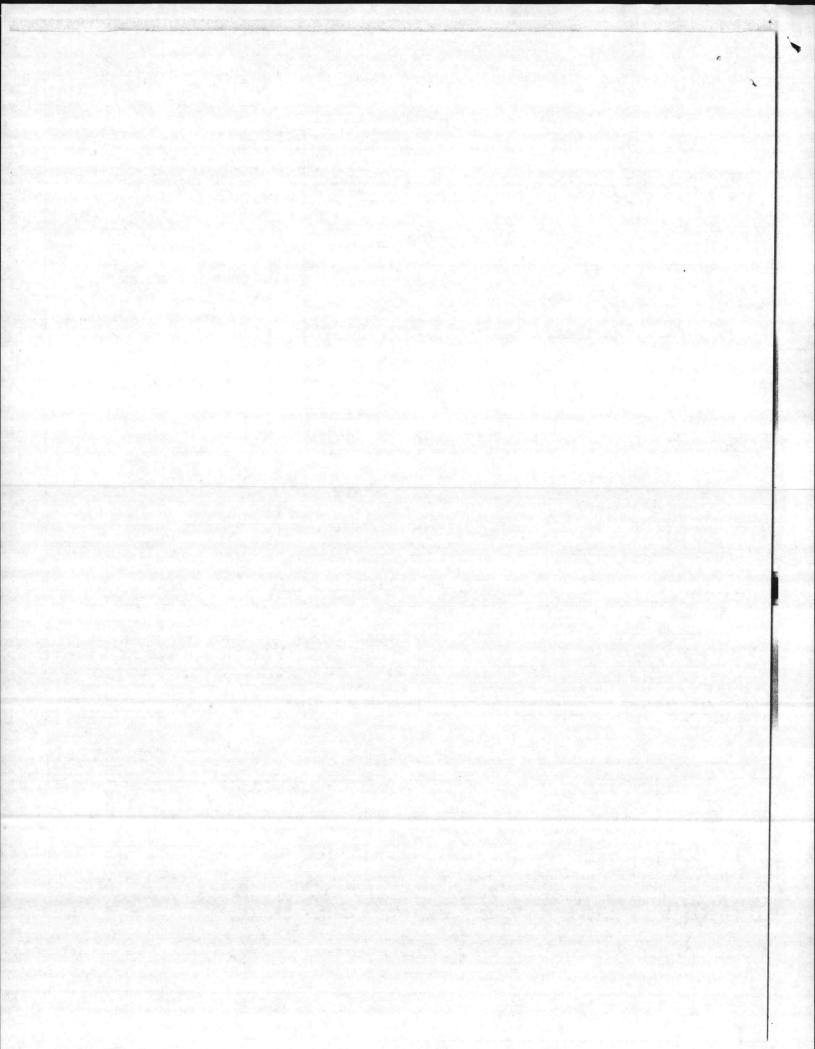
Commissions

Inspector

Nat'l Board, State, Province and No.

INSPECTION REPO	(3/67)				DATE OF INSPECTI	
Supersedes NAVDOCK S/N 0105-LF-004-000		TYP	E OF INSPEC	TION	21 MA	1 1979
		A	INTERN	AL & _ [	INTERNAL & EXTE	
1. FROM			1 1 Entenn		14.	EST C   TION
BASE M	MAINT OFFICER CA	MP LI	ETEUNE	N.C.	CERTIFICATE IS EXPIRES 16	NOU 1779
NAUFAC	CENGCOM NOR	FOLK	VA.	200 King	Lesse -	1-Seller
	BOILER DATA				V.	TIONAL BOARD NO.
3. MANUFACTURER					16. REASON FOR NOT	ISSUING CERTIFICATE
ORR \$	SEMBOWER 5. MFG. SERIAL NO.					
4. PROPERTY NO.			ODEL NO.			
7. BUILDING NO.	5435205 8. YEAR BUILT	9. CAPACIT				
2615	1954	12,000	#/#	9		
10. FUEL (Check)	11. PRESSURE		1			
		DPERATING	TEST	97		
12. FEED WATER TREAT	OIL   GAS   57   pai	PE PE	psi La	2 psi		
SATISFACTOR	Y UNSATISFACTORY T	TATER D	FIRE TUBE	Пс. I.		
EXPORT 9. COMBUSTION	CO <sub>2</sub> * EXCESS	O <sub>2</sub> AFTE	REYE RE BOILER.	IPERATURE	F : AFTER HEA	T TRAP
			Y VALVES			
1. MANUFACTURER	and .		22. NUM	BER AND SIZE	23. PSI SETTING	24. CONDITION
LONERG		FAM PRE	SSURE GA	UGE	120-125	
S. MANUFACTURER	31.	DAM TIL	26. CORR			
T. REASON IF NOT TE	FT ESTED		WATER	LEG CONSTA	NTpsi; O	TH ERpsi
		EIDINIC E	OLUBALENIT			
ITEM	IN SERVICE	PIKING E	QUIPMENT		ALTERNAT	E
B. MANUFACTURER	ORR & SEMBOWER	,		NONE		
). TYPE	ORR & SEMBOWER GUN &NOZZ/E - STEMM	* Die	ATOM			
. FUEL GRADE	#6		o Total			
. INSPECTOR'S COMME	ENTS EVERIED two tube	LUFFAS	AT SE	al meld-	MAI IST WAR	- the cin
MAROSTATIC TE	HERE REPAIRED AND BOILER	e was	RETESTER	SATISFI	exterily_	S THE RANG
	The second secon					
ATTACHMENT(S) (Ch	eck)	33. SIG	NATURE			
COPY OF INSPI	ECTOR'S REPORT SPECIAL COMMENT	rs	70	. Co		
			1.0	· Co	а_ в	Y DIRECTION

# U. S. GOVERNMENT PRINTING OFFICE: 1974-605-704



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

DATE: \_21 May 1979 ACTIVITY: Marine Corps Base, Camp Lejeune, North Carolina BUILDING NO: 2615 BOILER NO: 9 Based on the existing condition and present rate of deterioration, it is estimated that the boiler has a remaining life of X/25 years / / 5 or more years The following corrective action is recommended: 1. This boiler has been in service over 25 years. 2. The oil burner should be replaced due to age and unavailability of replacement parts. Combustion efficiency for 1977 and 1978 was less than 80 percent. Tube ends on first pass were seal welded in 1978 and hydrostatic tested satisfactorily at 227 PSI. Hydrostatic test this date revealed two tube weeps at seal welds. leaks were repaired and boiler was retested satisfactorily. Based on this information and the past history of a same type boiler, No. 54 located in Building BB-9, the remaining life of this boiler is estimated to be from two to five years.

