

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

DATE OF INSPECTION
 1 OCT. 1976 - 19 FEB 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 **NAVFACENCOM
 NORFOLK, VA.**

14. **30 DAYS**
 CERTIFICATE ISSUED YES NO
 EXPIRE **21 MAR. 1987**
 15. BOILER INSPECTOR

Thomas L. Lanier
 NAVY OR NATIONAL BOARD NO

NAVFAC 239
 16. REASON FOR NOT ISSUING CERTIFICATE

BOILER DATA

3. MANUFACTURER
STONE JOHNSON CORP.

4. PROPERTY NO. 46	5. MFG. SERIAL NO. 830302	6. MFG. MODEL NO. N.B. 7631
7. BUILDING NO. RR-15	8. YEAR BUILT 1986	9. CAPACITY 13,800 LB/HR
10. FUEL (Check) <input type="checkbox"/> COAL <input checked="" type="checkbox"/> OIL <input type="checkbox"/> GAS		11. PRESSURE DESIGNED 150 psi OPERATING 100 psi TEST 225 psi
12. FEED WATER TREATMENT <input checked="" type="checkbox"/> SATISFACTORY <input type="checkbox"/> UNSATISFACTORY		13. TYPE <input type="checkbox"/> WATER TUBE <input checked="" type="checkbox"/> FIRE TUBE <input type="checkbox"/> C. I.

NAVFAC COPY

17. BOILER USE EXPORT	18. COMBUSTION CONTROL (Mfg. Name) FIREYE 70010
19. COMBUSTION 12.5 % CO ₂ 4.4 % EXCESS O ₂	20. FLUE GAS TEMPERATURE AFTER BOILER 350 °F ; AFTER HEAT TRAP _____ °F

**SAFETY DEVICES
 SAFETY VALVES**

21. MANUFACTURER KUNKLE	22. NUMBER AND SIZE 2-2"	23. PSI SETTING 112-116	24. CONDITION SAT.
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STEAM PRESSURE GAUGE

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

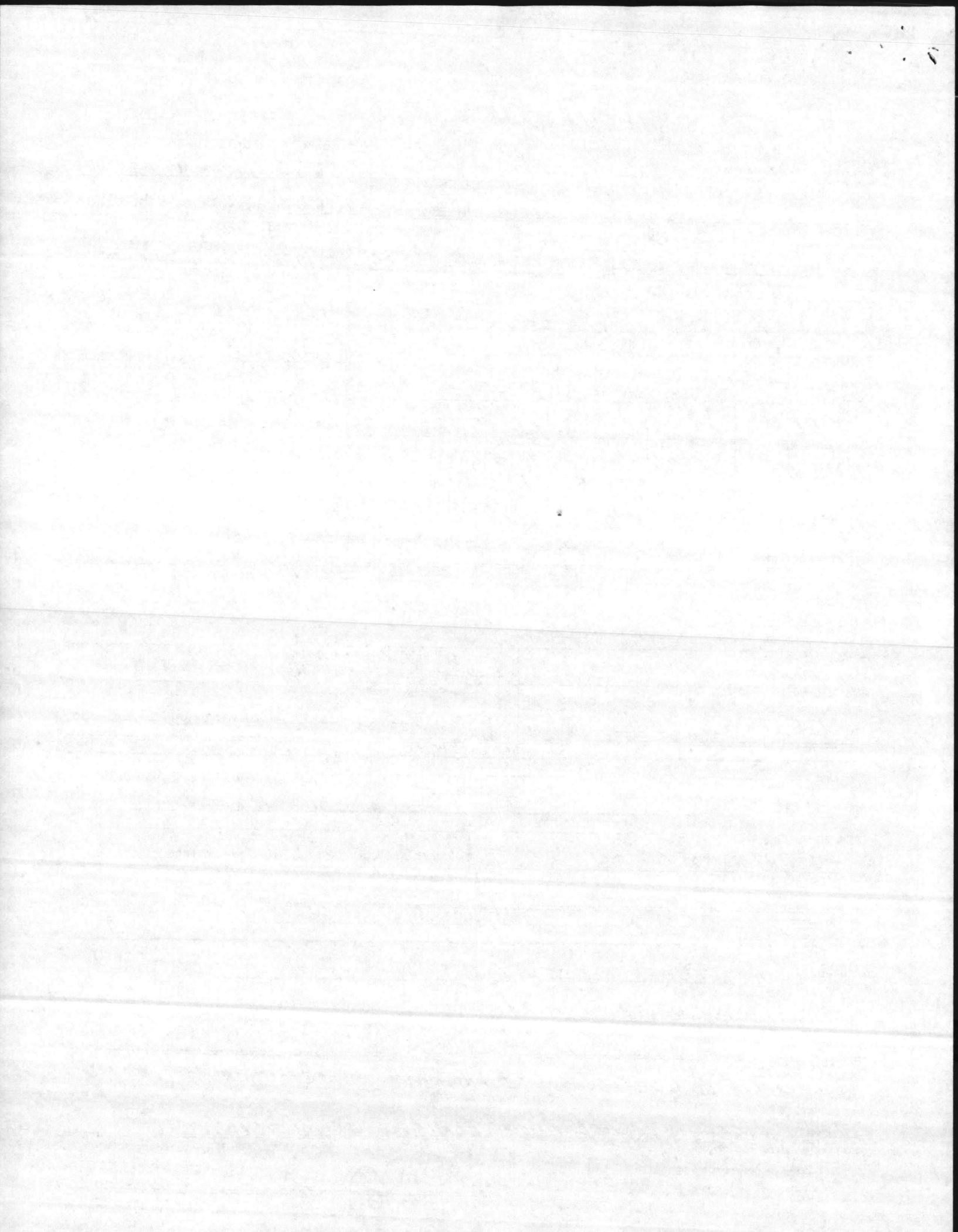
FIRING EQUIPMENT

ITEM	IN SERVICE	ALTERNATE
28. MANUFACTURER	STONE JOHNSON	
29. TYPE	NOZZLE SPRAY-AIR/STEAM	
30. FUEL GRADE	#6	

31. INSPECTOR'S COMMENTS
NEW UNIT WILL RETAIN SAME PROPERTY NO AS OLD BOILER, # 46
NEW BOILER INSTALLED UNDER CONTRACT # 81-1464

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

33. SIGNATURE
J. D. Jewell
 BY DIRECTION



BOILER INSPECTION CHECK LIST

#1464

LOCATION	BLDG NO.	BOILER NO.	DATE
	RR-15	#46	1-14-87 1-12-87

BOILER MFG. STONE JOHNSON CORP. OPERATING PRESS. DESIGN PRESS. 150 CAP.
 SERIAL NO. 830302 MODEL NO. PFTA 400 4H 150S N.B. NO. 7631

BURNER MFG. FIRING RATE:
 STEAM GAGE NAME: TREBICE PRESS. 0-300 TEST

SV MFG RUNKLE CAP NO. 2 SIZE 2"
 NO. 1 LEFT SET 112 (~~8177~~) OPEN 113 (8208) CLOSE 108
 NO. 2 RIGHT SET 116 (~~8177~~ CAP) OPEN 116 (8572) CLOSE 111
 NO. 3 SET OPEN CLOSE

CO2% 02% STACK TEMP COMB. EFF. PURGE TIME 2:10 sec.

NO. 1 FIREYE C/O OK 3 SEC A/L L/O A/L
 NO. 2 FIREYE C/O A/L

HI-STEAM TEMP. C/O OK @ ~~95~~ PSI 102 RESET A/L 3/19/87

EXCESS STEAM TEMP. C/O OK @ 106 PSI MAN-RESET A/L 3/19/87

HI OIL TEMP. C/O A/L

HI OIL PRESS. C/O A/L

LO OIL TEMP. C/O @ 149 °F A/L L/O (REQUIRED IN NON-RECYCLED) A/L 3/19/87 INSTRUCED REGISTERED

LO OIL PRESS. C/O OK @ ABOUT 55 PSI A/L L/O A/L

LO ATOM AIR/STEAM C/O OK @ 10 PSI A/L

NO. 1 LW C/O OK MANUAL RESET A/L PUMP ON 1/4" C/O @ 1" A/L FROM BOTTOM G. CLASS.

NO. 2 LW C/O OK 3/4" FROM BOTTOM GAGE CLASS. L/O A/L ALARM.

COMBUSTION AIR LO FURNACE DRAFT C/O OK A/L L/O A/L

LO FIRE START C/O OK REMOVED WIRE #24 FROM YELLOW A/L

TYPE OF FUEL #6 YEAR BUILT 1986 A/L

HEAT SURFACE Boiler-2000-WATER W/11

REMARKS: PURGE AIR FLOW SWITCH- OK MAKES @ 3" W.C. OPENS @ 2 1/2" W.C.

BURNER POSITION INTERLOCK (DOOR SWITCH) - OK A/L FAN WANT START

LOW VOLTAGE RESET (POWER FAILURE) -

LO-FIRE HOLD SWITCH - OK @ 55 P.S.I.

HI-WATER ALARM - LIGHT ON @ 1 1/16" FROM TOP OF GLASS.

1. 2-11-87 TEMP OF BACK DOOR @ ABOUT 5000 LB/HR = 310 °F.

-OVER-

1. NOED ARM'S ON ^{WATER} GAGE FOR Pull CHAIN CUT OFF/ON WATER LEVEL-
2. NO LIGHT OR ALARM ON EXC. STM C/O SWITCH.

FEED
WATER
→ Pump ON @ $1\frac{3}{4}$ " OFF @ $2\frac{1}{2}$ "

RIGHT S/V

LIFT @ 109	RESET @ 100
108	100

1-27-87 INSTALLED NEW SPRINGS IN S/V'S

RIGHT S/V	OPEN	CLOSE	(OK)
	114	111	

LEFT S/V	OPEN	CLOSE
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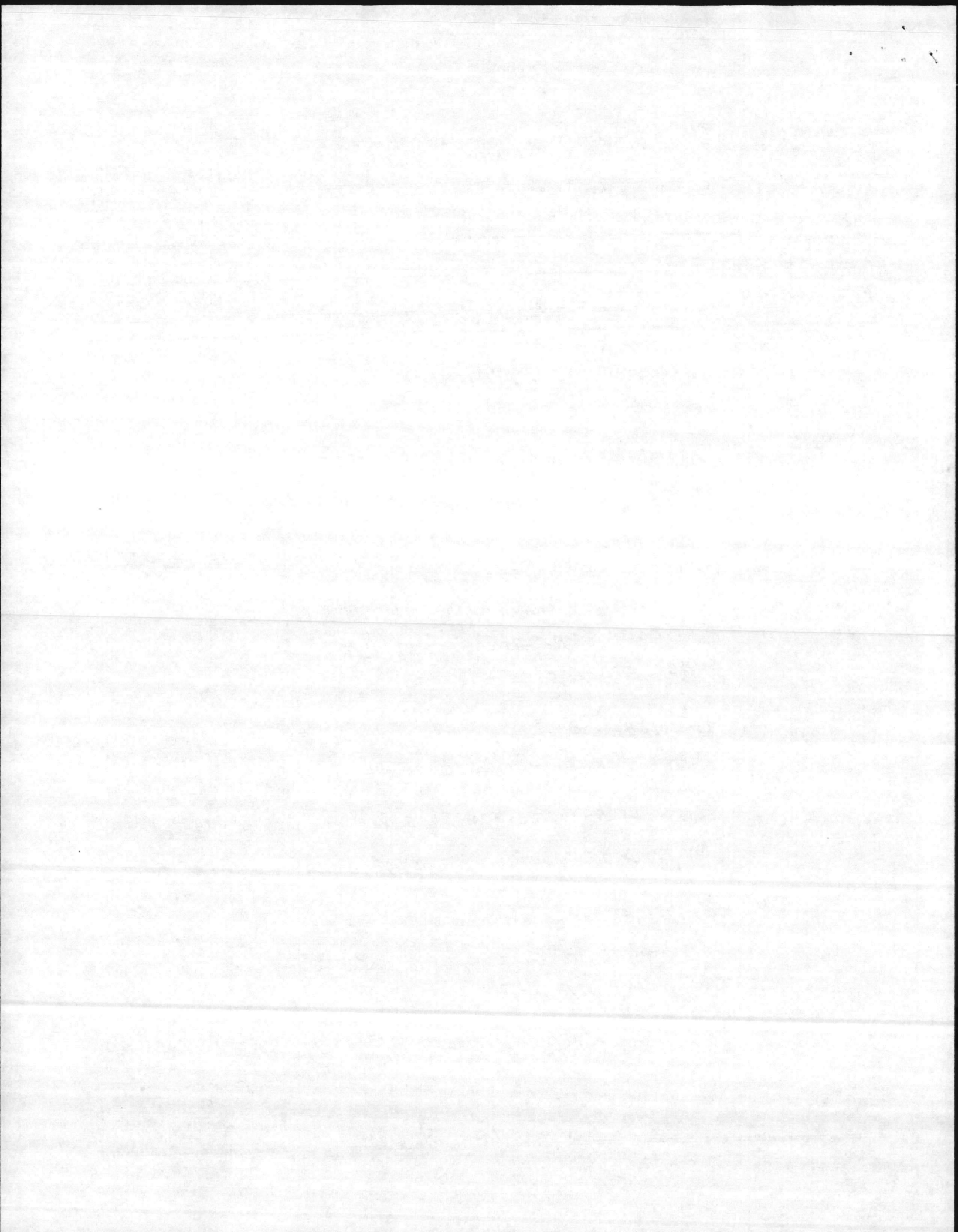
DEIS CONTROL INSPECTION

1. FACILITY NO. RR-15	2. COST ACCOUNT NO.	3. F.A.C.	4. CATEGORY CODE	5. FUNCT. ACCT. NO.	6. L.M.C.	7. DATE SCHED: _____ ACT: 2/19/87	8. MGR. INSPECTION BR. INITIAL: (TU) DATE: 2/20/87	
9. DESCRIPTION AND LOCATION MCBCL								
10. INSPECTOR T. LANIER						11. INSPECTION TIME USED PH. 5794	12. SHEET NO. 1 OF 1	
13. DESCRIPTION OF ITEM AND DEFICIENCY								

INSPECTION AND CERTIFICATION OF #4644?
 Boilers.

1. TWO NEW STONE JOHNSON FIRE TUBE BOILERS WERE INSTALLED CONTRACT # 81-1464
2. INSPECTION - BOILERS WERE NOT IN COMPLETE COMPLIANCE WITH THE NATIONAL FIRE CODE 85A, ALSO A.S.M.E. VII SUBSECTION C 5.
3. THE FOLLOWING TWO CONTROLS SHOULD BE IN THE NON-RECYCLING CIRCUIT.
 - (a) EXCESSIVE STEAM PRESSURE.
 - (b) LOW TEMPERATURE OF HEATED OIL.
4. CERTIFICATION - 30 DAY CERTIFICATE WAS ISSUED, TO GIVE TIME TO CORRECT THE ABOVE ITEMS.
5. THE CERTIFICATION EXPIRES 3/21/87

Tom Lanier



MFGRS. SERIAL NO. 830302	MFGRS. MODEL NO. PETHA 400 4H 150S	MANUFACTURER STONE JOHNSON CORP.	DATE OF SHEET 19 FEB. 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 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 _____ °F	HEATING SURFACE (SQ. FT.) BOILER 2000	PRESSURE (psig) 150 DESIGN 100 MAMP 100 INSTALLED WP	DATE BUILT 1986
NORMAL FEEDWATER TEMPERATURE 180 °F	ECONOMIZER _____ SUPERHEATER _____	CAPACITY 400 HP 13,800 LB./HR EDR BTU/HR.	DATE INSTALLED 1986
(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	AIR HEATER <input checked="" type="checkbox"/> NONE <input type="checkbox"/> TUBULAR <input type="checkbox"/> REGENERATIVE <input type="checkbox"/> STEAM	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 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	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 _____
	<input type="checkbox"/> NATURAL <input type="checkbox"/> MANUFACTURED		<input type="checkbox"/> NATURAL <input type="checkbox"/> MANUFACTURED	
FIRING EQUIPMENT	COAL - HAND FIRED		COAL - PULVERIZER	
	<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"/> ATTRITION <input type="checkbox"/> BALL & RACE <input type="checkbox"/> BOWL MILL <input type="checkbox"/> TUBULAR	<input type="checkbox"/> COL-HAND FIRED
	<input type="checkbox"/> GAS <input type="checkbox"/> GAS RING <input type="checkbox"/> VENTURI TYPE	<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"/> 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 - STOKER
			<input type="checkbox"/> GAS <input type="checkbox"/> GAS RING <input type="checkbox"/> VENTURI TYPE	<input type="checkbox"/> COL - PULVERIZER
				<input type="checkbox"/> ATTRITION <input type="checkbox"/> BALL & RACE <input type="checkbox"/> BOWL MILL <input type="checkbox"/> TUBULAR
				<input type="checkbox"/> MECHANICAL <input type="checkbox"/> STEAM ATOMIZED <input type="checkbox"/> AIR ATOMIZED <input type="checkbox"/> ROTARY CUP

FIRING EQUIPMENT MANUFACTURER STONE JOHNSON	PROPERTY NO. 46	BUILDING OR LOCATION RR-15	NOZZLE MONARCH TYPE C 169 WA 150 GPH 90°	ACTIVITY MCBCL
			BOILER 46	

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

FITTING	NUMBER	SIZE	MANUFACTURER	TYPE	SETTING	RANGE	PRESSURE CLASS
SAFETY VALVES	2	2"	KUNKLE	910 J	112-116		
STEAM OUTLET VALVES	1	8"	CRANE (STEEL)	NON-RETURN			300
BLOW-OFF VALVES	3	2"	EVERLASTING	1-SLOW OPENING 2-QUICK OPEN			
FEEDWATER VALVES	1	2"	ANVIL	GATE			800
WATER COLUMN	1	1"	McDONNELL MILLER	150 RL			
FEEDWATER REGULATOR	1	1"	McDONNELL MILLER	150			
WATER GAGES							
STEAM GAGES	1	8 1/2"	TRERICE			0-300	
SOOT BLOWERS							
FUSIBLE PLUGS							

NAT'L BD. # 7631

CONTRACT # 81-1464

JOHNSTON PACKAGED BOILER FACTORY RECORD

809 2615 #10 Barker 3/17/87

S.O. 8303	Unit TA4004H150S	Pressure 150#	Boiler Serial 830301	Oil #6	Gas Press. Req'd	Und. Label	Insurance Code UL		
BURNER		Compressor Quincy	Type 255	Serial No.	Swirlter 226C0005-03				
Motor Pulley O.D. 2BK70H	Bore 1 1/8"	Belts-No. 2	Size B76	Burner Holder 236B002802	Air Relief Valve 1/2"-100#				
Nozzle Monarch		Type C169WA	Size 150GPH	No. 1	Angle 90°	Nozzle Body Monarch	Type C169WA		
Filter		No.	Model No.	Pipe Size					
VALVES		Oil (1) Valve GC	Size 1/2"	Type K10AB389	Gas Mod. Valve	Size	Type		
Gas Valve	Size	Type Body	Type Actuator						
Aux. Gas Valve	Size	Type Body	Type Actuator						
Vent Valve	Size	Type	Gas Shut-Off Cock	Size	Oil Mod. Valve Maxon #28410	Size 1/2"			
IGNITION		No. (1) Electrode 3A6-12	Rejah Fitting Yes	Hi-Voltage Wire Length 28"	Pilot Body 230C0002-03				
Pilot Valve Honeywell	Size 3/8	Type V4046C1054	Ignition Transformer Webster	Type 612-6A020	Sec. Volt. 6000	Pilot Cock 3/8"			
Direct Spark Ignition Trans.		Type	Sec. Volt.	Hi-Voltage Wire Length					
BLOWER		SJC	Size 182	Bore 1 7/16"	Wheel Dia. S/N 239	Wheel Width			
Motor Pulley O.D. 4P3V41	Bore 1 1/8"	Shaft Pulley O.D. 4P3V45	Bore 1 7/16"	Belts-No. 5	Size 3V560				
Bearings - Front SF23T	Rear SC23T	Bore 1 7/16"	Shaft Size - Dia. 1 7/16"	Length 28"					
ELECTRICAL		Panel	Serial No.	Volts 208 Ph. 3 Cyc 60	Panel Lock				
Indicating Lights G.E.	Type CR103HD1	Bulb Size 6W	Volt 115	Control Volt Trans. 1F1033	Sec. Volt 115				
Main Switch 2607D89G12	Type 3 Pole	Amp. Volt. 60/600	Burner Switch CH	Type SPST	Amp Volt. 115				
Modutrol Switch	Type	Amp. Volt.	Fuel Select Switch	Type	Amp Volt	Oil Pump Switch	Type		
Day-Nite Switch	Type	Amp. Volt.	Silencing Switch CH	Type SPST	Amp Volt 115	Auto-Manual Mod. Switch CH	Type DPDT Volt. 115		
Electronic Program Relay Fireye	Type 70D10	Model	Serial No.						
Electronic Scanner Fireye	Type 48PT2	Model 9003	Motors	Compressor	Blower	Oil Pump			
Modutrol Motor Honeywell	Type M941D1047	Speed 60 Second	Make	Baldor	Baldor				
Modutrol Aux. Switch	Type	25 Volt Trans. AT72D	H.P.	5	10				
Manual Potentiometer Honeywell	Type 105364BUA	Volts	208/230/460	208/230/460					
D.C. Voltmeter	Type	Ph.	3	3					
Blower Interlock Honeywell	Type BZE6-2RQ	Cyc.	60	60					
Operating Control Honeywell	Type L404A1396	Range 10 - 150#	Amp Rating	14.8/14/7	27/25/12.5				
Modulating Control Honeywell	Type L91A1052	Range 5 - 150#	R.P.M.	1750	3450				
Hi Limit Control Honeywell	Type L404A1396	Range 10 - 150#	Frame	184T	213T				
Low Fire Hold Honeywell	Type L404B1346	Range 10 - 150#	Serial	36B01Y46	37B01X58				
Nite Modulate Control	Type	Range -	Starter Make	AB (1)	AB (2)				
Primary Air Switch Honeywell	Type L404B1320	Range 5 - 150#	Type	509BOD	509COD				
Secondary Air Switch Honeywell	Type C645A1022	Range 3 - 21"	Coil Volt.	115	115				
Hi Gas Press. Switch	Type	Range -	O'load Relay	W57	W63				
Lo Gas Press. Switch	Type	Range -	Fuses	FRN30 ²⁵	FRSR60 ⁵⁵				
Oil Press Switch Honeywell	Type L404V1046	Range 10 - 150#	Control Fuses	FRN	Amp. 4	Volts 250			
Hi Temp. Oil Limit	Type	Range -	Oil Heater Relay	AB	Type 500AOD93	Fuses FRN25			
Alarm Edwards	Type #874	Alarm Relay	Type						
Alarm Silence Relay	Type	Low Water Relay	Sq D	Type	8501-C01				
Combustion Air Relay	Type	Low Voltage Relay	Sq D	Type	8501-C02				
Air Flow & Gas Press. Relay	Type	Time Delay Relay	Type						
Flame Failure Excess Relay	Sq D	Type	8501-C01	Burner Position Switches					
Low Water & High Boiler Press. Relay	Type	Hi Fire Purge Switch	Honeywell Type C645A1022						
Fusible Link Switch	Type	Temp. Setting							
TEST	OIL	Low Fire	Mod. Valve	Min	Oil Press. 66#	Air Press. 23#	Gph. 21	Co2 11.0%	
		High Fire	Mod. Valve	8	Oil Press. 62#	Air Press. 37#	Gph. 105	Co2 14.0%	
	GAS	Low Fire	Regulated Pressure	Man. Press.	Cfh		Co2		
		High Fire	Regulated Pressure	Man. Press.	Cfh		Co2		
Mizzou Plastic	# Handhole Gasket-No.	Size	Handhole Gasket-No. 7	Size #3	Manhole Gasket-Size #6	Flue Brush Size 2 1/4"			

Date March 13, 1986 Owner Camp LeJuene Rifle Range - Building #RR-15
 Inspected and Approved By D Palmer/G Eklund Address Camp LeJuene, North Carolina

JOHNSTON PACKAGED BOILER FACTORY RECORD

GAS ACCESSORIES		Main Gas Regulator	Size	Type	Spring
Regulated Press. Gage - Range	—	Manifold Press. Gage - Range	—	Pilot Regulator Maxitrol	Size 3/8" Type 325-3

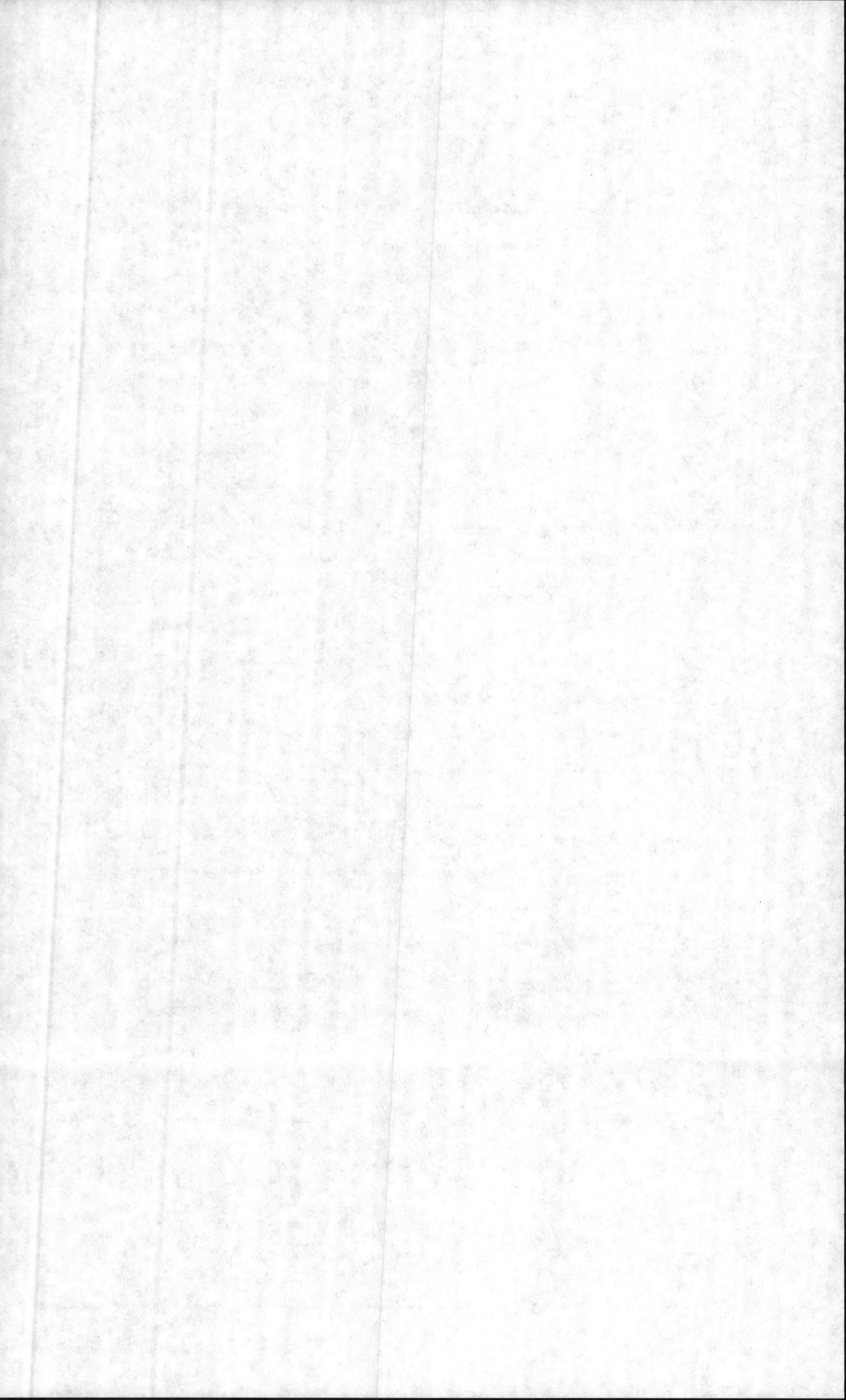
OIL CIRCULATION		Oil Pump	Type	Serial No.	G.P.H.	R.P.M.
Pump Pulley O.D.	Motor Pulley O.D.	Bore	Belts Size	No.	Flow Control Valve	Size
Vacuum Gage	Size	Range	—	Pressure Gage Ashcroft	Size 2" Range 0-160#	
Oil Thermometer	Ametek	Type	Dial	Range 60-260°	Compressor Ashcroft	Size 2" Range 0-160#
Oil Pre-Heater	G.F.	Type	OH460	Serial No.	Steam Regulator Cash "B"	Size 1/2" Range —
Elec. Oil Heater	G.F.	Type	H31TT	Size 8M	Oil Temp. Control Ashcroft	Type 2100 Range 140-240°
Hot Water Circ. Pump	Type	Motor H.P.	Volts	Oil Strainer Kraissl	Size 1 1/2" Type 72-11	Mesh .056
Steam Trap	Armstrong	Type	800-125	Size 1/2"	Oil Reg. Valve Cash "B"	Size 1/2"
Oil Pump Drive Shaft	— Dia.	Length	Co'lg	Bushing		
Recirculating Oil Valve	G.C.	Type	K10CB119	Size 3/8"	Recirculating Needle Valve Stockham	Type B64 Size 3/8"
Oil Valve - G.C. HOV1A302T171 - 1/2" Nozzle Purge Solenoid - G.C. #K10CB119 - 3/8"						
Nozzle Limiting Orifice - Deltrol #GS20S - 1/4"						

BOILER TRIM		Water Column	Type	Gage Cock	#250 - 1/2"	
Water Gage Set	EPP31AL	Gage Glass-Dia.	5/8" Length 9 1/2"	Type	R.L. Drain Valve	
Low Water Cut Off	MM	Type	#157M	Water Warrick	Type 3C2A2	Water Therm Range
Water Feeder	Type	Press. Gage	Size 8 1/2"	Range	0-300#	
Water Column Blow off Valve	Clincher	Type	2111	Size 3/4"	Water Glass Blow off Valve Clincher	Type 2111 Size 1/4"
Feed Stop Valve	U.B.	Type	81T	Size 2"	Feed Check Valve U.B.	Type 62 Size 2"
Slow Opening Blow Off - (1)	Everlasting	Type	4060S57	Size 2"	Quick Opening Blow Off - (2)	Everlasting Type 4000S57 Size 2"
Surface Blow Off	Type	Size		Injector	Type	Size
Continuous Blow Off	Micrometer Valve	Type		Sight Glass	Type	Blow Off Valve Type
Safety Valve	Kunkle	Type	6010J	Size 2" No. 3	Set Pressure 110#	Relieving Capacity 7437 Lb/Hr Each
Safety Valve	Type	Size	No.	Set Pressure	Relieving Capacity	
Stack Thermometer	Type	Dial	Size 3"	Range	100-800°F	
Front Peep Sight	#4042 - 3/4"	Rear Peep Sight	M100 with TB1227	Glass - Dark	Size 2 1/8"	

Damper Control	Model	Feed Pump	Model	Serial No.	
Draft Sequence Control	Model	Pump Motor	H.P.	R.P.M.	Frame
Draft Damper Actuator	Model	Pump Motor-Elect.	Pump Starter	Type	
Draft Gage	Model	Range	Coil Volts	O'Load Relay	
Mod. Feed Water Valve	Valve Body	Motor	Linkage		
Valve By-Pass	Type	Size	Strainer	Size	

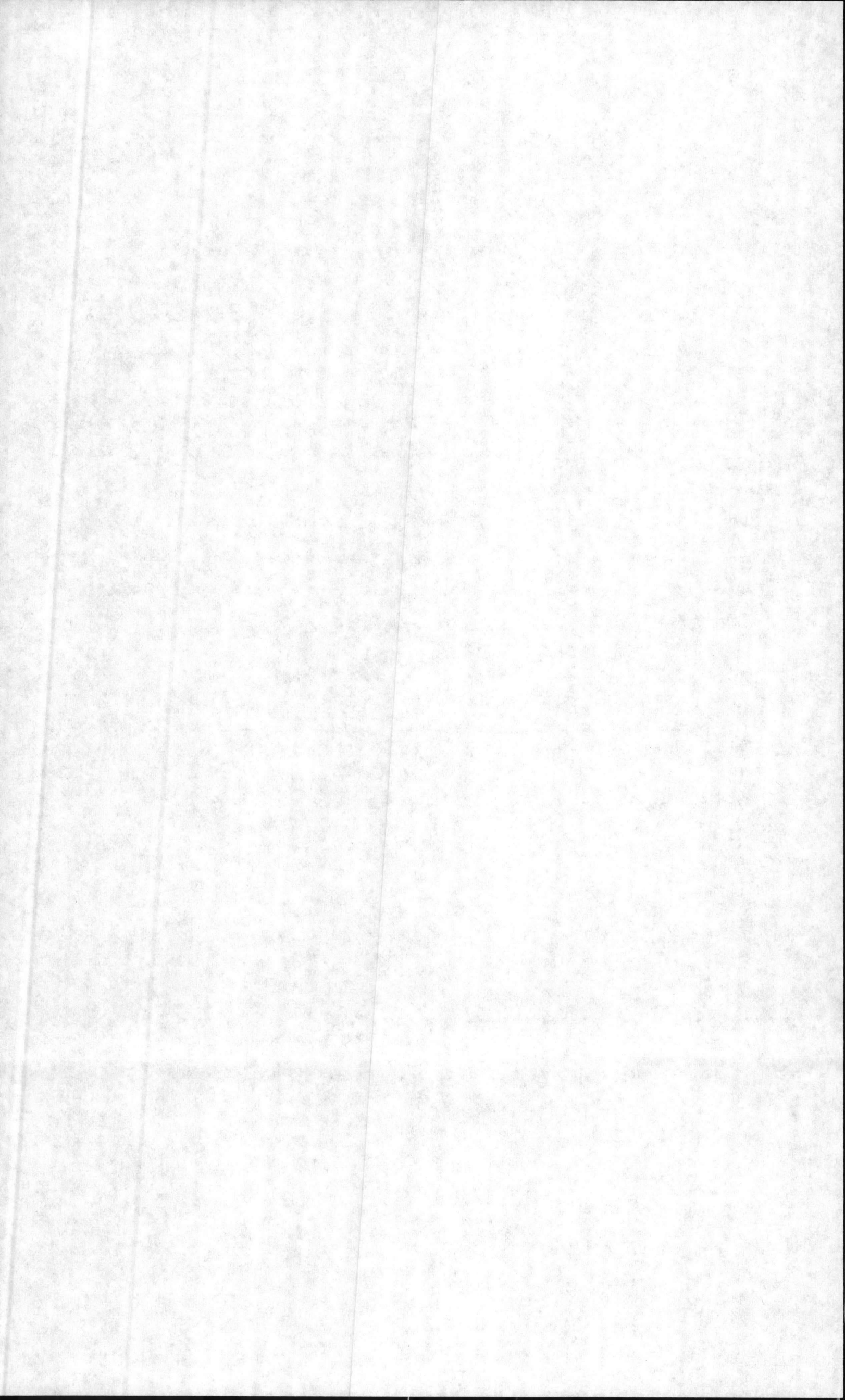
MARINE ACCESSORIES								
Main Probe Assembly	Type	Probe Length	A	B	C	D	E	F
Aux. Probe Assembly	Type	Probe Length	G	H				
Low Water Relay	Type	Aux. Low Water Relay	Type					
Feed Pump Relay	Type	Low Water Alarm Relay	Type					
Pilot Oil Pump	Type	Pilot Meter Valve	Type				G.P.H.	
Burner Air Regulator	Type	Size	Serial No.	Fusible Plug - Size	Fig. No.			
Burner Steam Regulator	Cash	Type	G60	Size 3/4"	Serial No.			
Steam Solenoid Valve	Atkomatic	Type	15438G	Size 3/4"	Air Solenoid Valve	Type	Size	
Pilot Air Steam Valve	Type	Size	Sallnometer Valve	Type	Size			
Burner Needle Valve	Tasco	Type	4445	Size 3/4"	Pilot Needle Valve	Type	Size	
Low Water Reset Button	Type	Low Water Alarm	Type					
Steam-Air Press. Gage	Size	Range	—	Atomizing Steam-Air Gage Media	Size 2" Range 0-160#			
Steam Trap	Armstrong #800-125	Size	1/2"	Steam Strainer	Armstrong "Y" #A1SC	Size	1/2"	

- C/1. Debris on backs of boilers extremely hot / Paint has already discolored - Contractor says he will get letter from manufacture that this is normal
- C/2. Flame pattern not centered in burner or combust. ring - Potential for clinker build-up + flame impingement on combustion chamber - (letter from manufacture that this is normal)
- C/3. Difference of opinion on where draft gauges go - (letter from boiler manufacture where they should go)
- D 4. Ladders for access and egress of boiler tops, are so constructed that personnel cannot utilize them for their intent - (Safety).
- C/5. Oil pumps are extremely noisy - (nothing can be done according to contractor)
- D 6. ^{closer} Feedwater pumps does not have stop valves + check valves @ the pump. This ~~not~~ will, not only be a maintenance problem, but is knocking on pressure gauges which ^{contractor} is not going to warrant - Gauges are not accurate now.
- UNDERGROUND**
C Fuel lines from generator to fuel tank run one ft above ground across the sidewalk (one of two sidewalks to entrance) Should be buried
8. Steam flow meters have too much swing for the small amount of load variations -
9. ASME Test should be run on steam atomization if, can't be run on both (steam + a
- 10 EMERGENCY GENERATOR POWER - WHAT?



#46 w/ins/heat
#47

- ✓ 1. Steam flow meter erratic / Trap lines tied into drains on each side of axis plate possible causing this (Working on this)
- * 2. Doors on back of boilers extremely hot / Man hole has already discolored due to heat - or not heat resistant part
- * 3. ^{w/ins} Flame pattern not centered in burner ring - Potential for ^{flashes} buildup on combustion chamber (Purge fire system stack?)
Furnace draft gauge located on pipe to prep sight
Need checking on better location in combustion chamber.
- * 4. Ladders for access & egress from tops of boilers are so constructed that employee cannot safely go from one ladder to the other. These ~~safety~~ safety ladders
- 5. ~~STEAM FASLE~~ TEMP. originated from the rock explosion @ 5 DAY TEST bldg 1700, investigation ^{result} that there would be two ways of exit from the top of boilers -
- * 6. Oil pumps are extremely noisy (Section in specification) ^{on noise -}
So loud you cannot hear audible alarm on fuel panel)
- 7. Leaks, oil around pumps & boiler fronts.
- 8. ^{NO} Pipe trenches full of debris & accumulation of #6 oil -
- 9. Need more grating over pipe trenches (Safety)
- 10. Atomization line has a nutting, valve should be set for efficiency & made fixed. (Value although turned vibrated loose (2-3-87) creating a un-efficient flame pattern -
- * 11. Gauge un-operational on atomizing steam line #47 boiler.
- 12. Performance testing should be run as specified @ given percents. Then a 5 day continuous running of boiler without nuisance shutdown. Then the ASME efficiency test is to be performed.



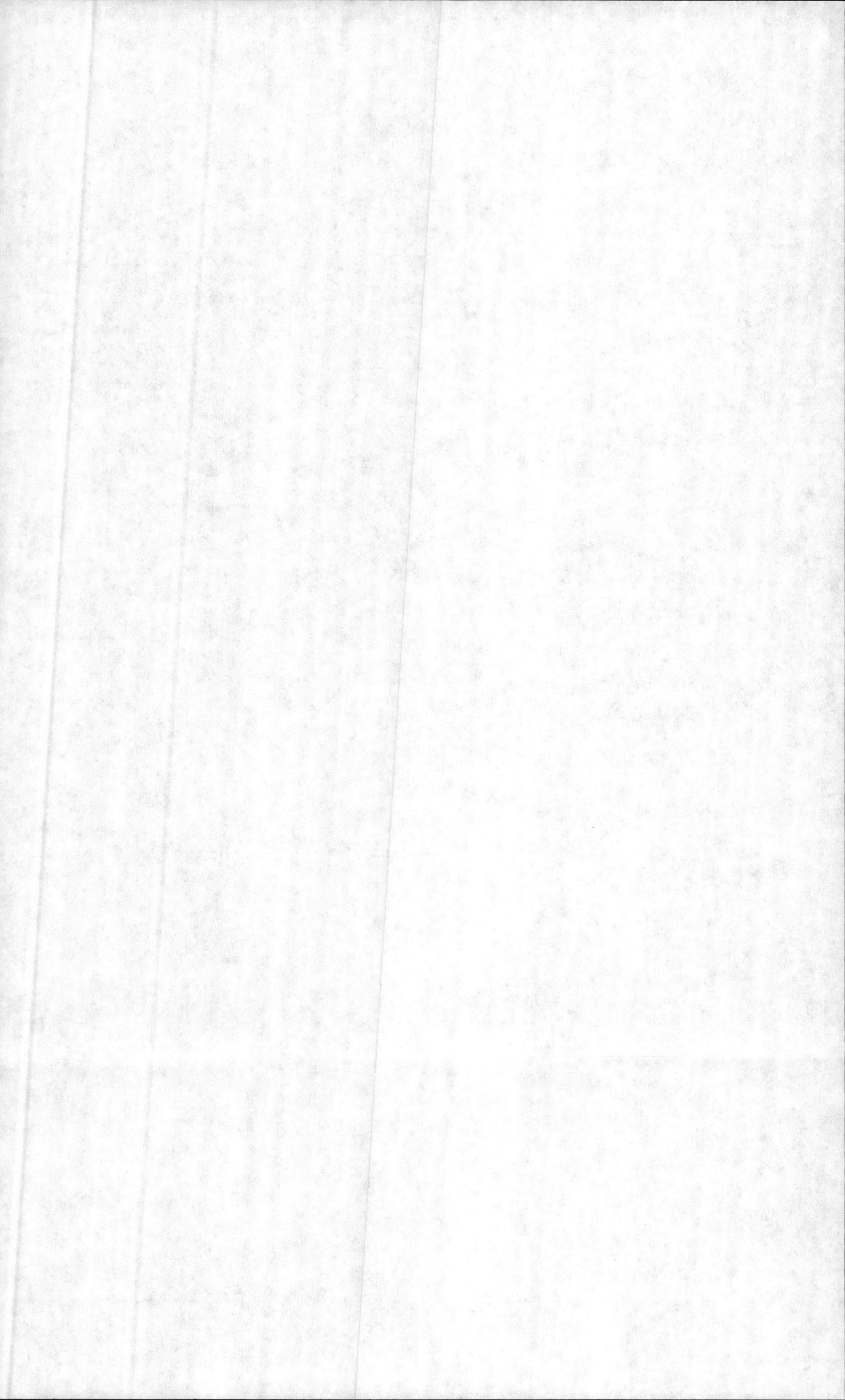
gauge more than line

NEED C/O ORDER

- 13. Need more hangers on chemical line -
- * 14. ^{will rely CONTRACTOR} Check specs on windbox + furnace draft pressure locations
- 15. ^{glitch} Feedwater pump does not have discharge stop ^{valve} @ either pump, they are located @ boiler side. This leaves approx 15' head of water in discharge line (Maintenance problem) Also ^{no crossover from either pump to operate} ^{in operation upon pump failure}
- OK 16. No drains on feedwater ^{pump} beds to ditch & catch water from drips or packings (lands)
- 17. ^(Not full working party) ^{PO} Gauges on #47 feedwater pump not working -
- ✓ 18. Backflow preventer leaking on #46 boiler -
- ✓ 19. Boilers, piping + equipment need general clean up + touch-up painting -
- * 20. Fuel line from generator to oil tank run one ft. above ground across side walk to Plant entrance - (Should be buried) (Safety hazard)
- 21. Containment basement for fuel tank does not have drain valves. One end of metal containment basin 2' x 3" off cement slab
- 22. ASME test to be run on both Steam + Air atomization? Yes/No -
- ? 23. Insulate fuel line -

STEAM ONLY

WATER



DATE OF INSPECTION

23 AUG. 10 SEPT 1984

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
 EXPIRES 23 AUG. 1985

15. BOILER INSPECTOR

Thomas L. Lanier
 NAVY OR NATIONAL BOARD NO.

NAVFAC 239
 16. REASON FOR NOT ISSUING CERTIFICATE

BOILER DATA

3. MANUFACTURER

ERIE CITY

4. PROPERTY NO. 46	5. MFG. SERIAL NO. 94406	6. MFG. MODEL NO. TYPE VL-200
7. BUILDING NO. RR-15	8. YEAR BUILT 1956	9. CAPACITY 11,000 LBS/HR.

10. FUEL (Check)

<input type="checkbox"/> COAL	<input checked="" type="checkbox"/> OIL	<input type="checkbox"/> GAS
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11. PRESSURE

DESIGNED 160 psi	OPERATING 100 psi	TEST 195 psi
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12. FEED WATER TREATMENT

<input checked="" type="checkbox"/> SATISFACTORY	<input type="checkbox"/> UNSATISFACTORY
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13. TYPE

<input checked="" type="checkbox"/> WATER TUBE	<input type="checkbox"/> FIRE TUBE	<input type="checkbox"/> C. I.
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17. BOILER USE
 EXPORT

18. COMBUSTION CONTROL (Mfg. Name)
 FIREYE

19. COMBUSTION
 5.0 % CO₂ % EXCESS O₂

20. FLUE GAS TEMPERATURE
 AFTER BOILER 350 °F AFTER HEAT TRAP °F

SAFETY DEVICES
 SAFETY VALVES

21. MANUFACTURER CONSOLIDATED	22. NUMBER AND SIZE 2-2"	23. PSI SETTING 125-130	24. CONDITION GOOD
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STEAM PRESSURE GAUGE

25. MANUFACTURER ASHCROFT	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 TODD		
29. TYPE ROTARY CUP		
30. FUEL GRADE #6		

31. INSPECTOR'S COMMENTS

1) REPLACE SMOKE STACK ON TOP OF BLDG. 2) REPAIR COMBUSTION CHAMBER DOOR LOCK. 3) INSULATE END OF MUD DRUM. 4) REPAIR ELEC. CONDUIT AND WIRING TO BURNER MOTOR AND STEAM CUT OUT CONTROL

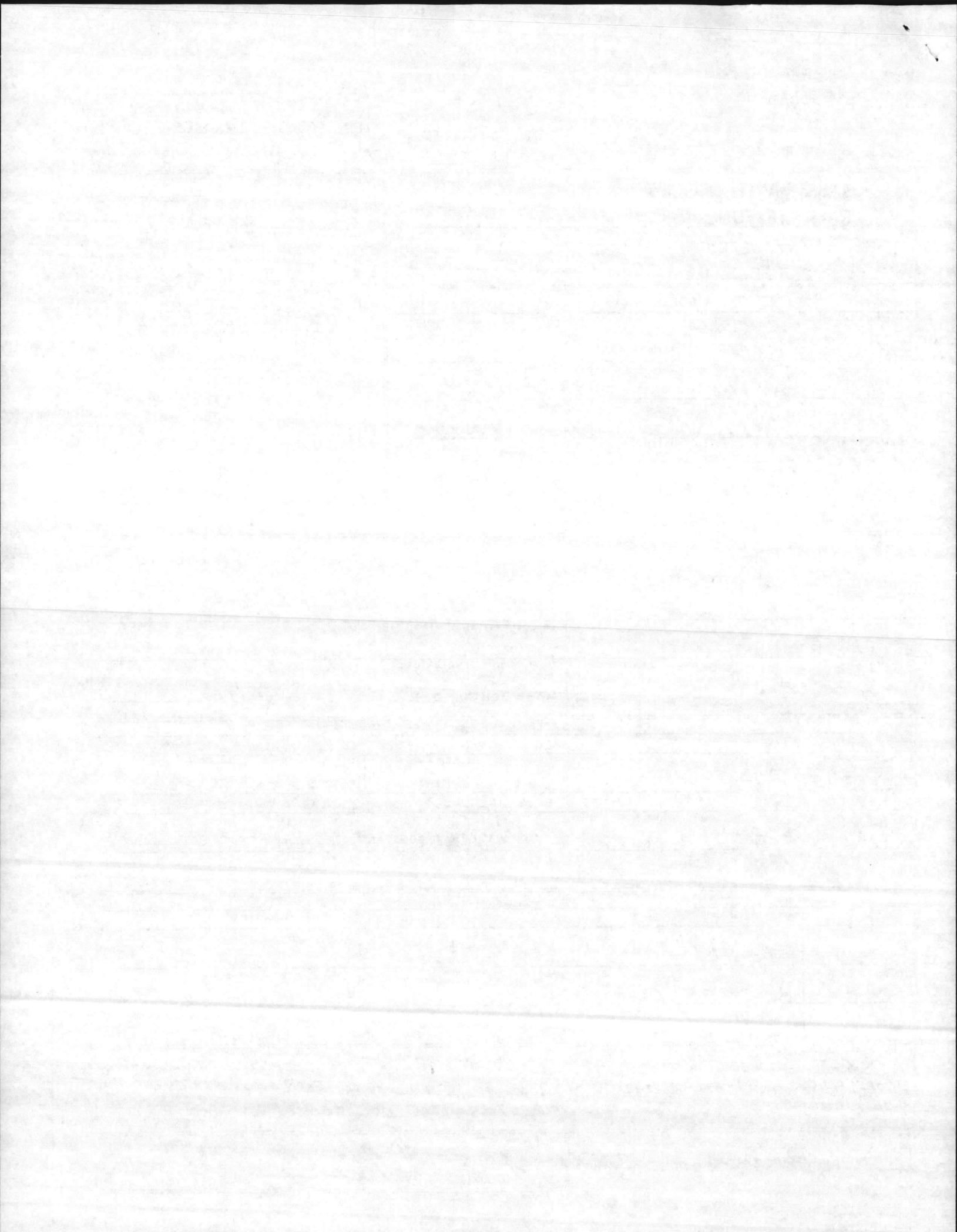
32. ATTACHMENT(S) (Check)

COPY OF INSPECTOR'S REPORT SPECIAL COMMENTS

33. SIGNATURE

J. A. Seller

BY DIRECTION



DATE: 14 Sep 84

ACTIVITY: Marine Corps Base, Camp Lejeune, North Carolina

BUILDING NO: RR-15 BOILER NO: 46

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

(1) years

The following corrective action is recommended:

20 August 1984, #46 during hydrostatic test of boiler, two tubes were
found to be leaking (location of leaky tubes were row #3 from front of
boiler, one tube left of center line and one tube right of center). Leak
was near mud drum end about 1" above mud drum. Cut tube out for inspection
and found that tube metal was thinned in the area about 6" above mud drum.
Tube metal is deteriorated from fire side.

Due to the condition of the tubes, boiler will have to be retubed or
replaced before it can be certified after August 1985, repaired leaks by
plugging tube holes.

