

DATE OF INSPECTION
 3 NOV. 22 NOV. 1982

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

1. FROM BASE MAINT. OFFICER
 CAMP. LEJUNE, N. C.
 2. TO NAVFACENGCOM
 NORFOLK, VA

BOILER DATA

3. MANUFACTURER KEWANEE BOILER CORP
 4. PROPERTY NO. 30
 5. MFG. SERIAL NO. 637171
 6. MFG. MODEL NO. M-45 KX
 7. BUILDING NO. TT-44
 8. YEAR BUILT 1982
 9. CAPACITY 450,000 BTU/HR
 10. FUEL (Check) COAL OIL GAS
 11. PRESSURE DESIGNED 30 psi OPERATING 12 psi TEST 45 psi
 12. FEED WATER TREATMENT SATISFACTORY UNSATISFACTORY
 13. TYPE WATER TUBE FIRE TUBE C. I.

14. CERTIFICATE ISSUED YES NO
 EXPIRES 22 NOV. 1983
 15. BOILER INSPECTOR
 Thomas L Lanier
 NAVY OR NATIONAL BOARD NO.
 NAVFAC 239
 16. REASON FOR NOT ISSUING CERTIFICATE

17. BOILER USE HEATING
 18. COMBUSTION CONTROL (Mfg. Name) HONEYWELL
 19. COMBUSTION 12.7 % CO₂ _____ % EXCESS O₂
 20. FLUE GAS TEMPERATURE AFTER BOILER 250 °F : AFTER HEAT TRAP _____ °F

SAFETY DEVICES
 SAFETY VALVES

21. MANUFACTURER WATTS
 22. NUMBER AND SIZE 1-3/4
 23. PSI SETTING 30
 24. CONDITION NEW
 25. MANUFACTURER MARSHALL TOWNE
 26. CORRECTIONS WATER LEG CONSTANT _____ psi; OTHER _____ psi
 27. REASON IF NOT TESTED

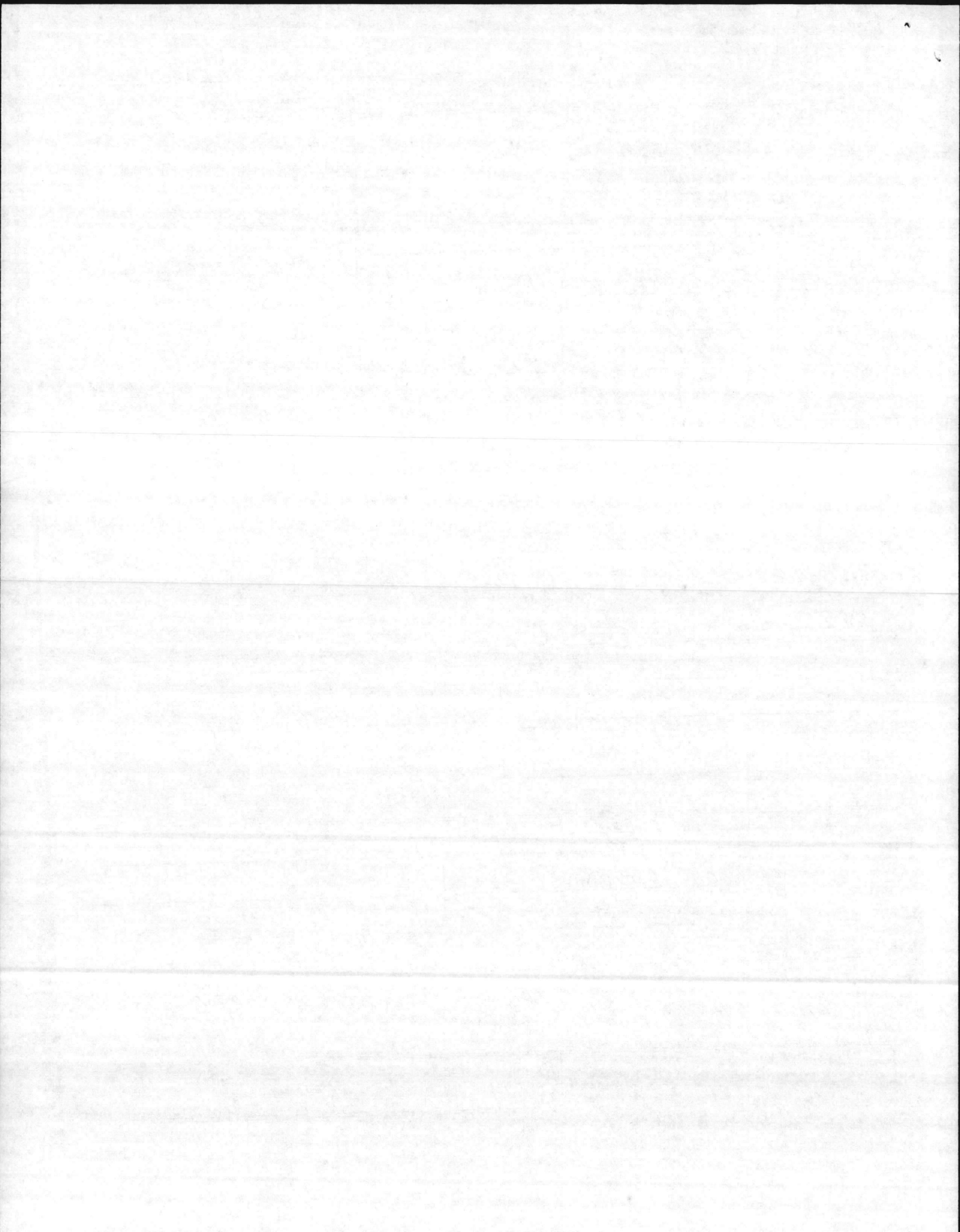
FIRING EQUIPMENT

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

31. INSPECTOR'S COMMENTS
 NEW BOILER INSTALLED UNDER CONTRACT # N62470-82-C-1571
 WILL RETAIN SAME PROPERTY # AS OLD BOILER # 30

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

33. SIGNATURE
 ORIG. WAS SIGN BY Dillon
 BY DIRECTION



MFGRS. SERIAL NO. 637171	MFGRS. MODEL NO. M-45 KX	MANUFACTURER KEWHAWEE Boiler Corp	DATE OF SHEET 23 NOV 1982
TYPE OF SUPERHEATER NONE	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
	HEATING SURFACE (SQ. FT.) 63	PRESSURE (psig) 30 DESIGN 30 MAWP 12 INSTALLED WP	CAPACITY 450,000 BTU/HR.
TEMPERATURE AT SUPERHEATER OUTLET N/A °F	BOILER 63		DATE BUILT
NORMAL FEEDWATER TEMPERATURE _____ °F	WATER WALL _____		DATE INSTALLED
(See Reverse Side for Fittings)	ECONOMIZER _____		BOILER TYPE
	SUPERHEATER _____		<input type="checkbox"/> C.I. <input type="checkbox"/> WATER TUBE <input checked="" type="checkbox"/> FIRE TUBE
	DRUMS NO. _____	AIR HEATER <input type="checkbox"/> NONE <input type="checkbox"/> TUBULAR <input type="checkbox"/> REGENERATIVE <input type="checkbox"/> STEAM	DRAFT <input type="checkbox"/> NATURAL <input checked="" type="checkbox"/> FORCED <input type="checkbox"/> INDUCED
	DIAMETER _____ IN. LENGTH _____ FT. _____ IN.		PRODUCES <input type="checkbox"/> STEAM <input checked="" type="checkbox"/> LOW TEMP. WATER <input type="checkbox"/> HIGH TEMP. WATER
	<input type="checkbox"/> RIVETED <input type="checkbox"/> FORGE WELDED <input type="checkbox"/> FUSION WELDED		CIRCULATION <input checked="" type="checkbox"/> NATURAL <input 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	<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 GAS <input type="checkbox"/> GAS RING <input type="checkbox"/> VENTURI TYPE	<input type="checkbox"/> 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	<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 GAS <input type="checkbox"/> GAS RING <input type="checkbox"/> VENTURI TYPE	<input type="checkbox"/> 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
	FIRING EQUIPMENT MANUFACTURER			

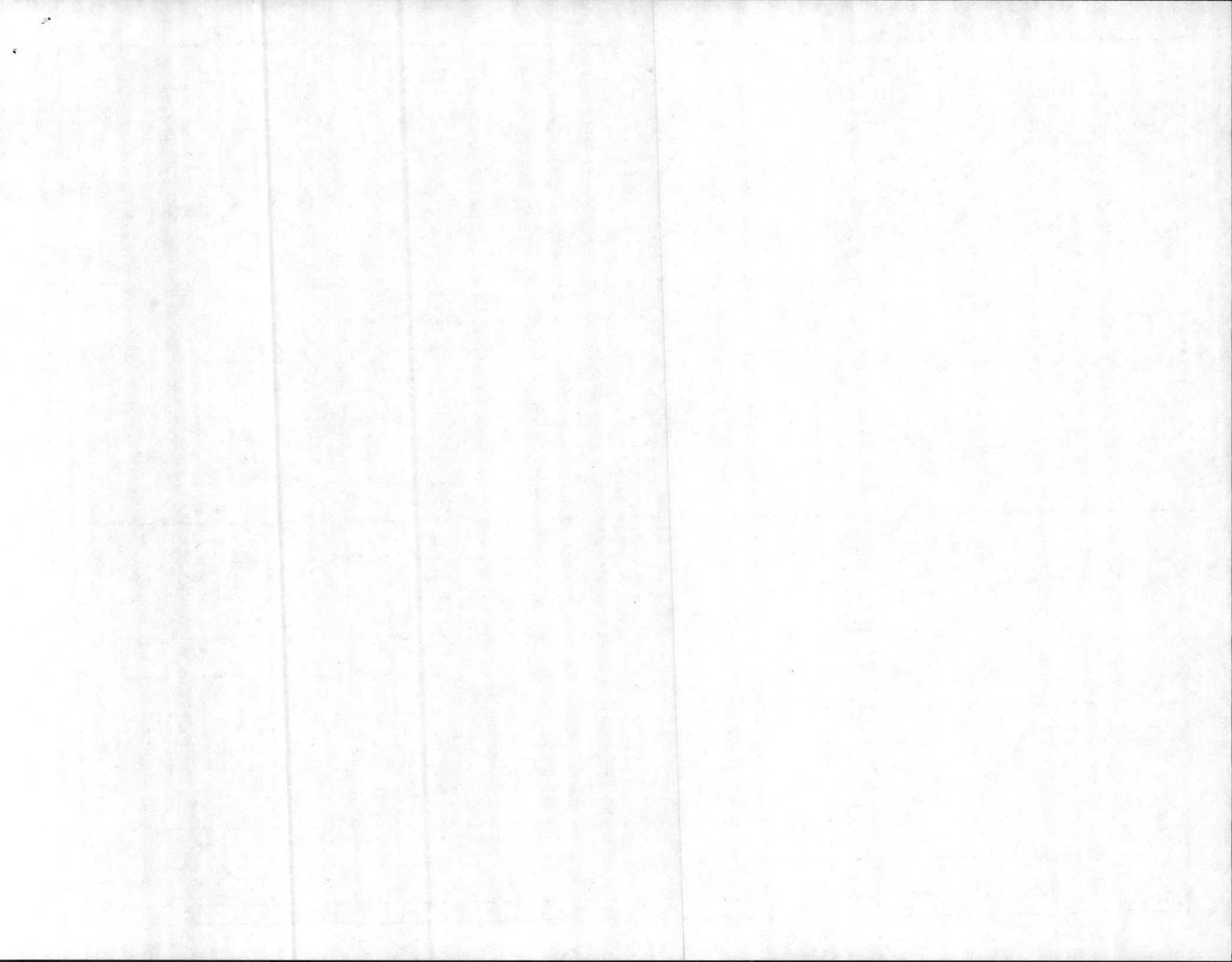
PROPERTY NO. 30	BUILDING OR LOCATION TT-44	BOILER 30	ACTIVITY MCBCL
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FITTING	NUMBER	SIZE	MANUFACTURER	TYPE	SETTING	RANGE	PRESSURE CLASS
SAFETY VALVES	1	3/4	WATTS		30		
STEAM OUTLET VALVES							
BLOW-OFF VALVES							
FEEDWATER VALVES							
WATER COLUMN							
FEEDWATER REGULATOR	1	1/2	TACO	334-1	12	30	
WATER GAGES	1		MARSHALL TOWN			60°-260° 0-60	TEMP. WATER
STEAM GAGES							
SOOT BLOWERS							
FUSIBLE PLUGS							

L W CO - MCDONNELL NO. 64 B SIZE 1"

SAFETY VALVE - 1 - 3/4 WATTS, SET-30 PSIG - 510,000 BTU/HR
 ↓
 # 330



REQUEST FOR START-UP OR SERVICE

Origin of Call: Camp La Jolla 2160 TT 44 Date: 11/22/82
 Request for Service P.O.# _____ Job Location: La Jolla 710
 BOILER/HEATER Mfr. Lawrence Model No. _____ Type _____
 Rated Input _____ MBH 4.00 GPH# 42 Oil @ _____ " W.C. Overfire
 BURNER Model No. R! 4.0-02-P 2249.1 Serial No. _____
 ML No. _____ S.O. No. 70490
 Appointment Date: 11/22/82 With Whom: John Lawrence Phone No. 919-455-3555
 Copies To: Tom Lawler
 Job Name: _____ Invoice To: _____

STACK Height 20' Size _____
 BREECHING Size 6" Length _____ #Els 3
 UNIT OUTLET DAMPER -% Open _____
 BAROMETRIC DAMPER Size 6" Mfr Lawrence
 SEQUENCE DAMPER CONTROL:
 Mfr _____ Model _____
 COMBUSTION AIR INLET Size _____
 OIL TANK: Above Burner Below Burner
 Distance from Tank 40' Vertical Lift 8'
 Suction Line Size 3/8" Pipe Tubing

BURNER READINGS	GAS		OIL	
	LO	HI	LO	HI
INPUT: MBH/GPH				<u>2.95</u>
FUEL PRESSURE:				<u>3.2"</u>
Orifices-"WC/Nozzle-PSIG				<u>2.5"</u>
Oil Return/Air-PSIG				
OIL TEMPERATURE-°F:				<u>20°</u>
Inlet				
Outlet				
PUMP DATA:				
Vacuum-"Hg				
Discharge-PSIG				<u>300"</u>
COMBUSTION TESTS:				
CO ₂ -%				<u>12.7</u>
O ₂ -%				
CO-%/Smoke No.				<u>2</u>
DRAFT:				
Overfire-"WC				<u>14</u>
Outlet-"WC				
Temp. °F Room <u>65°</u> Outlet				
Air Inlet Louver-"Open				<u>1/2"</u>
Primary Air Adjustment Pos.				
Drawer Position				
Flame Signal-MA/DC				

Motor Data @ Hi-Fire						ALL SAFETY CONTROLS MUST BE TESTED
L1		L2		L3		
V	A	V	A	V	A	
Blower	<u>1/5</u>					
Oil Pump						
Air Comp						

REMARKS _____
 INST. MANUAL REC'D BY _____
 STARTUP BY Lawrence
 APPROVED BY _____
 DATE _____

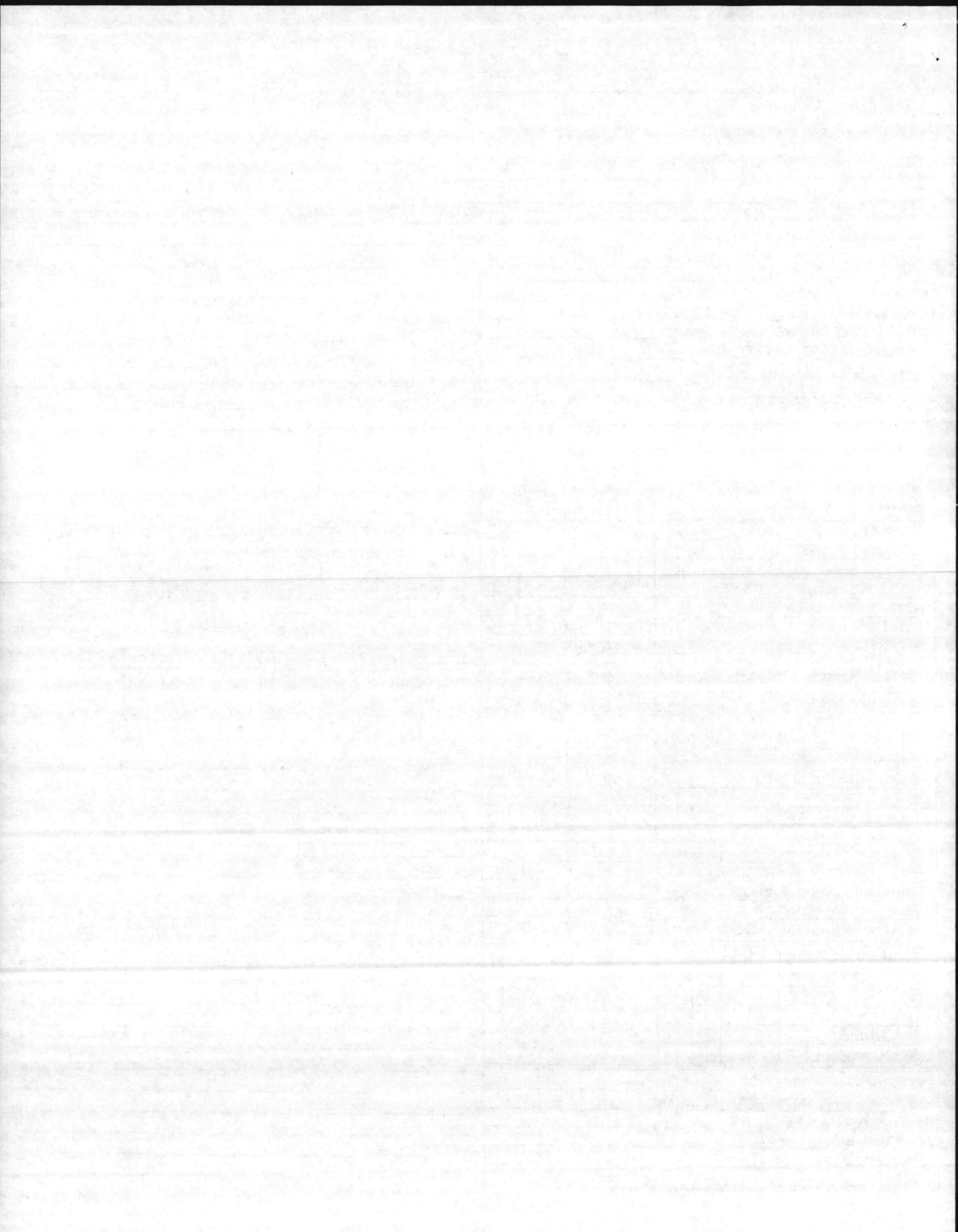
SAFETY CONTROL CHECK

1. Lo-Water Cut-Off
2. Second Lo-Water Cut-Off 0
3. Limit Control Setting 190°
4. Operating Control Setting 180°
5. Firing Rate Control _____ Setting _____
6. Pilot Turn Down Test _____
7. Flame Failure Test
8. Low Gas Pressure Switch _____ Setting _____
9. High Gas Pressure Switch _____ Setting _____
10. Low Oil Pressure Switch _____ Setting _____
11. Low Air Atomizing Pressure Switch _____
Setting _____
12. Low Oil Temp. Switch _____ Setting _____

TIME INCURRED

Hrs on Job	+ Hrs Trvld	X No. Persons	= Total Hrs

INSTRUCTIONS TO SERVICEMAN



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

DATE OF INSPECTION
 25 NOV, 1981

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 25 NOV, 1982
 15. BOILER INSPECTOR
Thomas L. Lanier
 NAVY OR NATIONAL BOARD NO.
 NAVFAC 239
 16. REASON FOR NOT ISSUING CERTIFICATE

BOILER DATA
 3. MANUFACTURER
SPENCER
 4. PROPERTY NO. **30** 5. MFG. SERIAL NO. **5043** 6. MFG. MODEL NO. **C-180**
 7. BUILDING NO. **TT-44** 8. YEAR BUILT **1950** 9. CAPACITY **432,000 BTU/HR**
 10. FUEL (Check) COAL OIL GAS 11. PRESSURE
 DESIGNED **30** psi OPERATING **12** psi TEST **15** psi
 12. FEED WATER TREATMENT SATISFACTORY UNSATISFACTORY 13. TYPE WATER TUBE FIRE TUBE C. I.

17. BOILER USE **HEATING** 18. COMBUSTION CONTROL (Mfg. Name)
 19. COMBUSTION **5.5** % CO₂ % EXCESS O₂ 20. FLUE GAS TEMPERATURE
 AFTER BOILER **400** °F ; AFTER HEAT TRAP °F

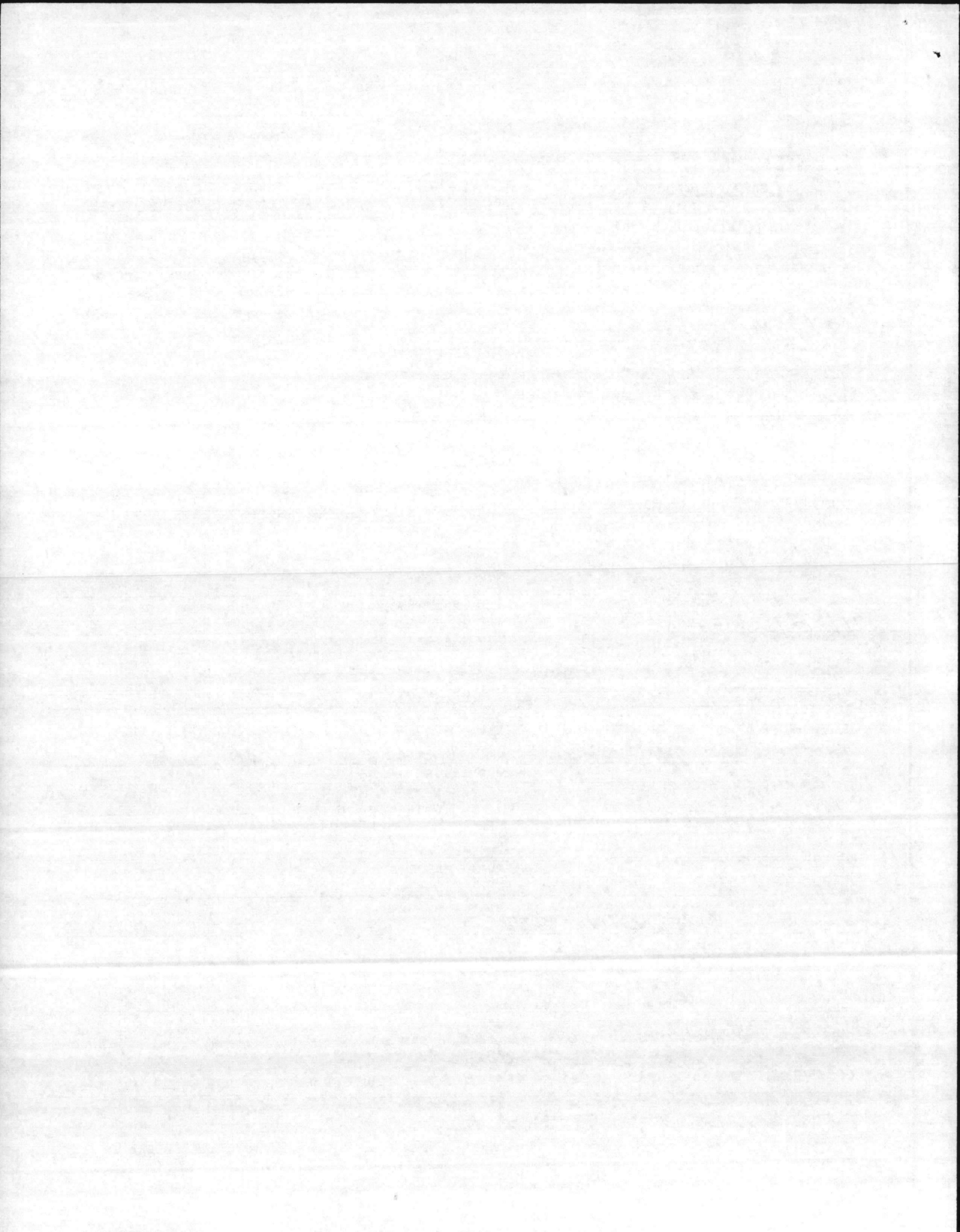
SAFETY DEVICES
SAFETY VALVES
 21. MANUFACTURER **WATTS** 22. NUMBER AND SIZE **1-1/4"** 23. PSI SETTING **30** 24. CONDITION **GOOD**
STEAM PRESSURE GAUGE
 25. MANUFACTURER **ASME STD.** 26. CORRECTIONS
 WATER LEG CONSTANT _____ psi; OTHER _____ psi
 27. REASON IF NOT TESTED

FIRING EQUIPMENT

ITEM	IN SERVICE	ALTERNATE
28. MANUFACTURER	AMERICAN STD.	
29. TYPE	NOZZIE	
30. FUEL GRADE	#2	

31. INSPECTOR'S COMMENTS
 ① Repair insulation on Boiler
 ② INSTALL COVERS ON Elec. controls boxes

32. ATTACHMENT(S) (Check) COPY OF INSPECTOR'S REPORT SPECIAL COMMENTS 33. SIGNATURE
R.M. Wilson BY DIRECTION



DEPARTMENT OF THE NAVY

Memorandum

MAIN/TH/spk
DATE: 11370
30 October 1980

FROM Director, Utilities

TO Director, Operations Division (Attn: F. Cone)

SUBJ Replacement of No. 30 Boiler, Building TT-44

1. The subject boiler is in poor condition, and combustion efficiency is low. The boiler inspector has recommended that the unit be replaced. Accordingly, it is requested that a project be developed to replace the boiler.


T. HATCHER, P.E.

