

DATE OF INSPECTION

11 AUG - 26 AUG 1982

TYPE OF INSPECTION

A  INTERNAL & EXTERNAL B  INTERNAL & EXTERNAL WITH PRESSURE TEST C  OPERATIONAL

1. FROM  
 BASE MAINT. OFFICER  
 CAMP LEJEUNE, N. C.

14. CERTIFICATE ISSUED  YES  NO  
 EXPIRES 11 AUG 1983

2. TO  
 NAVFACENCOM  
 NORFOLK, VA

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

BOILER DATA

3. MANUFACTURER

KEWANEE Boiler CORP.

16. REASON FOR NOT ISSUING CERTIFICATE

4. PROPERTY NO.

77

5. MFG. SERIAL NO.

633741

6. MFG. MODEL NO.

M-55-KX

7. BUILDING NO.

1915

8. YEAR BUILT

1982

9. CAPACITY

550,000 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.

17. BOILER USE

HEATING

18. COMBUSTION CONTROL (Mfg. Name)

PEABODY GORDON PIATT

19. COMBUSTION

9.5 % CO<sub>2</sub> % EXCESS O<sub>2</sub>

20. FLUE GAS TEMPERATURE

AFTER BOILER 400 °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

STEAM PRESSURE GAUGE

25. MANUFACTURER

MARSHALL TOWN

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	PRESS ATOM - NOZZLE SPRAY	
30. FUEL GRADE	# 2	

31. INSPECTOR'S COMMENTS

NEW Boiler UNDER CONTRACT # N62470-81-B-3580

32. ATTACHMENT(S) (Check)

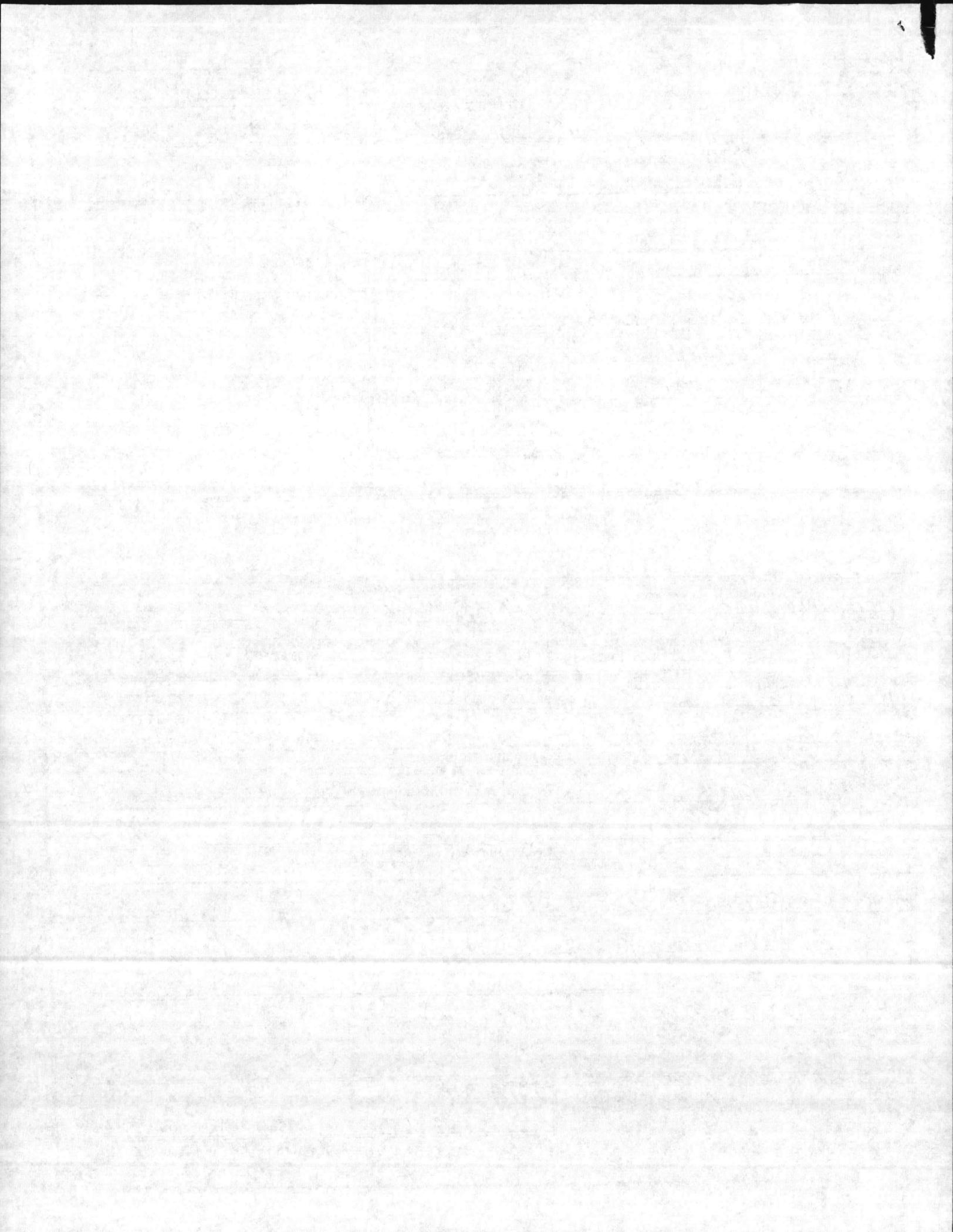
COPY OF INSPECTOR'S REPORT

SPECIAL COMMENTS

33. SIGNATURE

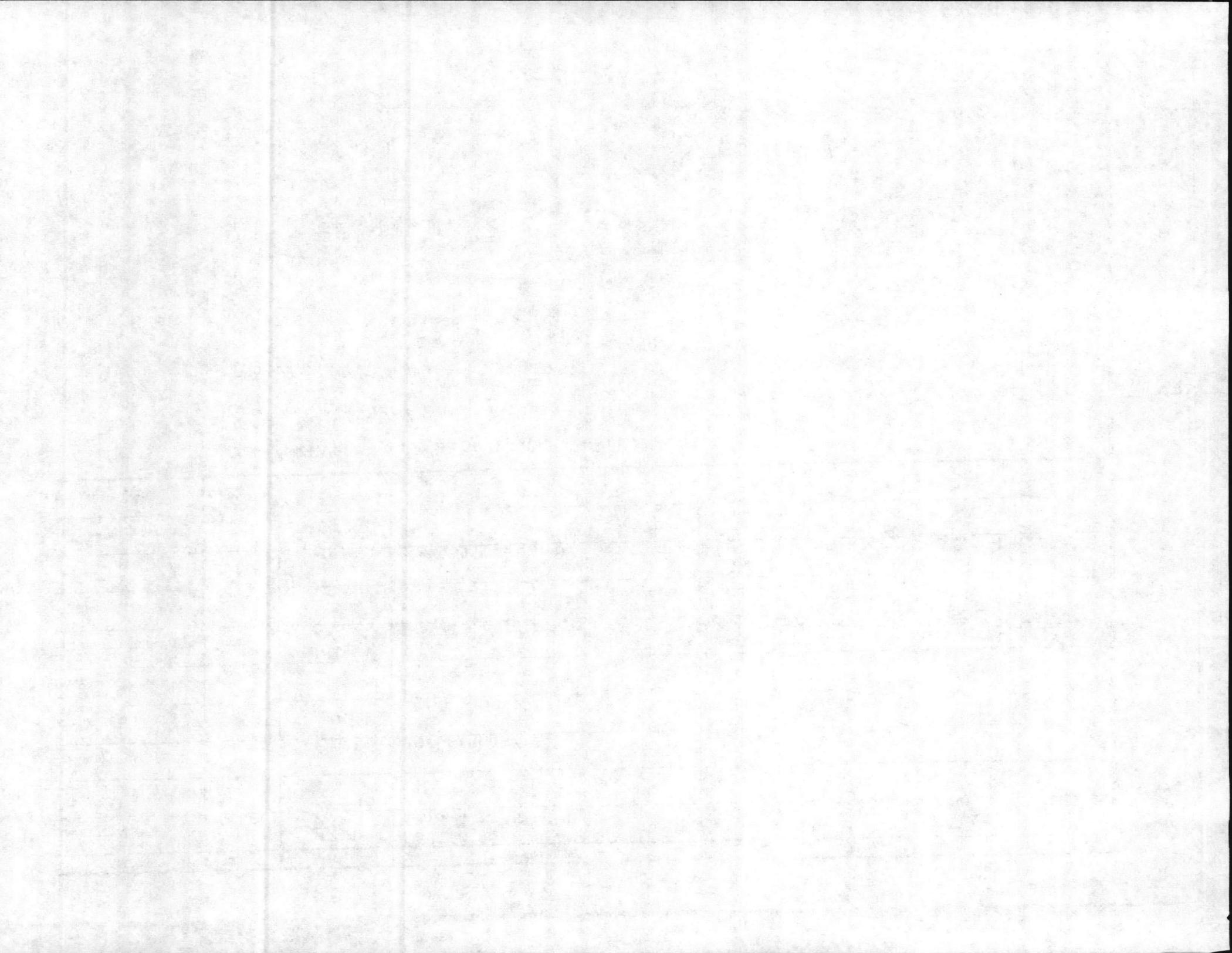
*R.M. Dillon*

BY DIRECTION



FITTING	NUMBER	SIZE	MANUFACTURER	TYPE	SETTING	RANGE	PRESSURE CLASS
SAFETY VALVES	1	3/4"	WATTS	MODEL M-3	30	BTU/HR 650,000	
STEAM OUTLET VALVES							
BLOW-OFF VALVES	1	1"	MILWAUKEE	GATE			200 WOG
FEEDWATER VALVES	1	1"	MILWAUKEE	Globe			150
WATER COLUMN							
FEEDWATER REGULATOR	1	3/4"	HERSEY BEECO	MODEL 335-1	12	10-25	50 PSI.
WATER GAGES							
STEAM GAGES	1		MARSHALLTOWN			0-60	TEMP. 60-260°F.
SOOT BLOWERS							
FUSIBLE PLUGS							

OIL BURNER - PEABODY GORDON - PIATT  
 CONTROLS - PEABODY GORDON - PIATT  
 LWCO - McDONNELL - MILLER



CONTRACT # N62470-81-B-3580

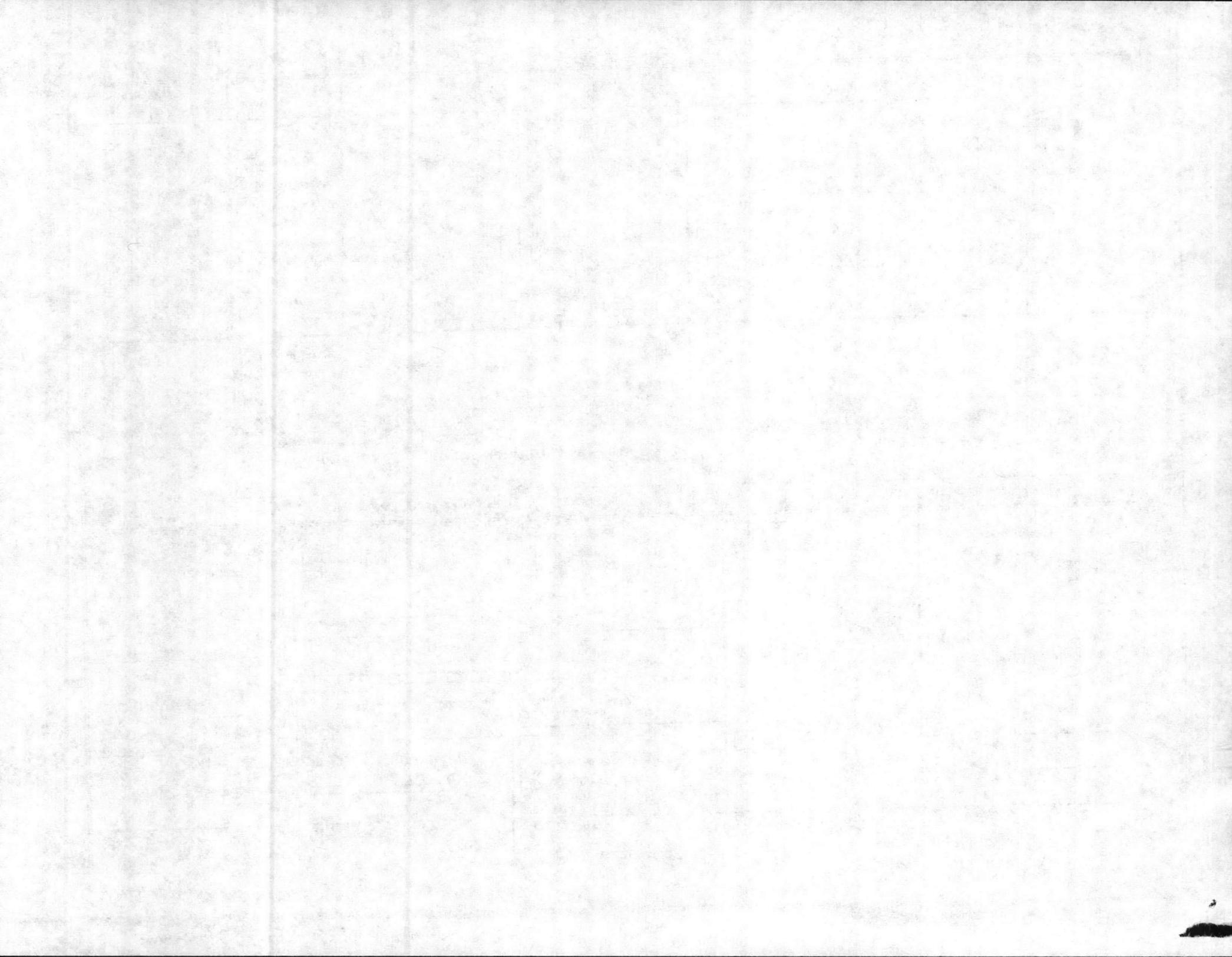
MFGRS. SERIAL NO. <b>633741</b>	MFGRS. MODEL NO. <b>M-55-KX</b>	MANUFACTURER <b>KEWANEE Boiler CORPORATION</b>	TYPE - M - PACKAGE	DATE OF SHEET <b>11-AUG-1982</b>
TYPE OF SUPERHEATER <b>NONE</b>	FURNACE VOLUME <b>60</b> CU. FT.	OPERATION <input checked="" type="checkbox"/> AUTOMATIC <input type="checkbox"/> SEMI-AUTOMATIC <input type="checkbox"/> MANUAL	LSE <input checked="" type="checkbox"/> EXPORT <input type="checkbox"/> ELEC. POWER GENERATION <input type="checkbox"/> LAID UP - WET <input type="checkbox"/> LAID UP - DRY	DATE BUILT <b>NEW</b>
TEMPERATURE AT SUPERHEATER OUTLET _____ °F	HEATING SURFACE (SQ. FT.) _____	PRESSURE (psig) <b>30</b> DESIGN <b>30</b> MAWP <b>12</b> INSTALLED WP	CAPACITY <b>16.4</b> HP	DATE INSTALLED <b>11 AUG. 1982</b>
NORMAL FEEDWATER TEMPERATURE _____ °F	BOILER _____ WATER WALL _____ ECONOMIC EM _____ SUPERHEATER _____	AIR HEATER <input type="checkbox"/> NONE <input type="checkbox"/> TUBULAR <input type="checkbox"/> REGENERATIVE <input type="checkbox"/> STEAM	_____ LB./HR. _____ EDR <b>550,000</b> BTU/HR.	BOILER TYPE <input type="checkbox"/> C.I. <input checked="" type="checkbox"/> WATER TUBE <input checked="" type="checkbox"/> FIRE TUBE
(See Reverse Side for Fittings)	DRUMS NO. _____ DIAMETER _____ IN. LENGTH _____ FT. _____ IN.			DRAFT <input type="checkbox"/> NATURAL <input checked="" type="checkbox"/> FORCED <input type="checkbox"/> INDUCED
	<input type="checkbox"/> RIVETED <input type="checkbox"/> FORGE WELDED <input type="checkbox"/> FUSION WELDED			PRODUCES <input type="checkbox"/> STEAM <input checked="" type="checkbox"/> LOW TEMP. WATER <input type="checkbox"/> HIGH TEMP. WATER

FUEL & FIRING EQUIPMENT IN SERVICE		ALTERNATE FUEL & FIRING EQUIPMENT	
FUEL COAL <input type="checkbox"/> ANTHRACITE <input type="checkbox"/> BITUMINOUS GAS <input type="checkbox"/> NATURAL <input type="checkbox"/> MANUFACTURED	OIL <input checked="" 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		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 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. <b>77</b>	BUILDING OR LOCATION <b>BLDG. 1915</b>	ACTIVITY <b>BOILER 77</b>	<b>MCBCL</b>
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DATA RECORD SHEET - BOILERS  
 NAVFAC 9-11014/40 (9-69) Supersedes NAVDOCKS 2509  
 S/N 0105-003-7010



**INSPECTION REPORT-BOILERS**  
 NAVFAC 9-11014/41 (3/67)  
 Supersedes NAVDOCKS 2544  
 S/N 0195-LF-004-0000

DATE OF INSPECTION  
**5 NOV 1980**

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. CERTIFICATE ISSUED  YES  NO  
 EXPIRES **28 AUG 1981**  
 15. BOILER INSPECTOR  
*Jesse L. Selbum*  
 NAVY OR NATIONAL BOARD NO  
**NAVFAC 225**  
 16. REASON FOR NOT ISSUING CERTIFICATE

**BOILER DATA**

3. MANUFACTURER  
**AMERICAN RADIATOR**  
 4. PROPERTY NO. **77** 5. MFG. SERIAL NO. **3970** 6. MFG. MODEL NO. **F-X**  
 7. BUILDING NO. **1915** 8. YEAR BUILT 9. CAPACITY **500,000 BTU/HR**  
 10. FUEL (Check) 11. PRESSURE  
 COAL  OIL  GAS  
 DESIGNED **30** psi OPERATING **12** psi TEST **45** psi  
 12. FEED WATER TREATMENT 13. TYPE  
 SATISFACTORY  UNSATISFACTORY  
 WATER TUBE  FIRE TUBE  C. I.

17. BOILER USE **HEATING** 18. COMBUSTION CONTROL (Mfg. Name) **HONEYWELL**  
 19. COMBUSTION **6.0** % CO<sub>2</sub> % EXCESS O<sub>2</sub> 20. FLUE GAS TEMPERATURE  
 AFTER BOILER **550** °F : AFTER HEAT TRAP \_\_\_\_\_ °F

**SAFETY DEVICES  
 SAFETY VALVES**

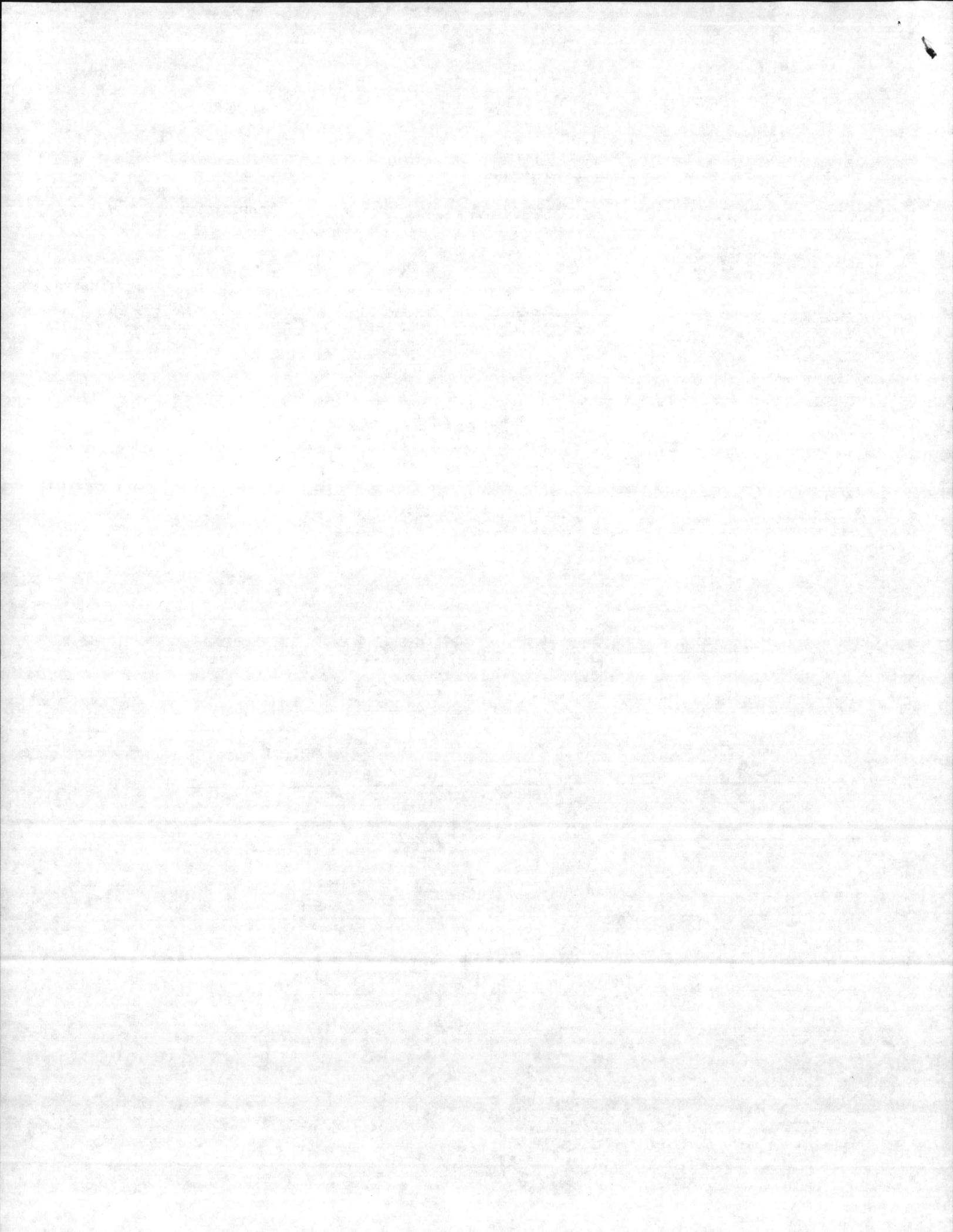
21. MANUFACTURER **WATTS** 22. NUMBER AND SIZE **1-1"** 23. PSI SET. **30** 24. CONDITION **GOOD**  
**STEAM PRESSURE GAUGE**  
 25. MANUFACTURER **MARSH** 26. CORRECTIONS  
 WATER LEG CONSTANT \_\_\_\_\_ psi; OTHER \_\_\_\_\_ psi  
 27. REASON IF NOT TESTED

**FIRING EQUIPMENT**

ITEM	IN SERVICE	ALTERNATE
28. MANUFACTURER	<b>UNDERWRITERS</b>	<b>18B.</b>
29. TYPE	<b>NOZZLE</b>	
30. FUEL GRADE	<b>#2</b>	
31. INSPECTOR'S COMMENTS		

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

33. SIGNATURE  
*R. M. Selbum*  
 BY DIRECTION



DATE: 29 December 1980

ACTIVITY: Marine Corps Base, Camp Lejeune, North Carolina

BUILDING NO: 1915 BOILER NO: 77

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:

1. Subject boiler is of cast iron construction. A leak in the front section was repaired by welding approximately in 1974.

2. The insulation and outer casing leaks flue gas into the boiler room.

3. The history of combustion efficiency is generally below 80 percent.

4. Central heating and air conditioning was recently installed in over 50 percent of this building.

5. Based on the above findings, I recommend this boiler be replaced with a smaller unit.



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

DATE OF INSPECTION  
 12-2-76

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  
 Commandant Hdqtrs Marine Corps (Code LFF)

14. CERTIFICATE ISSUED  YES  NO  
 EXPIRE 5-3-77  
 15. BOILER INSPECTOR  
 E.O. Mobley

**BOILER DATA**

3. MANUFACTURER  
 American Radiator

4. PROPERTY NO. 77	5. MFG. SERIAL NO. 3970	6. MFG. MODEL NO. F-X
7. BUILDING NO. 1915	8. YEAR BUILT 1966	9. CAPACITY 500,000 BTU/HR

10. FUEL (Check)  
 COAL  OIL  GAS

11. PRESSURE  
 DESIGNED 30 psi OPERATING 12 psi TEST - psi

12. FEED WATER TREATMENT  
 SATISFACTORY  UNSATISFACTORY

13. TYPE  
 WATER TUBE  FIRE TUBE  C. I.

NAVY OR NATIONAL BOARD NO.  
 NAVFAC 101  
 16. REASON FOR NOT ISSUING CERTIFICATE

17. BOILER USE  
 Heating

18. COMBUSTION CONTROL (Mfg. Name)  
 Honeywell

19. COMBUSTION  
 5.5 % CO<sub>2</sub> % EXCESS O<sub>2</sub>

20. FLUE GAS TEMPERATURE  
 AFTER BOILER 500 °F ; AFTER HEAT TRAP °F

**SAFETY DEVICES  
 SAFETY VALVES**

21. MANUFACTURER  
 McDonnell Miller

22. NUMBER AND SIZE  
 1-1"

23. PSI SETTING  
 30

24. CONDITION  
 Good

**STEAM PRESSURE GAUGE**

25. MANUFACTURER  
 Marsh

26. CORRECTIONS  
 WATER LEG CONSTANT \_\_\_\_\_ psi; OTHER \_\_\_\_\_ psi

27. REASON IF NOT TESTED

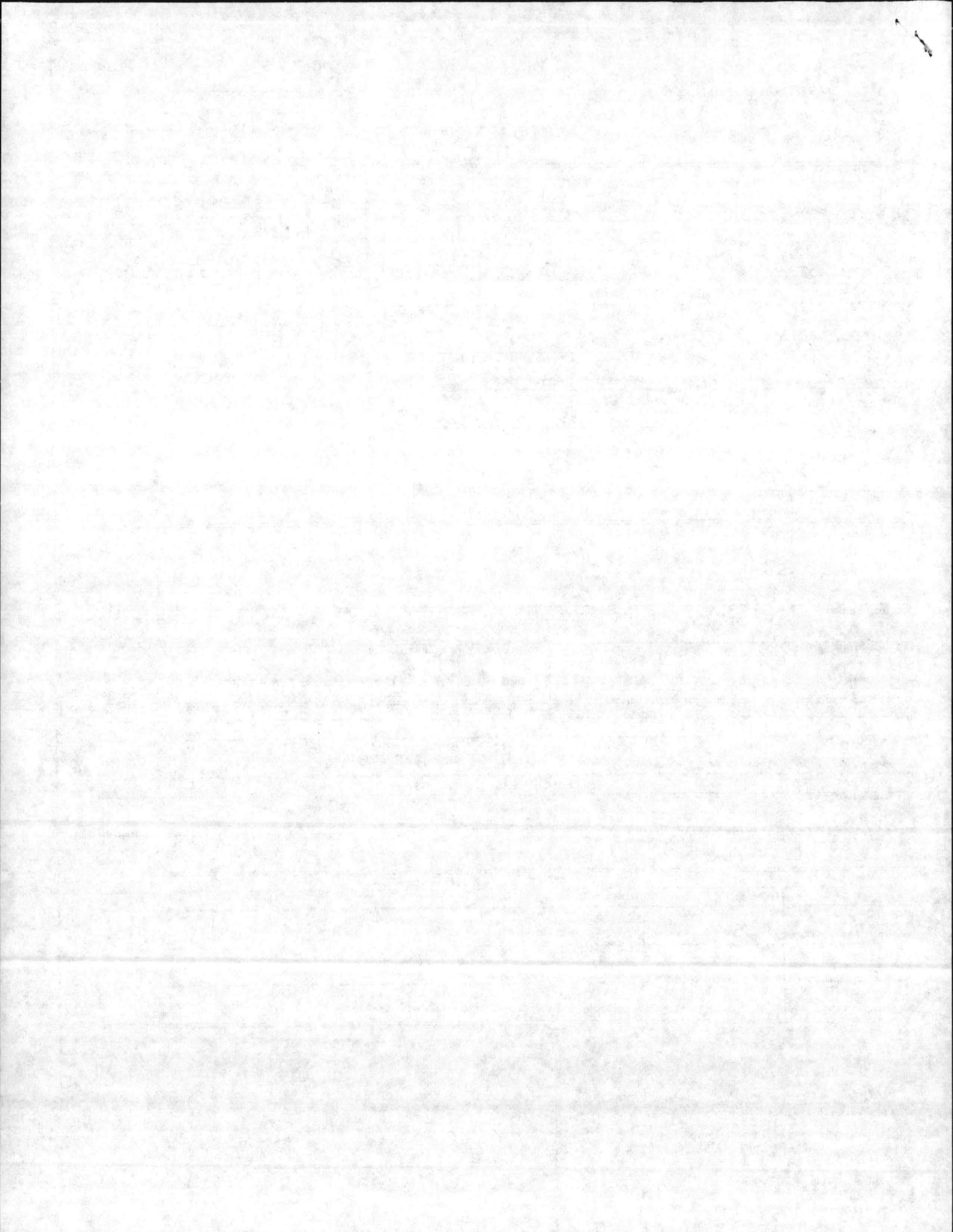
**FIRING EQUIPMENT**

ITEM	IN SERVICE	ALTERNATE
28. MANUFACTURER	Underwriters Lab.	None
29. TYPE	Nozzle, spray - Press. Atom.	
30. FUEL GRADE	#2	

31. INSPECTOR'S COMMENTS

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

33. SIGNATURE  
 Daniel S. White  
 BY DIRECTION



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

DATE OF INSPECTION

5-7-76

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

Commandant Hykes Marine Corps (Code LFF)

14.

CERTIFICATE ISSUED  YES  NO

Expires 12-16-76

15. BOILER INSPECTOR

E.O. Moxley

NAVY OR NATIONAL BOARD NO

NAVFAC 101

16. REASON FOR NOT ISSUING CERTIFICATE

**BOILER DATA**

3. MANUFACTURER

American Radiator

4. PROPERTY NO.

77

5. MFG. SERIAL NO.

3970

6. MFG. MODEL NO.

F-X

7. BUILDING NO.

1915

8. YEAR BUILT

1966

9. CAPACITY

500,000 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.

17. BOILER USE

Heating

18. COMBUSTION CONTROL (Mfg. Name)

Moneywell

19. COMBUSTION

20. FLUE GAS TEMPERATURE

% CO<sub>2</sub>

% EXCESS O<sub>2</sub>

AFTER BOILER

°F

AFTER HEAT TRAP

°F

**SAFETY DEVICES**

**SAFETY VALVES**

21. MANUFACTURER

Watts

22. NUMBER AND SIZE

1-1"

23. PSI SETTING

24. CONDITION

25. MANUFACTURER

Marsh

26. CORRECTIONS

WATER LEG CONSTANT

psi

OTHER

psi

27. REASON IF NOT TESTED

**FIRING EQUIPMENT**

ITEM	IN SERVICE	ALTERNATE
28. MANUFACTURER	Underwriters Lab	None
29. TYPE	Nozzle, Press. atom.	
30. FUEL GRADE	#2	

31. INSPECTOR'S COMMENTS

OK.

32. ATTACHMENT(S) (Check)

COPY OF INSPECTOR'S REPORT

SPECIAL COMMENTS

33. SIGNATURE

Daniel L. White

BY DIRECTION

