

ATTACHMENT

**BOILER INSPECTION REPORTS
AF1222**

**REDSTONE ARSENAL VISIT NO. 1
NOVEMBER 5-6, 2003**

DECEMBER 10, 2003

BOILER OR PRESSURE VESSEL INSPECTION REPORT

HSBCT CONTRACT NUMBER

1. TYPE OF INSPECTION	
Internal and External	<input type="checkbox"/> BA <input type="checkbox"/> VA
Internal/External with Hydrostatic Test (same day)	<input type="checkbox"/> BB <input type="checkbox"/> VB
External Under Operation	<input checked="" type="checkbox"/> BC <input type="checkbox"/> VC
External Under Hydrostatic Test	<input type="checkbox"/> BD <input type="checkbox"/> VD
Expansion/Receiver Tank or Internal with UT	<input type="checkbox"/> BE <input type="checkbox"/> VE

2. INSTALLATION <i>Redstone Arsenal</i>		2A. CITY <i>Huntsville</i>		3. STATE <i>Al.</i>	4. ZIP CODE <i>35808</i>	5. PLANT OR BLDG. <i>115</i>	
6. DATE OF INSPECTION <i>11-5-03</i>		7. DATE OF LAST INSPECTION <i>4-23-03</i>		8. DELIVERY ORDER NO.		9. CONTRACT NO.	
10. OBJECT <input checked="" type="checkbox"/> Fire Tube <input type="checkbox"/> Cast Iron <input type="checkbox"/> Water Tube <input type="checkbox"/> Expansion Tank <input type="checkbox"/> Pressure Vessel						11. PLANT <input type="checkbox"/> Manned <input checked="" type="checkbox"/> Unmanned	
11A. PRESSURE PREVIOUS INSPECTION <i>0</i>		11B. PRESSURE THIS INSPECTION <i>30</i>		12A. YEAR BUILT <i>1986</i>		12B. YEAR INSTALLED <i>1986</i>	
13A. PRIMARY FUEL (Boiler) <i>NAT. GAS</i>		13B. SECONDARY FUEL (Boiler) <i>oil</i>		14. DESIGN WORKING PRESSURE OR TEMPERATURE <i>150</i>			
15. MANUFACTURER <i>CONTINENTAL</i>		16. MANUFACTURER'S RATING MBTU/LBS./HR <i>5021 MBTU/hr</i>		17. NATIONAL BOARD NUMBER <i>NBS190</i>		18. USAF NUMBER <i>#1</i>	
19. USE <input type="checkbox"/> Power <input checked="" type="checkbox"/> Steam Heating <input type="checkbox"/> Process <input type="checkbox"/> Storage <input type="checkbox"/> HTHW Heating <input type="checkbox"/> Heat Exchange <input type="checkbox"/> Other (Specify)							
20. METHOD OF FIRING (Boilers) <i>Auto Burner</i>		21. SAFETY/RELIEF VALVES SETTING <i>150</i>		22. EXPLAIN IF PRESSURE CHANGED		23. PRESSURE GAGE TESTED <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
24. PURPOSE OF HYDROSTATIC TEST <input type="checkbox"/> New <input type="checkbox"/> Retest <input type="checkbox"/> Repair		25. LAST HYDROSTATIC TEST Date: <i>unk</i> PSI:		26. HYDROSTATIC TEST <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Date: PSI:			

STATEMENT OF BASE CIVIL ENGINEER

27. REPAIRS MADE SINCE LAST INSPECTION
 None Other (Specify)

INTERNAL INSPECTION

28. DESCRIBE INSPECTION FULLY (State location of any damage or deposits, i.e., scale, grease, oil, etc.; any corrosion, pitting, grooving, cracking or lamination; any evidence of overheating, broken or loose items, etc.)
TYPE "C" INSPECTION

EXTERNAL INSPECTION

29. CONDITION OF BOILERS, VESSELS AND PLANT (Describe fully and state location of any corrosion, leakages, evidence of overheating, soot or other destructive accumulations, or safety or ASME/NB violations, etc.)
OUTER CASING PULLED LOOSE AROUND BOTTOM

NO MANUAL RESET ON LWCO

30. SETTINGS, LININGS, SUPPORTS AND BAFFLES
Good

INSPECTION OF SAFETY DEVICE

31. SAFETY/RELIEF VALVES	32. SIZE <i>Number: 1-1/4, 1-1"</i>	33. TOTAL CAPACITY CFM: BTU/HR: LB/HR: <i>6909</i>	34. CONDITION AND HOW TESTED <i>TEST SAT BY HAND</i>
35. PRESSURE GAGES	36. CORRECTION TAKEN (If none give reason) <i>SAT</i>		
37. OTHER APPLIANCES	38. CONDITION <i>CLEAN & CLEAR</i>		
39. REGULATORS AND CONTROLS	40. CONDITION <i>LWCO TEST SAT</i>		

41. ASME CODES
Does plant comply with code, welding, materials, configuration, etc? Yes No (Explain)

INSPECTOR STATEMENT

2. WAS BOILER OR VESSEL PREPARED FOR THOROUGH EXAMINATION (If NO, state what was not and why in Remarks and Recommendations of Inspector.)

Yes No

3. WAS BOILER OR VESSEL ENTERED FOR THE INSPECTION (If NO, state what was not and why in Remarks and Recommendations of Inspector.)

Yes No

REMARKS AND RECOMMENDATIONS OF THE INSPECTOR

4. LIST ALL DEFICIENCIES TO BE CORRECTED OR REPAIRED (Use a continuation sheet if necessary.)

The deteriorated sheet metal and insulation should be replaced to prevent external corrosion of the boiler shell.

ASME CSD-1, CW140 REQUIRES 2 LWCO'S. ONE MUST BE EQUIPED WITH A MANUAL RESET

R.D.P. per FWL 11/30/03

5. TYPE OR PRINT NAME OF INSPECTOR

Fred LAWRENCE

5A. SIGNATURE OF INSPECTOR

Fred Lawrence

45B. DATE OF SIGNATURE

11-5-03

45C. INSPECTOR'S NATIONAL BOARD NO.

NB11658

6. PRINT NAME AND TITLE OF REPRESENTATIVE ACCOMPANYING INSPECTOR

6A. SIGNATURE

Dominic Beach

46B. DATE OF SIGNATURE

11-6-03

46C. REPRESENTATIVE'S TELEPHONE NUMBER

ACTION TAKEN ON RECOMMENDATIONS

47. DATE AND ACTION TAKEN OR TO BE TAKEN

48. TYPE OR PRINT NAME, TITLE AND GRADE OF OFFICER IN CHARGE

Mellen Leslie G. CDR BS-13

49. SIGNATURE OF OFFICER IN CHARGE

Mellen Leslie G.

50. DATE OF SIGNATURE

11/6/03

BOILER OR PRESSURE VESSEL INSPECTION REPORT

1. TYPE OF INSPECTION	
Internal and External	<input checked="" type="checkbox"/> BA <input type="checkbox"/> VA
Internal/External with Hydrostatic Test (same day)	<input type="checkbox"/> BB <input type="checkbox"/> VB
External Under Operation	<input type="checkbox"/> BC <input type="checkbox"/> VC
External Under Hydrostatic Test	<input type="checkbox"/> BD <input type="checkbox"/> VD
Expansion/Receiver Tank or Internal with UT	<input type="checkbox"/> BE <input type="checkbox"/> VE

HSBCT CONTRACT NUMBER

1. INSTALLATION <i>Redstone Arsenal</i>		2A. CITY <i>Huntsville</i>	3. STATE <i>Al.</i>	4. ZIP CODE <i>35808</i>	5. PLANT OR BLDG. <i>115</i>
6. DATE OF INSPECTION <i>11-5-03</i>	7. DATE OF LAST INSPECTION <i>4-23-03</i>	8. DELIVERY ORDER NO.		9. CONTRACT NO.	
10. OBJECT <input checked="" type="checkbox"/> Fire Tube <input type="checkbox"/> Cast Iron <input type="checkbox"/> Water Tube <input type="checkbox"/> Expansion Tank <input type="checkbox"/> Pressure Vessel			11. PLANT <input type="checkbox"/> Manned <input checked="" type="checkbox"/> Unmanned		
11A. PRESSURE PREVIOUS INSPECTION <i>70</i>	11B. PRESSURE THIS INSPECTION <i>0</i>	12A. YEAR BUILT <i>1981</i>	12B. YEAR INSTALLED <i>1981</i>		
13A. PRIMARY FUEL (Boiler) <i>NAT. GAS</i>	13B. SECONDARY FUEL (Boiler) <i>oil</i>	14. DESIGN WORKING PRESSURE OR TEMPERATURE <i>150</i>			
15. MANUFACTURER <i>KEWANEE</i>	16. MANUFACTURER'S RATING MBTU /LBS. / HR <i>150HP</i>	17. NATIONAL BOARD NUMBER <i>NR 34852</i>	18. USAF NUMBER <i>#1</i>		
19. USE <input type="checkbox"/> Power <input checked="" type="checkbox"/> Steam Heating <input type="checkbox"/> Process <input type="checkbox"/> Storage <input type="checkbox"/> HTHW Heating <input type="checkbox"/> Heat Exchange <input type="checkbox"/> Other (Specify)					
20. METHOD OF FIRING (Boilers) <i>AUTO BURNER</i>	21. SAFETY/RELIEF VALVES SETTING <i>75 PSI</i>	22. EXPLAIN IF PRESSURE CHANGED		23. PRESSURE GAGE TESTED <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
24. PURPOSE OF HYDROSTATIC TEST <input type="checkbox"/> New <input type="checkbox"/> Retest <input type="checkbox"/> Repair	25. LAST HYDROSTATIC TEST Date: <i>unk</i> PSI:	26. HYDROSTATIC TEST <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Date: _____ PSI:			

STATEMENT OF BASE CIVIL ENGINEER

27. REPAIRS MADE SINCE LAST INSPECTION
 None Other (Specify)

INTERNAL INSPECTION

28. DESCRIBE INSPECTION FULLY (State location of any damage or deposits, i.e., scale, grease, oil, etc.; any corrosion, pitting, grooving, cracking or lamination; any evidence of overheating, broken or loose items, etc.)
INDICATIONS OF OXYGEN CONTAMINATION ON ALL WATERSIDE SURFACES AND IN LWCO FLOAT CHAMBER

EXTERNAL INSPECTION

29. CONDITION OF BOILERS, VESSELS AND PLANT (Describe fully and state location of any corrosion, leakages, evidence of overheating, soot or other destructive accumulations, or safety or ASME/NB violations, etc.)
No Adverse Conditions Noted

30. SETTINGS, LININGS, SUPPORTS AND BAFFLES
Good

INSPECTION OF SAFETY DEVICE

31. SAFETY/RELIEF VALVES	32. SIZE Number: <i>2-1 1/4"</i>	33. TOTAL CAPACITY CFM: _____ BTU/HR: _____ LB/HR: <i>4,736</i>	34. CONDITION AND HOW TESTED <i>Not tested, SAT</i>
35. PRESSURE GAGES	36. CORRECTION TAKEN (If none give reason) <i>SAT</i>		
37. OTHER APPLIANCES	38. CONDITION <i>CLEAN & CLEAR</i>		
39. REGULATORS AND CONTROLS	40. CONDITION <i>Visually SAT. Not tested, boiler idle</i>		

41. ASME CODES
Does plant comply with code, welding, materials, configuration, etc? Yes No (Explain)

INSPECTOR STATEMENT

2. WAS BOILER OR VESSEL PREPARED FOR THOROUGH EXAMINATION (If NO, state what was not and why in Remarks and Recommendations of Inspector.)

Yes No

3. WAS BOILER OR VESSEL ENTERED FOR THE INSPECTION (If NO, state what was not and why in Remarks and Recommendations of Inspector.)

Yes No

REMARKS AND RECOMMENDATIONS OF THE INSPECTOR

4. LIST ALL DEFICIENCIES TO BE CORRECTED OR REPAIRED (Use a continuation sheet if necessary.)

The proper operation of the deaerator should be verified. Proper chemical treatment and blowdowns must be administered to control scale and oxygen.

5. TYPE OR PRINT NAME OF INSPECTOR

Fred LAWRENCE

5A. SIGNATURE OF INSPECTOR

Fred Lawrence

45B. DATE OF SIGNATURE

11-5-03

45C. INSPECTOR'S NATIONAL BOARD NO.

NB11658

6. PRINT NAME AND TITLE OF REPRESENTATIVE ACCOMPANYING INSPECTOR

6A. SIGNATURE

Donnie Beach

46B. DATE OF SIGNATURE

11-6-03

46C. REPRESENTATIVE'S TELEPHONE NUMBER

ACTION TAKEN ON RECOMMENDATIONS

17. DATE AND ACTION TAKEN OR TO BE TAKEN

48. TYPE OR PRINT NAME, TITLE AND GRADE OF OFFICER IN CHARGE

Melissa Leslie G. CDR GS-13

49. SIGNATURE OF OFFICER IN CHARGE

Melissa G. Leslie

50. DATE OF SIGNATURE

11/6/03

**BOILER OR PRESSURE VESSEL
INSPECTION REPORT**

1. TYPE OF INSPECTION	
Internal and External	<input type="checkbox"/> BA <input type="checkbox"/> VA
Internal/External with Hydrostatic Test (same day)	<input type="checkbox"/> BB <input type="checkbox"/> VB
External Under Operation	<input checked="" type="checkbox"/> BC <input type="checkbox"/> VC
External Under Hydrostatic Test	<input type="checkbox"/> BD <input type="checkbox"/> VD
Expansion/Receiver Tank or Internal with UT	<input type="checkbox"/> BE <input type="checkbox"/> VE

HSBCT CONTRACT NUMBER

1. INSTALLATION <i>Redstone Arsenal</i>		2A. CITY <i>Huntsville</i>	3. STATE <i>AL</i>	4. ZIP CODE <i>35808</i>	5. PLANT OR BLDG. <i>115</i>
6. DATE OF INSPECTION <i>11-5-03</i>		7. DATE OF LAST INSPECTION <i>4-23-03</i>		8. DELIVERY ORDER NO.	
9. OBJECT <input checked="" type="checkbox"/> Fire Tube <input type="checkbox"/> Cast Iron <input type="checkbox"/> Water Tube <input type="checkbox"/> Expansion Tank <input type="checkbox"/> Pressure Vessel		11. PLANT <input type="checkbox"/> Manned <input checked="" type="checkbox"/> Unmanned			
10A. PRESSURE PREVIOUS INSPECTION <i>0</i>	11B. PRESSURE THIS INSPECTION <i>60</i>	12A. YEAR BUILT <i>2001</i>	12B. YEAR INSTALLED <i>2001</i>		
13A. PRIMARY FUEL (Boiler) <i>NAT. GAS</i>	13B. SECONDARY FUEL (Boiler) <i>N/A</i>	14. DESIGN WORKING PRESSURE OR TEMPERATURE <i>150</i>			
15. MANUFACTURER <i>Cleaver Brooks</i>	16. MANUFACTURER'S RATING MBTU / LBS. / HR <i>3,299 16/hr</i>	17. NATIONAL BOARD NUMBER <i>NB 5613</i>	18. USAF NUMBER <i>#3</i>		
9. USE <input type="checkbox"/> Power <input checked="" type="checkbox"/> Steam Heating <input type="checkbox"/> Process <input type="checkbox"/> Storage <input type="checkbox"/> HTHW Heating <input type="checkbox"/> Heat Exchange <input type="checkbox"/> Other (Specify)					
20. METHOD OF FIRING (Boilers) <i>Auto Burner</i>	21. SAFETY/RELIEF VALVES SETTING <i>150</i>	22. EXPLAIN IF PRESSURE CHANGED		23. PRESSURE GAGE TESTED <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
24. PURPOSE OF HYDROSTATIC TEST <input type="checkbox"/> New <input type="checkbox"/> Ratest <input type="checkbox"/> Repair	25. LAST HYDROSTATIC TEST Date: <i>N/A</i> PSI:		28. HYDROSTATIC TEST <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Date: PSI:		

STATEMENT OF BASE CIVIL ENGINEER

27. REPAIRS MADE SINCE LAST INSPECTION
 None Other (Specify)

INTERNAL INSPECTION

23. DESCRIBE INSPECTION FULLY (State location of any damage or deposits, i.e., scale, grease, oil, etc.; any corrosion, pitting, grooving, cracking or lamination; any evidence of overheating, broken or loose items, etc.)
Type "C" inspection

EXTERNAL INSPECTION

29. CONDITION OF BOILERS, VESSELS AND PLANT (Describe fully and state location of any corrosion, leakages, evidence of overheating, soot or other destructive accumulations, or safety or ASME/NB violations, etc.)
No adverse conditions noted

30. SETTINGS, LININGS, SUPPORTS AND BAFFLES

Good

INSPECTION OF SAFETY DEVICE

31. SAFETY/RELIEF VALVES	32. SIZE Number: <i>1-1/4"</i>	33. TOTAL CAPACITY CFM: BTU/HR: LB/HR: <i>4,236</i>	34. CONDITION AND HOW TESTED <i>Test SAT by hand</i>
35. PRESSURE GAGES	36. CORRECTION TAKEN (if none give reason) <i>SAT</i>		
37. OTHER APPLIANCES	38. CONDITION <i>Clean & Clear</i>		
39. REGULATORS AND CONTROLS	40. CONDITION <i>LWCO AND FLAME SENSOR Test SAT.</i>		

41. ASME CODES

Does plant comply with code, welding, materials, configuration, etc? Yes No (Explain)

INSPECTOR STATEMENT

2. WAS BOILER OR VESSEL PREPARED FOR THOROUGH EXAMINATION (If NO, state what was not and why in Remarks and Recommendations of Inspector.)
 Yes No

3. WAS BOILER OR VESSEL ENTERED FOR THE INSPECTION (If NO, state what was not and why in Remarks and Recommendations of Inspector.)
 Yes No

REMARKS AND RECOMMENDATIONS OF THE INSPECTOR

4. LIST ALL DEFICIENCIES TO BE CORRECTED OR REPAIRED (Use a continuation sheet if necessary.)

No recommendations

5. TYPE OR PRINT NAME OF INSPECTOR

Fred Lawrence

5A. SIGNATURE OF INSPECTOR

Fred Lawrence

45B. DATE OF SIGNATURE

11-5-03

45C. INSPECTOR'S NATIONAL BOARD NO.

NB11658

6. PRINT NAME AND TITLE OF REPRESENTATIVE ACCOMPANYING INSPECTOR

6A. SIGNATURE

Donnie Bowden

46B. DATE OF SIGNATURE

11-6-03

46C. REPRESENTATIVE'S TELEPHONE NUMBER

ACTION TAKEN ON RECOMMENDATIONS

17. DATE AND ACTION TAKEN OR TO BE TAKEN

48. TYPE OR PRINT NAME, TITLE AND GRADE OF OFFICER IN CHARGE

Mullen Leslie G. COR 65-13

49. SIGNATURE OF OFFICER IN CHARGE

Leslie G. Mullen

50. DATE OF SIGNATURE

11/6/03

BOILER OR PRESSURE VESSEL INSPECTION REPORT

HSBCT CONTRACT NUMBER

1. TYPE OF INSPECTION	
Internal and External	<input type="checkbox"/> BA <input type="checkbox"/> VA
Internal/External with Hydrostatic Test (same day)	<input type="checkbox"/> BB <input type="checkbox"/> VB
External Under Operation	<input checked="" type="checkbox"/> BC <input type="checkbox"/> VC
External Under Hydrostatic Test	<input type="checkbox"/> BD <input type="checkbox"/> VD
Expansion/Receiver Tank or Internal with UT	<input type="checkbox"/> BE <input type="checkbox"/> VE

2. INSTALLATION <i>Redstone Arsenal</i>		2A. CITY <i>Huntsville</i>	3. STATE <i>AL</i>	4. ZIP CODE <i>35808</i>	5. PLANT OR BLDG. <i>3438</i>
6. DATE OF INSPECTION <i>11-5-03</i>	7. DATE OF LAST INSPECTION <i>4-23-03</i>	8. DELIVERY ORDER NO.		9. CONTRACT NO.	
10. OBJECT <input checked="" type="checkbox"/> Fire Tube <input type="checkbox"/> Cast Iron <input type="checkbox"/> Water Tube <input type="checkbox"/> Expansion Tank <input type="checkbox"/> Pressure Vessel			11. PLANT <input type="checkbox"/> Manned <input checked="" type="checkbox"/> Unmanned		
11A. PRESSURE PREVIOUS INSPECTION <i>0</i>	11B. PRESSURE THIS INSPECTION <i>35</i>	12A. YEAR BUILT <i>2001</i>	12B. YEAR INSTALLED <i>2001</i>		
13A. PRIMARY FUEL (Boiler) <i>oil</i>	13B. SECONDARY FUEL (Boiler) <i>N/A</i>	14. DESIGN WORKING PRESSURE OR TEMPERATURE <i>150</i>			
15. MANUFACTURER <i>Cleaver Brooks</i>	16. MANUFACTURER'S RATING MBTU /LBS. / HR <i>1,649 16/HR</i>	17. NATIONAL BOARD NUMBER <i>NB 5455</i>	18. USAF NUMBER <i>#1</i>		
19. USE <input type="checkbox"/> Power <input checked="" type="checkbox"/> Steam Heating <input type="checkbox"/> Process <input type="checkbox"/> Storage <input type="checkbox"/> HTHW Heating <input type="checkbox"/> Heat Exchange <input type="checkbox"/> Other (Specify)					
20. METHOD OF FIRING (Boilers) <i>Nuro Burner</i>	21. SAFETY/RELIEF VALVES SETTING <i>150</i>	22. EXPLAIN IF PRESSURE CHANGED _____		23. PRESSURE GAGE TESTED <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
24. PURPOSE OF HYDROSTATIC TEST <input type="checkbox"/> New <input type="checkbox"/> Retest <input type="checkbox"/> Repair	25. LAST HYDROSTATIC TEST Date: <i>N/A</i> PSI:	26. HYDROSTATIC TEST <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Date: _____ PSI:			

STATEMENT OF BASE CIVIL ENGINEER

27. REPAIRS MADE SINCE LAST INSPECTION
 None Other (Specify)

INTERNAL INSPECTION

28. DESCRIBE INSPECTION FULLY (State location of any damage or deposits, i.e., scale, grease, oil, etc.; any corrosion, pitting, grooving, cracking or lamination; any evidence of overheating, broken or loose items, etc.)
Not Applicable Type "C" inspection

EXTERNAL INSPECTION

29. CONDITION OF BOILERS, VESSELS AND PLANT (Describe fully and state location of any corrosion, leakages, evidence of overheating, soot or other destructive accumulations, or safety or ASME/NB violations, etc.)
No adverse conditions

30. SETTINGS, LININGS, SUPPORTS AND BAFFLES

Good

INSPECTION OF SAFETY DEVICE

31. SAFETY/RELIEF VALVES	32. SIZE Number: <i>1-1"</i>	33. TOTAL CAPACITY CFM: _____ BTU/HR: _____ LB/HR: <i>2582</i>	34. CONDITION AND HOW TESTED <i>test SAT by hand</i>
35. PRESSURE GAGES	36. CORRECTION TAKEN (if none give reason) <i>SAT</i>		
37. OTHER APPLIANCES	38. CONDITION <i>Clean & Clear</i>		
39. REGULATORS AND CONTROLS	40. CONDITION <i>LWCO & FLAME SENSOR test SAT</i>		

41. ASME CODES

Does plant comply with code, welding, materials, configuration, etc? Yes No (Explain)

INSPECTOR STATEMENT

2. WAS BOILER OR VESSEL PREPARED FOR THOROUGH EXAMINATION (If NO, state what was not and why in Remarks and Recommendations of Inspector.)

Yes No

3. WAS BOILER OR VESSEL ENTERED FOR THE INSPECTION (If NO, state what was not and why in Remarks and Recommendations of Inspector.)

Yes No

REMARKS AND RECOMMENDATIONS OF THE INSPECTOR

4. LIST ALL DEFICIENCIES TO BE CORRECTED OR REPAIRED (Use a continuation sheet if necessary.)

No recommendations

5. TYPE OR PRINT NAME OF INSPECTOR

Fred Lawrence

5A. SIGNATURE OF INSPECTOR

45B. DATE OF SIGNATURE

45C. INSPECTOR'S NATIONAL BOARD NO.

Fred Lawrence

11-5-03

NB 11658

6. PRINT NAME AND TITLE OF REPRESENTATIVE ACCOMPANYING INSPECTOR

6A. SIGNATURE

46B. DATE OF SIGNATURE

46C. REPRESENTATIVE'S TELEPHONE NUMBER

Donnie Boudan

11-6-03

ACTION TAKEN ON RECOMMENDATIONS

17. DATE AND ACTION TAKEN OR TO BE TAKEN

48. TYPE OR PRINT NAME, TITLE AND GRADE OF OFFICER IN CHARGE

Miller bobie G. COR 65-13

49. SIGNATURE OF OFFICER IN CHARGE

50. DATE OF SIGNATURE

Bob A Miller

11/6/03

BOILER OR PRESSURE VESSEL INSPECTION REPORT

HSBCT CONTRACT NUMBER

1. TYPE OF INSPECTION	
Internal and External	<input checked="" type="checkbox"/> BA <input type="checkbox"/> VA
Internal/External with Hydrostatic Test (same day)	<input type="checkbox"/> BB <input type="checkbox"/> VB
External Under Operation	<input type="checkbox"/> BC <input type="checkbox"/> VC
External Under Hydrostatic Test	<input type="checkbox"/> BD <input type="checkbox"/> VD
Expansion/Receiver Tank or Internal with UT	<input type="checkbox"/> BE <input type="checkbox"/> VE

2. INSTALLATION <i>Redstone Arsenal</i>		2A. CITY <i>Huntsville</i>		3. STATE <i>AL</i>	4. ZIP CODE <i>35808</i>	5. PLANT OR BLDG. <i>4100</i>	
6. DATE OF INSPECTION <i>11-6-03</i>		7. DATE OF LAST INSPECTION <i>4-23-03</i>		8. DELIVERY ORDER NO.		9. CONTRACT NO.	
10. OBJECT <input checked="" type="checkbox"/> Fire Tube <input type="checkbox"/> Cast Iron <input type="checkbox"/> Water Tube <input type="checkbox"/> Expansion Tank <input type="checkbox"/> Pressure Vessel						11. PLANT <input type="checkbox"/> Manned <input checked="" type="checkbox"/> Unmanned	
11A. PRESSURE PREVIOUS INSPECTION <i>40</i>		11B. PRESSURE THIS INSPECTION <i>0</i>		12A. YEAR BUILT <i>1976</i>		12B. YEAR INSTALLED <i>1976</i>	
13A. PRIMARY FUEL (Boiler) <i>NAT. GAS</i>		13B. SECONDARY FUEL (Boiler) <i>oil</i>		14. DESIGN WORKING PRESSURE OR TEMPERATURE <i>150</i>			
15. MANUFACTURER <i>York Shipley</i>		16. MANUFACTURER'S RATING MBTU / LBS. / HR <i>7,532 16/hr</i>		17. NATIONAL BOARD NUMBER <i>NB15903</i>		18. USAF NUMBER <i>#1</i>	
19. USE <input type="checkbox"/> Power <input checked="" type="checkbox"/> Steam Heating <input type="checkbox"/> Process <input type="checkbox"/> Storage <input type="checkbox"/> HTHW Heating <input type="checkbox"/> Heat Exchange <input type="checkbox"/> Other (Specify)							
20. METHOD OF FIRING (Boilers) <i>Auto Burner</i>		21. SAFETY/RELIEF VALVES SETTING <i>110</i>		22. EXPLAIN IF PRESSURE CHANGED		23. PRESSURE GAGE TESTED <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
24. PURPOSE OF HYDROSTATIC TEST <input type="checkbox"/> New <input type="checkbox"/> Retest <input type="checkbox"/> Repair		25. LAST HYDROSTATIC TEST Date: <i>UNK</i> PSI:		26. HYDROSTATIC TEST <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Date: PSI:			

STATEMENT OF BASE CIVIL ENGINEER

27. REPAIRS MADE SINCE LAST INSPECTION
 None Other (Specify)

INTERNAL INSPECTION

28. DESCRIBE INSPECTION FULLY (State location of any damage or deposits, i.e., scale, grease, oil, etc.; any corrosion, pitting, grooving, cracking or lamination; any evidence of overheating, broken or loose items, etc.)
Moderate scale approx. 1/16" thick. Best evidence that both safety valves are leaking during operation.

EXTERNAL INSPECTION

29. CONDITION OF BOILERS, VESSELS AND PLANT (Describe fully and state location of any corrosion, leakages, evidence of overheating, soot or other destructive accumulations, or safety or ASME/NB violations, etc.)
No adverse conditions

30. SETTINGS, LININGS, SUPPORTS AND BAFFLES

Good

INSPECTION OF SAFETY DEVICE

31. SAFETY/RELIEF VALVES	32. SIZE Number: <i>1-1/4, 1-3/4"</i>	33. TOTAL CAPACITY CFM: BTU/HR: LB/HR: <i>13,066</i>	34. CONDITION AND HOW TESTED <i>visually poor, not tested</i>
35. PRESSURE GAGES	36. CORRECTION TAKEN (if none give reason) <i>SAT</i>		
37. OTHER APPLIANCES	38. CONDITION <i>Clean & Clear</i>		
39. REGULATORS AND CONTROLS	40. CONDITION <i>visually SAT not tested, boiler idle, no manual reset</i>		
41. ASME CODES			

Does plant comply with code, welding, materials, configuration, etc? Yes No (Explain)

INSPECTOR STATEMENT

42. WAS BOILER OR VESSEL PREPARED FOR THOROUGH EXAMINATION (If NO, state what was not and why in Remarks and Recommendations of Inspector.)

Yes No

43. WAS BOILER OR VESSEL ENTERED FOR THE INSPECTION (If NO, state what was not and why in Remarks and Recommendations of Inspector.)

Yes No

REMARKS AND RECOMMENDATIONS OF THE INSPECTOR

44. LIST ALL DEFICIENCIES TO BE CORRECTED OR REPAIRED (Use a continuation sheet if necessary.)

- Proper CHEMICAL TREATMENT AND blowdowns must be administered to control scale and oxygen.
- Both safety valves are leaking. They must be replaced with ASME APPROVED VALVES OF SAME SET PRESSURE AND CAPACITY
- ASME CSD-1, CW140 requires 2 LWCO's. ONE MUST BE EQUIPPED WITH A MANUAL TRESET.

45. TYPE OR PRINT NAME OF INSPECTOR

Fred LAWRENCE

45A. SIGNATURE OF INSPECTOR

Fred Lawrence

45B. DATE OF SIGNATURE

11-6-03

45C. INSPECTOR'S NATIONAL BOARD NO.

NB11658

46. PRINT NAME AND TITLE OF REPRESENTATIVE ACCOMPANYING INSPECTOR

DANNIE BEARDEN BOILER MECH.

46A. SIGNATURE

Dannie Bearden

46B. DATE OF SIGNATURE

11-6-03

46C. REPRESENTATIVE'S TELEPHONE NUMBER

ACTION TAKEN ON RECOMMENDATIONS

47. DATE AND ACTION TAKEN OR TO BE TAKEN

48. TYPE OR PRINT NAME, TITLE AND GRADE OF OFFICER IN CHARGE

M. J. Lester 6. COR GS-13

49. SIGNATURE OF OFFICER IN CHARGE

M. J. Lester

50. DATE OF SIGNATURE

11/6/03

BOILER OR PRESSURE VESSEL INSPECTION REPORT

HSBCT CONTRACT NUMBER

1. TYPE OF INSPECTION	
Internal and External	<input type="checkbox"/> BA <input type="checkbox"/> VA
Internal/External with Hydrostatic Test (same day)	<input type="checkbox"/> BB <input type="checkbox"/> VB
External Under Operation	<input checked="" type="checkbox"/> BC <input type="checkbox"/> VC
External Under Hydrostatic Test	<input type="checkbox"/> BD <input type="checkbox"/> VD
Expansion/Receiver Tank or Internal with UT	<input type="checkbox"/> BE <input type="checkbox"/> VE

2. INSTALLATION <i>Redstone Arsenal</i>	2A. CITY <i>Huntsville</i>	3. STATE <i>AL</i>	4. ZIP CODE <i>35808</i>	5. PLANT OR BLDG. <i>4100</i>
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5. DATE OF INSPECTION <i>11-6-03</i>	7. DATE OF LAST INSPECTION <i>4-23-03</i>	8. DELIVERY ORDER NO.	9. CONTRACT NO.
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10. OBJECT <input checked="" type="checkbox"/> Fire Tube <input type="checkbox"/> Cast Iron <input type="checkbox"/> Water Tube <input type="checkbox"/> Expansion Tank <input type="checkbox"/> Pressure Vessel	11. PLANT <input type="checkbox"/> Manned <input checked="" type="checkbox"/> Unmanned
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11A. PRESSURE PREVIOUS INSPECTION <i>0</i>	11B. PRESSURE THIS INSPECTION <i>35</i>	12A. YEAR BUILT <i>1976</i>	12B. YEAR INSTALLED <i>1976</i>
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13A. PRIMARY FUEL (Boiler) <i>NAT. GAS</i>	13B. SECONDARY FUEL (Boiler) <i>oil</i>	14. DESIGN WORKING PRESSURE OR TEMPERATURE <i>150</i>
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15. MANUFACTURER <i>York Shipley</i>	16. MANUFACTURER'S RATING MBTU / LBS. / HR <i>7532 16/hr</i>	17. NATIONAL BOARD NUMBER <i>NB 16276</i>	18. USAF NUMBER <i>#2</i>
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19. USE <input type="checkbox"/> Power <input checked="" type="checkbox"/> Steam Heating <input type="checkbox"/> Process <input type="checkbox"/> Storage <input type="checkbox"/> HTHW Heating <input type="checkbox"/> Heat Exchange <input type="checkbox"/> Other (Specify)

20. METHOD OF FIRING (Boilers) <i>Auto Burner</i>	21. SAFETY/RELIEF VALVES SETTING <i>110</i>	22. EXPLAIN IF PRESSURE CHANGED	23. PRESSURE GAGE TESTED <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
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24. PURPOSE OF HYDROSTATIC TEST <input type="checkbox"/> New <input type="checkbox"/> Retest <input type="checkbox"/> Repair	25. LAST HYDROSTATIC TEST Date: <i>unk</i> PSI:	26. HYDROSTATIC TEST <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Date: PSI:
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STATEMENT OF BASE CIVIL ENGINEER

27. REPAIRS MADE SINCE LAST INSPECTION <input checked="" type="checkbox"/> None <input type="checkbox"/> Other (Specify)

INTERNAL INSPECTION

28. DESCRIBE INSPECTION FULLY (State location of any damage or deposits, i.e., scale, grease, oil, etc.; any corrosion, pitting, grooving, cracking or lamination; any evidence of overheating, broken or loose items, etc.) <i>TYPE "C" INSPECTION</i>
--

EXTERNAL INSPECTION

29. CONDITION OF BOILERS, VESSELS AND PLANT (Describe fully and state location of any corrosion, leakages, evidence of overheating, soot or other destructive accumulations, or safety or ASME/NB violations, etc.) <i>No adverse conditions</i>

30. SETTINGS, LININGS, SUPPORTS AND BAFFLES <i>SAT</i>

INSPECTION OF SAFETY DEVICE

31. SAFETY/RELIEF VALVES	32. SIZE Number: <i>1-2", 1-1/4"</i>	33. TOTAL CAPACITY CFM: BTU/HR: LB/HR: <i>8260</i>	34. CONDITION AND HOW TESTED <i>Test SAT by hand</i>
35. PRESSURE GAGES	36. CORRECTION TAKEN (if none give reason) <i>SAT</i>		
37. OTHER APPLIANCES	38. CONDITION <i>Clean & Clear</i>		
39. REGULATORS AND CONTROLS	40. CONDITION <i>LWCU test SAT.</i>		

41. ASME CODES	Does plant comply with code, welding, materials, configuration, etc? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No (Explain)
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INSPECTOR STATEMENT

2. WAS BOILER OR VESSEL PREPARED FOR THOROUGH EXAMINATION (If NO, state what was not and why in Remarks and Recommendations of Inspector.)

Yes No

3. WAS BOILER OR VESSEL ENTERED FOR THE INSPECTION (If NO, state what was not and why in Remarks and Recommendations of Inspector.)

Yes No

REMARKS AND RECOMMENDATIONS OF THE INSPECTOR

4. LIST ALL DEFICIENCIES TO BE CORRECTED OR REPAIRED (Use a continuation sheet if necessary.)

No RECOMMENDATIONS

45. TYPE OR PRINT NAME OF INSPECTOR

Fred LAWRENCE

45A. SIGNATURE OF INSPECTOR

Fred Lawrence

45B. DATE OF SIGNATURE

11-6-03

45C. INSPECTOR'S NATIONAL BOARD NO.

NB11658

46. PRINT NAME AND TITLE OF REPRESENTATIVE ACCOMPANYING INSPECTOR

46A. SIGNATURE

Donnie Bearden

46B. DATE OF SIGNATURE

11-6-03

46C. REPRESENTATIVE'S TELEPHONE NUMBER

ACTION TAKEN ON RECOMMENDATIONS

47. DATE AND ACTION TAKEN OR TO BE TAKEN

48. TYPE OR PRINT NAME, TITLE AND GRADE OF OFFICER IN CHARGE

Mythen Leslie G. CO2 65-13

49. SIGNATURE OF OFFICER IN CHARGE

Leslie G. Mythen

50. DATE OF SIGNATURE

11/6/03

BOILER OR PRESSURE VESSEL INSPECTION REPORT

HSBCT CONTRACT NUMBER

1. TYPE OF INSPECTION	
Internal and External	<input type="checkbox"/> BA <input type="checkbox"/> VA
Internal/External with Hydrostatic Test (same day)	<input type="checkbox"/> BB <input type="checkbox"/> VB
External Under Operation	<input checked="" type="checkbox"/> BC <input type="checkbox"/> VC
External Under Hydrostatic Test	<input type="checkbox"/> BD <input type="checkbox"/> VD
Expansion/Receiver Tank or Internal with UT	<input type="checkbox"/> BE <input type="checkbox"/> VE

INSTALLATION <i>Redstone Arsenal</i>	2A. CITY <i>Huntsville</i>	3. STATE <i>AL</i>	4. ZIP CODE <i>35808</i>	5. PLANT OR BLDG. <i>5540</i>
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DATE OF INSPECTION <i>11-5-03</i>	7. DATE OF LAST INSPECTION <i>4-23-03</i>	8. DELIVERY ORDER NO.	9. CONTRACT NO.
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9. OBJECT <input checked="" type="checkbox"/> Fire Tube <input type="checkbox"/> Cast Iron <input type="checkbox"/> Water Tube <input type="checkbox"/> Expansion Tank <input type="checkbox"/> Pressure Vessel	11. PLANT <input type="checkbox"/> Manned <input checked="" type="checkbox"/> Unmanned
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1A. PRESSURE PREVIOUS INSPECTION <i>0</i>	11B. PRESSURE THIS INSPECTION <i>35</i>	12A. YEAR BUILT <i>2001</i>	12B. YEAR INSTALLED <i>2001</i>
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3A. PRIMARY FUEL (Boiler) <i>oil</i>	13B. SECONDARY FUEL (Boiler) <i>N/A</i>	14. DESIGN WORKING PRESSURE OR TEMPERATURE <i>150 psi</i>
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5. MANUFACTURER <i>Cleaver Brooks</i>	16. MANUFACTURER'S RATING MBTU / LBS. / HR <i>6175 lb/hr</i>	17. NATIONAL BOARD NUMBER <i>NB 11014</i>	18. USAF NUMBER <i>#1</i>
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9. USE <input type="checkbox"/> Power <input checked="" type="checkbox"/> Steam Heating <input type="checkbox"/> Process <input type="checkbox"/> Storage <input type="checkbox"/> HTHW Heating <input type="checkbox"/> Heat Exchange <input type="checkbox"/> Other (Specify)
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0. METHOD OF FIRING (Boilers) <i>Auto Burner</i>	21. SAFETY/RELIEF VALVES SETTING <i>150</i>	22. EXPLAIN IF PRESSURE CHANGED	23. PRESSURE GAGE TESTED <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
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4. PURPOSE OF HYDROSTATIC TEST <input type="checkbox"/> New <input type="checkbox"/> Retest <input type="checkbox"/> Repair	25. LAST HYDROSTATIC TEST Date: <i>unk</i> PSI:	26. HYDROSTATIC TEST <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Date: PSI:
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STATEMENT OF BASE CIVIL ENGINEER

7. REPAIRS MADE SINCE LAST INSPECTION <input checked="" type="checkbox"/> None <input type="checkbox"/> Other (Specify)
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INTERNAL INSPECTION

8. DESCRIBE INSPECTION FULLY (State location of any damage or deposits, i.e., scale, grease, oil, etc.; any corrosion, pitting, grooving, cracking or lamination; any evidence of overheating, broken or loose items, etc.) <i>Type "C" inspection</i>

EXTERNAL INSPECTION

9. CONDITION OF BOILERS, VESSELS AND PLANT (Describe fully and state location of any corrosion, leakages, evidence of overheating, soot or other destructive accumulations, or safety or ASME/NB violations, etc.) <i>No adverse conditions. safety valve discharge capacity inadequate for capacity of boiler</i>

10. SETTINGS, LININGS, SUPPORTS AND BAFFLES <i>Good</i>
--

INSPECTION OF SAFETY DEVICE

31. SAFETY/RELIEF VALVES	32. SIZE Number: <i>2 1/2"</i>	33. TOTAL CAPACITY CFM: BTU/HR: LB/HR: <i>5,339</i>	34. CONDITION AND HOW TESTED <i>Test SAT by hand</i>
15. PRESSURE GAGES	38. CORRECTION TAKEN (if none give reason) <i>SAT.</i>		
17. OTHER APPLIANCES	38. CONDITION <i>Clean & Clear</i>		
19. REGULATORS AND CONTROLS	40. CONDITION <i>LUCK AND FLAME SENSOR test SAT.</i>		

11. ASME CODES	Does plant comply with code, welding, materials, configuration, etc? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No (Explain)
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INSPECTOR STATEMENT

1. WAS BOILER OR VESSEL PREPARED FOR THOROUGH EXAMINATION (If NO, state what was not and why in Remarks and Recommendations of Inspector.)

Yes No

2. WAS BOILER OR VESSEL ENTERED FOR THE INSPECTION (If NO, state what was not and why in Remarks and Recommendations of Inspector.)

Yes No

REMARKS AND RECOMMENDATIONS OF THE INSPECTOR

3. LIST ALL DEFICIENCIES TO BE CORRECTED OR REPAIRED (Use a continuation sheet if necessary.)

insufficient discharge capacity on the safety valves. The total capacity of the safety valves must equal the boiler's capacity.

4. TYPE OR PRINT NAME OF INSPECTOR

Fred LAWRENCE

5A. SIGNATURE OF INSPECTOR

Fred Lawrence

45B. DATE OF SIGNATURE

11-5-03

45C. INSPECTOR'S NATIONAL BOARD NO.

NB 11658

6. PRINT NAME AND TITLE OF REPRESENTATIVE ACCOMPANYING INSPECTOR

6A. SIGNATURE

Donnie Brandon

46B. DATE OF SIGNATURE

11-6-03

46C. REPRESENTATIVE'S TELEPHONE NUMBER

ACTION TAKEN ON RECOMMENDATIONS

7. DATE AND ACTION TAKEN OR TO BE TAKEN

48. TYPE OR PRINT NAME, TITLE AND GRADE OF OFFICER IN CHARGE

Mullen, Leslie G., ON GS-13

49. SIGNATURE OF OFFICER IN CHARGE

Leslie G. Mullen

50. DATE OF SIGNATURE

11/6/03

BOILER OR PRESSURE VESSEL INSPECTION REPORT

1. TYPE OF INSPECTION	
Internal and External	<input type="checkbox"/> BA <input type="checkbox"/> VA
Internal/External with Hydrostatic Test (same day)	<input type="checkbox"/> BB <input type="checkbox"/> VB
External Under Operation	<input checked="" type="checkbox"/> BC <input type="checkbox"/> VC
External Under Hydrostatic Test	<input type="checkbox"/> BD <input type="checkbox"/> VD
Expansion/Receiver Tank or Internal with UT	<input type="checkbox"/> BE <input type="checkbox"/> VE

HSBCT CONTRACT NUMBER

1. INSTALLATION <i>Redstone Arsenal</i>	2A. CITY <i>Huntsville</i>	3. STATE <i>Al.</i>	4. ZIP CODE <i>35808</i>	5. PLANT OR BLDG. <i>7105</i>
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6. DATE OF INSPECTION <i>11-5-03</i>	7. DATE OF LAST INSPECTION <i>4-23-03</i>	8. DELIVERY ORDER NO.	9. CONTRACT NO.
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C. OBJECT <input checked="" type="checkbox"/> Fire Tube <input type="checkbox"/> Cast Iron <input type="checkbox"/> Water Tube <input type="checkbox"/> Expansion Tank <input type="checkbox"/> Pressure Vessel				11. PLANT <input type="checkbox"/> Manned <input checked="" type="checkbox"/> Unmanned	
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1A. PRESSURE PREVIOUS INSPECTION <i>UNK</i>	11B. PRESSURE THIS INSPECTION <i>12</i>	12A. YEAR BUILT <i>1942</i>	12B. YEAR INSTALLED <i>1942</i>
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3A. PRIMARY FUEL (Boiler) <i>NAT. GAS</i>	13B. SECONDARY FUEL (Boiler) <i>oil</i>	14. DESIGN WORKING PRESSURE OR TEMPERATURE <i>15</i>	
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5. MANUFACTURER <i>FitzGibbon</i>	16. MANUFACTURER'S RATING MBTU / LBS. / HR <i>100 Hp</i>	17. NATIONAL BOARD NUMBER <i>NB154849</i>	18. USAF NUMBER <i>#2</i>
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9. USE <input type="checkbox"/> Power <input checked="" type="checkbox"/> Steam Heating <input type="checkbox"/> Process <input type="checkbox"/> Storage <input type="checkbox"/> HTHW Heating <input type="checkbox"/> Heat Exchange <input type="checkbox"/> Other (Specify)					
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20. METHOD OF FIRING (Boilers) <i>AUTO BURNER</i>	21. SAFETY/RELIEF VALVES SETTING <i>UNKNOWN</i>	22. EXPLAIN IF PRESSURE CHANGED	23. PRESSURE GAGE TESTED <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
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24. PURPOSE OF HYDROSTATIC TEST <input type="checkbox"/> New <input type="checkbox"/> Retest <input type="checkbox"/> Repair	25. LAST HYDROSTATIC TEST Date: <i>unk</i> PSI:	26. HYDROSTATIC TEST <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Date: PSI:
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STATEMENT OF BASE CIVIL ENGINEER

27. REPAIRS MADE SINCE LAST INSPECTION <input checked="" type="checkbox"/> None <input type="checkbox"/> Other (Specify)

INTERNAL INSPECTION

28. DESCRIBE INSPECTION FULLY (State location of any damage or deposits, i.e., scale, grease, oil, etc.; any corrosion, pitting, grooving, cracking or lamination; any evidence of overheating, broken or loose items, etc.) <i>TYPE "C" INSPECTION</i>
--

EXTERNAL INSPECTION

29. CONDITION OF BOILERS, VESSELS AND PLANT (Describe fully and state location of any corrosion, leakages, evidence of overheating, soot or other destructive accumulations, or safety or ASME/NB violations, etc.) <i>This brick settings ARE CRACKED AND CRUMBING THE SAFETY VALVES DATA PLATES ARE MISSING, SET PRESSURE OR CAPACITY CANNOT BE DETERMINED. No manual reset on LWCO's</i>
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30. SETTINGS, LININGS, SUPPORTS AND BAFFLES <i>CRACKED & CRUMBING</i>
--

INSPECTION OF SAFETY DEVICE

31. SAFETY/RELIEF VALVES	32. SIZE Number: <i>2-3"</i>	33. TOTAL CAPACITY CFM: BTU/HR: LB/HR: <i>unk</i>	34. CONDITION AND HOW TESTED <i>Visually poor, test SAT.</i>
35. PRESSURE GAGES	36. CORRECTION TAKEN (if none give reason) <i>SAT.</i>		
37. OTHER APPLIANCES	38. CONDITION <i>Clean & Clear</i>		
39. REGULATORS AND CONTROLS	40. CONDITION <i>LWCO & FLAME SENSOR test SAT. No manual reset on LWCO</i>		
41. ASME CODES			

Does plant comply with code, welding, materials, configuration, etc? Yes No (Explain)

INSPECTOR STATEMENT

2. WAS BOILER OR VESSEL PREPARED FOR THOROUGH EXAMINATION (If NO, state what was not and why in Remarks and Recommendations of Inspector.)
 Yes No

3. WAS BOILER OR VESSEL ENTERED FOR THE INSPECTION (If NO, state what was not and why in Remarks and Recommendations of Inspector.)
 Yes No

REMARKS AND RECOMMENDATIONS OF THE INSPECTOR

4. LIST ALL DEFICIENCIES TO BE CORRECTED OR REPAIRED (Use a continuation sheet if necessary.)
 This boiler MAY HAVE REACHED THE END OF ITS USEFULNESS. IT SHOULD BE REMOVED FROM SERVICE AS SOON AS POSSIBLE. THE BRICK SETTINGS ARE IN POOR CONDITION WITH LARGE CRACKS ON BOTH SIDEWALL. THE RIGHT SIDEWALL APPEARS WEAKENED BY CRUMBLING BRICKWORK. THE REPAIR COSTS VS USEFUL LIFE MAKES REPLACING THE BOILER THE MOST REASONABLE OPTION.
 ASME CSD-1 CW120 REQUIRES THE BOILER HAVE TWO LOW WATER FUEL CUTOFF DEVICES, WITH ONE EQUIPPED WITH A MANUAL RESET.
 THE SAFETY VALVES CAPACITY OR SET PRESSURE CANNOT BE DETERMINED. BOTH VALVES MUST BE REPLACED WITH ASME APPROVED VALVES OF SUFFICIENT CAPACITY TO RELIEVE THE BOILER'S CAPACITY.

5. TYPE OR PRINT NAME OF INSPECTOR

Fred Lawrence

5A. SIGNATURE OF INSPECTOR

Fred Lawrence

45B. DATE OF SIGNATURE

11-5-03

45C. INSPECTOR'S NATIONAL BOARD NO.

NB 11658

6. PRINT NAME AND TITLE OF REPRESENTATIVE ACCOMPANYING INSPECTOR

6A. SIGNATURE

Donnie Boudon

46B. DATE OF SIGNATURE

11-6-03

46C. REPRESENTATIVE'S TELEPHONE NUMBER

ACTION TAKEN ON RECOMMENDATIONS

17. DATE AND ACTION TAKEN OR TO BE TAKEN

48. TYPE OR PRINT NAME, TITLE AND GRADE OF OFFICER IN CHARGE

Melba Lestie G. CGR GS-13

49. SIGNATURE OF OFFICER IN CHARGE

Melba Lestie

50. DATE OF SIGNATURE

11/6/03

BOILER OR PRESSURE VESSEL INSPECTION REPORT

HSBCT CONTRACT NUMBER

1. TYPE OF INSPECTION	
Internal and External	<input type="checkbox"/> BA <input type="checkbox"/> VA
Internal/External with Hydrostatic Test (same day)	<input type="checkbox"/> BB <input type="checkbox"/> VB
External Under Operation	<input checked="" type="checkbox"/> BC <input type="checkbox"/> VC
External Under Hydrostatic Test	<input type="checkbox"/> BD <input type="checkbox"/> VD
Expansion/Receiver Tank or Internal with UT	<input type="checkbox"/> BE <input type="checkbox"/> VE

1. INSTALLATION <i>Redstone Arsenal</i>		2A. CITY <i> Huntsville</i>	3. STATE <i>Al.</i>	4. ZIP CODE <i>35808</i>	5. PLANT OR BLDG. <i>7153</i>
3. DATE OF INSPECTION <i>11-5-03</i>		7. DATE OF LAST INSPECTION <i>4-23-03</i>		8. DELIVERY ORDER NO.	
9. CONTRACT NO.		10. OBJECT <input checked="" type="checkbox"/> Fire Tube <input type="checkbox"/> Cast Iron <input type="checkbox"/> Water Tube <input type="checkbox"/> Expansion Tank <input type="checkbox"/> Pressure Vessel		11. PLANT <input type="checkbox"/> Manned <input checked="" type="checkbox"/> Unmanned	
11A. PRESSURE PREVIOUS INSPECTION <i>0</i>	11B. PRESSURE THIS INSPECTION <i>12</i>	12A. YEAR BUILT <i>2002</i>	12B. YEAR INSTALLED <i>2002</i>		
13A. PRIMARY FUEL (Boiler) <i>NAT. GAS</i>	13B. SECONDARY FUEL (Boiler) <i>N/A</i>	14. DESIGN WORKING PRESSURE OR TEMPERATURE <i>15 psi</i>			
15. MANUFACTURER <i>CLEAVER BROOKS</i>	16. MANUFACTURER'S RATING MBTU / LBS. / HR <i>6,000 16/HR</i>	17. NATIONAL BOARD NUMBER <i>NB 12068</i>	18. USAF NUMBER <i>#1</i>		
19. USE <input type="checkbox"/> Power <input checked="" type="checkbox"/> Steam Heating <input type="checkbox"/> Process <input type="checkbox"/> Storage <input checked="" type="checkbox"/> HTHW Heating <input type="checkbox"/> Heat Exchange <input type="checkbox"/> Other (Specify)					
20. METHOD OF FIRING (Boilers) <i>AUTO BURNER</i>	21. SAFETY/RELIEF VALVES SETTING <i>15</i>	22. EXPLAIN IF PRESSURE CHANGED		23. PRESSURE GAGE TESTED <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
24. PURPOSE OF HYDROSTATIC TEST <input type="checkbox"/> New <input type="checkbox"/> Retest <input type="checkbox"/> Repair	25. LAST HYDROSTATIC TEST Date: <i>N/A</i> PSI:		26. HYDROSTATIC TEST <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Date: PSI:		

STATEMENT OF BASE CIVIL ENGINEER

27. REPAIRS MADE SINCE LAST INSPECTION
 None Other (Specify)

INTERNAL INSPECTION

28. DESCRIBE INSPECTION FULLY (State location of any damage or deposits, i.e., scale, grease, oil, etc.; any corrosion, pitting, grooving, cracking or lamination; any evidence of overheating, broken or loose items, etc.)
TYPE C INSPECTION

EXTERNAL INSPECTION

29. CONDITION OF BOILERS, VESSELS AND PLANT (Describe fully and state location of any corrosion, leakages, evidence of overheating, soot or other destructive accumulations, or safety or ASME/NB violations, etc.)
No adverse conditions noted

30. SETTINGS, LININGS, SUPPORTS AND BAFFLES

Good

INSPECTION OF SAFETY DEVICE

31. SAFETY/RELIEF VALVES	32. SIZE Number: <i>1-3"</i>	33. TOTAL CAPACITY CFM: BTU/HR: LB/HR: <i>6942</i>	34. CONDITION AND HOW TESTED <i>TEST SAT BY HAND</i>
35. PRESSURE GAGES	36. CORRECTION TAKEN (if none give reason) <i>SAT</i>		
37. OTHER APPLIANCES	38. CONDITION <i>CLEAN & CLEAR</i>		
39. REGULATORS AND CONTROLS	40. CONDITION <i>LWCO & FLAME SENSOR TEST SAT</i>		

41. ASME CODES

Does plant comply with code, welding, materials, configuration, etc? Yes No (Explain)

INSPECTOR STATEMENT

2. WAS BOILER OR VESSEL PREPARED FOR THOROUGH EXAMINATION (If NO, state what was not and why in Remarks and Recommendations of Inspector.)
 Yes No

3. WAS BOILER OR VESSEL ENTERED FOR THE INSPECTION (If NO, state what was not and why in Remarks and Recommendations of Inspector.)
 Yes No

REMARKS AND RECOMMENDATIONS OF THE INSPECTOR

4. LIST ALL DEFICIENCIES TO BE CORRECTED OR REPAIRED (Use a continuation sheet if necessary.)

No recommendations

15. TYPE OR PRINT NAME OF INSPECTOR

Fred Lawrence

15A. SIGNATURE OF INSPECTOR

Fred Lawrence

45B. DATE OF SIGNATURE

11-5-03

45C. INSPECTOR'S NATIONAL BOARD NO.

NB11658

16. PRINT NAME AND TITLE OF REPRESENTATIVE ACCOMPANYING INSPECTOR

16A. SIGNATURE

Daniel Boardman

46B. DATE OF SIGNATURE

11-6-03

46C. REPRESENTATIVE'S TELEPHONE NUMBER

ACTION TAKEN ON RECOMMENDATIONS

17. DATE AND ACTION TAKEN OR TO BE TAKEN

48. TYPE OR PRINT NAME, TITLE AND GRADE OF OFFICER IN CHARGE

Malcolm Lester 6 CDR 65-13

49. SIGNATURE OF OFFICER IN CHARGE

Malcolm Lester

50. DATE OF SIGNATURE

11/6/03

BOILER OR PRESSURE VESSEL INSPECTION REPORT

HSBCT CONTRACT NUMBER

1. TYPE OF INSPECTION	
Internal and External	<input checked="" type="checkbox"/> BA <input type="checkbox"/> VA
Internal/External with Hydrostatic Test (same day)	<input type="checkbox"/> BB <input type="checkbox"/> VB
External Under Operation	<input type="checkbox"/> BC <input type="checkbox"/> VC
External Under Hydrostatic Test	<input type="checkbox"/> BD <input type="checkbox"/> VD
Expansion/Receiver Tank or Internal with UT	<input type="checkbox"/> BE <input type="checkbox"/> VE

2. INSTALLATION <i>Redstone Arsenal</i>		2A. CITY <i>Huntsville</i>		3. STATE <i>Al.</i>	4. ZIP CODE <i>35808</i>	5. PLANT OR BLDG. <i>7153</i>	
3. DATE OF INSPECTION <i>11-5-03</i>		7. DATE OF LAST INSPECTION <i>4-23-03</i>		8. DELIVERY ORDER NO.		9. CONTRACT NO.	
10. OBJECT <input checked="" type="checkbox"/> Fire Tube <input type="checkbox"/> Cast Iron <input type="checkbox"/> Water Tube <input type="checkbox"/> Expansion Tank <input type="checkbox"/> Pressure Vessel				11. PLANT <input type="checkbox"/> Manned <input checked="" type="checkbox"/> Unmanned			
11A. PRESSURE PREVIOUS INSPECTION <i>12</i>		11B. PRESSURE THIS INSPECTION <i>0</i>		12A. YEAR BUILT <i>1986</i>		12B. YEAR INSTALLED <i>1986</i>	
13A. PRIMARY FUEL (Boiler) <i>NAT. GAS</i>		13B. SECONDARY FUEL (Boiler) <i>N/A</i>		14. DESIGN WORKING PRESSURE OR TEMPERATURE <i>15</i>			
15. MANUFACTURER <i>Superior</i>		16. MANUFACTURER'S RATING MBTU / LBS. / HR <i>5,175 lb/hr</i>		17. NATIONAL BOARD NUMBER <i>NB9881</i>		18. USAF NUMBER <i>#2</i>	
19. USE <input type="checkbox"/> Power <input checked="" type="checkbox"/> Steam Heating <input type="checkbox"/> Process <input type="checkbox"/> Storage <input type="checkbox"/> HTHW Heating <input type="checkbox"/> Heat Exchange <input type="checkbox"/> Other (Specify)							
20. METHOD OF FIRING (Boilers) <i>AUTO BURNER</i>		21. SAFETY/RELIEF VALVES SETTING <i>15</i>		22. EXPLAIN IF PRESSURE CHANGED		23. PRESSURE GAGE TESTED <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
24. PURPOSE OF HYDROSTATIC TEST <input type="checkbox"/> New <input type="checkbox"/> Ratest <input type="checkbox"/> Repair		25. LAST HYDROSTATIC TEST Date: <i>unk</i> PSI:		26. HYDROSTATIC TEST <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Date: PSI:			

STATEMENT OF BASE CIVIL ENGINEER

27. REPAIRS MADE SINCE LAST INSPECTION
 None Other (Specify)

INTERNAL INSPECTION

28. DESCRIBE INSPECTION FULLY (State location of any damage or deposits, i.e., scale, grease, oil, etc.; any corrosion, pitting, grooving, cracking or lamination; any evidence of overheating, broken or loose items, etc.)
No Adverse Conditions Noted

EXTERNAL INSPECTION

29. CONDITION OF BOILERS, VESSELS AND PLANT (Describe fully and state location of any corrosion, leakages, evidence of overheating, soot or other destructive accumulations, or safety or ASME/NB violations, etc.)
No Adverse Conditions Noted

30. SETTINGS, LININGS, SUPPORTS AND BAFFLES
Good

INSPECTION OF SAFETY DEVICE

31. SAFETY/RELIEF VALVES	32. SIZE Number: <i>1-3"</i>	33. TOTAL CAPACITY CFM: BTU/HR: LB/HR: <i>6,942</i>	34. CONDITION AND HOW TESTED <i>Visually SAT, not tested</i>
35. PRESSURE GAGES	36. CORRECTION TAKEN (if none give reason) <i>SAT</i>		
37. OTHER APPLIANCES	38. CONDITION <i>Clean & Clear</i>		
39. REGULATORS AND CONTROLS	40. CONDITION <i>LWCO & FIRE-EYE visually SAT, not tested, boiler idle</i>		
41. ASME CODES			

Does plant comply with code, welding, materials, configuration, etc? Yes No (Explain)

INSPECTOR STATEMENT

2. WAS BOILER OR VESSEL PREPARED FOR THOROUGH EXAMINATION (If NO, state what was not and why in Remarks and Recommendations of Inspector.)

Yes No

3. WAS BOILER OR VESSEL ENTERED FOR THE INSPECTION (If NO, state what was not and why in Remarks and Recommendations of Inspector.)

Yes No

REMARKS AND RECOMMENDATIONS OF THE INSPECTOR

4. LIST ALL DEFICIENCIES TO BE CORRECTED OR REPAIRED (Use a continuation sheet if necessary.)

No Recommendations

45. TYPE OR PRINT NAME OF INSPECTOR

Fred LAWRENCE

45A. SIGNATURE OF INSPECTOR

Fred Lawrence

45B. DATE OF SIGNATURE

11-5-03

45C. INSPECTOR'S NATIONAL BOARD NO.

NB11658

46. PRINT NAME AND TITLE OF REPRESENTATIVE ACCOMPANYING INSPECTOR

46A. SIGNATURE

Donnie Beardsley

46B. DATE OF SIGNATURE

11-6-03

46C. REPRESENTATIVE'S TELEPHONE NUMBER

ACTION TAKEN ON RECOMMENDATIONS

47. DATE AND ACTION TAKEN OR TO BE TAKEN

48. TYPE OR PRINT NAME, TITLE AND GRADE OF OFFICER IN CHARGE

Miller Leslie G. CDL 65-13

49. SIGNATURE OF OFFICER IN CHARGE

Leslie G. Miller

50. DATE OF SIGNATURE

11/6/03

BOILER OR PRESSURE VESSEL INSPECTION REPORT

HSBCT CONTRACT NUMBER

1. TYPE OF INSPECTION	
Internal and External	<input type="checkbox"/> BA <input type="checkbox"/> VA
Internal/External with Hydrostatic Test (same day)	<input type="checkbox"/> BB <input type="checkbox"/> VB
External Under Operation	<input checked="" type="checkbox"/> BC <input type="checkbox"/> VC
External Under Hydrostatic Test	<input type="checkbox"/> BD <input type="checkbox"/> VD
Expansion/Receiver Tank or Internal with UT	<input type="checkbox"/> BE <input type="checkbox"/> VE

1. INSTALLATION <i>Redstone Arsenal</i>		2A. CITY <i>Huntsville</i>		3. STATE <i>AL</i>	4. ZIP CODE <i>35808</i>	5. PLANT OR BLDG. <i>7291</i>	
3. DATE OF INSPECTION <i>11-6-03</i>		7. DATE OF LAST INSPECTION <i>4-23-03</i>		8. DELIVERY ORDER NO.		9. CONTRACT NO.	
10. OBJECT <input checked="" type="checkbox"/> Fire Tube <input type="checkbox"/> Cast Iron <input type="checkbox"/> Water Tube <input type="checkbox"/> Expansion Tank <input type="checkbox"/> Pressure Vessel						11. PLANT <input type="checkbox"/> Manned <input checked="" type="checkbox"/> Unmanned	
11A. PRESSURE PREVIOUS INSPECTION <i>0</i>		11B. PRESSURE THIS INSPECTION <i>8</i>		12A. YEAR BUILT <i>1958</i>		12B. YEAR INSTALLED <i>1958</i>	
13A. PRIMARY FUEL (Boiler) <i>NAT. GAS</i>		13B. SECONDARY FUEL (Boiler) <i>oil</i>		14. DESIGN WORKING PRESSURE OR TEMPERATURE <i>15</i>			
15. MANUFACTURER <i>BURNHAM</i>		16. MANUFACTURER'S RATING MBTU / LBS. / HR <i>8930 16/hr</i>		17. NATIONAL BOARD NUMBER <i>NB1725</i>		18. USAF NUMBER <i>#1</i>	
19. USE <input type="checkbox"/> Power <input checked="" type="checkbox"/> Steam Heating <input type="checkbox"/> Process <input type="checkbox"/> Storage <input type="checkbox"/> HTHW Heating <input type="checkbox"/> Heat Exchange <input type="checkbox"/> Other (Specify)							
20. METHOD OF FIRING (Boilers) <i>Auto Burner</i>		21. SAFETY/RELIEF VALVES SETTING <i>15</i>		22. EXPLAIN IF PRESSURE CHANGED		23. PRESSURE GAGE TESTED <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
24. PURPOSE OF HYDROSTATIC TEST <input type="checkbox"/> New <input type="checkbox"/> Retest <input type="checkbox"/> Repair		25. LAST HYDROSTATIC TEST Date: <i>UNK</i> PSI:		28. HYDROSTATIC TEST <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Date: PSI:			

STATEMENT OF BASE CIVIL ENGINEER

27. REPAIRS MADE SINCE LAST INSPECTION
 None Other (Specify)

INTERNAL INSPECTION

28. DESCRIBE INSPECTION FULLY (State location of any damage or deposits, i.e., scale, grease, oil, etc.; any corrosion, pitting, grooving, cracking or lamination; any evidence of overheating, broken or loose items, etc.)
Type "C" inspection

EXTERNAL INSPECTION

29. CONDITION OF BOILERS, VESSELS AND PLANT (Describe fully and state location of any corrosion, leakages, evidence of overheating, soot or other destructive accumulations, or safety or ASME/NB violations, etc.)
No Adverse Conditions Noted. Install manual reset on Secondary LWCO

30. SETTINGS, LININGS, SUPPORTS AND BAFFLES
Good

INSPECTION OF SAFETY DEVICE

31. SAFETY/RELIEF VALVES	32. SIZE Number: <i>3-3"</i>	33. TOTAL CAPACITY CFM: BTU/HR: LB/HR: <i>17,837</i>	34. CONDITION AND HOW TESTED <i>Test SAT by hand</i>
35. PRESSURE GAGES	36. CORRECTION TAKEN (if none give reason) <i>SAT</i>		
37. OTHER APPLIANCES	38. CONDITION <i>Clean & Clear</i>		
39. REGULATORS AND CONTROLS	40. CONDITION <i>LWCO test SAT. No manual reset</i>		

41. ASME CODES
Does plant comply with code, welding, materials, configuration, etc? Yes No (Explain)

INSPECTOR STATEMENT

2. WAS BOILER OR VESSEL PREPARED FOR THOROUGH EXAMINATION (If NO, state what was not and why in Remarks and Recommendations of Inspector.)

Yes No

3. WAS BOILER OR VESSEL ENTERED FOR THE INSPECTION (If NO, state what was not and why in Remarks and Recommendations of Inspector.)

Yes No

REMARKS AND RECOMMENDATIONS OF THE INSPECTOR

4. LIST ALL DEFICIENCIES TO BE CORRECTED OR REPAIRED (Use a continuation sheet if necessary.)

ASME CSD-1 Requires 2 Low Water Fuel Cutout Devices. One must be equipped with a MANUAL RESET

5. TYPE OR PRINT NAME OF INSPECTOR

Fred LAWRENCE

5A. SIGNATURE OF INSPECTOR

Fred Lawrence

45B. DATE OF SIGNATURE

11-6-03

45C. INSPECTOR'S NATIONAL BOARD NO.

NB11658

6. PRINT NAME AND TITLE OF REPRESENTATIVE ACCOMPANYING INSPECTOR

16A. SIGNATURE

Donnie Beaulieu

46B. DATE OF SIGNATURE

11-6-03

46C. REPRESENTATIVE'S TELEPHONE NUMBER

ACTION TAKEN ON RECOMMENDATIONS

47. DATE AND ACTION TAKEN OR TO BE TAKEN

48. TYPE OR PRINT NAME, TITLE AND GRADE OF OFFICER IN CHARGE

McKen Leslie G, CIP GS-13

49. SIGNATURE OF OFFICER IN CHARGE

Leslie G. McKen

50. DATE OF SIGNATURE

11/6/03

BOILER OR PRESSURE VESSEL INSPECTION REPORT

1. TYPE OF INSPECTION	
Internal and External	<input checked="" type="checkbox"/> BA <input type="checkbox"/> VA
Internal/External with Hydrostatic Test (same day)	<input type="checkbox"/> BB <input type="checkbox"/> VB
External Under Operation	<input type="checkbox"/> BC <input type="checkbox"/> VC
External Under Hydrostatic Test	<input type="checkbox"/> BD <input type="checkbox"/> VD
Expansion/Receiver Tank or Internal with UT	<input type="checkbox"/> BE <input type="checkbox"/> VE

HSBCT CONTRACT NUMBER

1. INSTALLATION <i>Redstone Arsenal</i>	2A. CITY <i>Huntsville</i>	3. STATE <i>Al.</i>	4. ZIP CODE <i>35808</i>	5. PLANT OR BLDG. <i>7291</i>
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6. DATE OF INSPECTION <i>11-6-03</i>	7. DATE OF LAST INSPECTION <i>4-23-03</i>	8. DELIVERY ORDER NO.	9. CONTRACT NO.
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10. OBJECT
 Fire Tube Cast Iron Water Tube Expansion Tank Pressure Vessel Manned Unmanned

11A. PRESSURE PREVIOUS INSPECTION <i>15</i>	11B. PRESSURE THIS INSPECTION <i>0</i>	12A. YEAR BUILT <i>2001</i>	12B. YEAR INSTALLED <i>2001</i>
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13A. PRIMARY FUEL (Boiler) <i>NAT. GAS</i>	13B. SECONDARY FUEL (Boiler) <i>oil</i>	14. DESIGN WORKING PRESSURE OR TEMPERATURE <i>15</i>
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15. MANUFACTURER <i>Heater Brooks</i>	16. MANUFACTURER'S RATING MBTU / LBS. / HR <i>8,000 16/hr</i>	17. NATIONAL BOARD NUMBER <i>NB11026</i>	18. USAF NUMBER <i>#2</i>
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19. USE
 Power Steam Heating Process Storage HTHW Heating Heat Exchange Other (Specify)

20. METHOD OF FIRING (Boilers) <i>Auto Burner</i>	21. SAFETY/RELIEF VALVES SETTING <i>15</i>	22. EXPLAIN IF PRESSURE CHANGED	23. PRESSURE GAGE TESTED <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
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24. PURPOSE OF HYDROSTATIC TEST <input type="checkbox"/> New <input type="checkbox"/> Retest <input type="checkbox"/> Repair	25. LAST HYDROSTATIC TEST Date: <i>N/A</i> PSI:	26. HYDROSTATIC TEST <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Date: PSI:
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STATEMENT OF BASE CIVIL ENGINEER

27. REPAIRS MADE SINCE LAST INSPECTION
 None Other (Specify)

INTERNAL INSPECTION

28. DESCRIBE INSPECTION FULLY (State location of any damage or deposits, i.e., scale, grease, oil, etc.; any corrosion, pitting, grooving, cracking or lamination; any evidence of overheating, broken or loose items, etc.)
No Adverse conditions noted

EXTERNAL INSPECTION

29. CONDITION OF BOILERS, VESSELS AND PLANT (Describe fully and state location of any corrosion, leakages, evidence of overheating, soot or other destructive accumulations, or safety or ASME/NB violations, etc.)
No Adverse conditions noted

30. SETTINGS, LININGS, SUPPORTS AND BAFFLES
Good

INSPECTION OF SAFETY DEVICE

31. SAFETY/RELIEF VALVES	32. SIZE Number: <i>2-2 1/2"</i>	33. TOTAL CAPACITY CFM: BTU/HR: LB/HR: <i>8994</i>	34. CONDITION AND HOW TESTED <i>Visually SAT, not tested</i>
35. PRESSURE GAGES	36. CORRECTION TAKEN (if none give reason) <i>SAT</i>		
37. OTHER APPLIANCES	38. CONDITION <i>Clean & Clear</i>		
39. REGULATORS AND CONTROLS	40. CONDITION <i>Visually SAT, not tested, boiler side</i>		
41. ASME CODES			

Does plant comply with code, welding, materials, configuration, etc? Yes No (Explain)

INSPECTOR STATEMENT

42. WAS BOILER OR VESSEL PREPARED FOR THOROUGH EXAMINATION (If NO, state what was not and why in Remarks and Recommendations of Inspector.)

Yes No

43. WAS BOILER OR VESSEL ENTERED FOR THE INSPECTION (If NO, state what was not and why in Remarks and Recommendations of Inspector.)

Yes No

REMARKS AND RECOMMENDATIONS OF THE INSPECTOR

44. LIST ALL DEFICIENCIES TO BE CORRECTED OR REPAIRED (Use a continuation sheet if necessary.)

No Recommendations

45. TYPE OR PRINT NAME OF INSPECTOR

Fred LAWRENCE

45A. SIGNATURE OF INSPECTOR

Fred Lawrence

45B. DATE OF SIGNATURE

11-6-03

45C. INSPECTOR'S NATIONAL BOARD NO.

NB11658

46. PRINT NAME AND TITLE OF REPRESENTATIVE ACCOMPANYING INSPECTOR

46A. SIGNATURE

Dennis Beards

46B. DATE OF SIGNATURE

11-6-03

46C. REPRESENTATIVE'S TELEPHONE NUMBER

ACTION TAKEN ON RECOMMENDATIONS

47. DATE AND ACTION TAKEN OR TO BE TAKEN

48. TYPE OR PRINT NAME, TITLE AND GRADE OF OFFICER IN CHARGE

Miller, Leslie G. COR GS-13

49. SIGNATURE OF OFFICER IN CHARGE

Les G Miller

50. DATE OF SIGNATURE

11/6/03

BOILER OR PRESSURE VESSEL INSPECTION REPORT

1. TYPE OF INSPECTION	
Internal and External	<input type="checkbox"/> BA <input type="checkbox"/> VA
Internal/External with Hydrostatic Test (same day)	<input type="checkbox"/> BB <input type="checkbox"/> VB
External Under Operation	<input checked="" type="checkbox"/> BC <input type="checkbox"/> VC
External Under Hydrostatic Test	<input type="checkbox"/> BD <input type="checkbox"/> VD
Expansion/Receiver Tank or Internal with UT	<input type="checkbox"/> BE <input type="checkbox"/> VE

HSBCT CONTRACT NUMBER		2A. CITY <i>Huntsville</i>	3. STATE <i>Al.</i>	4. ZIP CODE <i>35808</i>	5. PLANT OR BLDG. <i>7549</i>
2. INSTALLATION <i>Redstone Arsenal</i>		7. DATE OF LAST INSPECTION <i>4-23-03</i>		8. DELIVERY ORDER NO.	
3. DATE OF INSPECTION <i>11-5-03</i>		9. CONTRACT NO.			

10. OBJECT <input type="checkbox"/> Fire Tube <input type="checkbox"/> Cast Iron <input checked="" type="checkbox"/> Water Tube <input type="checkbox"/> Expansion Tank <input type="checkbox"/> Pressure Vessel		11. PLANT <input type="checkbox"/> Manned <input checked="" type="checkbox"/> Unmanned	
11A. PRESSURE PREVIOUS INSPECTION <i>0</i>	11B. PRESSURE THIS INSPECTION <i>55</i>	12A. YEAR BUILT <i>1999</i>	12B. YEAR INSTALLED <i>1999</i>
13A. PRIMARY FUEL (Boiler) <i>NAT. GAS</i>	13B. SECONDARY FUEL (Boiler) <i>N/A</i>	14. DESIGN WORKING PRESSURE OR TEMPERATURE <i>150 PSI</i>	
15. MANUFACTURER <i>Cleaver Brooks</i>	16. MANUFACTURER'S RATING MBTU / LBS. / HR <i>1649 16/hr</i>	17. NATIONAL BOARD NUMBER <i>NB4304</i>	18. USAF NUMBER <i>#1</i>

19. USE <input type="checkbox"/> Power <input checked="" type="checkbox"/> Steam Heating <input type="checkbox"/> Process <input type="checkbox"/> Storage <input type="checkbox"/> HTHW Heating <input type="checkbox"/> Heat Exchange <input type="checkbox"/> Other (Specify)			
20. METHOD OF FIRING (Boilers) <i>Auto Burner</i>	21. SAFETY/RELIEF VALVES SETTING <i>125</i>	22. EXPLAIN IF PRESSURE CHANGED	23. PRESSURE GAGE TESTED <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
24. PURPOSE OF HYDROSTATIC TEST <input type="checkbox"/> New <input type="checkbox"/> Retest <input type="checkbox"/> Repair	25. LAST HYDROSTATIC TEST Date: <i>N/A</i> PSI:	26. HYDROSTATIC TEST <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Date: PSI:	

STATEMENT OF BASE CIVIL ENGINEER

27. REPAIRS MADE SINCE LAST INSPECTION
 None Other (Specify)

INTERNAL INSPECTION

28. DESCRIBE INSPECTION FULLY (State location of any damage or deposits, i.e., scale, grease, oil, etc.; any corrosion, pitting, grooving, cracking or lamination; any evidence of overheating, broken or loose items, etc.)
Type "C" inspection

EXTERNAL INSPECTION

29. CONDITION OF BOILERS, VESSELS AND PLANT (Describe fully and state location of any corrosion, leakages, evidence of overheating, soot or other destructive accumulations, or safety or ASME/NB violations, etc.)
No adverse conditions noted

30. SETTINGS, LININGS, SUPPORTS AND BAFFLES

Good

INSPECTION OF SAFETY DEVICE

31. SAFETY/RELIEF VALVES	32. SIZE Number: <i>1-1/4</i>	33. TOTAL CAPACITY CFM: BTU/HR: LB/HR: <i>5592</i>	34. CONDITION AND HOW TESTED <i>TEST SAT BY HAND</i>
35. PRESSURE GAGES	36. CORRECTION TAKEN (if none give reason) <i>SAT</i>		
37. OTHER APPLIANCES	38. CONDITION <i>CLEAN & CLEAR</i>		
39. REGULATORS AND CONTROLS	40. CONDITION <i>LWCO AND FLAME SENSOR TEST SAT</i>		

41. ASME CODES

Does plant comply with code, welding, materials, configuration, etc? Yes No (Explain)

INSPECTOR STATEMENT

2. WAS BOILER OR VESSEL PREPARED FOR THOROUGH EXAMINATION (If NO, state what was not and why in Remarks and Recommendations of Inspector.)

Yes No

3. WAS BOILER OR VESSEL ENTERED FOR THE INSPECTION (If NO, state what was not and why in Remarks and Recommendations of Inspector.)

Yes No

REMARKS AND RECOMMENDATIONS OF THE INSPECTOR

4. LIST ALL DEFICIENCIES TO BE CORRECTED OR REPAIRED (Use a continuation sheet if necessary.)

No Recommendations

45. TYPE OR PRINT NAME OF INSPECTOR

Fred LAWRENCE

45A. SIGNATURE OF INSPECTOR

Fred Lawrence

45B. DATE OF SIGNATURE

11-5-03

45C. INSPECTOR'S NATIONAL BOARD NO.

NB11658

46. PRINT NAME AND TITLE OF REPRESENTATIVE ACCOMPANYING INSPECTOR

46A. SIGNATURE

Dannie Boardman

46B. DATE OF SIGNATURE

11-6-03

46C. REPRESENTATIVE'S TELEPHONE NUMBER

ACTION TAKEN ON RECOMMENDATIONS

47. DATE AND ACTION TAKEN OR TO BE TAKEN

48. TYPE OR PRINT NAME, TITLE AND GRADE OF OFFICER IN CHARGE

M. Lynn Leslie G. COR 05-13

49. SIGNATURE OF OFFICER IN CHARGE

Leslie G. M. Lynn

50. DATE OF SIGNATURE

11/6/03

BOILER OR PRESSURE VESSEL INSPECTION REPORT

HSBCT CONTRACT NUMBER

1. TYPE OF INSPECTION

Internal and External	<input checked="" type="checkbox"/> BA	<input type="checkbox"/> VA
Internal/External with Hydrostatic Test (same day)	<input type="checkbox"/> BB	<input type="checkbox"/> VB
External Under Operation	<input type="checkbox"/> BC	<input type="checkbox"/> VC
External Under Hydrostatic Test	<input type="checkbox"/> BD	<input type="checkbox"/> VD
Expansion/Receiver Tank or Internal with UT	<input type="checkbox"/> BE	<input type="checkbox"/> VE

2. INSTALLATION: Redstone Arsenal 2A. CITY: Huntsville 3. STATE: Al. 4. ZIP CODE: 35808 5. PLANT OR BLDG.: 7549

5. DATE OF INSPECTION: 11-5-03 7. DATE OF LAST INSPECTION: 4-23-03 8. DELIVERY ORDER NO. 9. CONTRACT NO.

10. OBJECT: Fire Tube Cast Iron Water Tube Expansion Tank Pressure Vessel 11. PLANT: Manned Unmanned

11A. PRESSURE PREVIOUS INSPECTION: 50 11B. PRESSURE THIS INSPECTION: 0 12A. YEAR BUILT: 2001 12B. YEAR INSTALLED: 2001

13A. PRIMARY FUEL (Boiler): NAT. GAS 13B. SECONDARY FUEL (Boiler): N/A 14. DESIGN WORKING PRESSURE OR TEMPERATURE: 150 PSI

15. MANUFACTURER: Cleaver Brooks 16. MANUFACTURER'S RATING MBTU /LBS. / HR: 1649 16/hr 17. NATIONAL BOARD NUMBER: NB5444 18. USAF NUMBER: #2

19. USE: Power Steam Heating Process Storage HTHW Heating Heat Exchange Other (Specify)

20. METHOD OF FIRING (Boilers): Auto Burner 21. SAFETY/RELIEF VALVES SETTING: 150 22. EXPLAIN IF PRESSURE CHANGED: _____ 23. PRESSURE GAGE TESTED: Yes No

24. PURPOSE OF HYDROSTATIC TEST: New Retest Repair 25. LAST HYDROSTATIC TEST Date: N/A PSI: _____ 26. HYDROSTATIC TEST: Yes No Date: _____ PSI: _____

STATEMENT OF BASE CIVIL ENGINEER

27. REPAIRS MADE SINCE LAST INSPECTION: None Other (Specify)

INTERNAL INSPECTION

28. DESCRIBE INSPECTION FULLY (State location of any damage or deposits, i.e., scale, grease, oil, etc.; any corrosion, pitting, grooving, cracking or lamination; any evidence of overheating, broken or loose items, etc.): Scale accumulation in lower drum indicate the need for more effective blowdown

EXTERNAL INSPECTION

29. CONDITION OF BOILERS, VESSELS AND PLANT (Describe fully and state location of any corrosion, leakages, evidence of overheating, soot or other destructive accumulations, or safety or ASME/NB violations, etc.): No adverse conditions noted

30. SETTINGS, LININGS, SUPPORTS AND BAFFLES: Good

INSPECTION OF SAFETY DEVICE

31. SAFETY/RELIEF VALVES	32. SIZE Number: <u>1-1/4</u>	33. TOTAL CAPACITY CFM: BTU/HR: LB/HR: <u>2,582</u>	34. CONDITION AND HOW TESTED <u>Usually SAT. Not tested</u>
35. PRESSURE GAGES	36. CORRECTION TAKEN (If none give reason) <u>SAT</u>		
37. OTHER APPLIANCES	38. CONDITION <u>Clean & Clear</u>		
39. REGULATORS AND CONTROLS	40. CONDITION <u>Usually SAT. Not tested, boiler idle</u>		

41. ASME CODES: Does plant comply with code, welding, materials, configuration, etc? Yes No (Explain)

INSPECTOR STATEMENT

42. WAS BOILER OR VESSEL PREPARED FOR THOROUGH EXAMINATION (If NO, state what was not and why in Remarks and Recommendations of Inspector.)

Yes No

43. WAS BOILER OR VESSEL ENTERED FOR THE INSPECTION (If NO, state what was not and why in Remarks and Recommendations of Inspector.)

Yes No

REMARKS AND RECOMMENDATIONS OF THE INSPECTOR

44. LIST ALL DEFICIENCIES TO BE CORRECTED OR REPAIRED (Use a continuation sheet if necessary.)

~~No Recommendations~~

{ BUILD UP OF SCALE IN THE LOWER DRUM INDICATES THE
NEED FOR MORE EFFECTIVE BLOW DOWNS
A.G.P. per FWL 11/30/03

45. TYPE OR PRINT NAME OF INSPECTOR

Fred LAWRENCE

45A. SIGNATURE OF INSPECTOR

Fred Lawrence

45B. DATE OF SIGNATURE

11-5-03

45C. INSPECTOR'S NATIONAL BOARD NO.

1811658

46. PRINT NAME AND TITLE OF REPRESENTATIVE ACCOMPANYING INSPECTOR

46A. SIGNATURE

Dennis Bouda

46B. DATE OF SIGNATURE

11-6-03

46C. REPRESENTATIVE'S TELEPHONE NUMBER

ACTION TAKEN ON RECOMMENDATIONS

47. DATE AND ACTION TAKEN OR TO BE TAKEN

48. TYPE OR PRINT NAME, TITLE AND GRADE OF OFFICER IN CHARGE

Miller Leslie G. CDL GS-13

49. SIGNATURE OF OFFICER IN CHARGE

Leslie G. Miller

50. DATE OF SIGNATURE

11/6/03

BOILER OR PRESSURE VESSEL INSPECTION REPORT

1. TYPE OF INSPECTION	
Internal and External	<input type="checkbox"/> BA <input type="checkbox"/> VA
Internal/External with Hydrostatic Test (same day)	<input type="checkbox"/> BB <input type="checkbox"/> VB
External Under Operation	<input checked="" type="checkbox"/> BC <input type="checkbox"/> VC
External Under Hydrostatic Test	<input type="checkbox"/> BD <input type="checkbox"/> VD
Expansion/Receiver Tank or Internal with UT	<input type="checkbox"/> BE <input type="checkbox"/> VE

HSBCT CONTRACT NUMBER: _____

2. INSTALLATION <i>Redstone Arsenal</i>	2A. CITY <i>Huntsville</i>	3. STATE <i>AL</i>	4. ZIP CODE <i>35809</i>	5. PLANT OR BLDG. <i>7668</i>
6. DATE OF INSPECTION <i>11-5-03</i>	7. DATE OF LAST INSPECTION <i>4-23-03</i>	8. DELIVERY ORDER NO.	9. CONTRACT NO.	

10. OBJECT <input checked="" type="checkbox"/> Fire Tube <input type="checkbox"/> Cast Iron <input type="checkbox"/> Water Tube <input type="checkbox"/> Expansion Tank <input type="checkbox"/> Pressure Vessel		11. PLANT <input type="checkbox"/> Manned <input checked="" type="checkbox"/> Unmanned	
11A. PRESSURE PREVIOUS INSPECTION <i>0</i>	11B. PRESSURE THIS INSPECTION <i>90</i>	12A. YEAR BUILT <i>1997</i>	12B. YEAR INSTALLED <i>1997</i>
13A. PRIMARY FUEL (Boiler) <i>NAT. GAS</i>	13B. SECONDARY FUEL (Boiler) <i>N/A</i>	14. DESIGN WORKING PRESSURE OR TEMPERATURE <i>150</i>	
15. MANUFACTURER <i>KEWANEE</i>	16. MANUFACTURER'S RATING MBTU / LBS. / HR <i>20,085 MBH</i>	17. NATIONAL BOARD NUMBER <i>N1348448</i>	18. USAF NUMBER <i>#1</i>

19. USE <input type="checkbox"/> Power <input checked="" type="checkbox"/> Steam Heating <input type="checkbox"/> Process <input type="checkbox"/> Storage <input type="checkbox"/> HTHW Heating <input type="checkbox"/> Heat Exchange <input type="checkbox"/> Other (Specify)			
20. METHOD OF FIRING (Boilers) <i>Auto Burner</i>	21. SAFETY/RELIEF VALVES SETTING <i>150</i>	22. EXPLAIN IF PRESSURE CHANGED	23. PRESSURE GAGE TESTED <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
24. PURPOSE OF HYDROSTATIC TEST <input type="checkbox"/> New <input type="checkbox"/> Retest <input type="checkbox"/> Repair	25. LAST HYDROSTATIC TEST Date: <i>UNK</i> PSI:	26. HYDROSTATIC TEST <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Date: _____ PSI:	

STATEMENT OF BASE CIVIL ENGINEER

27. REPAIRS MADE SINCE LAST INSPECTION
 None Other (Specify)

INTERNAL INSPECTION

28. DESCRIBE INSPECTION FULLY (State location of any damage or deposits, i.e., scale, grease, oil, etc.; any corrosion, pitting, grooving, cracking or lamination; any evidence of overheating, broken or loose items, etc.)
TYPE "C" INSPECTION

EXTERNAL INSPECTION

29. CONDITION OF BOILERS, VESSELS AND PLANT (Describe fully and state location of any corrosion, leakages, evidence of overheating, soot or other destructive accumulations, or safety or ASME/NB violations, etc.)
No adverse conditions noted

30. SETTINGS, LININGS, SUPPORTS AND BAFFLES

Good

INSPECTION OF SAFETY DEVICE

31. SAFETY/RELIEF VALVES	32. SIZE Number: <i>1-2", 2-1/2"</i>	33. TOTAL CAPACITY CFM: _____ BTU/HR: _____ LB/HR: <i>27,183</i>	34. CONDITION AND HOW TESTED <i>Test SAT by HAND</i>
35. PRESSURE GAGES	36. CORRECTION TAKEN (if none give reason) <i>SAT</i>		
37. OTHER APPLIANCES	38. CONDITION <i>Clean & Clear</i>		
39. REGULATORS AND CONTROLS	40. CONDITION <i>LWCO & FLAME SENSOR TEST SAT NO MANUAL RESET</i>		

41. ASME CODES

Does plant comply with code, welding, materials, configuration, etc? Yes No (Explain)

INSPECTOR STATEMENT

2. WAS BOILER OR VESSEL PREPARED FOR THOROUGH EXAMINATION (If NO, state what was not and why in Remarks and Recommendations of Inspector.)

Yes No

3. WAS BOILER OR VESSEL ENTERED FOR THE INSPECTION (If NO, state what was not and why in Remarks and Recommendations of Inspector.)

Yes No

REMARKS AND RECOMMENDATIONS OF THE INSPECTOR

4. LIST ALL DEFICIENCIES TO BE CORRECTED OR REPAIRED (Use a continuation sheet if necessary.)

ASME CSD-1, CW140 REQUIRES 2 LOW WATER FUEL CUTOFF DEVICES. ONE MUST BE EQUIPPED A MANUAL RESET.

45. TYPE OR PRINT NAME OF INSPECTOR

Fred LAWRENCE

45A. SIGNATURE OF INSPECTOR

Fred Lawrence

45B. DATE OF SIGNATURE

11-5-03

45C. INSPECTOR'S NATIONAL BOARD NO.

NB11658

46. PRINT NAME AND TITLE OF REPRESENTATIVE ACCOMPANYING INSPECTOR

46A. SIGNATURE

Donnie Bearden

46B. DATE OF SIGNATURE

46C. REPRESENTATIVE'S TELEPHONE NUMBER

ACTION TAKEN ON RECOMMENDATIONS

47. DATE AND ACTION TAKEN OR TO BE TAKEN

48. TYPE OR PRINT NAME, TITLE AND GRADE OF OFFICER IN CHARGE

Miller Lettin G. COR GS-13

49. SIGNATURE OF OFFICER IN CHARGE

Lettin G. Miller

50. DATE OF SIGNATURE

11/6/03

BOILER OR PRESSURE VESSEL INSPECTION REPORT

HSBCT CONTRACT NUMBER

1. TYPE OF INSPECTION	
Internal and External	<input type="checkbox"/> BA <input type="checkbox"/> VA
Internal/External with Hydrostatic Test (same day)	<input type="checkbox"/> BB <input type="checkbox"/> VB
External Under Operation	<input checked="" type="checkbox"/> BC <input type="checkbox"/> VC
External Under Hydrostatic Test	<input type="checkbox"/> BD <input type="checkbox"/> VD
Expansion/Receiver Tank or Internal with UT	<input type="checkbox"/> BE <input type="checkbox"/> VE

2. INSTALLATION <i>Redstone Arsenal</i>		2A. CITY <i>Huntsville</i>	3. STATE <i>Al.</i>	4. ZIP CODE <i>7668</i>	5. PLANT OR BLDG. <i>7668</i>
3. DATE OF INSPECTION <i>11-5-03</i>		7. DATE OF LAST INSPECTION <i>4-23-03</i>		8. DELIVERY ORDER NO.	
9. CONTRACT NO.		10. OBJECT <input checked="" type="checkbox"/> Fire Tube <input type="checkbox"/> Cast Iron <input type="checkbox"/> Water Tube <input type="checkbox"/> Expansion Tank <input type="checkbox"/> Pressure Vessel		11. PLANT <input type="checkbox"/> Manned <input checked="" type="checkbox"/> Unmanned	
11A. PRESSURE PREVIOUS INSPECTION <i>0</i>	11B. PRESSURE THIS INSPECTION <i>60</i>	12A. YEAR BUILT <i>1997</i>	12B. YEAR INSTALLED <i>1997</i>		
13A. PRIMARY FUEL (Boiler) <i>NAT. GAS</i>	13B. SECONDARY FUEL (Boiler) <i>N/A</i>	14. DESIGN WORKING PRESSURE OR TEMPERATURE <i>150</i>			
15. MANUFACTURER <i>Kewanee</i>	16. MANUFACTURER'S RATING MBTU /LBS. / HR <i>10,462 MBH</i>	17. NATIONAL BOARD NUMBER <i>NB 48441</i>	18. USAF NUMBER <i>#2</i>		
19. USE <input type="checkbox"/> Power <input checked="" type="checkbox"/> Steam Heating <input type="checkbox"/> Process <input type="checkbox"/> Storage <input type="checkbox"/> HTHW Heating <input type="checkbox"/> Heat Exchange <input type="checkbox"/> Other (Specify)					
20. METHOD OF FIRING (Boilers) <i>Auto Burner</i>	21. SAFETY/RELIEF VALVES SETTING <i>150</i>	22. EXPLAIN IF PRESSURE CHANGED		23. PRESSURE GAGE TESTED <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
24. PURPOSE OF HYDROSTATIC TEST <input type="checkbox"/> New <input type="checkbox"/> Retest <input type="checkbox"/> Repair	25. LAST HYDROSTATIC TEST Date: <i>UNK</i> PSI:		26. HYDROSTATIC TEST <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Date: PSI:		

STATEMENT OF BASE CIVIL ENGINEER

27. REPAIRS MADE SINCE LAST INSPECTION
 None Other (Specify)

INTERNAL INSPECTION

28. DESCRIBE INSPECTION FULLY (State location of any damage or deposits, i.e., scale, grease, oil, etc.; any corrosion, pitting, grooving, cracking or lamination; any evidence of overheating, broken or loose items, etc.)
Type C inspection

EXTERNAL INSPECTION

29. CONDITION OF BOILERS, VESSELS AND PLANT (Describe fully and state location of any corrosion, leakages, evidence of overheating, soot or other destructive accumulations, or safety or ASME/NB violations, etc.)
No adverse conditions noted

30. SETTINGS, LININGS, SUPPORTS AND BAFFLES
Good

INSPECTION OF SAFETY DEVICE

31. SAFETY/RELIEF VALVES	32. SIZE Number: <i>1-1/2, 1-1/4</i>	33. TOTAL CAPACITY CFM: BTU/HR: LB/HR: <i>10,852</i>	34. CONDITION AND HOW TESTED <i>TEST SAT BY HAND</i>
35. PRESSURE GAGES	36. CORRECTION TAKEN (if none give reason) <i>SAT</i>		
37. OTHER APPLIANCES	38. CONDITION <i>Clean & Clear</i>		
39. REGULATORS AND CONTROLS	40. CONDITION <i>LWCO & FLAME SENSORS TEST SAT</i>		

41. ASME CODES
Does plant comply with code, welding, materials, configuration, etc? Yes No (Explain)

INSPECTOR STATEMENT

2. WAS BOILER OR VESSEL PREPARED FOR THOROUGH EXAMINATION (If NO, state what was not and why in Remarks and Recommendations of Inspector.)

Yes No

3. WAS BOILER OR VESSEL ENTERED FOR THE INSPECTION (If NO, state what was not and why in Remarks and Recommendations of Inspector.)

Yes No

REMARKS AND RECOMMENDATIONS OF THE INSPECTOR

4. LIST ALL DEFICIENCIES TO BE CORRECTED OR REPAIRED (Use a continuation sheet if necessary.)

No Recommendations

15. TYPE OR PRINT NAME OF INSPECTOR

Fred LAWRENCE

15A. SIGNATURE OF INSPECTOR

Fred Lawrence

45B. DATE OF SIGNATURE

11-5-03

45C. INSPECTOR'S NATIONAL BOARD NO.

NB11658

16. PRINT NAME AND TITLE OF REPRESENTATIVE ACCOMPANYING INSPECTOR

16A. SIGNATURE

Domino Beaudin

46B. DATE OF SIGNATURE

11-6-03

46C. REPRESENTATIVE'S TELEPHONE NUMBER

ACTION TAKEN ON RECOMMENDATIONS

47. DATE AND ACTION TAKEN OR TO BE TAKEN

48. TYPE OR PRINT NAME, TITLE AND GRADE OF OFFICER IN CHARGE

Miller Leslie G. CON 65-13

49. SIGNATURE OF OFFICER IN CHARGE

Leslie G. Miller

50. DATE OF SIGNATURE

11/6/03

BOILER OR PRESSURE VESSEL INSPECTION REPORT

1. TYPE OF INSPECTION	
Internal and External	<input type="checkbox"/> BA <input type="checkbox"/> VA
Internal/External with Hydrostatic Test (same day)	<input type="checkbox"/> BB <input type="checkbox"/> VB
External Under Operation	<input checked="" type="checkbox"/> BC <input type="checkbox"/> VC
External Under Hydrostatic Test	<input type="checkbox"/> BD <input type="checkbox"/> VD
Expansion/Receiver Tank or Internal with UT	<input type="checkbox"/> BE <input type="checkbox"/> VE

HSBCT CONTRACT NUMBER: _____

INSTALLATION <i>Redstone Arsenal</i>	2A. CITY <i>Huntsville</i>	3. STATE <i>Al.</i>	4. ZIP CODE <i>35808</i>	5. PLANT OR BLDG. <i>7668</i>
DATE OF INSPECTION <i>11-5-03</i>	7. DATE OF LAST INSPECTION <i>4-23-03</i>	8. DELIVERY ORDER NO.	9. CONTRACT NO.	

0. OBJECT
 Fire Tube Cast Iron Water Tube Expansion Tank Pressure Vessel

11. PLANT
 Manned Unmanned

1A. PRESSURE PREVIOUS INSPECTION <i>0</i>	11B. PRESSURE THIS INSPECTION <i>50</i>	12A. YEAR BUILT <i>1981</i>	12B. YEAR INSTALLED <i>1981</i>
3A. PRIMARY FUEL (Boiler) <i>NAT. GAS</i>	13B. SECONDARY FUEL (Boiler) <i>N/A</i>	14. DESIGN WORKING PRESSURE OR TEMPERATURE <i>150 PSI</i>	
5. MANUFACTURER <i>Kewanee</i>	16. MANUFACTURER'S RATING MBTU /LBS. /HR <i>16,000 15/HR</i>	17. NATIONAL BOARD NUMBER <i>NR35089</i>	18. USAF NUMBER <i>#4</i>

9. USE
 Power Steam Heating Process Storage HTHW Heating Heat Exchange Other (Specify)

9. METHOD OF FIRING (Boilers) <i>Auto Burner</i>	21. SAFETY/RELIEF VALVES SETTING <i>150</i>	22. EXPLAIN IF PRESSURE CHANGED	23. PRESSURE GAGE TESTED <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
4. PURPOSE OF HYDROSTATIC TEST <input type="checkbox"/> New <input type="checkbox"/> Retest <input type="checkbox"/> Repair	25. LAST HYDROSTATIC TEST Date: <i>unk</i> PSI:	26. HYDROSTATIC TEST <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Date: _____ PSI:	

STATEMENT OF BASE CIVIL ENGINEER

7. REPAIRS MADE SINCE LAST INSPECTION
 None Other (Specify)

INTERNAL INSPECTION

18. DESCRIBE INSPECTION FULLY (State location of any damage or deposits, i.e., scale, grease, oil, etc.; any corrosion, pitting, grooving, cracking or lamination; any evidence of overheating, broken or loose items, etc.)
Type "C" inspection

EXTERNAL INSPECTION

19. CONDITION OF BOILERS, VESSELS AND PLANT (Describe fully and state location of any corrosion, leakages, evidence of overheating, soot or other destructive accumulations, or safety or ASME/NB violations, etc.)
No adverse conditions noted

10. SETTINGS, LININGS, SUPPORTS AND BAFFLES
Good

INSPECTION OF SAFETY DEVICE

31. SAFETY/RELIEF VALVES	32. SIZE Number: <i>2-2"</i>	33. TOTAL CAPACITY CFM: _____ BTU/HR: _____ LB/HR: <i>22,297</i>	34. CONDITION AND HOW TESTED <i>Test SAT by HAND</i>
35. PRESSURE GAGES	36. CORRECTION TAKEN (If none give reason) <i>SAT.</i>		
37. OTHER APPLIANCES	38. CONDITION <i>Clean & Clear</i>		
39. REGULATORS AND CONTROLS	40. CONDITION <i>LUICO & FLAME SENSOR test SAT. NO MANUAL RESET ON LUICO</i>		

41. ASME CODES
 Does plant comply with code, welding, materials, configuration, etc? Yes No (Explain)

INSPECTOR STATEMENT

2. WAS BOILER OR VESSEL PREPARED FOR THOROUGH EXAMINATION (If NO, state what was not and why in Remarks and Recommendations of Inspector.)

Yes No

3. WAS BOILER OR VESSEL ENTERED FOR THE INSPECTION (If NO, state what was not and why in Remarks and Recommendations of Inspector.)

Yes No

REMARKS AND RECOMMENDATIONS OF THE INSPECTOR

4. LIST ALL DEFICIENCIES TO BE CORRECTED OR REPAIRED (Use a continuation sheet if necessary.)

ASME CSD-1, CW140 REQUIRES 2 LOW WATER FUEL CUTOFF DEVICES. ONE MUST BE EQUIPPED WITH A MANUAL RESET.

45. TYPE OR PRINT NAME OF INSPECTOR

Fred LAWRENCE

45A. SIGNATURE OF INSPECTOR

Fred Lawrence

45B. DATE OF SIGNATURE

11-5-03

45C. INSPECTOR'S NATIONAL BOARD NO.

NB11658

46. PRINT NAME AND TITLE OF REPRESENTATIVE ACCOMPANYING INSPECTOR

46A. SIGNATURE

Donnie Beards

46B. DATE OF SIGNATURE

11-6-03

46C. REPRESENTATIVE'S TELEPHONE NUMBER

ACTION TAKEN ON RECOMMENDATIONS

47. DATE AND ACTION TAKEN OR TO BE TAKEN

48. TYPE OR PRINT NAME, TITLE AND GRADE OF OFFICER IN CHARGE

Miller Leslie G. COL GS-13

49. SIGNATURE OF OFFICER IN CHARGE

Leslie G Miller

50. DATE OF SIGNATURE

11/6/03

BOILER OR PRESSURE VESSEL INSPECTION REPORT

HSBCT CONTRACT NUMBER

1. TYPE OF INSPECTION	
Internal and External	<input checked="" type="checkbox"/> BA <input type="checkbox"/> VA
Internal/External with Hydrostatic Test (same day)	<input type="checkbox"/> BB <input type="checkbox"/> VB
External Under Operation	<input type="checkbox"/> BC <input type="checkbox"/> VC
External Under Hydrostatic Test	<input type="checkbox"/> BD <input type="checkbox"/> VD
Expansion/Receiver Tank or Internal with UT	<input type="checkbox"/> BE <input type="checkbox"/> VE

1. INSTALLATION <i>Redstone Arsenal</i>	2A. CITY <i>Huntsville</i>	3. STATE <i>Al.</i>	4. ZIP CODE <i>35808</i>	5. PLANT OR BLDG. <i>7855</i>
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6. DATE OF INSPECTION <i>11-6-03</i>	7. DATE OF LAST INSPECTION <i>4-23-03</i>	8. DELIVERY ORDER NO.	9. CONTRACT NO.
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10. OBJECT <input checked="" type="checkbox"/> Fire Tube <input type="checkbox"/> Cast Iron <input type="checkbox"/> Water Tube <input type="checkbox"/> Expansion Tank <input type="checkbox"/> Pressure Vessel	11. PLANT <input type="checkbox"/> Manned <input checked="" type="checkbox"/> Unmanned
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11A. PRESSURE PREVIOUS INSPECTION <i>60</i>	11B. PRESSURE THIS INSPECTION <i>0</i>	12A. YEAR BUILT <i>2001</i>	12B. YEAR INSTALLED <i>2001</i>
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13A. PRIMARY FUEL (Boiler) <i>NAT. GAS</i>	13B. SECONDARY FUEL (Boiler) <i>oil</i>	14. DESIGN WORKING PRESSURE OR TEMPERATURE <i>150 psi</i>
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15. MANUFACTURER <i>Cleaver Brooks</i>	16. MANUFACTURER'S RATING MBTU / LBS. / HR <i>5,175 lb/hr</i>	17. NATIONAL BOARD NUMBER <i>NB10985</i>	18. USAF NUMBER <i>#1</i>
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19. USE <input type="checkbox"/> Power <input checked="" type="checkbox"/> Steam Heating <input type="checkbox"/> Process <input type="checkbox"/> Storage <input type="checkbox"/> HTHW Heating <input type="checkbox"/> Heat Exchange <input type="checkbox"/> Other (Specify)

20. METHOD OF FIRING (Boilers) <i>Auto Burner</i>	21. SAFETY/RELIEF VALVES SETTING <i>150</i>	22. EXPLAIN IF PRESSURE CHANGED	23. PRESSURE GAGE TESTED <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
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24. PURPOSE OF HYDROSTATIC TEST <input type="checkbox"/> New <input type="checkbox"/> Retest <input type="checkbox"/> Repair	25. LAST HYDROSTATIC TEST Date: <i>n/a</i> PSI:	26. HYDROSTATIC TEST <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Date: PSI:
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STATEMENT OF BASE CIVIL ENGINEER

27. REPAIRS MADE SINCE LAST INSPECTION <input checked="" type="checkbox"/> None <input type="checkbox"/> Other (Specify)

INTERNAL INSPECTION

28. DESCRIBE INSPECTION FULLY (State location of any damage or deposits, i.e., scale, grease, oil, etc.; any corrosion, pitting, grooving, cracking or lamination; any evidence of overheating, broken or loose items, etc.) <i>INDICATION OF OXYGEN CONTAMINATION</i>

EXTERNAL INSPECTION

29. CONDITION OF BOILERS, VESSELS AND PLANT (Describe fully and state location of any corrosion, leakages, evidence of overheating, soot or other destructive accumulations, or safety or ASME/NB violations, etc.) <i>No Adverse Conditions Noted</i>

30. SETTINGS, LININGS, SUPPORTS AND BAFFLES <i>Good</i>
--

INSPECTION OF SAFETY DEVICE

31. SAFETY/RELIEF VALVES	32. SIZE Number: <i>1-1/4, 1-1"</i>	33. TOTAL CAPACITY CFM: BTU/HR: LB/HR: <i>6,817</i>	34. CONDITION AND HOW TESTED <i>Usually SAT Not Tested</i>
35. PRESSURE GAGES	36. CORRECTION TAKEN (if none give reason) <i>SAT</i>		
37. OTHER APPLIANCES	38. CONDITION <i>Clean & Clear</i>		
39. REGULATORS AND CONTROLS	40. CONDITION <i>Visually SAT, Not Tested, boiler idle.</i>		
41. ASME CODES			

Does plant comply with code, welding, materials, configuration, etc? Yes No (Explain)

INSPECTOR STATEMENT

2. WAS BOILER OR VESSEL PREPARED FOR THOROUGH EXAMINATION (If NO, state what was not and why in Remarks and Recommendations of Inspector.)
 Yes No

3. WAS BOILER OR VESSEL ENTERED FOR THE INSPECTION (If NO, state what was not and why in Remarks and Recommendations of Inspector.)
 Yes No

REMARKS AND RECOMMENDATIONS OF THE INSPECTOR

4. LIST ALL DEFICIENCIES TO BE CORRECTED OR REPAIRED (Use a continuation sheet if necessary.)

Proper chemical treatment and blowdowns must be administered to control scale and oxygen

45. TYPE OR PRINT NAME OF INSPECTOR

Fred Lawrence

45A. SIGNATURE OF INSPECTOR

Fred Lawrence

45B. DATE OF SIGNATURE

11-6-03

45C. INSPECTOR'S NATIONAL BOARD NO.

NB 11658

46. PRINT NAME AND TITLE OF REPRESENTATIVE ACCOMPANYING INSPECTOR

46A. SIGNATURE

James Borden

46B. DATE OF SIGNATURE

11-6-03

46C. REPRESENTATIVE'S TELEPHONE NUMBER

ACTION TAKEN ON RECOMMENDATIONS

47. DATE AND ACTION TAKEN OR TO BE TAKEN

48. TYPE OR PRINT NAME, TITLE AND GRADE OF OFFICER IN CHARGE

Miller Lester G. COE GS-13

49. SIGNATURE OF OFFICER IN CHARGE

Lester G. Miller

50. DATE OF SIGNATURE

11/6/03

BOILER OR PRESSURE VESSEL INSPECTION REPORT

HSBCT CONTRACT NUMBER

1. TYPE OF INSPECTION	
Internal and External	<input type="checkbox"/> BA <input type="checkbox"/> VA
Internal/External with Hydrostatic Test (same day)	<input type="checkbox"/> BB <input type="checkbox"/> VB
External Under Operation	<input checked="" type="checkbox"/> BC <input type="checkbox"/> VC
External Under Hydrostatic Test	<input type="checkbox"/> BD <input type="checkbox"/> VD
Expansion/Receiver Tank or Internal with UT	<input type="checkbox"/> BE <input type="checkbox"/> VE

2. INSTALLATION <i>Redstone Arsenal</i>		2A. CITY <i>Huntsville</i>	3. STATE <i>AL</i>	4. ZIP CODE <i>35808</i>	5. PLANT OR BLDG. <i>7855</i>
3. DATE OF INSPECTION <i>11-6-03</i>		7. DATE OF LAST INSPECTION <i>4-23-03</i>		8. DELIVERY ORDER NO.	
9. CONTRACT NO.		10. OBJECT <input checked="" type="checkbox"/> Fire Tube <input type="checkbox"/> Cast Iron <input type="checkbox"/> Water Tube <input type="checkbox"/> Expansion Tank <input type="checkbox"/> Pressure Vessel			
11A. PRESSURE PREVIOUS INSPECTION <i>0</i>		11B. PRESSURE THIS INSPECTION <i>75</i>		11. PLANT <input type="checkbox"/> Manned <input checked="" type="checkbox"/> Unmanned	
12A. YEAR BUILT <i>2001</i>		12B. YEAR INSTALLED <i>2001</i>			
13A. PRIMARY FUEL (Boiler) <i>NAT. GAS</i>		13B. SECONDARY FUEL (Boiler) <i>oil</i>		14. DESIGN WORKING PRESSURE OR TEMPERATURE <i>150</i>	
15. MANUFACTURER <i>Cleaver Brooks</i>		16. MANUFACTURER'S RATING MBTU /LBS. / HR <i>5175 lb/hr</i>		17. NATIONAL BOARD NUMBER <i>NB 10988</i>	
18. USAF NUMBER <i>#2</i>		19. USE <input type="checkbox"/> Power <input checked="" type="checkbox"/> Steam Heating <input type="checkbox"/> Process <input type="checkbox"/> Storage <input type="checkbox"/> HTHW Heating <input type="checkbox"/> Heat Exchange <input type="checkbox"/> Other (Specify)			
20. METHOD OF FIRING (Boilers) <i>Auto Burner</i>		21. SAFETY/RELIEF VALVES SETTING <i>150</i>		22. EXPLAIN IF PRESSURE CHANGED	
23. PRESSURE GAGE TESTED <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		24. PURPOSE OF HYDROSTATIC TEST <input type="checkbox"/> New <input type="checkbox"/> Retest <input type="checkbox"/> Repair			
25. LAST HYDROSTATIC TEST Date: <i>N/A</i> PSI:		26. HYDROSTATIC TEST <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Date: PSI:			

STATEMENT OF BASE CIVIL ENGINEER

27. REPAIRS MADE SINCE LAST INSPECTION
 None Other (Specify)

INTERNAL INSPECTION

28. DESCRIBE INSPECTION FULLY (State location of any damage or deposits, i.e., scale, grease, oil, etc.; any corrosion, pitting, grooving, cracking or lamination; any evidence of overheating, broken or loose items, etc.)
TYPE "C" INSPECTION

EXTERNAL INSPECTION

29. CONDITION OF BOILERS, VESSELS AND PLANT (Describe fully and state location of any corrosion, leakages, evidence of overheating, soot or other destructive accumulations, or safety or ASME/NB violations, etc.)
NO ADVERSE CONDITIONS NOTED

30. SETTINGS, LININGS, SUPPORTS AND BAFFLES

Good

INSPECTION OF SAFETY DEVICE

31. SAFETY/RELIEF VALVES	32. SIZE Number: <i>1-1/4" 1-1"</i>	33. TOTAL CAPACITY CFM: BTU/HR: LB/HR: <i>6817</i>	34. CONDITION AND HOW TESTED <i>Test SAT by hand</i>
35. PRESSURE GAGES	36. CORRECTION TAKEN (if none give reason) <i>SAT</i>		
37. OTHER APPLIANCES	38. CONDITION <i>Clean & Clear</i>		
39. REGULATORS AND CONTROLS	40. CONDITION <i>LWCO & FLAME SENSOR Test SAT</i>		

41. ASME CODES

Does plant comply with code, welding, materials, configuration, etc? Yes No (Explain)

INSPECTOR STATEMENT

2. WAS BOILER OR VESSEL PREPARED FOR THOROUGH EXAMINATION (If NO, state what was not and why in Remarks and Recommendations of Inspector.)

Yes No

3. WAS BOILER OR VESSEL ENTERED FOR THE INSPECTION (If NO, state what was not and why in Remarks and Recommendations of Inspector.)

Yes No

REMARKS AND RECOMMENDATIONS OF THE INSPECTOR

4. LIST ALL DEFICIENCIES TO BE CORRECTED OR REPAIRED (Use a continuation sheet if necessary.)

No RECOMMENDATIONS

45. TYPE OR PRINT NAME OF INSPECTOR

FRED LAWRENCE

45A. SIGNATURE OF INSPECTOR

Fred Lawrence

45B. DATE OF SIGNATURE

11-6-03

45C. INSPECTOR'S NATIONAL BOARD NO.

NB 11658

46. PRINT NAME AND TITLE OF REPRESENTATIVE ACCOMPANYING INSPECTOR

46A. SIGNATURE

Donnie Bearden

46B. DATE OF SIGNATURE

11-6-03

46C. REPRESENTATIVE'S TELEPHONE NUMBER

ACTION TAKEN ON RECOMMENDATIONS

47. DATE AND ACTION TAKEN OR TO BE TAKEN

48. TYPE OR PRINT NAME, TITLE AND GRADE OF OFFICER IN CHARGE

Miller Leslie G. Cdr GS-13

49. SIGNATURE OF OFFICER IN CHARGE

Leslie G Miller

50. DATE OF SIGNATURE

11/6/03

BOILER OR PRESSURE VESSEL INSPECTION REPORT

HSBCT CONTRACT NUMBER

1. TYPE OF INSPECTION	
Internal and External	<input type="checkbox"/> BA <input type="checkbox"/> VA
Internal/External with Hydrostatic Test (same day)	<input type="checkbox"/> BB <input type="checkbox"/> VB
External Under Operation	<input checked="" type="checkbox"/> BC <input type="checkbox"/> VC
External Under Hydrostatic Test	<input type="checkbox"/> BD <input type="checkbox"/> VD
Expansion/Receiver Tank or Internal with UT	<input type="checkbox"/> BE <input type="checkbox"/> VE

1. INSTALLATION <i>Redstone Arsenal</i>		2A. CITY <i>Huntsville</i>		3. STATE <i>Al.</i>	4. ZIP CODE <i>35808</i>	5. PLANT OR BLDG. <i>8028</i>	
6. DATE OF INSPECTION <i>11-6-03</i>		7. DATE OF LAST INSPECTION <i>4-23-03</i>		8. DELIVERY ORDER NO.		9. CONTRACT NO.	
10. OBJECT <input checked="" type="checkbox"/> Fire Tube <input type="checkbox"/> Cast Iron <input type="checkbox"/> Water Tube <input type="checkbox"/> Expansion Tank <input type="checkbox"/> Pressure Vessel						11. PLANT <input type="checkbox"/> Manned <input checked="" type="checkbox"/> Unmanned	
11A. PRESSURE PREVIOUS INSPECTION <i>0</i>		11B. PRESSURE THIS INSPECTION <i>45</i>		12A. YEAR BUILT <i>2001</i>		12B. YEAR INSTALLED <i>2001</i>	
13A. PRIMARY FUEL (Boiler) <i>Oil</i>		13B. SECONDARY FUEL (Boiler) <i>N/A</i>		14. DESIGN WORKING PRESSURE OR TEMPERATURE <i>150</i>			
15. MANUFACTURER <i>Cleaver Brooks</i>		16. MANUFACTURER'S RATING MBTU / LBS. / HR <i>8623 16/hr</i>		17. NATIONAL BOARD NUMBER <i>NB 11227</i>		18. USAF NUMBER <i>#1</i>	
19. USE <input type="checkbox"/> Power <input checked="" type="checkbox"/> Steam Heating <input type="checkbox"/> Process <input type="checkbox"/> Storage <input type="checkbox"/> HTHW Heating <input type="checkbox"/> Heat Exchange <input type="checkbox"/> Other (Specify)							
20. METHOD OF FIRING (Boilers) <i>Auto Burner</i>		21. SAFETY/RELIEF VALVES SETTING <i>150</i>		22. EXPLAIN IF PRESSURE CHANGED		23. PRESSURE GAGE TESTED <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
24. PURPOSE OF HYDROSTATIC TEST <input type="checkbox"/> New <input type="checkbox"/> Retest <input type="checkbox"/> Repair		25. LAST HYDROSTATIC TEST Date: <i>N/A</i> PSI:		26. HYDROSTATIC TEST <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Date: PSI:			

STATEMENT OF BASE CIVIL ENGINEER

27. REPAIRS MADE SINCE LAST INSPECTION
 None Other (Specify)

INTERNAL INSPECTION

28. DESCRIBE INSPECTION FULLY (State location of any damage or deposits, i.e., scale, grease, oil, etc.; any corrosion, pitting, grooving, cracking or lamination; any evidence of overheating, broken or loose items, etc.)
Type "C" inspection

EXTERNAL INSPECTION

29. CONDITION OF BOILERS, VESSELS AND PLANT (Describe fully and state location of any corrosion, leakages, evidence of overheating, soot or other destructive accumulations, or safety or ASME/NB violations, etc.)
No adverse conditions noted

30. SETTINGS, LININGS, SUPPORTS AND BAFFLES

Good

INSPECTION OF SAFETY DEVICE

31. SAFETY/RELIEF VALVES	32. SIZE Number: <i>1-1/4, 1-1"</i>	33. TOTAL CAPACITY CFM: BTU/HR: LB/HR: <i>10,850</i>	34. CONDITION AND HOW TESTED <i>TEST SAT. BY HAND</i>
35. PRESSURE GAGES	36. CORRECTION TAKEN (if none give reason) <i>SAT</i>		
37. OTHER APPLIANCES	38. CONDITION <i>Clean & Clear</i>		
39. REGULATORS AND CONTROLS	40. CONDITION <i>LWCO & FLAME SENSOR TEST SAT</i>		
41. ASME CODES			

Does plant comply with code, welding, materials, configuration, etc? Yes No (Explain)

INSPECTOR STATEMENT

2. WAS BOILER OR VESSEL PREPARED FOR THOROUGH EXAMINATION (If NO, state what was not and why in Remarks and Recommendations of Inspector.)
 Yes No

3. WAS BOILER OR VESSEL ENTERED FOR THE INSPECTION (If NO, state what was not and why in Remarks and Recommendations of Inspector.)
 Yes No

REMARKS AND RECOMMENDATIONS OF THE INSPECTOR

4. LIST ALL DEFICIENCIES TO BE CORRECTED OR REPAIRED (Use a continuation sheet if necessary.)

No recommendations

45. TYPE OR PRINT NAME OF INSPECTOR

Fred LAWRENCE

45A. SIGNATURE OF INSPECTOR

Fred Lawrence

45B. DATE OF SIGNATURE

11-6-03

45C. INSPECTOR'S NATIONAL BOARD NO.

NB 11658

46. PRINT NAME AND TITLE OF REPRESENTATIVE ACCOMPANYING INSPECTOR

46A. SIGNATURE

Donnie Beaulieu

46B. DATE OF SIGNATURE

11-6-03

46C. REPRESENTATIVE'S TELEPHONE NUMBER

ACTION TAKEN ON RECOMMENDATIONS

47. DATE AND ACTION TAKEN OR TO BE TAKEN

48. TYPE OR PRINT NAME, TITLE AND GRADE OF OFFICER IN CHARGE

Miller Kevin G. CAR GS-13

49. SIGNATURE OF OFFICER IN CHARGE

Kevin G. Miller

50. DATE OF SIGNATURE

11/6/03

BOILER OR PRESSURE VESSEL INSPECTION REPORT

HSBCT CONTRACT NUMBER

1. TYPE OF INSPECTION	
Internal and External	<input type="checkbox"/> BA <input type="checkbox"/> VA
Internal/External with Hydrostatic Test (same day)	<input type="checkbox"/> BB <input type="checkbox"/> VB
External Under Operation	<input checked="" type="checkbox"/> BC <input type="checkbox"/> VC
External Under Hydrostatic Test	<input type="checkbox"/> BD <input type="checkbox"/> VD
Expansion/Receiver Tank or Internal with UT	<input type="checkbox"/> BE <input type="checkbox"/> VE

1. INSTALLATION <i>Redstone Arsenal</i>		2A. CITY <i>Huntsville</i>	3. STATE <i>AL</i>	4. ZIP CODE <i>35808</i>	5. PLANT OR BLDG. <i>8018</i>
2. DATE OF INSPECTION <i>11-6-03</i>	7. DATE OF LAST INSPECTION <i>4-23-03</i>	8. DELIVERY ORDER NO.		9. CONTRACT NO.	
3. OBJECT <input checked="" type="checkbox"/> Fire Tube <input type="checkbox"/> Cast Iron <input type="checkbox"/> Water Tube <input type="checkbox"/> Expansion Tank <input type="checkbox"/> Pressure Vessel			11. PLANT <input type="checkbox"/> Manned <input checked="" type="checkbox"/> Unmanned		
1A. PRESSURE PREVIOUS INSPECTION <i>0</i>	11B. PRESSURE THIS INSPECTION <i>45</i>	12A. YEAR BUILT <i>1979</i>	12B. YEAR INSTALLED <i>1979</i>		
3A. PRIMARY FUEL (Boiler) <i>oil</i>	13B. SECONDARY FUEL (Boiler) <i>N/A</i>	14. DESIGN WORKING PRESSURE OR TEMPERATURE <i>150</i>			
5. MANUFACTURER <i>Cleaver Brooks</i>		16. MANUFACTURER'S RATING MBTU /LBS. / HR <i>10,461 lb/hr</i>	17. NATIONAL BOARD NUMBER <i>NIB 45396</i>	18. USAF NUMBER <i>#2</i>	
9. USE <input type="checkbox"/> Power <input checked="" type="checkbox"/> Steam Heating <input type="checkbox"/> Process <input type="checkbox"/> Storage <input type="checkbox"/> HTHW Heating <input type="checkbox"/> Heat Exchange <input type="checkbox"/> Other (Specify)					
10. METHOD OF FIRING (Boilers) <i>Auto Burner</i>	21. SAFETY/RELIEF VALVES SETTING <i>150</i>	22. EXPLAIN IF PRESSURE CHANGED		23. PRESSURE GAGE TESTED <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
14. PURPOSE OF HYDROSTATIC TEST <input type="checkbox"/> New <input type="checkbox"/> Retest <input type="checkbox"/> Repair	25. LAST HYDROSTATIC TEST Date: <i>unk</i> PSI:	26. HYDROSTATIC TEST <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Date: PSI:			

STATEMENT OF BASE CIVIL ENGINEER

17. REPAIRS MADE SINCE LAST INSPECTION
 None Other (Specify)

INTERNAL INSPECTION

18. DESCRIBE INSPECTION FULLY (State location of any damage or deposits, i.e., scale, grease, oil, etc.; any corrosion, pitting, grooving, cracking or lamination; any evidence of overheating, broken or loose items, etc.)
Type "C" inspection

EXTERNAL INSPECTION

19. CONDITION OF BOILERS, VESSELS AND PLANT (Describe fully and state location of any corrosion, leakages, evidence of overheating, soot or other destructive accumulations, or safety or ASME/NB violations, etc.)
No Adverse conditions noted

20. SETTINGS, LININGS, SUPPORTS AND BAFFLES

Good

INSPECTION OF SAFETY DEVICE

1. SAFETY/RELIEF VALVES	32. SIZE Number: <i>2-7"</i>	33. TOTAL CAPACITY CFM: BTU/HR: LB/HR: <i>11,794</i>	34. CONDITION AND HOW TESTED <i>Test SAT. by BRAND</i>
15. PRESSURE GAGES	36. CORRECTION TAKEN (if none give reason) <i>SAT.</i>		
17. OTHER APPLIANCES	38. CONDITION <i>Clean & Clear</i>		
19. REGULATORS AND CONTROLS	40. CONDITION <i>LWCO & FLAME SENSOR TEST SAT</i>		
21. ASME CODES			

Does plant comply with code, welding, materials, configuration, etc? Yes No (Explain)

INSPECTOR STATEMENT

1. WAS BOILER OR VESSEL PREPARED FOR THOROUGH EXAMINATION (If NO, state what was not and why in Remarks and Recommendations of Inspector.)

Yes No

2. WAS BOILER OR VESSEL ENTERED FOR THE INSPECTION (If NO, state what was not and why in Remarks and Recommendations of Inspector.)

Yes No

REMARKS AND RECOMMENDATIONS OF THE INSPECTOR

3. LIST ALL DEFICIENCIES TO BE CORRECTED OR REPAIRED (Use a continuation sheet if necessary.)

No Recommendations

45. TYPE OR PRINT NAME OF INSPECTOR

Fred Lawrence

45A. SIGNATURE OF INSPECTOR

Fred Lawrence

45B. DATE OF SIGNATURE

11-6-03

45C. INSPECTOR'S NATIONAL BOARD NO.

NB 11658

46. PRINT NAME AND TITLE OF REPRESENTATIVE ACCOMPANYING INSPECTOR

46A. SIGNATURE

Donnie Beaulieu

46B. DATE OF SIGNATURE

11-6-03

46C. REPRESENTATIVE'S TELEPHONE NUMBER

ACTION TAKEN ON RECOMMENDATIONS

47. DATE AND ACTION TAKEN OR TO BE TAKEN

48. TYPE OR PRINT NAME, TITLE AND GRADE OF OFFICER IN CHARGE

Miller Leslie G. CDR GS-13

49. SIGNATURE OF OFFICER IN CHARGE

Leslie G. Miller

50. DATE OF SIGNATURE

11/6/03

BOILER OR PRESSURE VESSEL INSPECTION REPORT

HSBCT CONTRACT NUMBER

1. TYPE OF INSPECTION	
Internal and External	<input checked="" type="checkbox"/> BA <input type="checkbox"/> VA
Internal/External with Hydrostatic Test (same day)	<input type="checkbox"/> BB <input type="checkbox"/> VB
External Under Operation	<input type="checkbox"/> BC <input type="checkbox"/> VC
External Under Hydrostatic Test	<input type="checkbox"/> BD <input type="checkbox"/> VD
Expansion/Receiver Tank or Internal with UT	<input type="checkbox"/> BE <input type="checkbox"/> VE

3. INSTALLATION <i>Redstone Arsenal</i>	2A. CITY <i>Huntsville</i>	3. STATE <i>Al.</i>	4. ZIP CODE <i>35808</i>	5. PLANT OR BLDG. <i>8874</i>
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6. DATE OF INSPECTION <i>11-6-03</i>	7. DATE OF LAST INSPECTION <i>4-23-03</i>	8. DELIVERY ORDER NO.	9. CONTRACT NO.
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10. OBJECT <input checked="" type="checkbox"/> Fire Tube <input type="checkbox"/> Cast Iron <input type="checkbox"/> Water Tube <input type="checkbox"/> Expansion Tank <input type="checkbox"/> Pressure Vessel	11. PLANT <input type="checkbox"/> Manned <input checked="" type="checkbox"/> Unmanned
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11A. PRESSURE PREVIOUS INSPECTION <i>28</i>	11B. PRESSURE THIS INSPECTION <i>0</i>	12A. YEAR BUILT <i>1994</i>	12B. YEAR INSTALLED <i>1994</i>
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13A. PRIMARY FUEL (Boiler) <i>NAT GAS OIL</i>	13B. SECONDARY FUEL (Boiler) <i>Oil NONE FOR FWA</i>	14. DESIGN WORKING PRESSURE OR TEMPERATURE <i>150</i>
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15. MANUFACTURER <i>MEAVEL BROOKS</i>	16. MANUFACTURER'S RATING MBTU / LBS. / HR <i>2070 16/HR</i>	17. NATIONAL BOARD NUMBER <i>NB7309</i>	18. USAF NUMBER <i>#1</i>
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19. USE <input type="checkbox"/> Power <input checked="" type="checkbox"/> Steam Heating <input type="checkbox"/> Process <input type="checkbox"/> Storage <input type="checkbox"/> HTHW Heating <input type="checkbox"/> Heat Exchange <input type="checkbox"/> Other (Specify)

20. METHOD OF FIRING (Boilers) <i>Auto Burner</i>	21. SAFETY/RELIEF VALVES SETTING <i>30</i>	22. EXPLAIN IF PRESSURE CHANGED <i>---</i>	23. PRESSURE GAGE TESTED <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
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24. PURPOSE OF HYDROSTATIC TEST <input type="checkbox"/> New <input type="checkbox"/> Retest <input type="checkbox"/> Repair	25. LAST HYDROSTATIC TEST Date: <i>UNK</i> PSI:	26. HYDROSTATIC TEST <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Date: PSI:
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STATEMENT OF BASE CIVIL ENGINEER

27. REPAIRS MADE SINCE LAST INSPECTION
 None Other (Specify)

INTERNAL INSPECTION

28. DESCRIBE INSPECTION FULLY (State location of any damage or deposits, i.e., scale, grease, oil, etc.; any corrosion, pitting, grooving, cracking or lamination; any evidence of overheating, broken or loose items, etc.)
No Adverse Conditions Noted

EXTERNAL INSPECTION

29. CONDITION OF BOILERS, VESSELS AND PLANT (Describe fully and state location of any corrosion, leakages, evidence of overheating, soot or other destructive accumulations, or safety or ASME/NB violations, etc.)
No Adverse Conditions Noted

30. SETTINGS, LININGS, SUPPORTS AND BAFFLES
Good

INSPECTION OF SAFETY DEVICE

31. SAFETY/RELIEF VALVES	32. SIZE Number: <i>1-2"</i>	33. TOTAL CAPACITY CFM: BTU/HR: LB/HR: <i>2711</i>	34. CONDITION AND HOW TESTED <i>Usually SAT</i>
35. PRESSURE GAGES	36. CORRECTION TAKEN (If none give reason) <i>SAT</i>		
37. OTHER APPLIANCES	38. CONDITION <i>Clear & Clear</i>		
39. REGULATORS AND CONTROLS	40. CONDITION <i>Usually SAT. Not tested, boiler idle</i>		

41. ASME CODES
Does plant comply with code, welding, materials, configuration, etc? Yes No (Explain)

INSPECTOR STATEMENT

2. WAS BOILER OR VESSEL PREPARED FOR THOROUGH EXAMINATION (If NO, state what was not and why in Remarks and Recommendations of Inspector.)

Yes No

3. WAS BOILER OR VESSEL ENTERED FOR THE INSPECTION (If NO, state what was not and why in Remarks and Recommendations of Inspector.)

Yes No

REMARKS AND RECOMMENDATIONS OF THE INSPECTOR

4. LIST ALL DEFICIENCIES TO BE CORRECTED OR REPAIRED (Use a continuation sheet if necessary.)

No RECOMMENDATIONS

45. TYPE OR PRINT NAME OF INSPECTOR

Fred LAWRENCE

45A. SIGNATURE OF INSPECTOR

Fred Lawrence

45B. DATE OF SIGNATURE

11-6-03

45C. INSPECTOR'S NATIONAL BOARD NO.

NB11658

46. PRINT NAME AND TITLE OF REPRESENTATIVE ACCOMPANYING INSPECTOR

46A. SIGNATURE

Donnie Bracken

46B. DATE OF SIGNATURE

11-6-03

46C. REPRESENTATIVE'S TELEPHONE NUMBER

ACTION TAKEN ON RECOMMENDATIONS

47. DATE AND ACTION TAKEN OR TO BE TAKEN

48. TYPE OR PRINT NAME, TITLE AND GRADE OF OFFICER IN CHARGE

Mr. Jim Leslie G. COR 65-13

49. SIGNATURE OF OFFICER IN CHARGE

Leslie G. Miller

50. DATE OF SIGNATURE

11/6/03

BOILER OR PRESSURE VESSEL INSPECTION REPORT

HSBCT CONTRACT NUMBER _____

1. TYPE OF INSPECTION	
Internal and External	<input type="checkbox"/> BA <input type="checkbox"/> VA
Internal/External with Hydrostatic Test (same day)	<input type="checkbox"/> BB <input type="checkbox"/> VB
External Under Operation	<input checked="" type="checkbox"/> BC <input type="checkbox"/> VC
External Under Hydrostatic Test	<input type="checkbox"/> BD <input type="checkbox"/> VD
Expansion/Receiver Tank or Internal with UT	<input type="checkbox"/> BE <input type="checkbox"/> VE

2. INSTALLATION <i>Redstone Arsenal</i>	2A. CITY <i>Huntsville</i>	3. STATE <i>AL</i>	4. ZIP CODE <i>35808</i>	5. PLANT OR BLDG. <i>8874</i>
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6. DATE OF INSPECTION <i>11-6-03</i>	7. DATE OF LAST INSPECTION <i>4-23-03</i>	8. DELIVERY ORDER NO.	9. CONTRACT NO.
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10. OBJECT <input checked="" type="checkbox"/> Fire Tube <input type="checkbox"/> Cast iron <input type="checkbox"/> Water Tube <input type="checkbox"/> Expansion Tank <input type="checkbox"/> Pressure Vessel	11. PLANT <input type="checkbox"/> Manned <input checked="" type="checkbox"/> Unmanned
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11A. PRESSURE PREVIOUS INSPECTION <i>0</i>	11B. PRESSURE THIS INSPECTION <i>24</i>	12A. YEAR BUILT <i>1994</i>	12B. YEAR INSTALLED <i>1994</i>
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13A. PRIMARY FUEL (Boiler) <i>oil</i>	13B. SECONDARY FUEL (Boiler) <i>N/A</i>	14. DESIGN WORKING PRESSURE OR TEMPERATURE <i>150</i>
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15. MANUFACTURER <i>Cleaver Brooks</i>	16. MANUFACTURER'S RATING MBTU / LBS. / HR <i>2670 16/hr</i>	17. NATIONAL BOARD NUMBER <i>NB7308</i>	18. USAF NUMBER <i>#2</i>
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19. USE <input type="checkbox"/> Power <input checked="" type="checkbox"/> Steam Heating <input type="checkbox"/> Process <input type="checkbox"/> Storage <input type="checkbox"/> HTHW Heating <input type="checkbox"/> Heat Exchange <input type="checkbox"/> Other (Specify)

20. METHOD OF FIRING (Boilers) <i>Auto Burner</i>	21. SAFETY/RELIEF VALVES SETTING <i>30</i>	22. EXPLAIN IF PRESSURE CHANGED	23. PRESSURE GAGE TESTED <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
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24. PURPOSE OF HYDROSTATIC TEST <input type="checkbox"/> New <input type="checkbox"/> Retest <input type="checkbox"/> Repair	25. LAST HYDROSTATIC TEST Date: <i>UNK</i> PSI:	26. HYDROSTATIC TEST <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Date: _____ PSI:
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STATEMENT OF BASE CIVIL ENGINEER

27. REPAIRS MADE SINCE LAST INSPECTION <input checked="" type="checkbox"/> None <input type="checkbox"/> Other (Specify)

INTERNAL INSPECTION

28. DESCRIBE INSPECTION FULLY (State location of any damage or deposits, i.e., scale, grease, oil, etc.; any corrosion, pitting, grooving, cracking or lamination; any evidence of overheating, broken or loose items, etc.) <i>Type C inspection</i>
--

EXTERNAL INSPECTION

29. CONDITION OF BOILERS, VESSELS AND PLANT (Describe fully and state location of any corrosion, leakages, evidence of overheating, soot or other destructive accumulations, or safety or ASME/NB violations, etc.) <i>No adverse conditions noted</i>

30. SETTINGS, LININGS, SUPPORTS AND BAFFLES <i>Good</i>
--

INSPECTION OF SAFETY DEVICE

31. SAFETY/RELIEF VALVES	32. SIZE Number: <i>1-2"</i>	33. TOTAL CAPACITY CFM: _____ BTU/HR: _____ LB/HR: <i>2983</i>	34. CONDITION AND HOW TESTED <i>Test SAT. by hand</i>
35. PRESSURE GAGES	36. CORRECTION TAKEN (if none give reason) <i>SAT</i>		
37. OTHER APPLIANCES	38. CONDITION <i>CLEAN</i>		
39. REGULATORS AND CONTROLS	40. CONDITION <i>LUCKY test SAT. NO MANUAL RESET</i>		

41. ASME CODES	Does plant comply with code, welding, materials, configuration, etc? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No (Explain)
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INSPECTOR STATEMENT

42. WAS BOILER OR VESSEL PREPARED FOR THOROUGH EXAMINATION (If NO, state what was not and why in Remarks and Recommendations of Inspector.)

Yes No

43. WAS BOILER OR VESSEL ENTERED FOR THE INSPECTION (If NO, state what was not and why in Remarks and Recommendations of Inspector.)

Yes No

REMARKS AND RECOMMENDATIONS OF THE INSPECTOR

44. LIST ALL DEFICIENCIES TO BE CORRECTED OR REPAIRED (Use a continuation sheet if necessary.)

ASME CSD-1, CW140 REQUIRES 2 LOW WATER FUEL CUTOFF DEVICES. ONE MUST BE EQUIPPED WITH A MANUAL RESET.

45. TYPE OR PRINT NAME OF INSPECTOR

Fred LAWRENCE

45A. SIGNATURE OF INSPECTOR

Fred Lawrence

45B. DATE OF SIGNATURE

11-6-03

45C. INSPECTOR'S NATIONAL BOARD NO.

NB11658

46. PRINT NAME AND TITLE OF REPRESENTATIVE ACCOMPANYING INSPECTOR

46A. SIGNATURE

Domino Boardman

46B. DATE OF SIGNATURE

11-6-03

46C. REPRESENTATIVE'S TELEPHONE NUMBER

ACTION TAKEN ON RECOMMENDATIONS

47. DATE AND ACTION TAKEN OR TO BE TAKEN

48. TYPE OR PRINT NAME, TITLE AND GRADE OF OFFICER IN CHARGE

Miller Leake G. COX BS-13

49. SIGNATURE OF OFFICER IN CHARGE

Leake G. Miller

50. DATE OF SIGNATURE

11/6/03

BOILER OR PRESSURE VESSEL INSPECTION REPORT

HSBCT CONTRACT NUMBER

1. TYPE OF INSPECTION	
Internal and External	<input type="checkbox"/> BA <input type="checkbox"/> VA
Internal/External with Hydrostatic Test (same day)	<input type="checkbox"/> BB <input type="checkbox"/> VB
External Under Operation	<input checked="" type="checkbox"/> BC <input type="checkbox"/> VC
External Under Hydrostatic Test	<input type="checkbox"/> BD <input type="checkbox"/> VD
Expansion/Receiver Tank or Internal with UT	<input type="checkbox"/> BE <input type="checkbox"/> VE

1. INSTALLATION <i>Redstone Arsenal</i>		2A. CITY <i> Huntsville</i>		3. STATE <i>AL</i>	4. ZIP CODE <i>35808</i>	5. PLANT OR BLDG. <i>8977</i>	
6. DATE OF INSPECTION <i>11-5-03</i>		7. DATE OF LAST INSPECTION <i>4-23-03</i>		8. DELIVERY ORDER NO.		9. CONTRACT NO.	
10. OBJECT <input checked="" type="checkbox"/> Fire Tube <input type="checkbox"/> Cast Iron <input type="checkbox"/> Water Tube <input type="checkbox"/> Expansion Tank <input type="checkbox"/> Pressure Vessel				11. PLANT <input type="checkbox"/> Manned <input checked="" type="checkbox"/> Unmanned			
11A. PRESSURE PREVIOUS INSPECTION <i>0</i>		11B. PRESSURE THIS INSPECTION <i>60</i>		12A. YEAR BUILT <i>2001</i>		12B. YEAR INSTALLED <i>2001</i>	
13A. PRIMARY FUEL (Boiler) <i>NAT. GAS</i>		13B. SECONDARY FUEL (Boiler) <i>oil</i>		14. DESIGN WORKING PRESSURE OR TEMPERATURE <i>150 PSI</i>			
15. MANUFACTURER <i>Cleaver Brooks</i>		16. MANUFACTURER'S RATING MBTU / LBS. / HR <i>5175 16/HR</i>		17. NATIONAL BOARD NUMBER <i>NB 11225</i>		18. USAF NUMBER <i>#1</i>	
19. USE <input type="checkbox"/> Power <input checked="" type="checkbox"/> Steam Heating <input type="checkbox"/> Process <input type="checkbox"/> Storage <input type="checkbox"/> HTHW Heating <input type="checkbox"/> Heat Exchange <input type="checkbox"/> Other (Specify)							
20. METHOD OF FIRING (Boilers) <i>Auto Burner</i>		21. SAFETY/RELIEF VALVES SETTING		22. EXPLAIN IF PRESSURE CHANGED		23. PRESSURE GAGE TESTED <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
24. PURPOSE OF HYDROSTATIC TEST <input type="checkbox"/> New <input type="checkbox"/> Retest <input type="checkbox"/> Repair		25. LAST HYDROSTATIC TEST Date: <i>N/A</i> PSI:		26. HYDROSTATIC TEST <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Date: PSI:			

STATEMENT OF BASE CIVIL ENGINEER

27. REPAIRS MADE SINCE LAST INSPECTION
 None Other (Specify)

INTERNAL INSPECTION

25. DESCRIBE INSPECTION FULLY (State location of any damage or deposits, i.e., scale, grease, oil, etc.; any corrosion, pitting, grooving, cracking or lamination; any evidence of overheating, broken or loose items, etc.)
Type C inspection

EXTERNAL INSPECTION

29. CONDITION OF BOILERS, VESSELS AND PLANT (Describe fully and state location of any corrosion, leakages, evidence of overheating, soot or other destructive accumulations, or safety or ASME/NB violations, etc.)
No adverse conditions - impressive condition

30. SETTINGS, LININGS, SUPPORTS AND BAFFLES

Good

INSPECTION OF SAFETY DEVICE

31. SAFETY/RELIEF VALVES	32. SIZE Number: <i>1-1/4"</i>	33. TOTAL CAPACITY CFM: BTU/HR: LB/HR: <i>61819</i>	34. CONDITION AND HOW TESTED <i>Test SAT by hand</i>
35. PRESSURE GAGES	38. CORRECTION TAKEN (if none give reason) <i>SAT</i>		
37. OTHER APPLIANCES	38. CONDITION <i>Clean & clear</i>		
39. REGULATORS AND CONTROLS	40. CONDITION <i>LWCO & flame sensor test SAT</i>		

41. ASME CODES

Does plant comply with code, welding, materials, configuration, etc? Yes No (Explain)

INSPECTOR STATEMENT

2. WAS BOILER OR VESSEL PREPARED FOR THOROUGH EXAMINATION (If NO, state what was not and why in Remarks and Recommendations of Inspector.)

Yes No

3. WAS BOILER OR VESSEL ENTERED FOR THE INSPECTION (If NO, state what was not and why in Remarks and Recommendations of Inspector.)

Yes No

REMARKS AND RECOMMENDATIONS OF THE INSPECTOR

4. LIST ALL DEFICIENCIES TO BE CORRECTED OR REPAIRED (Use a continuation sheet if necessary.)

The condition of the boilers, aux. equipment and boiler room is exceptional

45. TYPE OR PRINT NAME OF INSPECTOR

Fred LAWRENCE

45A. SIGNATURE OF INSPECTOR

Fred Lawrence

45B. DATE OF SIGNATURE

11-5-03

45C. INSPECTOR'S NATIONAL BOARD NO.

NB 11658

46. PRINT NAME AND TITLE OF REPRESENTATIVE ACCOMPANYING INSPECTOR

46A. SIGNATURE

Dominic Boudier

46B. DATE OF SIGNATURE

11-6-03

46C. REPRESENTATIVE'S TELEPHONE NUMBER

ACTION TAKEN ON RECOMMENDATIONS

47. DATE AND ACTION TAKEN OR TO BE TAKEN

48. TYPE OR PRINT NAME, TITLE AND GRADE OF OFFICER IN CHARGE

Miller Leslie G. COL GS-13

49. SIGNATURE OF OFFICER IN CHARGE

Leslie G. Miller

50. DATE OF SIGNATURE

11/6/03

BOILER OR PRESSURE VESSEL INSPECTION REPORT

1. TYPE OF INSPECTION	
Internal and External	<input type="checkbox"/> BA <input type="checkbox"/> VA
Internal/External with Hydrostatic Test (same day)	<input type="checkbox"/> BB <input type="checkbox"/> VB
External Under Operation	<input checked="" type="checkbox"/> BC <input type="checkbox"/> VC
External Under Hydrostatic Test	<input type="checkbox"/> BD <input type="checkbox"/> VD
Expansion/Receiver Tank or Internal with UT	<input type="checkbox"/> BE <input type="checkbox"/> VE

HSBCT CONTRACT NUMBER				
1. INSTALLATION <i>Redstone Arsenal</i>	2A. CITY <i>Huntsville</i>	3. STATE <i>AL</i>	4. ZIP CODE <i>35808</i>	5. PLANT OR BLDG. <i>8977</i>
6. DATE OF INSPECTION <i>11-5-03</i>	7. DATE OF LAST INSPECTION <i>4-23-03</i>	8. DELIVERY ORDER NO.	9. CONTRACT NO.	
10. OBJECT <input checked="" type="checkbox"/> Fire Tube <input type="checkbox"/> Cast Iron <input type="checkbox"/> Water Tube <input type="checkbox"/> Expansion Tank <input type="checkbox"/> Pressure Vessel		11. PLANT <input type="checkbox"/> Manned <input checked="" type="checkbox"/> Unmanned		
11A. PRESSURE PREVIOUS INSPECTION <i>0</i>	11B. PRESSURE THIS INSPECTION <i>75</i>	12A. YEAR BUILT <i>1999</i>	12B. YEAR INSTALLED <i>1999</i>	
13A. PRIMARY FUEL (Boiler) <i>NAT. GAS</i>	13B. SECONDARY FUEL (Boiler) <i>oil</i>	14. DESIGN WORKING PRESSURE OR TEMPERATURE <i>150 psi</i>		
15. MANUFACTURER <i>Cleaver Brooks</i>	16. MANUFACTURER'S RATING MBTU / LBS. / HR <i>3450 lb/hr</i>	17. NATIONAL BOARD NUMBER <i>NB10194</i>	18. USAF NUMBER <i>#1</i>	
19. USE <input type="checkbox"/> Power <input checked="" type="checkbox"/> Steam Heating <input type="checkbox"/> Process <input type="checkbox"/> Storage <input type="checkbox"/> HTHW Heating <input type="checkbox"/> Heat Exchange <input type="checkbox"/> Other (Specify)				
20. METHOD OF FIRING (Boilers) <i>Auto Burner</i>	21. SAFETY/RELIEF VALVES SETTING <i>150</i>	22. EXPLAIN IF PRESSURE CHANGED		23. PRESSURE GAGE TESTED <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
24. PURPOSE OF HYDROSTATIC TEST <input type="checkbox"/> New <input type="checkbox"/> Retest <input type="checkbox"/> Repair		25. LAST HYDROSTATIC TEST Date: <i>1/1/04</i> PSI:		26. HYDROSTATIC TEST <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Date: PSI:

STATEMENT OF BASE CIVIL ENGINEER

27. REPAIRS MADE SINCE LAST INSPECTION
 None Other (Specify)

INTERNAL INSPECTION

28. DESCRIBE INSPECTION FULLY (State location of any damage or deposits, i.e., scale, grease, oil, etc.; any corrosion, pitting, grooving, cracking or lamination; any evidence of overheating, broken or loose items, etc.)
TYPE "C" INSPECTION

EXTERNAL INSPECTION

29. CONDITION OF BOILERS, VESSELS AND PLANT (Describe fully and state location of any corrosion, leakages, evidence of overheating, soot or other destructive accumulations, or safety or ASME/NB violations, etc.)
No adverse conditions noted

30. SETTINGS, LININGS, SUPPORTS AND BAFFLES
Good

INSPECTION OF SAFETY DEVICE

31. SAFETY/RELIEF VALVES	32. SIZE Number: <i>1-1/4</i>	33. TOTAL CAPACITY CFM: BTU/HR: LB/HR: <i>4234</i>	34. CONDITION AND HOW TESTED <i>Test SAT by hand</i>
35. PRESSURE GAGES	36. CORRECTION TAKEN (if none give reason) <i>SAT.</i>		
37. OTHER APPLIANCES	38. CONDITION <i>Clean & Clear</i>		
39. REGULATORS AND CONTROLS	40. CONDITION <i>LWCO & FLAME SENSOR Test SAT.</i>		

41. ASME CODES
 Does plant comply with code, welding, materials, configuration, etc? Yes No (Explain)

INSPECTOR STATEMENT

2. WAS BOILER OR VESSEL PREPARED FOR THOROUGH EXAMINATION (If NO, state what was not and why in Remarks and Recommendations of Inspector.)
 Yes No

3. WAS BOILER OR VESSEL ENTERED FOR THE INSPECTION (If NO, state what was not and why in Remarks and Recommendations of Inspector.)
 Yes No

REMARKS AND RECOMMENDATIONS OF THE INSPECTOR

4. LIST ALL DEFICIENCIES TO BE CORRECTED OR REPAIRED (Use a continuation sheet if necessary.)

No Recommendations

45. TYPE OR PRINT NAME OF INSPECTOR

Fred LAWRENCE

45A. SIGNATURE OF INSPECTOR

Fred Lawrence

45B. DATE OF SIGNATURE

11-5-03

45C. INSPECTOR'S NATIONAL BOARD NO.

NB 11658

46. PRINT NAME AND TITLE OF REPRESENTATIVE ACCOMPANYING INSPECTOR

46A. SIGNATURE

Donnie Beardsley

46B. DATE OF SIGNATURE

11-6-03

46C. REPRESENTATIVE'S TELEPHONE NUMBER

ACTION TAKEN ON RECOMMENDATIONS

47. DATE AND ACTION TAKEN OR TO BE TAKEN

48. TYPE OR PRINT NAME, TITLE AND GRADE OF OFFICER IN CHARGE

Miller Leslie G. CON 65-13

49. SIGNATURE OF OFFICER IN CHARGE

Leslie G Miller

50. DATE OF SIGNATURE

11/6/02