

ATTACHMENT

**BOILER INSPECTION REPORTS
AF1222**

**FORT JACKSON VISIT NO. 1
NOVEMBER 4-5, 2003**

DECEMBER 10, 2003

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	
2. INSTALLATION Fort Jackson		2A. CITY Columbia	3. STATE SC	4. ZIP CODE 29207
				5. PLANT OR BLDG. 1875
6. DATE OF INSPECTION 4 Nov 2003		7. DATE OF LAST INSPECTION Approx 3 yrs ago		8. DELIVERY ORDER NO.
				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 UNKNOWN		11B. PRESSURE THIS INSPECTION 100		12A. YEAR BUILT 1995
				12B. YEAR INSTALLED
13A. PRIMARY FUEL (Boiler) Nat Gas		13B. SECONDARY FUEL (Boiler) None		14. DESIGN WORKING PRESSURE OR TEMPERATURE 100
15. MANUFACTURER Parker		16. MANUFACTURER'S RATING MBTU /LBS. / HR 278 SQFTHS 2100 lbs/hr		17. NATIONAL BOARD NUMBER 45145
				18. USAF NUMBER 1
19. USE				
<input type="checkbox"/> Power <input type="checkbox"/> Steam Heating <input type="checkbox"/> Process <input type="checkbox"/> Storage <input type="checkbox"/> HTHW Heating <input type="checkbox"/> Heat Exchange <input checked="" type="checkbox"/> Other (Specify) <i>Cooking</i>				
20. METHOD OF FIRING (Boilers)		21. SAFETY/RELIEF VALVES SETTING 100		22. EXPLAIN IF PRESSURE CHANGED
				23. PRESSURE GAGE TESTED <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
24. PURPOSE OF HYDROSTATIC TEST <input checked="" type="checkbox"/> New <input type="checkbox"/> Retest <input type="checkbox"/> Repair		25. LAST HYDROSTATIC TEST Date: 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) *Routine MAintenance*

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.)
IN 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.)
Range of pressure gage is inadequate (0-100). Front & Rear drain connections severely corroded. Both sides & rear casing have moderate corrosion. SV discharge piping has no drain hole in elbow

30. SETTINGS, LININGS, SUPPORTS AND BAFFLES
Appear Satisfactory

INSPECTION OF SAFETY DEVICE

31. SAFETY/RELIEF VALVES	32. SIZE Number: <i>1</i>	33. TOTAL CAPACITY CFM: BTU/HR: LB/HR: <i>4600</i>	34. CONDITION AND HOW TESTED <i>Manually - by hand</i>
35. PRESSURE GAGES	36. CORRECTION TAKEN (If none give reason) <i>None in operation - appear satisfactory</i>		
37. OTHER APPLIANCES	38. CONDITION <i>Appear Satisfactory</i>		
39. REGULATORS AND CONTROLS	40. CONDITION <i>Appear Satisfactory</i>		
41. ASME CODES			
Does plant comply with code, welding, materials, configuration, etc? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> 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.)

- ① Boiler in operation
- ② Replace pressure gage with a new gage having a range of 0-150 but no greater than 0-200.
- ③ Front & rear lower drain connections from down comers require further inspection to determine source of leakage/corrosion
- ④ Install drain hole in SV discharge elbow
- ⑤ Clean and pressure both sub and rear casing to prevent further deterioration

45. TYPE OR PRINT NAME OF INSPECTOR

John A. Dognazzi

45A. SIGNATURE OF INSPECTOR

John A. Dognazzi

45B. DATE OF SIGNATURE

4 November 2003

45C. INSPECTOR'S NATIONAL BOARD NO.

8107

46. PRINT NAME AND TITLE OF REPRESENTATIVE ACCOMPANYING INSPECTOR

Don Silvey **WORK LEADER**

46A. SIGNATURE

Don Silvey

46B. DATE OF SIGNATURE

11/5/03

46C. REPRESENTATIVE'S TELEPHONE NUMBER

803-751-1465

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

49. SIGNATURE OF OFFICER IN CHARGE

50. DATE OF SIGNATURE

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	
2. INSTALLATION Fort Jackson		2A. CITY Columbia		3. STATE SC
		4. ZIP CODE 29207	5. PLANT OR BLDG. 1895 Recp' Cntr	
6. DATE OF INSPECTION 4 Nov 2003		7. DATE OF LAST INSPECTION 1st inspection		8. DELIVERY ORDER NO.
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 unknown		11B. PRESSURE THIS INSPECTION 80		12A. YEAR BUILT 1987
				12B. YEAR INSTALLED 1987
13A. PRIMARY FUEL (Boiler) Nat Gas		13B. SECONDARY FUEL (Boiler) None		14. DESIGN WORKING PRESSURE OR TEMPERATURE 100
15. MANUFACTURER Parker Boiler		16. MANUFACTURER'S RATING MBTU/LBS./HR 23259 FTHS 1680 lbs/hr		17. NATIONAL BOARD NUMBER 34987
				18. USAF NUMBER #1
19. USE <input type="checkbox"/> Power <input type="checkbox"/> Steam Heating <input type="checkbox"/> Process <input type="checkbox"/> Storage <input type="checkbox"/> HTHW Heating <input type="checkbox"/> Heat Exchange <input checked="" type="checkbox"/> Other (Specify) <i>Cooking</i>				
20. METHOD OF FIRING (Boilers) Auto burner		21. SAFETY/RELIEF VALVES SETTING 100		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: 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) *Routine Maintenance*

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.)
in 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.)
Lower Rear drain connection shows severe corrosion. No Anti-Siphon (pigtail) installed on pressure gage. Ladaker column Tri-cock handles are broken.

30. SETTINGS, LININGS, SUPPORTS AND BAFFLES

Appear satisfactory

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>2947</i>	34. CONDITION AND HOW TESTED <i>Manually - by hand</i>
35. PRESSURE GAGES	36. CORRECTION TAKEN (if none give reason) <i>None Appear Satisfactory</i>		
37. OTHER APPLIANCES	38. CONDITION <i>Appear Satisfactory</i>		
39. REGULATORS AND CONTROLS	40. CONDITION <i>Appear Satisfactory</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.)

- ① Boiler in operation
- ② Replace 3 Tri-cock handles
- ③ Lower rear drain connection on rear downcomer requires further inspection to determine source of leakage causing corrosion
- ④ Install anti-siphon device on pressure gage.

45. TYPE OR PRINT NAME OF INSPECTOR

John A. Dognazzi

45A. SIGNATURE OF INSPECTOR

John A. Dognazzi

45B. DATE OF SIGNATURE

14 November 2003

45C. INSPECTOR'S NATIONAL BOARD NO.

8107

46. PRINT NAME AND TITLE OF REPRESENTATIVE ACCOMPANYING INSPECTOR

DAN SILVEY WORK LEADER

46A. SIGNATURE

Dan Silvey

46B. DATE OF SIGNATURE

11/5/03

46C. REPRESENTATIVE'S TELEPHONE NUMBER

803-751-1465

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

49. SIGNATURE OF OFFICER IN CHARGE

50. DATE OF SIGNATURE

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	
2. INSTALLATION Fort Jackson		2A. CITY Columbia		3. STATE SC
4. ZIP CODE 29207		5. PLANT OR BLDG. 2230 Messhall		
6. DATE OF INSPECTION 4 Nov 2003	7. DATE OF LAST INSPECTION 1st inspection	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 1st inspection	11B. PRESSURE THIS INSPECTION 30	12A. YEAR BUILT 2003	12B. YEAR INSTALLED 2003	
13A. PRIMARY FUEL (Boiler) Nat Gas	13B. SECONDARY FUEL (Boiler)	14. DESIGN WORKING PRESSURE OR TEMPERATURE 150		
15. MANUFACTURER Hurst	16. MANUFACTURER'S RATING MBTU / LBS. / HR 86894ths 1035 lbs/hr	17. NATIONAL BOARD NUMBER 938	18. USAF NUMBER 1	
19. USE <input type="checkbox"/> Power <input type="checkbox"/> Steam Heating <input type="checkbox"/> Process <input checked="" type="checkbox"/> Storage <input type="checkbox"/> HTHW Heating <input type="checkbox"/> Heat Exchange <input checked="" type="checkbox"/> Other (Specify) Cooking				
20. METHOD OF FIRING (Boilers) Auto burner	21. SAFETY/RELIEF VALVES SETTING 40	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: 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) **New installation**

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.)
In 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
Satisfactory

INSPECTION OF SAFETY DEVICE

31. SAFETY/RELIEF VALVES	32. SIZE Number: 1/4	33. TOTAL CAPACITY CFM: BTU/HR: LB/HR: 1419	34. CONDITION AND HOW TESTED Manually by hand
35. PRESSURE GAGES	36. CORRECTION TAKEN (if none give reason) New gage		
37. OTHER APPLIANCES	38. CONDITION Satisfactory		
39. REGULATORS AND CONTROLS	40. CONDITION Satisfactory		

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.)

① Boiler not constructed with manway opening - Boiler inoperable
No adverse conditions
No Recommendations

45. TYPE OR PRINT NAME OF INSPECTOR

John A. Dognazzi

45A. SIGNATURE OF INSPECTOR

45B. DATE OF SIGNATURE

45C. INSPECTOR'S NATIONAL BOARD NO.

[Handwritten Signature]

4 November 2003

8107

46. PRINT NAME AND TITLE OF REPRESENTATIVE ACCOMPANYING INSPECTOR

DAW J LUEY WORK LEADER

46A. SIGNATURE

46B. DATE OF SIGNATURE

46C. REPRESENTATIVE'S TELEPHONE NUMBER

[Handwritten Signature]

11/5/03

803-751-1465

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

49. SIGNATURE OF OFFICER IN CHARGE

50. DATE OF SIGNATURE

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

2. INSTALLATION Fort Jackson	2A. CITY Columbia	3. STATE SC	4. ZIP CODE 29207	5. PLANT OR BLDG. 2260 Mess Hall
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6. DATE OF INSPECTION 4 Nov 2003	7. DATE OF LAST INSPECTION	8. DELIVERY ORDER NO.	9. CONTRACT NO.
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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
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11A. PRESSURE PREVIOUS INSPECTION 45	11B. PRESSURE THIS INSPECTION Idle	12A. YEAR BUILT 1998	12B. YEAR INSTALLED 1998
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13A. PRIMARY FUEL (Boiler) Nat GAS	13B. SECONDARY FUEL (Boiler) None	14. DESIGN WORKING PRESSURE OR TEMPERATURE 100
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15. MANUFACTURER Parker Ble Co	16. MANUFACTURER'S RATING MBTU / LBS. / HR 1035 lbs/hr HS 172 ^{PI}	17. NATIONAL BOARD NUMBER 49111	18. USAF NUMBER 1
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19. USE <input type="checkbox"/> Power <input type="checkbox"/> Steam Heating <input type="checkbox"/> Process <input type="checkbox"/> Storage <input type="checkbox"/> HTHW Heating <input type="checkbox"/> Heat Exchange <input checked="" type="checkbox"/> Other (Specify) <i>Cooking</i>
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20. METHOD OF FIRING (Boilers) Auto burner	21. SAFETY/RELIEF VALVES SETTING 100	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: 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) <i>Routine maintenance</i>
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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>Front & Rear downcomer drains severely corroded</i>
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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/NS violations, etc.) <i>No Anti-siphon device on pressure gage, Left side casing paint deteriorated from previous leak</i>
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30. SETTINGS, LININGS, SUPPORTS AND BAFFLES <i>Some corrosion on front & rear supports</i>

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>2947</i>	34. CONDITION AND HOW TESTED
35. PRESSURE GAGES	36. CORRECTION TAKEN (if none give reason) <i>None - boiler idle so this factory</i>		
37. OTHER APPLIANCES	38. CONDITION <i>Appear satisfactory</i>		
39. REGULATORS AND CONTROLS	40. CONDITION <i>Appear satisfactory</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.)

- ① Boiler not constructed with manway opening
- ② Install anti-siphon device at inlet of pressure gage
- ③ Clean and preserve boiler casing to prevent further deterioration

45. TYPE OR PRINT NAME OF INSPECTOR

John A. Dognazzi

45A. SIGNATURE OF INSPECTOR

John A. Dognazzi

45B. DATE OF SIGNATURE

4 December 2003

45C. INSPECTOR'S NATIONAL BOARD NO.

8107

46. PRINT NAME AND TITLE OF REPRESENTATIVE ACCOMPANYING INSPECTOR

DAN SILVER WORK LEADER

46A. SIGNATURE

Dan Silver

46B. DATE OF SIGNATURE

11/5/03

46C. REPRESENTATIVE'S TELEPHONE NUMBER

903-751-1465

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

49. SIGNATURE OF OFFICER IN CHARGE

50. DATE OF SIGNATURE

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	
2. INSTALLATION Fort Jackson		2A. CITY Columbia		3. STATE SC
		4. ZIP CODE 29207		5. PLANT OR BLDG. 3210
6. DATE OF INSPECTION 5 Nov 2003		7. DATE OF LAST INSPECTION 1st insp		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 1st insp		11B. PRESSURE THIS INSPECTION 30		12A. YEAR BUILT 2000
				12B. YEAR INSTALLED 2000
13A. PRIMARY FUEL (Boiler) Nat Gas		13B. SECONDARY FUEL (Boiler) None		14. DESIGN WORKING PRESSURE OR TEMPERATURE 150
15. MANUFACTURER Hurst		16. MANUFACTURER'S RATING MBTU/LBS./HR 1380 lbs/hr		17. NATIONAL BOARD NUMBER 8116
				18. USAF NUMBER 1
19. USE <input type="checkbox"/> Power <input type="checkbox"/> Steam Heating <input type="checkbox"/> Process <input checked="" type="checkbox"/> Storage <input type="checkbox"/> HTHW Heating <input type="checkbox"/> Heat Exchange <input checked="" type="checkbox"/> Other (Specify) <i>Cooking</i>				
20. METHOD OF FIRING (Boilers) Auto burner		21. SAFETY/RELIEF VALVES SETTING 100		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: 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) *Routine Maintenance*

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.)
IN 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.)
Pressure gage Range inadequate (0-100). No tri-cocks installed on water column. Exposed electrical wiring for burner controls. Modulating gas valve vent disconnected. Pet cock drain on gage glass leaking

30. SETTINGS, LININGS, SUPPORTS AND BAFFLES
Appear satisfactory

INSPECTION OF SAFETY DEVICE

31. SAFETY/RELIEF VALVES	32. SIZE Number: <i>1</i>	33. TOTAL CAPACITY CFM: BTU/HR: LB/HR: <i>1797</i>	34. CONDITION AND HOW TESTED <i>Not tested - unable to reach handle for safety due to hot piping</i>
35. PRESSURE GAGES	36. CORRECTION TAKEN (if none give reason) <i>None Appear satisfactory</i>		
37. OTHER APPLIANCES	38. CONDITION <i>Appear satisfactory</i>		
39. REGULATORS AND CONTROLS	40. CONDITION <i>Appear satisfactory</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.)

- ① Boiler in operation
- ② Connect gas modulating valve vent
- ③ Install loose wiring in Box
- ④ Replace pressure gage with range of 1 1/2 to 2 times MAWP (22.5 psi to 300 psi)
- ⑤ Replace drain valve on bottom of gage glass
Insert - R.G.P. per Al. Dognazzi 7/21/03

45. TYPE OR PRINT NAME OF INSPECTOR

John A. Dognazzi

45A. SIGNATURE OF INSPECTOR

John A. Dognazzi

45B. DATE OF SIGNATURE

5 Nov 2003

45C. INSPECTOR'S NATIONAL BOARD NO.

8107

46. PRINT NAME AND TITLE OF REPRESENTATIVE ACCOMPANYING INSPECTOR

DAN SILVEY WORK LEADER

46A. SIGNATURE

Dan Silvey

46B. DATE OF SIGNATURE

11/5/03

46C. REPRESENTATIVE'S TELEPHONE NUMBER

803-751-1465

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

49. SIGNATURE OF OFFICER IN CHARGE

50. DATE OF SIGNATURE

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		
2. INSTALLATION Fort Jackson		2A. CITY Columbia	3. STATE SC	4. ZIP CODE 29207
6. DATE OF INSPECTION 5 Nov 2003		7. DATE OF LAST INSPECTION 1st insp	8. DELIVERY ORDER NO.	9. CONTRACT NO. 4210 Mess hall
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 1st inspection	11B. PRESSURE THIS INSPECTION 75	12A. YEAR BUILT 1999	12B. YEAR INSTALLED 1999	
13A. PRIMARY FUEL (Boiler) Nat Gas	13B. SECONDARY FUEL (Boiler) None	14. DESIGN WORKING PRESSURE OR TEMPERATURE 150		
15. MANUFACTURER Donlec	16. MANUFACTURER'S RATING MBTU / LBS. / HR 62.6 sq ft HS 1035 lbs/hr	17. NATIONAL BOARD NUMBER 28212	18. USAF NUMBER 1	
19. USE <input type="checkbox"/> Power <input type="checkbox"/> Steam Heating <input type="checkbox"/> Process <input checked="" type="checkbox"/> Storage <input type="checkbox"/> HTHW Heating <input type="checkbox"/> Heat Exchange <input checked="" type="checkbox"/> Other (Specify) <i>Cooking</i>				
20. METHOD OF FIRING (Boilers) Auto burner	21. SAFETY/RELIEF VALVES SETTING 150	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: 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) *Routine Maintenance*

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.)

1st 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.)
Secondary LWCO failed to function. Upper front and right side lower rear hand hole gaskets leaking. No Anti-siphon devices on pressure gage and 3 pressure controllers. No crosses installed @ inlet to both LWCO's. Missing tri-cock on LWCO

30. SETTINGS, LININGS, SUPPORTS AND BAFFLES

Appear satisfactory

INSPECTION OF SAFETY DEVICE

31. SAFETY/RELIEF VALVES	32. SIZE Number: <i>1</i>	33. TOTAL CAPACITY CFM: BTU/HR: LB/HR: <i>2581</i>	34. CONDITION AND HOW TESTED <i>Not tested - Not accessible to Reach</i>
35. PRESSURE GAGES	36. CORRECTION TAKEN (if none give reason) <i>Appear satisfactory - Boiler in operation</i>		
37. OTHER APPLIANCES	38. CONDITION <i>Appear satisfactory</i>		
39. REGULATORS AND CONTROLS	40. CONDITION <i>Appear satisfactory</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.)

- ① Boiler in operation
- ② Replace secondary LWCO
- ③ Prepare boiler for internal inspection
- ④ Install anti-siphon devices on pressure gage on 3 pressure controllers
- ⑤ Install cross's in place of T fittings on inlet piping to both LWCO's
- ⑥ Install measuring fire-cock

45. TYPE OR PRINT NAME OF INSPECTOR

John A. Dognazzi

45A. SIGNATURE OF INSPECTOR

John A. Dognazzi

45B. DATE OF SIGNATURE

5 Nov 2003

45C. INSPECTOR'S NATIONAL BOARD NO.

8107

46. PRINT NAME AND TITLE OF REPRESENTATIVE ACCOMPANYING INSPECTOR

DAN Silvey Work LEADER

46A. SIGNATURE

Dan Silvey

46B. DATE OF SIGNATURE

11/5/03

46C. REPRESENTATIVE'S TELEPHONE NUMBER

803-751-1465

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

49. SIGNATURE OF OFFICER IN CHARGE

50. DATE OF SIGNATURE

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 Fort Jackson	2A. CITY Columbia	3. STATE SC	4. ZIP CODE 29207	5. PLANT OR BLDG. 4270 Messhall
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6. DATE OF INSPECTION 5 Nov 2003	7. DATE OF LAST INSPECTION First inspection	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 1st Insp	11B. PRESSURE THIS INSPECTION 75	12A. YEAR BUILT 1999	12B. YEAR INSTALLED 1999
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13A. PRIMARY FUEL (Boiler) Nat Gas	13B. SECONDARY FUEL (Boiler) None	14. DESIGN WORKING PRESSURE OR TEMPERATURE 150
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15. MANUFACTURER Donco	16. MANUFACTURER'S RATING MBTU /LBS. / HR 6216 sqftHS 1035 lbs/hr	17. NATIONAL BOARD NUMBER 28187	18. USAF NUMBER 1
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19. USE <input type="checkbox"/> Power <input type="checkbox"/> Steam Heating <input type="checkbox"/> Process <input type="checkbox"/> Storage <input type="checkbox"/> HTHW Heating <input type="checkbox"/> Heat Exchange <input checked="" type="checkbox"/> Other (Specify) Cooking
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20. METHOD OF FIRING (Boilers) Auto burner	21. SAFETY/RELIEF VALVES SETTING 150	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: 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) Routine Maintenance
--

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.)
in 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 Anti-siphon devices on pressure gage and 3 pressure controllers. One tri-cock missing from water column. Secondary LWCO in hot piping is T, should be cross, same with primary LWCO. Front upper hand hole plate and 2 lower near-hand hole plates - gaskets leaking. Secondary LWCO failed to function.

30. SETTINGS, LININGS, SUPPORTS AND BAFFLES
Appear satisfactory

INSPECTION OF SAFETY DEVICE

31. SAFETY/RELIEF VALVES	32. SIZE Number: 1"	33. TOTAL CAPACITY CFM: BTU/HR: LB/HR: 2581	34. CONDITION AND HOW TESTED Not tested - Not accessible to reach
35. PRESSURE GAGES	36. CORRECTION TAKEN (If none give reason) Appear satisfactory - none out of order in operation		
37. OTHER APPLIANCES	38. CONDITION Appear satisfactory		
39. REGULATORS AND CONTROLS	40. CONDITION Appear satisfactory		

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.)

- ① Boiler in operation
- ② Replace secondary LWCO
- ③ Prepare boiler for internal inspection
- ④ Install anti-siphon devices on pressure gauge and 3 pressure controllers
- ⑤ Install crosses in place of T fittings on inlet piping to both LWCO's
- ⑥ Install missing tri-cock

45. TYPE OR PRINT NAME OF INSPECTOR

John A. Dognazzi

45A. SIGNATURE OF INSPECTOR

John A. Dognazzi

45B. DATE OF SIGNATURE

5 Nov 2003

45C. INSPECTOR'S NATIONAL BOARD NO.

8107

46. PRINT NAME AND TITLE OF REPRESENTATIVE ACCOMPANYING INSPECTOR

DAN SILVEY WORK LEADER

46A. SIGNATURE

Dan Silvey

46B. DATE OF SIGNATURE

11/5/03

46C. REPRESENTATIVE'S TELEPHONE NUMBER

803-751-1465

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

49. SIGNATURE OF OFFICER IN CHARGE

50. DATE OF SIGNATURE

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

2. INSTALLATION Fort Jackson	2A. CITY Columbia	3. STATE SC	4. ZIP CODE 29207	5. PLANT OR BLDG. 4420 Mess Hall
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6. DATE OF INSPECTION 4 Nov 2003	7. DATE OF LAST INSPECTION First inspection	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 First insp	11B. PRESSURE THIS INSPECTION Idle	12A. YEAR BUILT 1999	12B. YEAR INSTALLED 1999
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13A. PRIMARY FUEL (Boiler) Nat Gas	13B. SECONDARY FUEL (Boiler) None	14. DESIGN WORKING PRESSURE OR TEMPERATURE 150
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15. MANUFACTURER Danver	16. MANUFACTURER'S RATING MBTU/LBS/HR 49.2 Sqft 863 lbs/hr	17. NATIONAL BOARD NUMBER 28136	18. USAF NUMBER #1 (SB'3)
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19. USE <input type="checkbox"/> Power <input type="checkbox"/> Steam Heating <input type="checkbox"/> Process <input type="checkbox"/> Storage <input type="checkbox"/> HTHW Heating <input type="checkbox"/> Heat Exchange <input checked="" type="checkbox"/> Other (Specify) Boiling only

20. METHOD OF FIRING (Boilers) Auto burner	21. SAFETY/RELIEF VALVES SETTING 150	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: 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 type="checkbox"/> None <input type="checkbox"/> Other (Specify) Routine Maintenance

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.) **Primary LWCO float chamber has significant quantity of sediment. Float also coated in thick sediment. Secondary LWCO float chamber also has significant quantity of sediment. Floats also coated in thick sediment. Moderate scale & sediment on water legs. Feed water valve and steam stop valve both leak free.**

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.) **Water column missing top T/Cock. Secondary LWCO connection piping, lower end requires cross instead of T. Pressure gage & 3 pressure controllers missing anti siphon (pigtail). Pressure gage Range is inadequate (0-100 psi).**

30. SETTINGS, LININGS, SUPPORTS AND BAFFLES Appears satisfactory
--

INSPECTION OF SAFETY DEVICE

31. SAFETY/RELIEF VALVES	32. SIZE Number: 3/4	33. TOTAL CAPACITY CFM: BTU/HR: LB/HR: 1653	34. CONDITION AND HOW TESTED Manually Recently installed
35. PRESSURE GAGES	36. CORRECTION TAKEN (If none give reason) None - under code		
37. OTHER APPLIANCES	38. CONDITION Appear satisfactory		
39. REGULATORS AND CONTROLS	40. CONDITION appear Satisfactory		

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.)

- ① Boiler not constructed with manway opening
- ② Replace or repair both feed valve and steam valve due to leaking
- ③ Flush both LWCO Chambers of sediment, clean floats of adhered sediment
- ④ Flush all loose scale and sediment from water legs
- ⑤ Install Tri-cock in water column
- ⑥ Replace T fitting ~~with~~ with cross fitting on secondary LWCO
- ⑦ Install anti-siphon devices in piping for pressure gage and 3 pressure controllers
- ⑧ Replace pressure gage with Range of 0 to 225 to 300 psi

45. TYPE OR PRINT NAME OF INSPECTOR

John A. Dognazzi

45A. SIGNATURE OF INSPECTOR

John A. Dognazzi

45B. DATE OF SIGNATURE

4 November 2003

45C. INSPECTOR'S NATIONAL BOARD NO.

8107

46. PRINT NAME AND TITLE OF REPRESENTATIVE ACCOMPANYING INSPECTOR

DAN SILVEY WORK LEADER

46A. SIGNATURE

Dan Silvey

46B. DATE OF SIGNATURE

11/5/03

46C. REPRESENTATIVE'S TELEPHONE NUMBER

803-751-1465

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

49. SIGNATURE OF OFFICER IN CHARGE

50. DATE OF SIGNATURE

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	
2. INSTALLATION Fort Jackson		2A. CITY Columbia		3. STATE SC
		4. ZIP CODE 29207		5. PLANT OR BLDG. 4420 Resshell
6. DATE OF INSPECTION 4 Nov 2003		7. DATE OF LAST INSPECTION First inspection		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 First inspection		11B. PRESSURE THIS INSPECTION 75		12A. YEAR BUILT 1999
				12B. YEAR INSTALLED 1999
13A. PRIMARY FUEL (Boiler) Nat Gas		13B. SECONDARY FUEL (Boiler) None		14. DESIGN WORKING PRESSURE OR TEMPERATURE 150
15. MANUFACTURER Danco		16. MANUFACTURER'S RATING MBTU /LBS. /HR 49.7 Sq FtHs 863 lbs/hr		17. NATIONAL BOARD NUMBER 28112
				18. USAF NUMBER #2 (SB #4)
19. USE <input type="checkbox"/> Power <input 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) Cooking only				
20. METHOD OF FIRING (Boilers) Auto burner		21. SAFETY/RELIEF VALVES SETTING 150		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: 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) **Routine maintenance**

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.)
IN 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.)
Water Column missing top tri cock, Secondary hwo connection Piping requires cross fitting, Pressure gage Range is inadequate (0-100 psi)

30. SETTINGS, LININGS, SUPPORTS AND BAFFLES
Appears satisfactory

INSPECTION OF SAFETY DEVICE

31. SAFETY/RELIEF VALVES	32. SIZE 3/4 Number: 1	33. TOTAL CAPACITY CFM: BTU/HR: LB/HR: 1856	34. CONDITION AND HOW TESTED Manually Satisfactory
35. PRESSURE GAGES	36. CORRECTION TAKEN (if none give reason) None - IN operation		
37. OTHER APPLIANCES	38. CONDITION Appears Satisfactory		
39. REGULATORS AND CONTROLS	40. CONDITION Appears Satisfactory		

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.)

- ① Boiler in operation
- ② Replace pressure gage with new gage having a range from 0 to 225 or no greater than 300 psi
- ③ Install tri-cock in water column
- ④ Install cross fitting in place of T fitting in secondary LWCO lower piping connection

45. TYPE OR PRINT NAME OF INSPECTOR

John A. Dognazzi

45A. SIGNATURE OF INSPECTOR

John A. Dognazzi

45B. DATE OF SIGNATURE

4 November 2003

45C. INSPECTOR'S NATIONAL BOARD NO.

8107

46. PRINT NAME AND TITLE OF REPRESENTATIVE ACCOMPANYING INSPECTOR

Dan Silvey WORK LEADER

46A. SIGNATURE

Dan Silvey

46B. DATE OF SIGNATURE

11/5/03

46C. REPRESENTATIVE'S TELEPHONE NUMBER

803-751-465

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

49. SIGNATURE OF OFFICER IN CHARGE

50. DATE OF SIGNATURE

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	
2. INSTALLATION Fort Jackson		2A. CITY Columbia	3. STATE SC	4. ZIP CODE 29207
6. DATE OF INSPECTION 4 Nov 2003		7. DATE OF LAST INSPECTION 1st 115P	8. DELIVERY ORDER NO.	9. CONTRACT NO. 5422 mess hall
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 1st 115P	11B. PRESSURE THIS INSPECTION Idle	12A. YEAR BUILT 1999	12B. YEAR INSTALLED 1999	
13A. PRIMARY FUEL (Boiler) Nat Gas	13B. SECONDARY FUEL (Boiler) None	14. DESIGN WORKING PRESSURE OR TEMPERATURE 150		
15. MANUFACTURER DonLob	16. MANUFACTURER'S RATING MBTU / LBS. / HR 49,0 sqftHS 863 lbs/hr	17. NATIONAL BOARD NUMBER 28132	18. USAF NUMBER 71	
19. USE <input type="checkbox"/> Power <input type="checkbox"/> Steam Heating <input type="checkbox"/> Process <input type="checkbox"/> Storage <input type="checkbox"/> HTHW Heating <input type="checkbox"/> Heat Exchange <input checked="" type="checkbox"/> Other (Specify) <u>Cooking</u>				
20. METHOD OF FIRING (Boilers) Auto burner	21. SAFETY/RELIEF VALVES SETTING 75	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: 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) Routine Maintenance

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.)
Active oxygen corrosion upper portion of water chamber. Lwco piping partially full of sediment. Light to moderate scale on water legs

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.)
Pressure gage an 3 pressure controllers do not have anti-siphon (PIG tails). Secondary lwco connection is piped with a T instead of a cross, water column missing upper tri-lock. Lower valve on gage glass leaking. SV discharge piping is routed a very long distance with numerous bends + fittings

30. SETTINGS, LININGS, SUPPORTS AND BAFFLES
Appear satisfactory

INSPECTION OF SAFETY DEVICE

31. SAFETY/RELIEF VALVES	32. SIZE Number: <u>3/4</u>	33. TOTAL CAPACITY CFM: BTU/HR: LB/HR: <u>1856</u>	34. CONDITION AND HOW TESTED <u>Manually - Satisfactory</u>
35. PRESSURE GAGES	36. CORRECTION TAKEN (If none give reason) <u>Appear satisfactory - better idle</u>		
37. OTHER APPLIANCES	38. CONDITION <u>Appear satisfactory</u>		
39. REGULATORS AND CONTROLS	40. CONDITION <u>Appear satisfactory</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.)

- ① Boiler not constructed with manway opening
- ② Active oxygen corrosion in upper water chamber is caused by improper boiler lay-up. When boiler is idle, it should be completely full of water or a steam blanket installed.
- ③ Flush all sediment from water legs and both LWO float chambers
- ④ Install anti-siphon device in piping to pressure gage and 3 pressure controllers
- ⑤ Install cross fitting in place of T fitting in secondary LWO lower piping connection
- ⑥ Install tri-cock in water column
- ⑦ Repair or replace lower gage glass cut-out valve and gasket
- ⑧ SV discharge piping should be piped to a safe point of discharge through wall instead of through building roof.

45. TYPE OR PRINT NAME OF INSPECTOR

John A. Dognazzi

45A. SIGNATURE OF INSPECTOR

John A. Dognazzi

45B. DATE OF SIGNATURE

4 November 2003

45C. INSPECTOR'S NATIONAL BOARD NO.

8107

46. PRINT NAME AND TITLE OF REPRESENTATIVE ACCOMPANYING INSPECTOR

Dan Silvey WORK LEADER

46A. SIGNATURE

Dan Silvey

46B. DATE OF SIGNATURE

11/5/03

46C. REPRESENTATIVE'S TELEPHONE NUMBER

803-751-1465

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

49. SIGNATURE OF OFFICER IN CHARGE

50. DATE OF SIGNATURE

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 Fort Jackson	2A. CITY Columbia	3. STATE SC	4. ZIP CODE 29207	5. PLANT OR BLDG. 5422 Messhall
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6. DATE OF INSPECTION 4 Nov 2003	7. DATE OF LAST INSPECTION 1st insp	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 1st inspection	11B. PRESSURE THIS INSPECTION 75	12A. YEAR BUILT 1990	12B. YEAR INSTALLED 1999
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13A. PRIMARY FUEL (Boiler) Not Gas	13B. SECONDARY FUEL (Boiler) None	14. DESIGN WORKING PRESSURE OR TEMPERATURE 150
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15. MANUFACTURER Donco	16. MANUFACTURER'S RATING MBTU/LBS./HR 49,259,845 863 lbs/hr	17. NATIONAL BOARD NUMBER 28133	18. USAF NUMBER #2
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19. USE <input type="checkbox"/> Power <input type="checkbox"/> Steam Heating <input type="checkbox"/> Process <input checked="" type="checkbox"/> Storage <input type="checkbox"/> HTHW Heating <input type="checkbox"/> Heat Exchange <input checked="" type="checkbox"/> Other (Specify) <i>Cooking</i>

20. METHOD OF FIRING (Boilers) Auto Burner	21. SAFETY/RELIEF VALVES SETTING 75	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: 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) <i>Routine Maintenance</i>
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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.)

In Service

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/NS violations, etc.)

Pressure gauges and 3 pressure controllers do not have anti-siphon (pig tails) installed. Water column missing top hv-cock, sv discharge piping mounted a long way through building with numerous bends & fittings.

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

INSPECTION OF SAFETY DEVICE

31. SAFETY/RELIEF VALVES	32. SIZE 3/4 Number: 1	33. TOTAL CAPACITY CFM: BTU/HR: LB/HR: 1856	34. CONDITION AND HOW TESTED <i>Manually - satisfactory</i>
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35. PRESSURE GAGES	36. CORRECTION TAKEN (If none give reason) <i>Appear satisfactory - boiler in operation</i>
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37. OTHER APPLIANCES	38. CONDITION <i>Appear Satisfactory</i>
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39. REGULATORS AND CONTROLS	40. CONDITION <i>Appear Satisfactory</i>
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41. ASME CODES Does plant comply with code, welding, materials, configuration, etc? <input type="checkbox"/> Yes <input type="checkbox"/> 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.)

- ① Boiler in operation
- ② Install anti-siphon devices in piping for pressure gage and 3 pressure controllers
- ③ Install tm-cock in water column.
- ④ SV discharge piping should be piped to a safe point of discharge through side or rear wall of boiler room instead of through building roof.

45. TYPE OR PRINT NAME OF INSPECTOR

John A. Dognazzi

45A. SIGNATURE OF INSPECTOR

John A. Dognazzi

45B. DATE OF SIGNATURE

14 November 2003

45C. INSPECTOR'S NATIONAL BOARD NO.

8107

46. PRINT NAME AND TITLE OF REPRESENTATIVE ACCOMPANYING INSPECTOR

DAN SILVEY WORK LEADER

46A. SIGNATURE

Dan Silvey

46B. DATE OF SIGNATURE

11/5/03

46C. REPRESENTATIVE'S TELEPHONE NUMBER

803-751-1465

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

49. SIGNATURE OF OFFICER IN CHARGE

50. DATE OF SIGNATURE

BOILER OR PRESSURE VESSEL INSPECTION REPORT

HSBCT CONTRACT NUMBER		1. TYPE OF INSPECTION			
2. INSTALLATION Fort Jackson		2A. CITY Columbia	3. STATE SC	4. ZIP CODE 29207	5. PLANT OR BLDG. 5482 Mess hall
6. DATE OF INSPECTION 4 Nov 2003	7. DATE OF LAST INSPECTION 1st inspection	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 1st inspection	11B. PRESSURE THIS INSPECTION 150	12A. YEAR BUILT 1999	12B. YEAR INSTALLED 1999		
13A. PRIMARY FUEL (Boiler) Nat Gas	13B. SECONDARY FUEL (Boiler) None	14. DESIGN WORKING PRESSURE OR TEMPERATURE 150			
15. MANUFACTURER Donlee	16. MANUFACTURER'S RATING MBTU /LBS. / HR 49.2 sqft/HS 863/lbs/hr	17. NATIONAL BOARD NUMBER 28138	18. USAF NUMBER 1 (SB-9)		
19. USE <input type="checkbox"/> Power <input type="checkbox"/> Steam Heating <input type="checkbox"/> Process <input type="checkbox"/> Storage <input type="checkbox"/> HTHW Heating <input type="checkbox"/> Heat Exchange <input checked="" type="checkbox"/> Other (Specify) <i>Cooking</i>					
20. METHOD OF FIRING (Boilers) Auto Burner	21. SAFETY/RELIEF VALVES SETTING 150	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: 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) *Routine Maintenance*

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.)

in 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.)

Feed piping @ shut off valve corroded. Blud discharge piping rusted in. Tricock missing from water column. Pressure gage and 3 pressure controllers not provided with anti-siphon (Aftails) device.

30. SETTINGS, LININGS, SUPPORTS AND BAFFLES
Appears Satisfactory

INSPECTION OF SAFETY DEVICE

31. SAFETY/RELIEF VALVES	32. SIZE Number: <i>3/4</i>	33. TOTAL CAPACITY CFM: BTU/HR: LB/HR: <i>1856</i>	34. CONDITION AND HOW TESTED <i>Manually - Satisfactory</i>
35. PRESSURE GAGES	36. CORRECTION TAKEN (if none give reason) <i>Appears Satisfactory - None</i>		
37. OTHER APPLIANCES	38. CONDITION <i>Appears Satisfactory</i>		
39. REGULATORS AND CONTROLS	40. CONDITION <i>Appears Satisfactory</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.)

- ① Boiler in operation
- ② Install anti-siphon devices on piping to pressure gage and 3 controls
- ③ Install missing tri-cock
- ④ Replace valve or fitting on feed inlet piping due to corrosion
- ⑤ SV discharge piping should be rerouted ^{directly} ~~to~~ outside of building to a safe point of discharge. Current discharge piping extends through the building up to the Roof

45. TYPE OR PRINT NAME OF INSPECTOR

John A. Dognazzi

45A. SIGNATURE OF INSPECTOR

John A. Dognazzi

45B. DATE OF SIGNATURE

4 Nov 2003

45C. INSPECTOR'S NATIONAL BOARD NO.

8107

46. PRINT NAME AND TITLE OF REPRESENTATIVE ACCOMPANYING INSPECTOR

Dan Silvey WORK LEADER

46A. SIGNATURE

Dan Silvey

46B. DATE OF SIGNATURE

11/5/03

46C. REPRESENTATIVE'S TELEPHONE NUMBER

803-751-1465

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

49. SIGNATURE OF OFFICER IN CHARGE

50. DATE OF SIGNATURE

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

2. INSTALLATION Fort Jackson	2A. CITY Columbia	3. STATE SC	4. ZIP CODE 29207	5. PLANT OR BLDG. 5483 mess Hall
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6. DATE OF INSPECTION 5 Nov 2003	7. DATE OF LAST INSPECTION 1st internal insp	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 75	11B. PRESSURE THIS INSPECTION —	12A. YEAR BUILT 1999	12B. YEAR INSTALLED 1999
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13A. PRIMARY FUEL (Boiler) Nat Gas	13B. SECONDARY FUEL (Boiler) NONE	14. DESIGN WORKING PRESSURE OR TEMPERATURE 150
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15. MANUFACTURER Donlee	16. MANUFACTURER'S RATING MBTU / LBS. / HR 49.2 sqft/hrs 863 lbs/hr	17. NATIONAL BOARD NUMBER 28150	18. USAF NUMBER 2 (SB-10)
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19. USE <input type="checkbox"/> Power <input type="checkbox"/> Steam Heating <input type="checkbox"/> Process <input type="checkbox"/> Storage <input type="checkbox"/> HTHW Heating <input type="checkbox"/> Heat Exchange <input checked="" type="checkbox"/> Other (Specify) Boasting

20. METHOD OF FIRING (Boilers) Auto burner	21. SAFETY/RELIEF VALVES SETTING 150	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: — 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)	Routine Maintenance
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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.)
excessive buildup of sediment on water legs, Build up of sediment deposits in both LWCO's + connected piping. Scale deposits within waterbeds no excessive.

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.)
Tri-cock missing, Pressure gage & 3 pressure controllers missing anti-siphon devices, feed inlet valve & piping corroded.

30. SETTINGS, LININGS, SUPPORTS AND BAFFLES

INSPECTION OF SAFETY DEVICE

31. SAFETY/RELIEF VALVES	32. SIZE Number: 3/4	33. TOTAL CAPACITY CFM: — BTU/HR: — LB/HR: 1856	34. CONDITION AND HOW TESTED Not tested
35. PRESSURE GAGES	36. CORRECTION TAKEN (if none give reason) Appear Satisfactory - none		
37. OTHER APPLIANCES	38. CONDITION Appear Satisfactory		
39. REGULATORS AND CONTROLS	40. CONDITION Appear Satisfactory		

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.)

- ① Boiler not constructed with manway opening
- ② Flush water legs and LWCO's and connected piping of all sediment
- ③ Scale build up is the result of improper lay up procedures. As this boiler can not be treated with chemicals because of food service, therefore, proper lay up procedures must be performed along with frequent blow downs
- ④ See previous inspection report dated 4 Nov 2003

45. TYPE OR PRINT NAME OF INSPECTOR

John A. Dognazzi

45A. SIGNATURE OF INSPECTOR

John A. Dognazzi

45B. DATE OF SIGNATURE

5 Nov 2003

45C. INSPECTOR'S NATIONAL BOARD NO.

8107

45. PRINT NAME AND TITLE OF REPRESENTATIVE ACCOMPANYING INSPECTOR

Dan Silvey **WORK LEADER**

46A. SIGNATURE

Dan Silvey

46B. DATE OF SIGNATURE

11/5/03

46C. REPRESENTATIVE'S TELEPHONE NUMBER

803-751-1465

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

49. SIGNATURE OF OFFICER IN CHARGE

50. DATE OF SIGNATURE

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

2. INSTALLATION Fort Jackson		2A. CITY Columbia	3. STATE SC	4. ZIP CODE 29207	5. PLANT OR BLDG. 5482 Mess Hall
6. DATE OF INSPECTION 4 Nov 2003	7. DATE OF LAST INSPECTION 1st insp	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 1st inspection	11B. PRESSURE THIS INSPECTION 150	12A. YEAR BUILT 1999	12B. YEAR INSTALLED 1999		
13A. PRIMARY FUEL (Boiler) Nat Gas	13B. SECONDARY FUEL (Boiler) None	14. DESIGN WORKING PRESSURE OR TEMPERATURE			
15. MANUFACTURER Donlee	16. MANUFACTURER'S RATING MBTU /LBS. / HR 49.2 sqft/hs 863 lbs/hr	17. NATIONAL BOARD NUMBER 28150	18. USAF NUMBER 2 (SB-10)		
19. USE <input type="checkbox"/> Power <input type="checkbox"/> Steam Heating <input type="checkbox"/> Process <input type="checkbox"/> Storage <input type="checkbox"/> HTHW Heating <input type="checkbox"/> Heat Exchange <input checked="" type="checkbox"/> Other (Specify) <i>Cooking</i>					
20. METHOD OF FIRING (Boilers)	21. SAFETY/RELIEF VALVES SETTING 150	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: 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) *Routine Maintenance*

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.)
In 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.)
FEED INlet to Boiler leaking. S/V Discharge piping routed incorrectly through building. TRICOCK missing from water column. Pressure gage and 3 pressure controllers not provided with anti-siphon (pig tails) device.

30. SETTINGS, LININGS, SUPPORTS AND BAFFLES
Appear Satisfactory

INSPECTION OF SAFETY DEVICE

31. SAFETY/RELIEF VALVES	32. SIZE 314 Number: 1	33. TOTAL CAPACITY CFM: BTU/HR: LB/HR: 1856	34. CONDITION AND HOW TESTED MANUALLY - SAT.
35. PRESSURE GAGES	36. CORRECTION TAKEN (if none give reason) None - in operation		
37. OTHER APPLIANCES	38. CONDITION <i>Appear Satisfactory</i>		
39. REGULATORS AND CONTROLS	40. CONDITION <i>Appear Satisfactory</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.)

- ① Boiler in operation
- ② Install anti-siphon devices on piping to pressure gage and 3 pressure controllers
- ③ Install missing tri-cock
- ④ Replace valve & or fittings on feed inlet piping due to corrosion
- ⑤ 5V discharge piping should be re-routed directly outside of building to a safe point of discharge. Current discharge piping extends through the building up to the Roof

45. TYPE OR PRINT NAME OF INSPECTOR

John A. Dognazzi

45A. SIGNATURE OF INSPECTOR

John A. Dognazzi

45B. DATE OF SIGNATURE

4 Nov 2003

45C. INSPECTOR'S NATIONAL BOARD NO.

8107

46. PRINT NAME AND TITLE OF REPRESENTATIVE ACCOMPANYING INSPECTOR

DAN SILVEY WORK LEADER

46A. SIGNATURE

Dan Silvey

46B. DATE OF SIGNATURE

11/5/03

46C. REPRESENTATIVE'S TELEPHONE NUMBER

903-751-1465

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

49. SIGNATURE OF OFFICER IN CHARGE

50. DATE OF SIGNATURE

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

2. INSTALLATION Fort Jackson		2A. CITY Columbia	3. STATE SC	4. ZIP CODE 29207	5. PLANT OR BLDG. 5500 Mess hall
6. DATE OF INSPECTION 4 Nov 2003	7. DATE OF LAST INSPECTION first insp	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 first insp	11B. PRESSURE THIS INSPECTION 75 PSI	12A. YEAR BUILT 1999	12B. YEAR INSTALLED 1999		
13A. PRIMARY FUEL (Boiler) Nat Gas	13B. SECONDARY FUEL (Boiler) None	14. DESIGN WORKING PRESSURE OR TEMPERATURE 150			
15. MANUFACTURER Worleyparsons	16. MANUFACTURER'S RATING MBTU/LBS./HR 49.2 sq ft 863 lbs/hr	17. NATIONAL BOARD NUMBER 28177	18. USAF NUMBER #1 (SB-5)		
19. USE <input type="checkbox"/> Power <input type="checkbox"/> Steam Heating <input type="checkbox"/> Process <input checked="" type="checkbox"/> Storage <input type="checkbox"/> HTHW Heating <input type="checkbox"/> Heat Exchange <input checked="" type="checkbox"/> Other (Specify) <i>Cooking Only</i>					
20. METHOD OF FIRING (Boilers) Auto burner	21. SAFETY/RELIEF VALVES SETTING 150	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: 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) *Routine Maintenance*

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.)
in 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.)
Pressure gage + 3 pressure controllers not equipped with anti-siphon device. Top Tee-cock missing. Secondary Lugo. Lower piping not provided with cross fitting

30. SETTINGS, LININGS, SUPPORTS AND BAFFLES
Appears Satisfactory

INSPECTION OF SAFETY DEVICE

31. SAFETY/RELIEF VALVES	32. SIZE Number: <i>3/4</i>	33. TOTAL CAPACITY CFM: BTU/HR: LB/HR: <i>1656</i>	34. CONDITION AND HOW TESTED <i>MANUAL - SAT.</i>
35. PRESSURE GAGES	38. CORRECTION TAKEN (if none give reason) <i>None - Boiler in operation</i>		
37. OTHER APPLIANCES	38. CONDITION <i>Appear Satisfactory</i>		
39. REGULATORS AND CONTROLS	40. CONDITION <i>Appear Satisfactory</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.)

- ① Boiler in operation
- ② Install missing tri-cock in water column
- ③ Install anti-siphon device in piping for pressure gage and 3 pressure controllers
- ④ Install cross fitting in place of T fitting at lower piping connection of Secondary LWCO.

45. TYPE OR PRINT NAME OF INSPECTOR

John A. Dognazzi

45A. SIGNATURE OF INSPECTOR

John A. Dognazzi

45B. DATE OF SIGNATURE

4 November 2003

45C. INSPECTOR'S NATIONAL BOARD NO.

8107

46. PRINT NAME AND TITLE OF REPRESENTATIVE ACCOMPANYING INSPECTOR

Dan Silvey WORK LEADER

46A. SIGNATURE

Dan Silvey

46B. DATE OF SIGNATURE

11/5/03

46C. REPRESENTATIVE'S TELEPHONE NUMBER

803-751-1465

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

49. SIGNATURE OF OFFICER IN CHARGE

50. DATE OF SIGNATURE

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	
2. INSTALLATION Fort Jackson		2A. CITY Columbia	3. STATE SC	4. ZIP CODE 29207
5. PLANT OR BLDG. 5500 Mess Hall				
6. DATE OF INSPECTION 4 Nov 2003		7. DATE OF LAST INSPECTION FIRST INSP		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 First Insp		11B. PRESSURE THIS INSPECTION idle		12A. YEAR BUILT 1999
12B. YEAR INSTALLED 1999		14. DESIGN WORKING PRESSURE OR TEMPERATURE 150		
13A. PRIMARY FUEL (Boiler) Nat Gas		13B. SECONDARY FUEL (Boiler) None		15. MANUFACTURER Dorlee
16. MANUFACTURER'S RATING M8TU /LBS. / HR. 49.2 sq ft HS 863 lbs/hr		17. NATIONAL BOARD NUMBER 26145		18. USAF NUMBER #2 (SB-6)
19. USE <input type="checkbox"/> Power <input type="checkbox"/> Steam Heating <input type="checkbox"/> Process <input type="checkbox"/> Storage <input type="checkbox"/> HTHW Heating <input type="checkbox"/> Heat Exchange <input checked="" type="checkbox"/> Other (Specify) <i>Cooking Only</i>				
20. METHOD OF FIRING (Boilers) Auto Burner		21. SAFETY/RELIEF VALVES SETTING 150		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: PSI: None		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) *Routine Maintenance*

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.)
slight build up of scale deposits, moderate amount of sediment in both lwco chambers

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.)
Pressure gage + 3 pressure controllers not equipped with anti siphons (pig tails). Top tri cock missing. Gage glass dirty, gaskets leaking. Secondary lwco, lower piping - no cross installed. Rear casing gasket leaking flow, slight burning of paint

30. SETTINGS, LININGS, SUPPORTS AND BAFFLES
Appear satisfactory

INSPECTION OF SAFETY DEVICE

31. SAFETY/RELIEF VALVES	32. SIZE <i>3/4"</i> Number: <i>1</i>	33. TOTAL CAPACITY CFM: BTU/HR: LB/HR: <i>1653</i>	34. CONDITION AND HOW TESTED <i>Manually - Sat.</i>
35. PRESSURE GAGES	36. CORRECTION TAKEN (if none give reason) <i>None</i>		
37. OTHER APPLIANCES	38. CONDITION <i>Appear Satisfactory</i>		
39. REGULATORS AND CONTROLS	40. CONDITION <i>Appear Satisfactory</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.)

- ① Boiler not constructed with manway opening.
- ② Flush water legs of all loose sediment and scale deposits
- ③ Flush LWCO's of sediment
- ④ Install anti-siphon devices in piping for pressure gage and 3 pressure controllers
- ⑤ Install tri-cock in water column
- ⑥ clean or replace gage glass. Replace gage glass gaskets
- ⑦ Install cross fitting in place of T fitting in secondary LWCO lower piping connection
- ⑧ Replace casing gaskets

45. TYPE OR PRINT NAME OF INSPECTOR

John A. Dognazzi

45A. SIGNATURE OF INSPECTOR

John A. Dognazzi

45B. DATE OF SIGNATURE

4 November 2003

45C. INSPECTOR'S NATIONAL BOARD NO.

8107

46. PRINT NAME AND TITLE OF REPRESENTATIVE ACCOMPANYING INSPECTOR

DAN SILVEY WORK LEADER

46A. SIGNATURE

Dan Silvey

46B. DATE OF SIGNATURE

11/5/03

46C. REPRESENTATIVE'S TELEPHONE NUMBER

803-757-1465

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

49. SIGNATURE OF OFFICER IN CHARGE

50. DATE OF SIGNATURE

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		2A. CITY Columbia	3. STATE SC	4. ZIP CODE 29207	5. PLANT OR BLDG NO. 17000 <i>Miss Hall</i>
2. INSTALLATION Fort Jackson		7. DATE OF LAST INSPECTION 1st Inspection		9. CONTRACT NO.	
6. DATE OF INSPECTION 4 Nov 2003		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 type="checkbox"/> Unmanned		
11A. PRESSURE PREVIOUS INSPECTION 1st inspection		11B. PRESSURE THIS INSPECTION Idle		12B. YEAR INSTALLED 1999	
12A. YEAR BUILT 1999		14. DESIGN WORKING PRESSURE OR TEMPERATURE 150			
13A. PRIMARY FUEL (Boiler) Nat Gas		13B. SECONDARY FUEL (Boiler) None		18. USAF NUMBER 1	
15. MANUFACTURER Danice		16. MANUFACTURER'S RATING MBTU / LBS. / HR 49.2 sqft/h 863 lbs/hr		17. NATIONAL BOARD NUMBER 27941	
19. USE <input type="checkbox"/> Power <input type="checkbox"/> Steam Heating <input type="checkbox"/> Process <input type="checkbox"/> Storage <input type="checkbox"/> HTHW Heating <input type="checkbox"/> Heat Exchange <input checked="" type="checkbox"/> Other (Specify) Cooking					
20. METHOD OF FIRING (Boilers) Auto Burner		21. SAFETY/RELIEF VALVES SETTING 150		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: 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) **Routine Maintenance**

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.)
Active oxygen corrosion upper part of water 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.)
Pressure gage range inadequate (0-100). Missing Telect on water column, Pressure gage + 3 pressure controllers do not have anti-siphon (Pigtails). Secondary hwc piping has T, should be a cross.

30. SETTINGS, LININGS, SUPPORTS AND BAFFLES
Appear Satisfactory

INSPECTION OF SAFETY DEVICE

31. SAFETY/RELIEF VALVES	32. SIZE Number: 3/4 1	33. TOTAL CAPACITY CFM: BTU/HR: LB/HR: 1654	34. CONDITION AND HOW TESTED Manually
35. PRESSURE GAGES	36. CORRECTION TAKEN (If none give reason) None Boiler idle		
37. OTHER APPLIANCES	38. CONDITION Appears Satisfactory		
39. REGULATORS AND CONTROLS	40. CONDITION Appears Satisfactory		

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.)

- ① Boiler Not Constructed with manway
- ② Active Oxygen corrosion most likely due to improper lay up when boiler is Idle. Keep boiler completely full of water or keep a steam blanket on boiler.
- ③ Replace pressure gage with new gage with a range of 225 to 300 psi
- ④ Install Tri-cock in water column
- ⑤ Install Anti-siphon on pressure gage and 3 pressure controllers inlet piping
- ⑥ Install Cross Fitting in place of T fitting in Secondary Lwco piping

45. TYPE OR PRINT NAME OF INSPECTOR

John A. Dognazzi

45A. SIGNATURE OF INSPECTOR

John A. Dognazzi

45B. DATE OF SIGNATURE

4 Nov 03

45C. INSPECTOR'S NATIONAL BOARD NO.

8107

46. PRINT NAME AND TITLE OF REPRESENTATIVE ACCOMPANYING INSPECTOR

DAN SILVEY WORK LEADER

46A. SIGNATURE

Dan Silvey

46B. DATE OF SIGNATURE

11/5/03

46C. REPRESENTATIVE'S TELEPHONE NUMBER

803-751-1465

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

49. SIGNATURE OF OFFICER IN CHARGE

50. DATE OF SIGNATURE

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

2. INSTALLATION Fort Jackson		2A. CITY Columbia	3. STATE SC	4. ZIP CODE 29207	5. PLANT OR VESSEL NO. 11000 <i>Star Mess hall</i>
6. DATE OF INSPECTION 4 Nov 2005	7. DATE OF LAST INSPECTION 1st inspection	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 1st insp.	11B. PRESSURE THIS INSPECTION 150	12A. YEAR BUILT 1999	12B. YEAR INSTALLED 1999		
13A. PRIMARY FUEL (Boiler) Nat Gas	13B. SECONDARY FUEL (Boiler) None	14. DESIGN WORKING PRESSURE OR TEMPERATURE 150			
15. MANUFACTURER Worlee	16. MANUFACTURER'S RATING MBTU /LBS. / HR 49.2 sqft HS 863 lbs/hr	17. NATIONAL BOARD NUMBER 28184	18. USAF NUMBER 2		
19. USE <input type="checkbox"/> Power <input type="checkbox"/> Steam Heating <input type="checkbox"/> Process <input type="checkbox"/> Storage <input type="checkbox"/> HTHW Heating <input type="checkbox"/> Heat Exchange <input checked="" type="checkbox"/> Other (Specify) <i>Cooling</i>					
20. METHOD OF FIRING (Boilers) Auto boiler	21. SAFETY/RELIEF VALVES SETTING 150	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: 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) *Routine Maintenance*

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.)
in 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.)
Pressure gage and 3 pressure controllers not equipped with anti-siphon device (pig tail). Lower connection of Secondary cut out not equipped with crossfitting

30. SETTINGS, LININGS, SUPPORTS AND BAFFLES
Appears Satisfactory

INSPECTION OF SAFETY DEVICE

31. SAFETY/RELIEF VALVES	32. SIZE Number: <i>3/4</i>	33. TOTAL CAPACITY CFM: BTU/HR: LB/HR: <i>1654</i>	34. CONDITION AND HOW TESTED <i>Manually</i>
35. PRESSURE GAGES	36. CORRECTION TAKEN (If none give reason) <i>Appears Satisfactory - in Operation</i>		
37. OTHER APPLIANCES	38. CONDITION <i>Appears Satisfactory</i>		
39. REGULATORS AND CONTROLS	40. CONDITION <i>Appears Satisfactory</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.)

- ① Boiler not constructed with manway - In operation
- ② Install anti-siphon device in piping to pressure gage and 3 Pressure controllers
- ③ Install cross fitting in place of T fitting for secondary LWCO

45. TYPE OR PRINT NAME OF INSPECTOR

John A. Dognazzi

45A. SIGNATURE OF INSPECTOR

John A. Dognazzi

45B. DATE OF SIGNATURE

4 Nov 03

45C. INSPECTOR'S NATIONAL BOARD NO.

8107

46. PRINT NAME AND TITLE OF REPRESENTATIVE ACCOMPANYING INSPECTOR

Dan Filvey WORK LEADER

46A. SIGNATURE

Dan Filvey

46B. DATE OF SIGNATURE

11/5/03

46C. REPRESENTATIVE'S TELEPHONE NUMBER

803-751-1465

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

49. SIGNATURE OF OFFICER IN CHARGE

50. DATE OF SIGNATURE

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 Fort Jackson		2A. CITY Columbia	3. STATE SC	4. ZIP CODE 29207	5. PLANT OR BLDG. 12000 Marshall
6. DATE OF INSPECTION 4 Nov 2003	7. DATE OF LAST INSPECTION First inspection	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 First inspection	11B. PRESSURE THIS INSPECTION 75	12A. YEAR BUILT 1999	12B. YEAR INSTALLED 1999		
13A. PRIMARY FUEL (Boiler) Nat Gas	13B. SECONDARY FUEL (Boiler) None	14. DESIGN WORKING PRESSURE OR TEMPERATURE 150			
15. MANUFACTURER Don Lee	16. MANUFACTURER'S RATING MBTU / LBS. / HR 49.2 SFC/Hrs 863 lbs/hr	17. NATIONAL BOARD NUMBER 28178	18. USAF NUMBER #1 (5814)		
19. USE <input type="checkbox"/> Power <input type="checkbox"/> Steam Heating <input type="checkbox"/> Process <input type="checkbox"/> Storage <input type="checkbox"/> HTHW Heating <input type="checkbox"/> Heat Exchange <input checked="" type="checkbox"/> Other (Specify) <u>Cooking</u>					
20. METHOD OF FIRING (Boilers) Auto Burner	21. SAFETY/RELIEF VALVES SETTING 75	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: 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) Routine maintenance

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.)

In 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.)
Gauge glass lower connection leaking, Pressure gage Range inadequate (0-100psi), No drip leg on gas supply line, water column top two cock missing, Gas supply line has no drip leg, S/V discharge elbow has no drainhole

30. SETTINGS, LININGS, SUPPORTS AND BAFFLES

Appear satisfactory. Cement base is cracked, not serious at this time

INSPECTION OF SAFETY DEVICE

31. SAFETY/RELIEF VALVES	32. SIZE Number: <u>3/4</u> <u>1</u>	33. TOTAL CAPACITY CFM: BTU/HR: LB/HR: <u>1856</u>	34. CONDITION AND HOW TESTED <u>Manually - Satisfactory</u>
35. PRESSURE GAGES	36. CORRECTION TAKEN (if none give reason) <u>None - Boiler in operation</u>		
37. OTHER APPLIANCES	38. CONDITION <u>Appear Satisfactory</u>		
39. REGULATORS AND CONTROLS	40. CONDITION <u>Appear Satisfactory</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.)

- ① Boiler not constructed with manway opening - Boiler in operation
- ② Replace gage glass gasket on lower connection
- ③ Replace pressure gage with new gage having a range from 0 to 225 up to 300 psi
- ④ Install anti-siphon device in piping for pressure gage and 3 pressure controllers
- ⑤ Install drain hole in s/v discharge elbow.
- ⑥ Install missing toe-cock in water column
- ⑦ Install drip leg in gas supply line

45. TYPE OR PRINT NAME OF INSPECTOR

John A. Dognazzi

45A. SIGNATURE OF INSPECTOR

John A. Dognazzi

45B. DATE OF SIGNATURE

4 November 2003

45C. INSPECTOR'S NATIONAL BOARD NO.

8107

46. PRINT NAME AND TITLE OF REPRESENTATIVE ACCOMPANYING INSPECTOR

DAN SILVEY WORK LEADER

46A. SIGNATURE

Dan Silvey

46B. DATE OF SIGNATURE

11/5/03

46C. REPRESENTATIVE'S TELEPHONE NUMBER

803-751-1465

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

49. SIGNATURE OF OFFICER IN CHARGE

50. DATE OF SIGNATURE

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

2. INSTALLATION Fort Jackson		2A. CITY Columbia	3. STATE SC	4. ZIP CODE 29207	5. PLANT OR BLDG. 12000 Mess hall
6. DATE OF INSPECTION 4 Nov 2003	7. DATE OF LAST INSPECTION First inspection	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 First inspection	11B. PRESSURE THIS INSPECTION Idle	12A. YEAR BUILT 1999	12B. YEAR INSTALLED 1999		
13A. PRIMARY FUEL (Boiler) NAT GAS	13B. SECONDARY FUEL (Boiler) NONE	14. DESIGN WORKING PRESSURE OR TEMPERATURE 150			
15. MANUFACTURER Don Lee	16. MANUFACTURER'S RATING MBTU / LBS. / HR 49.2 sq ft / Hr 863 lbs / Hr	17. NATIONAL BOARD NUMBER 28149	18. USAF NUMBER #2-(SB-13)		
19. USE <input type="checkbox"/> Power <input 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) Cooking only					
20. METHOD OF FIRING (Boilers) Auto burner	21. SAFETY/RELIEF VALVES SETTING 150	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: 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) **Routine maintenance**

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.)
Both LWCO's have moderate heavy accumulation of sediment & loose scale in water legs. Sediment. Gage glass dirty. Both Pitco's are coated with sediment. Gage glass dirty.

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.)
Lower Rear casing and Locket can not be removed due to handrail and stairs. Pressure gage has inadequate range (0-100 psi). Pressure gage and 3 pressure controllers do not have anti siphon (pig tail) installed. S/P has no drain hole at 1st elbow. Gas line inlet has no drip leg. gage glass dirty

30. SETTINGS, LININGS, SUPPORTS AND BAFFLES

Appear satisfactory

INSPECTION OF SAFETY DEVICE

31. SAFETY/RELIEF VALVES	32. SIZE Number: 3/4	33. TOTAL CAPACITY CFM: BTU/HR: LB/HR: 1856	34. CONDITION AND HOW TESTED Manually Set
35. PRESSURE GAGES	36. CORRECTION TAKEN (If none give reason) None boiler idle		
37. OTHER APPLIANCES	38. CONDITION appear satisfactory		
39. REGULATORS AND CONTROLS	40. CONDITION appear satisfactory		

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.)

- ① Boiler not constructed with manway opening
- ② Flush all sediment and loose scale deposits from water legs and LWCO float chambers.
- ③ Clean or replace gage glass
- ④ Remove obstacles from behind boiler to allow removal of rear casing for internal inspection
- ⑤ Install antisiphon device in piping for pressure gage and 3 pressure controllers
- ⑥ Install gas line drip leg
- ⑦ Replace pressure gage with new gage having a range of 0-325 up to 300 psi
- ⑧ Install drain hole in s/v discharge elbow

45. TYPE OR PRINT NAME OF INSPECTOR

John A. Dognazzi

45A. SIGNATURE OF INSPECTOR

John A. Dognazzi

45B. DATE OF SIGNATURE

4 November 2003

45C. INSPECTOR'S NATIONAL BOARD NO.

8107

46. PRINT NAME AND TITLE OF REPRESENTATIVE ACCOMPANYING INSPECTOR

DAN SILVEY WORK LEADER

46A. SIGNATURE

Dan Silvey

46B. DATE OF SIGNATURE

11/5/03

46C. REPRESENTATIVE'S TELEPHONE NUMBER

803-751-1465

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

49. SIGNATURE OF OFFICER IN CHARGE

50. DATE OF SIGNATURE