



# YPC™ Inspection Report

FOR USE ON INSPECTION CONTRACT VISITS

Project Name: DuPont Experimental Station ID # ABS#2  
 Address: \_\_\_\_\_

Model No. YPC5T22G46CXA Serial No: GBDM248980 YORK Order: \_\_\_\_\_ Hrs. of Operation: 19051 / 504 starts  
 By: Kevin Frazee Date: 9/24/07 Time: 10:00 AM PM

MACHINE OPERATING CODE: Chilling  Heating  % LOAD 58% / 12,500 <sup>W/hr</sup> TYPE OF VISIT: 

Every Service Visit
Change/Over (Twice/yr.)
Performed As Required

Chilled Water	Inlet Temp (°F)	<u>6.2°F</u> <u>49.9</u>
	Outlet Temp (°F)	<u>43.7</u>
	ΔP (psi)	<u>GPM</u> <u>3045</u>
Condenser Water	Inlet Temp (°F)	<u>77.7</u>
	Outlet Temp (°F)	<u>ABS-83.5</u> <u>85.8</u>
	ΔP (psi)	<u>GPM</u> <u>5720</u>
High Temp Generator	Solution In Temp (°F)	<u>243</u>
	Solution Out Temp (°F)	<u>273</u>
	Pressure (mm HG)	<u>318</u>
	Concentration (%) (Optional)	<u>64.6</u>
Low Temp Generator	Solution In Temp (°F)	<u>146</u>
	Solution Out Temp (°F)	<u>167</u>
	Refrigerant Out Temp (°F)	<u>160</u>
	Concentration (%) (Optional)	<u>59.4</u>
Absorber	Solution Out Temp (°F)	<u>87</u>
	Sol. Concentration (%) (Required)	<u>57.5</u>
Condenser	Abs. Spray Temp (°F)	<u>90/111</u>
	Refrigerant Out Temp (°F)	<u>90</u>
Evaporator	Refrigerant Temp (°F)	<u>42.4</u>
	Strm. Inlet Press. (PSIG)	<u>60</u>
Steam Models	Condensate Press. (PSIG)	<u>13</u>
	Gas Ent. Temp (°F)	
Heat Rec. Models	Gas Lvg. Temp (°F)	
	Auto Lifetime	<u>1578</u>
Purge Counters (if applicable)	Auto 7 Day	<u>0</u>
	Manual Lifetime	<u>162</u>
	Manual 7 Day	<u>0</u>

**SERVICES PERFORMED**

- Operational check of all controls
- Check refrigerant concentration
- Refrigerant blowdown
- Refrigerant added \_\_\_\_\_ gals.
- Refrigerant removed \_\_\_\_\_ gals.
- Check solution level
- Solution added \_\_\_\_\_ gals.
- Solution removed \_\_\_\_\_ gals.
- Solution sample taken  Yes  No
- Octyl alcohol added \_\_\_\_\_ gals.
- Inhibitor / hydroxide added \_\_\_\_\_ type \_\_\_\_\_ lbs.
- Perform air leakage test and indicate length of time (hrs.)  
 Abso. \_\_\_\_\_ cc/min. Purge Tank \_\_\_\_\_ cc/min. \_\_\_\_\_ hrs.
- Check torque on carbon-type rupture disk flange
- Check unit level. (once /yr.)
- Steam units:
  - Inspect needle and control valves
  - Take condensate sample
- Heat Recovery units:
  - Check control damper operation
  - Check bypass damper operation
- Direct Fired units:
  - Inspect Burner / Components
  - Stack Temperature \_\_\_\_\_ °F \_\_\_\_\_ % O<sub>2</sub> \_\_\_\_\_ % CO<sub>2</sub>

Sketch Area: Pump Amperages @ 470 V  
Weak - 6.6 A      Main - 18.7 A  
Strong - 6.7 A      Retrig - 5.9 A

Remarks / Recommendations:  
Purge Tank - 36.2 mm Hg A      Chiller Tons: 787      Chiller Approach: 1.3°F  
Filter - 3psid      Condenser Tons: 1,931      Condenser Approach: 4.2°F  
Absorber Subcooling - 13°F      Lbs/Hr/Ton: 15.9      Absorber Approach: 3.5°F  
404 hrs / Purge since 7/18/07  
Chiller operation is normal at this time.

Customer Signature: \_\_\_\_\_

	EVAPORATOR	REFRIGERANT TANK	ABSORBER	HIGH TEMPERATURE GENERATOR	LOW TEMPERATURE GENERATOR
LIQUID LEVEL	<u>0 No spill</u>				

If unit has additional sight glasses, sketch in and indicate liquid level.