

APPENDIX A – FULL LOAD PERFORMANCE DATA

Wednesday, April 19 2006

Time Time Time

| Description | Units | 11:56:29 | 12:01:11 | 12:06:26 | Average | Design | Design Fouling Adjusted |
|--------------------------|------------|----------|----------|----------|---------|--------|-------------------------|
| Evaporator | | | | | | | |
| Water Inlet Temp | °F | 52.02 | 52.09 | 52.04 | 52.05 | 52.0 | 51.81 |
| Water Outlet Temp | °F | 42.11 | 42.26 | 42.21 | 42.19 | 42.0 | 41.81 |
| Water Flow | gpm | 4785 | 4793 | 4800 | 4793 | 4800 | 4800 |
| Water Press Drop | ft/h2o | 20.6 | 20.7 | 20.7 | 20.7 | 18.2 | 18.2 |
| Refrigerant Pressure | psia | 50.7 | 50.9 | 50.8 | 50.80 | 50.8 | |
| Sat.Ref.Temp from Press | °F | 41.0 | 41.2 | 41.1 | 41.10 | 41.09 | |
| Small Difference | °F | 1.06 | 1.10 | 1.09 | 1.08 | 0.91 | |
| Condenser | | | | | | | |
| Water Inlet Temp | °F | 86.64 | 86.91 | 86.77 | 86.77 | 86.0 | 87.06 |
| Water Outlet Temp | °F | 95.92 | 96.16 | 96.00 | 96.03 | 95.35 | 96.41 |
| Water Flow | gpm | 5994 | 6009 | 6015 | 6006 | 6000 | 6000 |
| Water Press Drop | ft/h2o | 26.5 | 26.3 | 26.6 | 26.5 | 21.8 | 21.8 |
| Refrigerant Press | psia | 131.9 | 132.4 | 132.1 | 132.13 | 132.43 | |
| Sat.Ref.Temp From Press | °F | 96.7 | 96.9 | 96.7 | 96.77 | 96.89 | |
| Actual Refrig Temp | °F | 89.09 | 89.35 | 89.27 | 89.24 | 88.72 | |
| Subcooling Temp | °F | 7.57 | 7.55 | 7.44 | 7.52 | 8.17 | |
| Small Difference | °F | 0.73 | 0.74 | 0.71 | 0.73 | 1.54 | |
| Turbine | | | | | | | |
| Steam Flow | lbs/hr | 12460.7 | 14611.8 | 12710.6 | 13261 | 14260 | 14260 |
| Inlet Press | psia | 411.5 | 408.5 | 407.5 | 409.17 | 414.7 | 414.7 |
| Inlet Temp | °F | 629.5 | 629.8 | 630.5 | 629.93 | 600 | 600 |
| Exhaust Press | in/hg | 3.26 | 3.28 | 3.29 | 3.28 | 2.7 | 2.7 |
| Compressor | | | | | | | |
| Speed | rpm | 4391 | 4381 | 4375 | 4382 | 4444.7 | 4444.7 |
| Discharge | °F | 112.95 | 113.17 | 113.18 | 113.10 | 111.76 | 111.76 |
| Discharge Superheat | °F | 16.30 | 16.27 | 16.46 | 16.34 | 14.87 | 14.87 |
| Surface Condenser | | | | | | | |
| Water Outlet Temp | °F | 100.50 | 100.81 | 100.69 | 100.67 | 99.9 | 101.0 |
| Condensate Flow | gpm | 25.10 | 29.44 | 25.61 | 26.72 | 36.3 | 36.3 |
| Condensate Out | °F | 104.0 | 104.2 | 104.3 | 104.2 | 108.0 | |
| Performance | | | | | | | |
| Chiller Capacity | tons | 1978 | 1964 | 1970 | 1971 | 2000 | 2000 |
| Steam Flow/HP | lbs/hr/hp | 9.21 | 9.22 | 9.22 | 9.22 | 9.2 | 9.2 |
| Steam Flow/Ton | lbs/hr/ton | 6.30 | 7.44 | 6.45 | 6.73 | 7.13 | 7.13 |
| Heat Balance | % | -1.97 | -0.34 | -1.88 | -1.40 | ±5 | ±5 |
| Calculated HP | hp | 1353 | 1584 | 1378 | 1438 | 1550 | 1550 |

Manual Inputs and Comments:

Hand Valves Open 1
 PRV (%) 64
 Gov 100%