

APPENDIX 2-7
MAJOR EQUIPMENT LIST

APPENDIX 2-7
MAJOR MECHANICAL EQUIPMENT

Major Mechanical Equipment Listing

Equipment	Qty	Size/Capacity	Service/Remarks
Combustion Turbine Generators (CTGs)	2	GE 7FA	DLN combustion control with inlet air chillers
Steam Turbine Generator (STG)	1	300 MW	Condensing Reheat STG
Heat Recovery Steam Generators (HRSGs)	2	1,800 psig HP Steam	Three pressure w/ reheat and supplemental duct firing
Auxiliary Boiler	1	36.3 MMBtu/h	Natural gas fired for startup
Mechanical CTG Inlet-Air Chillers	4	2273 tons	(9092 tons total refrigeration capacity) chill inlet air to 48°F
Aqueous Ammonia Storage Tank	2	27,000 gal	NO _x control (19 wt % ammonia solution)
SCR Catalyst	2	2 ppm NO _x @ 15%O ₂	NO _x control
Oxidation Catalyst	2	4 ppm CO @ 15%O ₂	VOC and CO Control
HRSO Stacks	2	19 ft dia x 145 ft high	Self-supported
Continuous Emissions Monitoring System (CEM)	2		NO _x , CO and O ₂
HP/IP Boiler Feedwater Pumps	4	2,080 gpm	2 x 100% per HRSG
Air Cooled Condenser	1	1720.6 MMBtu/h	STG Exhaust
Vacuum Condensate Pumps	2	4,000 gpm	Vertical (2 x 100% capacity)
Closed Cooling Water Pumps	2	3,278 gpm	Generator and lube oil cooling (2 x 100% capacity)
Closed Loop Cooling Water Air Cooler	2	45 MMBtu/h	Generator and lube oil cooling (2 x 100% capacity)
Fuel Gas Filter Separators	2	30,545 SCFM	Natural gas fuel
Zero Liquid Discharge Facility	1	100 gpm	Brine Concentrator / Crystallizer
Backup Natural Gas Fired Generator	1	500 kW	Emergency
Raw Water / Firewater Storage Tank	1	750,000 gallons	240,000 dedicated to firewater reserve
Air Compressors	2	500 scfm	Service and Instrument air (2 x 100% capacity)
Demineralized Water Storage Tank	1	225,000 gallons	BFW makeup