

## **10.1A Summary Description**

This section is the same as Section 10.1 with the exception of the last paragraph which is revised as follows:

Figure 10.1A-1, Design Heat Balance for Steam and Power Conversion System Cycle, provides an overall system flow diagram of the power cycle and the design heat balance. Figure 10.1A-2, Valves Wide Open Heat Balance for Steam and Power Conversion System Cycle, provides the valves wide open (VWO) heat balance for the steam and power conversion cycle. Table 10.1A-1, Major Steam System Parameters and Turbine-Generator Design Data, provides the major steam system parameters at rated thermal power along with TG design data.

### **10.1A.1 General Description**

This section is the same as Section 10.1.1 with the exception of the first paragraph which is revised as follows:

Steam generated in the four SGs is supplied by the MSSS to the high pressure (HP) turbine through stop and control valves which regulate steam flow. After expanding across the HP turbine blading, exhaust steam is reheated in two moisture separator reheaters (MSR). The MSRs supply the three low pressure (LP) turbines through stop and intercept valves.

**Table 10.1A-1—Major Steam System Parameters and Turbine-Generator Design Data**

<b>Major Steam System Parameters</b>	<b>Values</b>
Steam pressure	1110.9 psia
Steam flow	20,684,700 lb/hr
Steam enthalpy	1186.6 btu/lb <sub>m</sub>
Feedwater temperature	446°F
<b>Turbine-Generator Design Data</b>	<b>Values</b>
Operating speed	1800 rpm
Frequency	60 hz
Generator output	1710 MW
Power factor	0.90 lagging
Voltage	27 kV nominal