1.2 SYSTEM DESIGN SPECIFICATIONS

The water treatment plant is designed to produce ultrapure water, under design flow conditions given in Table 1-2. The required water quality standards are given in Table 1-3. The feed water analysis, used as the design basis, is given in Table 1-1.

Table 1-1: Flow Rate Design Parameters

Tuble 1 1. 1 low Rule Design 1 and	Normal	<u>Max</u>
DI Loop Water Flow	65 gpm	65 gpm

Table 1-2: Water Quality Guarantee

Parameter	Quality	Unit	Analytical Technique
• Resistivity • Bacteria	18.2 <1.0	MegOhm cfu/ml	Flow through cell membrane filtration
			technique - incubated for 48 hours at 30°C
• TOC	<1.0	ppb	In-line Anatel A-1000 analyzer
 Dissolved Silica 	< 0.10	ppb	Ion Chromatography
• Temp	21+/ 0.5	°C	Thermo couple
• Dissolved Oxygen	<5	ppb	Orbisphere 3660