

ON-LINE ANALYSIS

<u>ANALYZER</u>	<u>SAMPLE</u>	<u>CONTROL LEVELS</u> <u>(Nominal)</u>	<u>NOTES</u>
TOC & CO ₂	Source/Make-up Water Condensate	250ppb through 1,000ppb & 0 – 10ppm (leaks)	TOC is the primary control parameter. It is also often used to replace conductivity & other measurements at critical locations.
pH	Heaters & Boilers	Feedwater 9.3 - 9.5 Boiler 8.7 - 9.7	Controlled by Phosphate addition & Feedwater pH control
Conductivity (Specific)	Boiler Polisher Outlets	TBD (depending on chemical additives).	Indicates chemical additive concentrations in condensate & feedwaters
Dissolved Oxygen	L.P. Heater Outlet H.P. Heater Outlet	<0.050mg/kg <0.010mg/kg	Controlled by chemical additives & condenser air release
Sodium	Condenser Polishers	<0.005mg/kg <0.002mg/kg	Detection of tube leaks
Phosphates	Feedwater	30 – 100 ppm	Phosphate control in feedwater & use as corrosion inhibitor
Alkalinity	Boiler	100-350 mg/L (depending on pressure)	Foaming & corrosion control
Silica	Boiler	1 - 150 mg/L (depending on pressure)	Boiler scaling control
Hardness	Boiler	0.05 – 0.3 mg/L	Prevention of foaming
Other (Determined by Specific Application)	TBD	TBD	TBD