

Appendix 14.9: Quality of Blow Down Water

Table 14.9.1 TA10 Cooling System Blow Down Water Quality

Parameter	Mean	Std. deviation	Minimum	Maximum
Total Hardness mg/l as CaCO ₃	158	56	60	360
Calcium Hardness mg/l as CaCO ₃	76	21	45	140
Total Alkalinity mg/l as CaCO ₃	63	20	20	170
Total Dissolved Solids	687	292	232	1856
Chloride mg/l as Cl	308	147	75	800
pH	7.7	0.3	7.0	8.3
Free Chlorine mg/l as Cl ₂	0.9	0.9	0.9	5.0
Total Suspended Solids mg/l	10	9	6	66

Table 14.9.2 TA5 Cooling System Blow Down Water Quality

Parameter	Mean	Std. deviation	Minimum	Maximum
Total Hardness mg/l as CaCO ₃	221	51	100	300
Calcium Hardness mg/l as CaCO ₃	103	31	50	170
Total Alkalinity mg/l as CaCO ₃	91	39	45	180
Total Dissolved Solids	941	349	318	1554
Chloride mg/l as Cl	404	194	90	740
pH	7.9	0.2	7.5	8.5
Free Chlorine mg/l as Cl ₂	0.8	0.2	0.5	1.0
Total Suspended Solids mg/l	9	2	7	15

Table 14.9.3 No.6 Boiler Blow Down Water Quality

Parameter	Mean	Std. deviation	Minimum	Maximum
Silica mg/l as SiO ₂	0.186	0.155	0.080	1.080
pH	8.9	0.3	8.2	9.7
Conductivity us/cm	19.6	4.8	10.5	33.7

Table 14.9.4 No.7 Boiler Blow Down Water Quality

Parameter	Mean	Std. deviation	Minimum	Maximum
Silica mg/l as SiO ₂	0.173	0.138	0.080	0.900
pH	9.2	0.3	8.3	9.9
Conductivity us/cm	20.0	5.7	10.6	36.5