WATER TREATMENT SURVEY FORM

Loction

Plant Data: Name: _____ Survey Date ___/___/___

Location: _____

City: _____ State _____ Zip _____ Proposed Due Date: ___/___/___

SJC Sales Representative: _____

GENERAL INFORMATION

Plant personnel met with

Name	Title

Other Bidders	Competitive Angle

Equipment to be Treated

Equipment Type	Quantity	New Equipment Needed	
Cooling Tower		Yes	No
Condenser		Yes	No
Closed Loop		Yes	No
Open/Closed Loop		Yes	No
Steam Boiler		Yes	No
Waste Water Application		Yes	No

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CLOSED LOOP INFORMATION

Closed Loops

System Description				
Pot Feeder Capacity				
Temperature ^{o} F				
How is Inhibitor Fed				
Controller Manufacture & Model #				
Pump Man. GPD Output				
Inhibitor Used				
Any System Leaks				
Contained Gallons or Footage				
Estimated System Volume				

Systems Open to the Atmosphere

Biocide Used + Quantity Fed				
How is Biocide Fed				

Closed Loop Control Tests

Tests Run				
Control Parameters				
Frequency Tests Run				
Reagents Supplied or Bought				

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COOLING INFORMATION

Cooling Water Evaluation Based on Loading Variables

System Description				
Cooling Tower or Condenser Description				
Tower Model #				
Serial Number				
Tons				
Pump / Calcu. Circulation Rate				
Average/Design $\Delta T\ ^{o}$ F				
Hours per Day Of Operation				
Days of Oper. Per Year				
Make-up Line Size				
Water Meter Gallons of Water Used Per Year				
Conductivity Controller Man. & Model # & Set Pt.				
PH Controller Manufacture & Model # & Set Pt.				
Feed Pump Man. & Output GPD				
Brominator Size #				

Cooling Control Tests

Tests Run							
Control Parameters							
Frequency Tests Run							
Reagents Supplied or Bought							

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Cooling Water Chemicals Used

	Chemical # 1 Description	Chemical # 2 Description	Chemical # 3 Description	Chemical # 4 Description
Product Trade Name				
Generic Name or Ingredients				
Liquid or Solid				
% Strength				
How is it Fed (Slug) (Pump)				
What Controls Pump				
Pump Max Output & Setting				
If Timer-Length of Run				
If Timer-Frequency of Run				
If Controller Set Point				

Chemical Purchased or Operator Estimate

Gallons Used Based on Purchases				
Container Size				
How Many Containers Used				

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BOILER INFORMATION

Boiler Water Evaluation Based on Loading Variables

System Designation				
Boiler Manufacturer				
Model Number				
Serial Number				
Feedwater or DA Tank?				
Temperature & Pressure				
Boiler Description				
Horse Power or Steaming Rate				
Fire Tube or Water Tube?				
Operating PSIG				
Operating Hrs Per Day				
Operating Days Per Year				
% Condensate Return				
Steam Use				
Gas Usage (Attach Report)				
Blowdown Controller Man. & Model #				

Boiler Control Tests

Tests Run						
Control Parameters						
Frequency Tests Run						
Reagents Suppl, or Bought						

WATER TREATMENT SURVEY FORM

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Boiler Water Chemicals Used

	Chemical # 1 Description	Chemical # 2 Description	Chemical # 3 Description	Chemical # 4 Description
Product Trade Name				
Generic Name or Ingredients				
Liquid or Solid				
% Strength				
How is it Fed (Slug) (Pump)				
What Controls Pump				
Pump Max Output & Setting				
If Timer-Length of Run				
If Timer-Frequency of Run				
If Controller Set Point				
TDS Recommended Limits				
Batch Make-Up				
Batch Life (Hrs)				
Total Batch Size (Gal)				

Chemical Purchased or Operator Estimate

Gallons Used Based on Purchases				
Container Size				
How Many Containers Used				

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Incumbent Information

Incumbent Name		Years in Service		Frequency of Service	
Full Service or Contract		Who Owns Equipment		Extra Service Charges	

Perceived Positives	
Perceived Deficiencies	
Current Status	

Describe Customer's reasons for considering change in supplier:

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RUN A FULL WATER ANALYSIS FOR EACH SYSTEM TREATED:

WATER ANALYSIS REPORT

Company: _____ Date Sampled: _____
Location: _____ Date Analyzed: _____

Sample #	1	2	3	4	5	6
Description						
Appearance						
pH						
Conductivity, υ Seimens:						
Total Hardness, as $CaCO_3$						
Calcium, as $CaCO_3$						
Magnesium, as $CaCO_3$ by difference						
"P" Alkalinity, as $CaCO_3$						
"M" Alkalinity, as $CaCO_3$						
Boiler "OH" Alkalinity, (2P-M)						
Barium Sulfate Alkalinity						
Silica, As SiO_2						
Phosphonate						
Chloride, as Cl^-						
Ortho Phosphate, as PO_4^{-3}						
Sulfite, as SO_3^-						
Nitrite, as $NaNO_2^-$ (Factor 1.5)						
Nitrate, as NO_3^- (Factor 4.4)						
Sulfate, as SO_4^{-2}						
Iron, as Fe						
Copper, as Cu						
Molybdate, as Mo^{+6}						
Specific Gravity, Sp.G.						