

# Roland Central Plant/HVAC Water Treatment

## Roland Central Plant

- Heating Hot Water Hydronic Loop – 6,100 GAL
- Chilled Water Hydronic Loop – 15,370 Gal
- Cooling Tower and Condenser Loop – (2) 700 ton Daikin Chillers, (2) 700 ton Marley Towers

## Scope

- Provide Price Breakdown for each categories
- Provide two checks per month (Bi-weekly is same as bi monthly in descriptions and notes), this is in addition to the startup visits required in attached scope. Item 1.7.3
- Must keep a record log in each location to keep track of chemicals used, repairs, etc.
- Provide detailed service report for each site visit of what was done, material used, time
- Provide detailed water report for each visit. Each water report should be sent via email as an attachment. Attachment should be labeled for which site and plant or area along with date of inspection. Date being first part of attachment name so can be filed in order.
- Responsible for Handling own Chemicals and Materials. If storage is needed, you will need to clarify this on bids so we can see if warehouse space available. No outside storage of chemicals anymore.
- Responsible for all control wiring to each injection or monitoring point (towers, condensers, etc)
- Required to check in and out with security on each visit.
- Provide and update SDS sheets as needed
- Provide Weekly testing equipment for CNE in house testing. Will need to provide enclosed cabinet that can be mounted on wall. Will need to provide testing equipment and meters for following items  
Cooling Tower and closed loops PH, Cooling tower and closed loops Conductivity, HHW nitrite level, glycol if applicable, Cooling Tower bacterial activity test strips, Cooling tower inhibitor levels and test kits , Xtech EC500 Hand held PH 7 Conductivity Meter, Advantage Controls Hand held water conductivity tester, Reichert refractometer,
- Provide Advantage Controller Web communication set up and start up.
- Calibrate and set up all controllers and equipment perimeters

Advantage Controls Equipment will be provided by CNE. (Equipment list attached at bottom)

Revisions to attached HVAC water Treatment (Attached)

Exclude Items 2.2, 2.3, 2.7, 3.2, 3.3, These items have or will be provided by CNE or Mechanical Vendor

### **Company's Obligations**

- Customer represents that the system is presently in Good condition

- Company will provide Contractor reasonable access to the system and to its premises during normal operation.
- Company will install the required equipment with Contractor/Contractor's staff present.
- If Contractor determines that repairs to the system are required to minimize loss of water treatment and water, Company will cause such repairs to be made its expense.
- Company will perform routine cleaning of cooling towers and condenser systems and boilers.
- Company will perform routine maintenance and repairs of equipment as recommended by equipment manufacturer or mechanical contractor.
- Company will, at the end of this agreement, return any Contractor-loaned equipment back to Contractor in good condition, given normal wear and tear, within thirty (30) days after termination, or Contractor will invoice Company for equipment.

Model #		Quantity	
Dual Tower Controller (MGCMPRF4E-CMAPRF-4E-H1N8W6)		1	
Pre fab for dual tower (WM22-AB4D4E6FG2M2-X2-W)		1	
Flowtrackers (FLT-BKFC1)		6	
Cold Water Corrosion Monitors (NANO-MO1-A5)		4	

Input-Cable-2A		4
Mild Steel Corrosion Tips (CE-MS)		2
Copper Tips CE-CO		2
Metering Pumps (B130X1-KFC-1)		6
Hot and Cold Water Controller (MGCP-C3P8-H1N8)		1
Pre-fab for closed systems (WM22-AS2FG2M2-A2B32F2G22M22-W)		1
Cold Water Corrosion Monitors (NONO-M01-A5)		2
Hot water corrosion monitors (NANO-M02-A5)		2
Pairs of Copper Tips (CE-CO)		2
Pairs of Mild Steel Tips (CE-MS)		2
INPUT-Cables 2A		4

