

REQUIRED CERTIFICATION FOR BIDDING

OHIO PREFERENCE (BUY OHIO):

1. The products/services being offered are raised, grown, produced, mined or manufactured in Ohio.
 Yes (Go to C) No (Go to B-2)
2. Bidder has significant economic presence within the state of Ohio. Yes (Answer a, b, c, d below) No (Go to B-3)
 - a) Bidder has paid the required taxes due the state of Ohio Yes No
 - b) Bidder is registered with the Ohio Secretary of State
 Yes (Charter/Registration No.: _____) No
Questions regarding registration should be directed to (614) 466-3910 or visit their web site at:
<http://www.sos.state.oh.us/>
 - c) Bidder has ten or more employees based in Ohio or border state. Yes No (Go to B-2d)
 - d) Bidder has seventy-five percent or more employees based in Ohio or border state. Yes No (Go to B-3)
3. Order state bidder:
 Yes (Specify which state then go to B-2c): KY MI NY PA IN) No (Go to B-4)
4. Border state bidder: mined products mined in respective border state Yes No Not Applicable

E.D.G.E. DESIGNATION

Bidder is certified E.D.G.E. business Yes No

For information on E.D.G.E. designation, please visit the DAS Equal Opportunity Division website at:
<http://www.state.oh.us/das/Eod/edge/Index.htm>

Solid Chemical Water Treatment for OPF Buildings (FY'15)

1. SCOPE

The Office of Properties and Facilities (OPF) has centralized heating & cooling systems that provide year round services to the following buildings:

*25 S. Front St., Columbus, OH 43215;
35 E. Chestnut St., Columbus, OH 43215;
246 N. High St., Columbus, OH 43215;
The Governor's Residence, 358 N. Parkview, Baxley, OH 43209;
30 E. Broad St. Columbus, OH 43215;
77 S. High St. Columbus, OH 43215;
4200 Surface Rd. Columbus, OH 43228;
615 W. Superior Ave. Cleveland, OH 44113;
161 S. High St. Akron, OH 44309;
640 Jackson St. Toledo, OH 43604.*

OPF wishes to upgrade from liquid to solid water treatment chemistry because of the significant environmental, handling and storage advantages. Water treatment chemicals shall be in solid form to contribute to carbon footprint reduction; significantly reduce space and weight for shipping, handling and storing; mitigate risk of injury compared to handling 120- to 500-pound drums of liquid; eliminate the risk of spills and leaks posed by hazardous liquids; eliminate the need for any containment; and save water and labor by eliminating the EPA requirement to triple-rinse empty liquid chemical drums.

The contractor shall provide professional water treatment services that include: inspection, chemical analysis, testing, treatment, and the use of solid blend technologies providing "green" solid water treatment chemicals and test kits, associated with scale, corrosion, fouling and microbiological growth. Included in this contract should be any costs associated with new dissolver dispensing systems, controls and chemical pumps needed in accordance with the manufactures flow rate, along with any and all maintenance and service of said systems, controls and pumps that will remain under the ownership of the contractor. A factory representative from APTech or Endursolv needs to verify in writing that the selected water treatment contractor has installed the dispensing systems, controls and pumps in accordance with the industry standard and are appropriate to the product being dispensed.

The contractor will be expected to provide knowledgeable service personnel, monitor program results, make appropriate recommendations with quantifiable justifications, train technical personnel, on the implementation & control of the program, and provide a written Haz-Com Plan applicable to the new OSHA standard that aligned with the Globally Harmonized System of Classification (GHS. This program will commence on 07/01/2014 and concludes on 06/30/2015.

The contractor shall have a minimum of 10 years' experience utilizing the solid water treatment technology and have a Certified Water Technologist (CWT) on staff. In addition the contractor shall be a member in good standing with the Association of Water Technologists.

1.1. DETAILS

1.1.1. Monthly service visits for chemical treatment inspection. Vendor must have Service Vehicles specifically for the purpose of Water Treatment Service,

and shall be stocked with parts needed to repair and replace equipment as needed. In addition a Facility Manager could call the vendor anytime if it is determined that there is a problem to be solved. If required, the Service Technician shall be on site no less than 24 hours after the call. If so, the vendor would not charge for the additional inspection and diagnostics.

1.1.2. Perform chemical testing and control.

1.1.3. Inspect and verify that existing chemical pumps are sized to provide a minimum delivery rate of two (2) gallons per hour or as recommended by the solid chemical manufacturer.

1.1.4. Annually prior to bringing the cooling tower into service for the season the contractor shall clean the cooling tower consisting of removal of dirt and organic growths (algae and slime) by physical and chemical means. The use of adequate detergents and disinfectants should be applied to the cooling tower and circulated for approximately 24 hours before being drained, flushed and refilled then tested. This work is only to be performed at 25 S. Front St and 35 E. Chestnut.

1.1.5. Perform chemical pump maintenance and calibration of conductivity controller.

1.1.6. Provide required test kits for facility HVAC technicians to perform their bi-weekly biological testing and solid water treatment chemical amounts to properly dose cooling towers', boilers' and closed loop systems' water for corrosion, scaling and biological fouling.

1.1.7. Conduct corrosion control and monitoring of HW Loops Boiler Systems and cooling tower condenser water loop systems at all facilities, during the heat/cooling season; corrosion will be maintained at less than 2 mil/yr for steel, 3 mil/yr., zinc and 0.2 mil/yr., for yellow metals.

1.1.8. All cooling water systems should be equipped with corrosion coupons and these coupons should be sent in for analysis on a regular quarterly basis. Most coupon racks allow for exposure of coupons representing the different alloys in the system. After a prescribed period of exposure, coupons are removed and fresh coupons inserted in their place. A regular rotation of coupons produces a continuous record of the system condition.

1.1.9. Conduct annual testing for Legionella Bacteria for each cooling tower condenser water loop system in the month of August. Testing must be performed by a "CDC Elite" laboratory. In the event of a positive report of > 100 CFU/ml legionella bacteria, the contractor shall clean system(s) using protocol established by ASHRAE Guideline 12 and AWT "Legionella, 2003) and re-test until a negative report is obtained. In the event of a positive report of > 1,000 CFU/ml legionella contractor shall follow protocol established by ASHRAE Guideline 12 and AWT "Legionella, 2003), and re-test until a negative report is obtained

1.2. COOLING TOWER

- 1.2.1. Onsite training for relevant HVAC personnel to explain and demonstrate application processes. Training would include review of the SDS for each chemical used; safe use of equipment to be used with each chemical and the mixing and handling of chemicals.
- 1.2.2. Readiness for quick response on emergency situations.
- 1.2.3. The water treatment vendor will provide all appropriate chemicals to be used in all closed and open loop systems to maintain proper levels. Solid form water treatment chemicals shall be APTEch Group, Inc. EnduroSolv brand or approved equal.

2. GUIDELINES

- 2.1. Biocides must be registered with the Federal & State agencies responsible for their regulation. Biocides will have the appropriate drum labels indicating that they are registered for intended use. Should the biocide or other solid treatment fail to dissolve in the prescribed manner, it is the sole responsibility of the water treatment contractor and supplier to rectify, after consultation with DAS Facilities Managers and Engineers on best alternatives.
- 2.2. Labels will show approved label dosages for the registered use. All chemicals should have proper DOT shipping and identification on each of them;
- 2.3. Chemicals used in the steam boiler system will be registered with NSF. **The use of hydrazine, chromate and sodium hypo-chloride are prohibited;**
- 2.4. It is the vendor's responsibility to maintain an appropriate inventory of solid water treatment at each location; as well as delivering, handling and dispersing of chemical products.
- 2.5. All chemicals will be delivered via commercial cartage. The water treatment vendor shall retain ownership and recycling of empty canisters in accordance with the applicable guideline (s). Vendor shall supply and maintain on site all P.P.E. required I.A.W. OSHA regulations.
- 2.6. The contractor is responsible to ensure OSHA compliant storage practices at all chemical treatment sites.

3. REPORTING & SCHEDULING

- 3.1. SDS sheets must be provided for each chemical used, at each location, along with chemical submittals to be provided as a part of the bid package.
- 3.2. Vendor should submit a written monthly report on its activities to the Facility Manager, engineer or assigned representative. Reports shall be submitted in

electronic format no more than three days after the service is performed

- 3.3. Reports should include operator chemical control sheet for each system;
- 3.4. Unless it is an urgent situation, the contractor should schedule the PM with the appropriate Facility Manager or his representative.
- 3.5. Vendor shall maintain an updated on-site log to reflect the current water chemistry condition to be used by both the vendor and onsite personnel for recording test results and conditions.
- 3.6. Water treatment standards should be in compliance with the NFPA 214, Center for Disease Control (CDC), ASHRAE Guideline 12-2000, NACE and any other applicable guideline or regulatory agency.

4. COMPETANCY

- 4.1. Please include any information on related program/s to reduce water, natural gas and/or electric consumption, if any; all prior relevant work experience, customer testimonials, and the like, in your submission.

5. PRICING:

- 5.1. Please list an individual price for each building separately, as well as a total price for the period.

6. RENEWAL

This Contract may be renewed after the ending date of the Contract solely at the discretion of DAS for a period of one month. Any further renewals will be by mutual agreement between the contractor and DAS for any number of times and for an appropriate period of time. The cumulative time of all mutual renewals may not exceed twenty four (24) months unless DAS determines that additional renewal is necessary.

7. PAYMENT TERMS: Quarterly

8. LOCATIONS & EQUIPMENT LIST OF CHILLERS AND BOILERS

25 South Front St:

Chillers:

Chiller #1

Trane

Model#: RTHC1D1F1F0F0F1L3F2LFVQUOD

Serial# U00E06870

Chiller #2

Trane

Model#: RTHC1D1F0F1L3F2LFVQUO

Serial#: U00D06871

Boilers:

Boiler #1
Model: Cleaver Brooks (CB)
Serial # BT-6326

Boiler #2
Model: Cleaver Brooks (CB)
Serial # BT-6325

246 N. High & 35 E. Chestnut:

Boilers:

Pacific Steam Boiler -1
Model # P60A-4FS
Serial # 209622

Pacific Steam Boiler 2
Model # P60A-4FS
Serial # 209621

Pacific Steam Boiler -3
Model # P60A-4FS
Serial # 209563

Pacific Steam Boiler 4
Model # P60A-4FS
Serial # 209616

Pacific Steam Boiler -5
Model # P60A-4FS
Serial # 209620

Chillers:

Carrier Chiller -1
Model # 19XRV3132352CMS64
Serial # 63524

Carrier Chiller -2
Model# 19XRV3132345CMH64
Serial # 63525

Carrier Chiller -3
Model # 19XRV3132352CMS64
Serial # 900Q63526

4200 Surface Rd:

(Columbus)

Boilers:

Lochinvar Power Fin
Model# PBN0250
Serial# A971443
250,000 BTU

Knight Boiler
Model# KBN210
Serial# J06H10019258

Gov. Residence:

(Columbus)

Boiler for Green House
Bio Therm Boiler
Model # HEHN 90
Serial # B0003274
90,000 BTU

Weil-Mclain Boiler
Model# LGB-13
Series# 2
BTU# 1,560,000

30 East Broad St.:

(Columbus)

Boiler:

RBI Futera Boiler II
Trane Mod 1950
Building Heating Boilers

Cooling Tower – Marley 3000 ton
Marley # NC 8306G6CM-05
6 Cell 3000 Ton

Serial I - NC-80255 A1
Serial I - NC-80255 A2
Serial I - NC-80255 A3
Serial I - NC-80255 A4
Serial I - NC-80255 A5
Serial I - NC-80255 A6

STATE ID: 258517, 258518, 258519,258520, 258521, 258525, 258526, 258527, 258528,
258529,258530, 258531, 258532, 258533, 258534, 258535, 258536

RBI Fetera !! Mod 1250
State Id 258524

Chiller 1

Trane Mod CVHF 910
Serial no. LO1M13250

Chiller 2

Trane Mod CVHF910
Serial no. LO1M1357

Chiller 3

Trane Mod CVHF 910
Serial no. LO1M13265

Chiller 4

Trane MOD RTHB255FLF00NWPOOOUNN3LF2LFMFVA
Serial no. U97E02019

77 South High Street:

(Columbus)

Boiler #1

Cleaver Brooks
Model # CB700-126
Ser # L81353

Boiler #2

Cleaver Brooks
Model # CB700-200
Ser. # L81355

Boiler #3

Cleaver Brooks
Model # CB700-200
Ser. # L81356

Boiler #4
Cleaver Brooks
Model # CB700-126
Ser. # L81354

Boiler # 5
Bryan
Model # D450-W-125-FDG
Ser. # 82596

Boiler #6
Bryan
Mod # D450-W-125-FDG
Ser. # 82595

Chiller # 1
Trane Model # CVHE089NAL2WB2621DE1E11DA1E000
Ser. # L86J40406
1000 Ton

Chiller # 2
Trane Model # CVHE089NAL2WB2621DE1E11DA1E000
Ser. # L86J40407
1000 Ton

Chiller # 3
Trane Model # CVHE056NAL2NB2351DE1E11DA1E000
Ser. # L86J40408
500 Ton

Chiller # 4
Trane Model # CCACD114RDNKR60ACDFGRTP3
Ser. # L8703143
and TS-251146
95.5 Ton

615 W. Superior Avenue:
(Cleveland)

Boilers:

RBI Water Boiler #1
Model # MB4000
SN # 060850166

RBI Water Boiler #2
Model # MB 4000
SN # 060850167

Chillers:

York Chiller #1
Model # YTJ3A4E1-CNH
Serial # GFEM132692

York Chiller #2
Model # YTJ3A4E1-CNH
Serial # GFEM132693

161 South High Street:
(Akron)

Boilers:

RBI Water Boiler #1
Model # 3000
SN # 010952300

RBI Water Boiler #2
Model # 3000
SN # 040952908

Chillers:

York Chiller #1
Model # YTG1A2C3 – CKJ
SN # GBJM 040058

York Chiller #2
Model # YTG1A2C3 - CKJ
SN # GBJM 040059

640 Jackson Street:

(Toledo)

Boilers: Boiler # 1
Kewanee
Cat # L35175 00
Clever Brooks Burner
DLG 845

Boiler # 2
Kewanee
Cat # L35175 00
Clever Brooks Burner
DLG 845

Chillers: Chiller # 1
Trane CVT
Model # CVHF049FA
Serial # LN99L04320M

Chiller # 1
Trane CVT
Model # CVHF049FA
Serial # LN99L04319M

Chiller # 3
Carrier
Model # 38JB024610
Serial # V392812