



# Addendum #3

**Solicitation Name:**

**Water Treatment and Boiler Chemicals**

**005-RFB-0816-2024**

**Addendum #3**

**Dated: April 4th, 2024**

This Addendum forms a part of the Request For Bids documents. This Addendum supersedes and supplements all portions of the original Request For Bids with which it conflicts.

ACKNOWLEDGE RECEIPT OF THIS ADDENDUM IN THE REQUEST FOR BID. FAILURE TO DO SO MAY SUBJECT TO DISQUALIFICATION.

**1. Mount Pleasant Correctional Facility (MPCF) - Questions and Answers:**

- a. Water source - city water/RO, added directly to the DA tank.
- b. All chemicals have a separate feed directly into the de-aerator.
- c. What chemicals are added - caustic, sulfide, molybdenum, steam line treatment to the boilers.  
Closed loop treatment: chlorine tablets, biocide.
- d. Pumps and controller are owned by MPCF.
- e. Currently using about 500 to 1200 gallons make up per day roughly closer to 500 in the summer 1200 in winter.
- f. We run a 600hp boiler in the winter and a 250hp in the summer and have a 600hp warmed up all the time for back up.
- g. Chemical Usage:
  - i. 45 to 60 gallons of molybdenum
  - ii. 30 to 60 gallons of caustic
  - iii. 30 to 45 gallons of closed loop treatment
  - iv. 5 to 10 gallons of biocide
  - v. 15 to 30 gallons of 101m
- h. All water testing chemicals along with written directions of how they prefer tests done. We do water tests daily.
- i. Boilers are emptied and opened annually.
- j. Roughly 100 boiler cycles.
- k. How would you like to have to have the chemicals delivered – Chemicals can be delivered to the store room where there is a dock, or a truck with a lift can deliver directly to the power house.

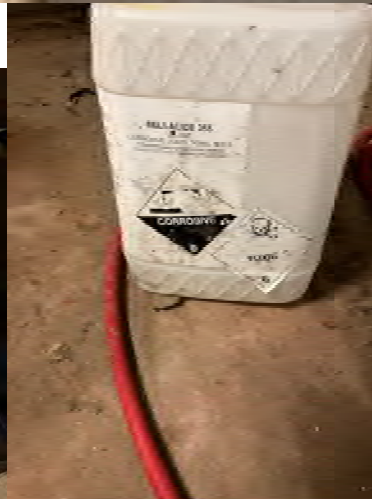
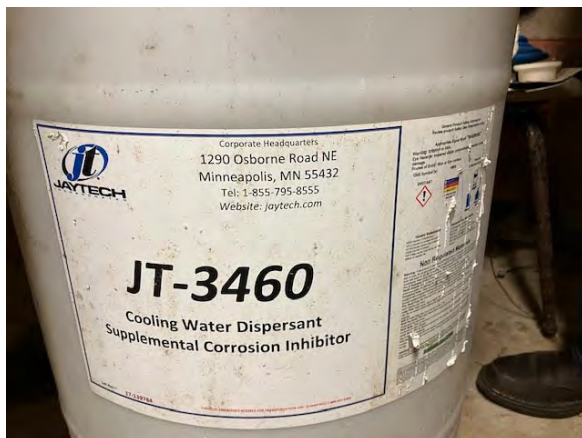
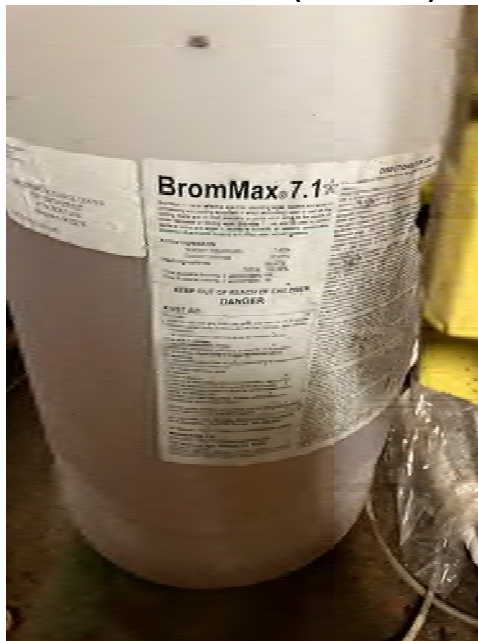




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## 2 Photos From MPCF (Continued)





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### 3 Attachment – Sign in sheet from MPCF Pre-Bid Meeting

## Sign-In Sheet

Pre-Bid Meeting – Tuesday, March 26th, 2024  
Water Treatment Chemicals – Mt. Pleasant Correctional Facility  
005-RFP-0816-2024

Name	Company	E-Mail	Phone #
Jason Hoffman	Nalco	jason.hoffman@ecolab.com	515-415-1164
John Ensign	Nalco	john.ensign@ecolab.com	641-260-1819
Perry Dilla	Global Water	pdilla@gwt-inc.com	563-940-8038
Paul Gleason	Global Water	pgleason@gwt-inc.com	309-255-0079



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**Dated: April 4th, 2024**

**4 Iowa State Penitentiary (ISP) – Questions and Answers**

- a. The power house boiler is gone and no longer a part of the scope.
- b. Most of the kitchen is geothermal – Glycol.
- c. New Boilers:
  - i. Roughly 300 Boiler Cycles.
  - ii. Water Source – City water, goes through a softener added up front.
  - iii. Boilers are alternated daily.
  - iv. How much chemical is used – SL2 – 2 Jugs per month, 201- 1-2 jugs per month.
- d. Powerhouse Chiller:
  - i. Treated with tablets.
  - ii. 1 coffee can of CWH 101 per week.
  - iii. Acid – 10-12 gallons per year.
  - iv. CLN – 3-4 x 55 gallon drums per year.
  - v. CWH – 30 gallons per year.
- e. Kitchen:
  - i. Uses 201 – about 5 gallons per month.
  - ii. Acid – Once per year for the boiler.
  - iii. Daily Blowdowns
  - iv. Skimmer takes a sample every 4 hours.
- f. How would you like to chemicals delivered –

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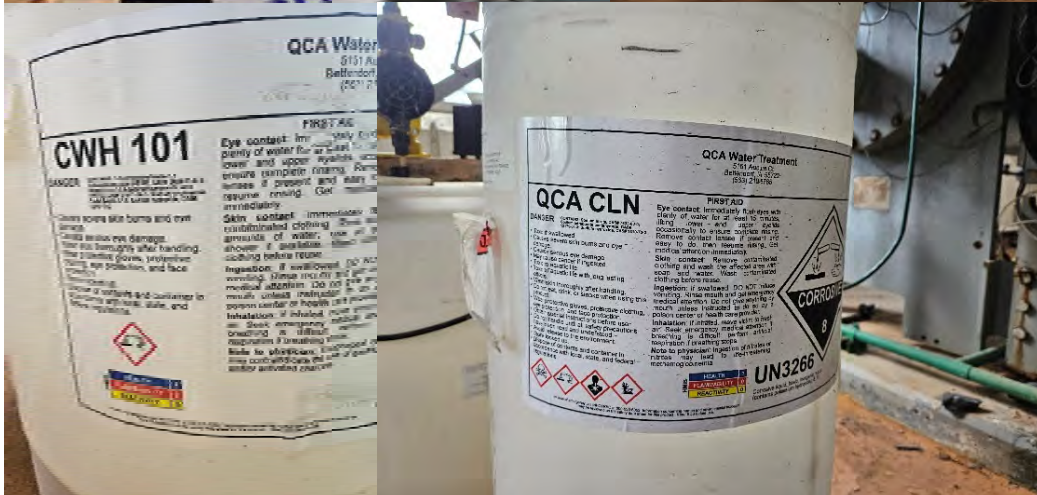
## 5 Photos from ISP



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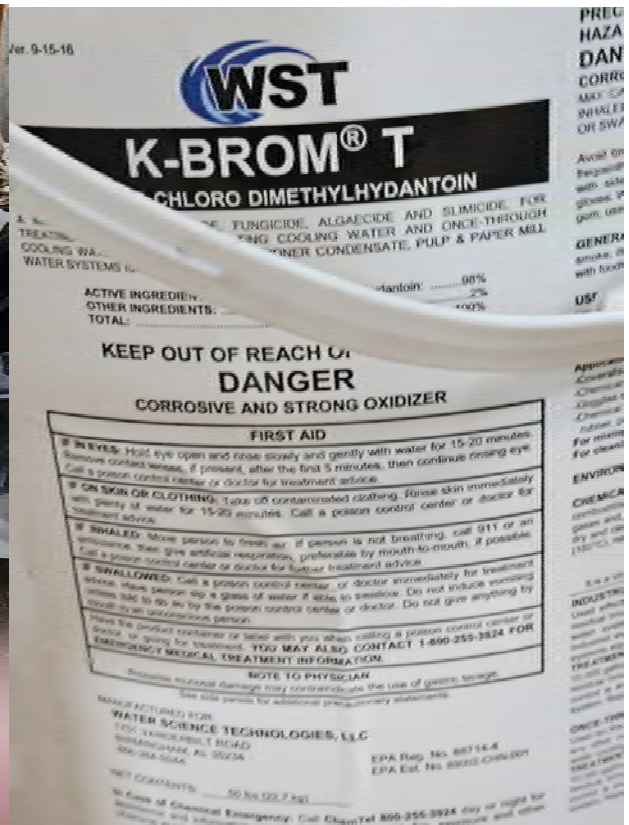
## 5 Photos from ISP (Continued)



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## 5 Photos from ISP (Continued)





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Dated: April 4th, 2024

6 Attachment – Sign in sheet from ISP Pre-Bid Meeting

## Sign-In Sheet

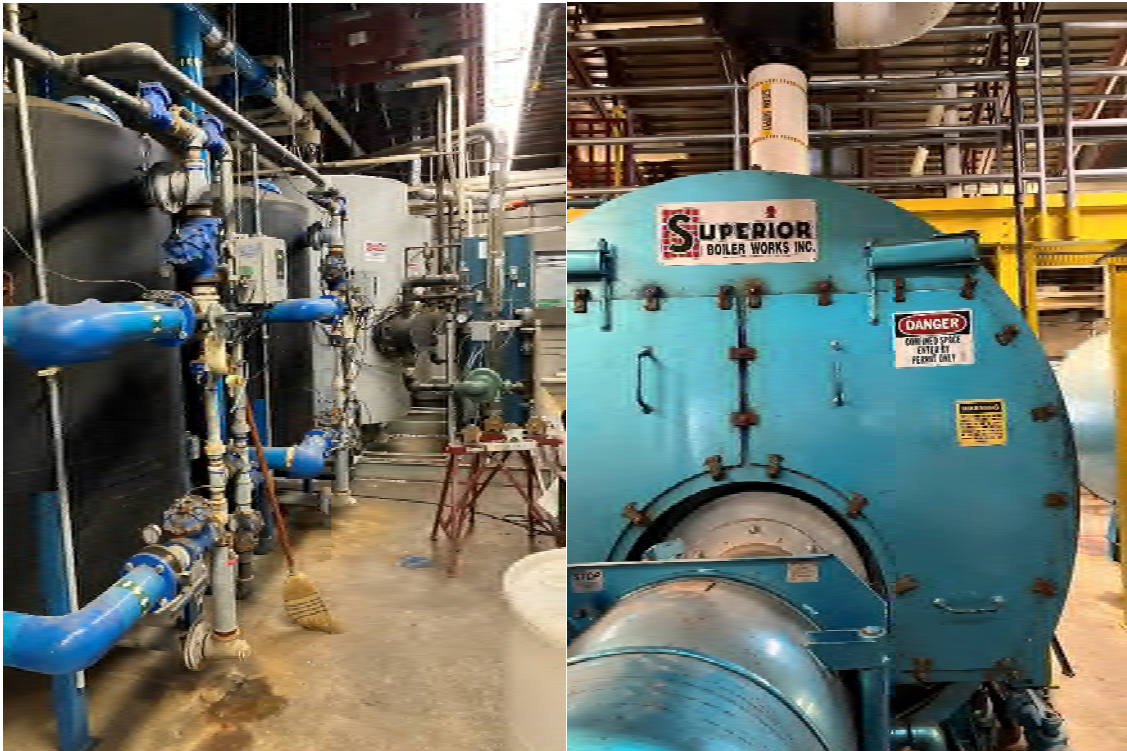
Pre-Bid Meeting – Tuesday, March 26th, 2024  
Water Treatment Chemicals – Iowa State Penitentiary  
005-RFP-0816-2024

Name	Company	E-Mail	Phone #
John Ensign	Nalco Water	John.ensign@ecolab.com	641-260-1819
Jason Hoffman	Nalco	jason.hoffman@ecolab.com	515-415-1164
Gerry Dilla	GW T	gdilla@gwt-inc.com	5639408038
Paul Gleason	GW T	pgleason@gwt-inc.com	309 2550078

# Addendum #3

**Solicitation Name:****Water Treatment and Boiler Chemicals****005-RFB-0816-2024****Addendum #3****Dated: April 4th, 2024****7 North Central Correctional Facility (NCCF) – Questions and Answers**

- a. Hot water loop on D unit and cooking (Kitchen) Unit.
- b. Superior Boiler Works - Two (alternate half season / layup dry) - Kitchen unit is smaller.
- c. Chemicals added through the feeder system.
- d. Kitchen has gas heat.
- e. Hot water heater for domestic hot water throughout the facility is not treated, just softened.
- f. Blowdown daily for about a half hour.
- g. Closed hot water loop system treatment - heating, solid treatment (powder) - baggy of sulfite once or twice a year.

**8 Photos of NCCF**

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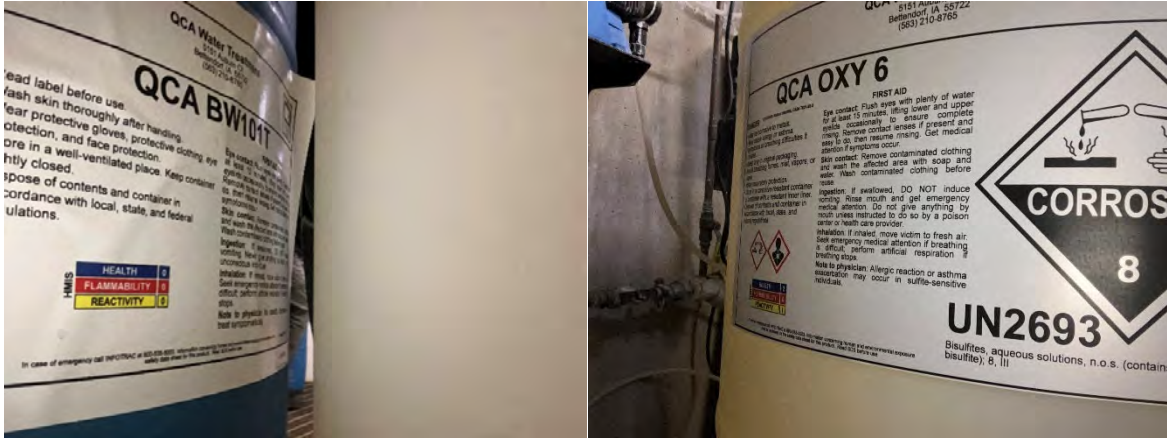
**8 Photos of NCCF (Continued)**



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**8 Photos of NCCF (Continued)**



North Central Correctional Facility

Month/Year March 24

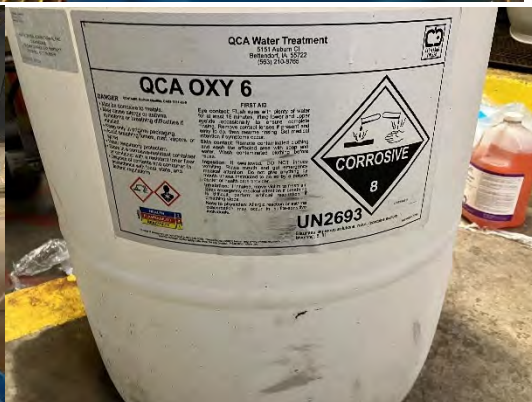
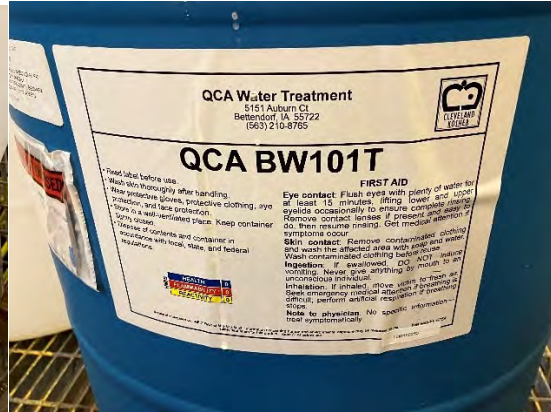
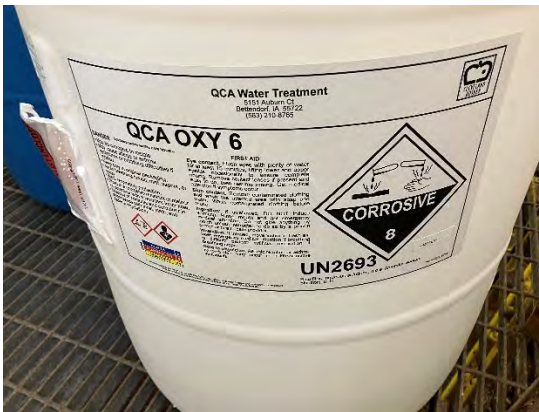
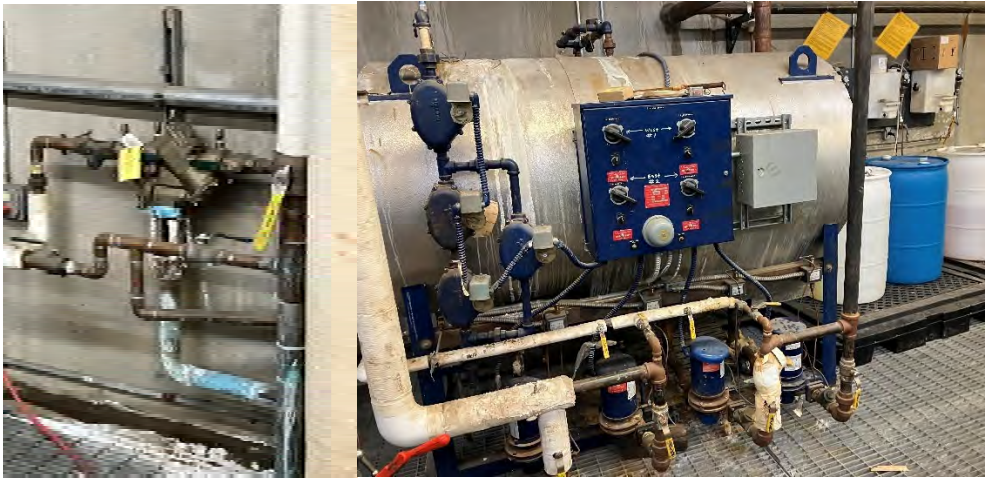
QCA WATER TREATMENT

Day	Volume	Concentration	Volume	Concentration	Volume	Concentration	Volume	Concentration	Volume	Concentration
1	1800	8	100	0	80				3800	30
2									4000	30
3										
4	1800	2	100	0	80				4800	30
5	1800	2	100	0	80				4700	30
6	1800	4	100	0	80				4500	30
7	1800	0	100	0	80				4600	32
8	1800	0	100	0	80				4500	32
9										
10										
11	1900	0	100	0	80				3300	18
12	1800	2	100	0	80				3400	24
13	1800	0	100	0	80				3400	30
14	1800	2	100	0	80				3700	30
15	2700	20	100	0	80				4700	30
16										
17	1800	0	100	0	80				4600	34
18	1800	0	100	0	80				4600	30
19	1800	0	100	0	80				4700	30
20	1800	10	100	0	80				4700	36
21	1800	10	100	0	80				4700	42
22	1800	2	100	0	80				4700	24
23										
24	1800	0	100	0	80				4700	34
25	1800	0	100	0	80				4700	42
26	1800	0	100	0	80				4600	44
27	1800	0	100	0	80				4700	34
28	1800	4	100	0	80				4700	34
29	1800	10	100	0	80				4700	34
30										
31	1800	10	100	0	80				3800	30

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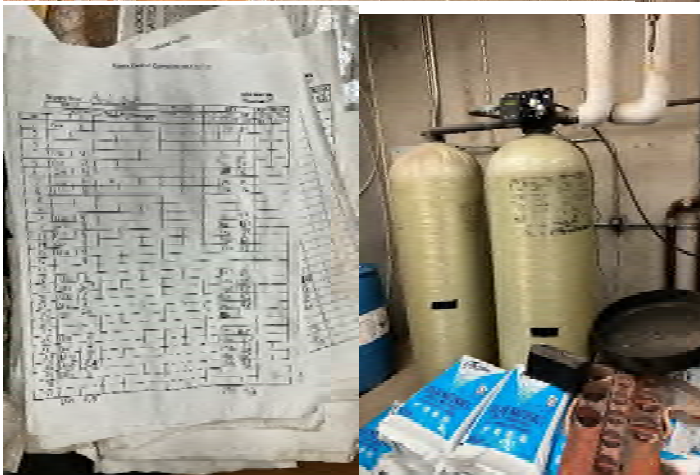
## 8 Photos of NCCF (Continued)



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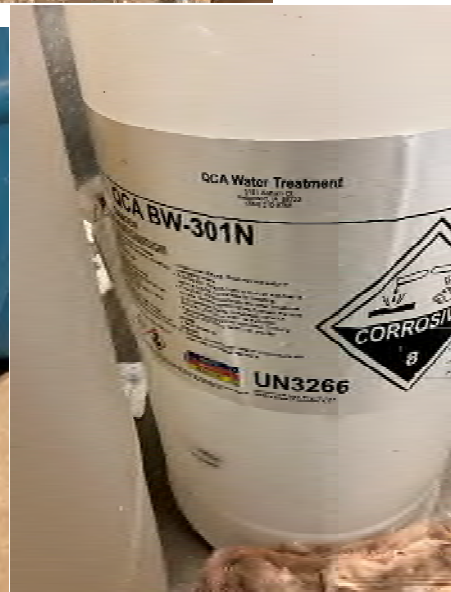
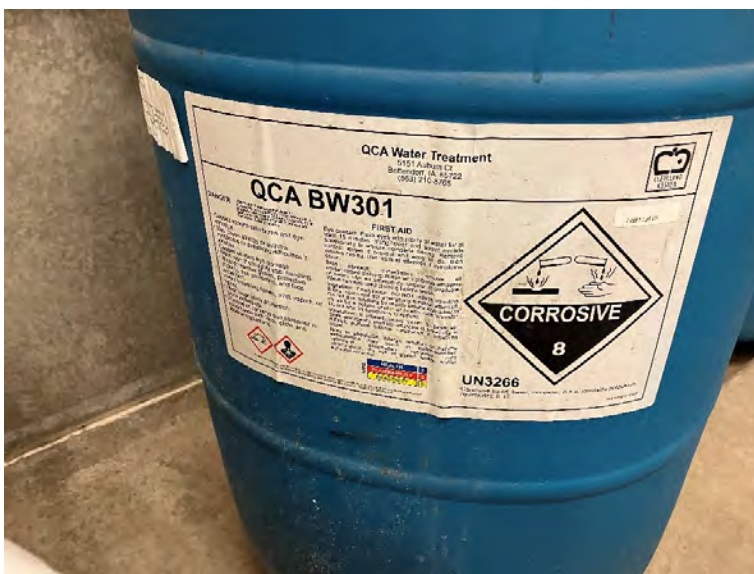
## 8 Photos of NCCF (Continued)



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## 8 Photos of NCCF (Continued)



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## 8 Photos of NCCF (Continued)



## 9 Attachment – Sign in sheet from NCCF Pre-Bid Meeting

### Sign-In Sheet

Pre-Bid Meeting – Monday, April 1<sup>st</sup>, 2024  
Water Treatment Chemicals – North ~~Clarks~~ Correctional Facility  
005-RFP-0816-2024 ~~Central~~

Name	Company	E-Mail	Phone #
John Ensign	Nalco Water	John.ensign@ecolab.com	641-260-1819
Paul Gleason	Global Water Technology	pgleason@gwt-inc.com	309-255-0078



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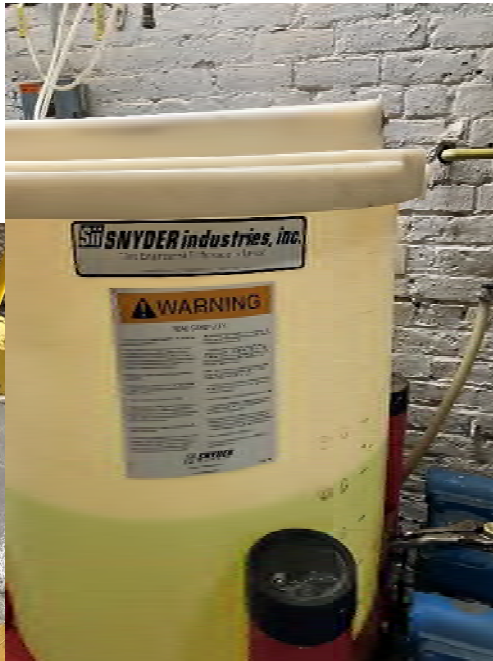
**10 Glenwood Resource Center (GRC) – Questions and Answers**

- a. Current Provider - Advanced Water (This solicitation is as back-up provider).
- b. How often is the water tested - Twice a day.
- c. Facility Shut-Down is tentatively the end of December.
- d. How many boilers - Two large boilers - Run during winter / one small boilers - Run in summer.
- e. Planning a pre-emptive chemical treatment if fully closing.
- f. Water source - Domestic water that is softened.
- g. Cold Lay-ups - Summer Only.
- h. How many barrels of chemical are used in the chill loop - 4 barrels, not drained - usually use on 55 gal barrel when loop was low.
- i. Capacity on chillers - 500 tonnage on two chillers - Run one unless it gets to above 100 degrees - then rotate to keep even on hours.
- j. What are you using as a tracer – PTSA
- k. What is the make-up water - 890 gallons.
- l. Automatic Blowdowns on all - 503 use a half to a quarter cup.
- m. Boiler Stats - 250 horse boiler - runs all summer / 750 horse boiler - currently wet layup / 1000 horse - empty/offline.
- n. 1000-2000 poly per day - cycle rates high - return rates are great / runs a mile and a half 10" lines.
- o. Nitrate - closed loop (four barrels) / Inhibitor - 1 barrel ever two years
- p. Closed loops 2100-2400 gallons per minute.
- q. Metered on closed loop 9 gallons make-up to 30 gallons.
- r. Two cooling towers - can be run separately or in sync.
- s. Water Heaters have open lines that are daisy chained to the boilers
- t. The blue water softeners are not currently utilized, but can be put online in case #4 and #5 softeners are taken offline for repairs.

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## 11 Photos GRC



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## 11 Photos GRC (Continued)



Clearwood Resource Center Boiler Feed Water and Softener Test Log

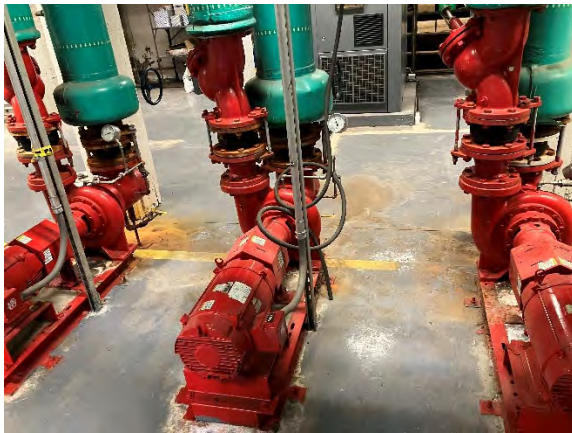
No.	Date	Operator	Feed Water		Softener		Boiler		Total		Notes		
			Ca (ppm)	Mg (ppm)	Ca (ppm)	Mg (ppm)	Ca (ppm)	Mg (ppm)	Ca (ppm)	Mg (ppm)	Hardness	Condition	
1	1/23/24	A	157.3	13.9	20.0	1.0	137.3	12.9	157.3	12.9	157.3	12.9	OK
2	1/24/24	A	157.3	13.9	20.0	1.0	137.3	12.9	157.3	12.9	157.3	12.9	OK
3	1/24/24	A	157.3	13.9	20.0	1.0	137.3	12.9	157.3	12.9	157.3	12.9	OK
4	1/24/24	A	157.3	13.9	20.0	1.0	137.3	12.9	157.3	12.9	157.3	12.9	OK
5	1/24/24	A	157.3	13.9	20.0	1.0	137.3	12.9	157.3	12.9	157.3	12.9	OK
6	1/24/24	A	157.3	13.9	20.0	1.0	137.3	12.9	157.3	12.9	157.3	12.9	OK
7	1/24/24	A	157.3	13.9	20.0	1.0	137.3	12.9	157.3	12.9	157.3	12.9	OK
8	1/24/24	A	157.3	13.9	20.0	1.0	137.3	12.9	157.3	12.9	157.3	12.9	OK
9	1/24/24	A	157.3	13.9	20.0	1.0	137.3	12.9	157.3	12.9	157.3	12.9	OK
10	1/24/24	A	157.3	13.9	20.0	1.0	137.3	12.9	157.3	12.9	157.3	12.9	OK
11	1/24/24	A	157.3	13.9	20.0	1.0	137.3	12.9	157.3	12.9	157.3	12.9	OK
12	1/24/24	A	157.3	13.9	20.0	1.0	137.3	12.9	157.3	12.9	157.3	12.9	OK
13	1/24/24	A	157.3	13.9	20.0	1.0	137.3	12.9	157.3	12.9	157.3	12.9	OK
14	1/24/24	A	157.3	13.9	20.0	1.0	137.3	12.9	157.3	12.9	157.3	12.9	OK
15	1/24/24	A	157.3	13.9	20.0	1.0	137.3	12.9	157.3	12.9	157.3	12.9	OK
16	1/24/24	A	157.3	13.9	20.0	1.0	137.3	12.9	157.3	12.9	157.3	12.9	OK
17	1/24/24	A	157.3	13.9	20.0	1.0	137.3	12.9	157.3	12.9	157.3	12.9	OK
18	1/24/24	A	157.3	13.9	20.0	1.0	137.3	12.9	157.3	12.9	157.3	12.9	OK
19	1/24/24	A	157.3	13.9	20.0	1.0	137.3	12.9	157.3	12.9	157.3	12.9	OK
20	1/24/24	A	157.3	13.9	20.0	1.0	137.3	12.9	157.3	12.9	157.3	12.9	OK
21	1/24/24	A	157.3	13.9	20.0	1.0	137.3	12.9	157.3	12.9	157.3	12.9	OK
22	1/24/24	A	157.3	13.9	20.0	1.0	137.3	12.9	157.3	12.9	157.3	12.9	OK
23	1/24/24	A	157.3	13.9	20.0	1.0	137.3	12.9	157.3	12.9	157.3	12.9	OK
24	1/24/24	A	157.3	13.9	20.0	1.0	137.3	12.9	157.3	12.9	157.3	12.9	OK
25	1/24/24	A	157.3	13.9	20.0	1.0	137.3	12.9	157.3	12.9	157.3	12.9	OK
26	1/24/24	A	157.3	13.9	20.0	1.0	137.3	12.9	157.3	12.9	157.3	12.9	OK
27	1/24/24	A	157.3	13.9	20.0	1.0	137.3	12.9	157.3	12.9	157.3	12.9	OK
28	1/24/24	A	157.3	13.9	20.0	1.0	137.3	12.9	157.3	12.9	157.3	12.9	OK
29	1/24/24	A	157.3	13.9	20.0	1.0	137.3	12.9	157.3	12.9	157.3	12.9	OK
30	1/24/24	A	157.3	13.9	20.0	1.0	137.3	12.9	157.3	12.9	157.3	12.9	OK
31	1/24/24	A	157.3	13.9	20.0	1.0	137.3	12.9	157.3	12.9	157.3	12.9	OK
32	1/24/24	A	157.3	13.9	20.0	1.0	137.3	12.9	157.3	12.9	157.3	12.9	OK
33	1/24/24	A	157.3	13.9	20.0	1.0	137.3	12.9	157.3	12.9	157.3	12.9	OK
34	1/24/24	A	157.3	13.9	20.0	1.0	137.3	12.9	157.3	12.9	157.3	12.9	OK
35	1/24/24	A	157.3	13.9	20.0	1.0	137.3	12.9	157.3	12.9	157.3	12.9	OK
36	1/24/24	A	157.3	13.9	20.0	1.0	137.3	12.9	157.3	12.9	157.3	12.9	OK
37	1/24/24	A	157.3	13.9	20.0	1.0	137.3	12.9	157.3	12.9	157.3	12.9	OK
38	1/24/24	A	157.3	13.9	20.0	1.0	137.3	12.9	157.3	12.9	157.3	12.9	OK
39	1/24/24	A	157.3	13.9	20.0	1.0	137.3	12.9	157.3	12.9	157.3	12.9	OK
40	1/24/24	A	157.3	13.9	20.0	1.0	137.3	12.9	157.3	12.9	157.3	12.9	OK
41	1/24/24	A	157.3	13.9	20.0	1.0	137.3	12.9	157.3	12.9	157.3	12.9	OK
42	1/24/24	A	157.3	13.9	20.0	1.0	137.3	12.9	157.3	12.9	157.3	12.9	OK
43	1/24/24	A	157.3	13.9	20.0	1.0	137.3	12.9	157.3	12.9	157.3	12.9	OK
44	1/24/24	A	157.3	13.9	20.0	1.0	137.3	12.9	157.3	12.9	157.3	12.9	OK
45	1/24/24	A	157.3	13.9	20.0	1.0	137.3	12.9	157.3	12.9	157.3	12.9	OK
46	1/24/24	A	157.3	13.9	20.0	1.0	137.3	12.9	157.3	12.9	157.3	12.9	OK
47	1/24/24	A	157.3	13.9	20.0	1.0	137.3	12.9	157.3	12.9	157.3	12.9	OK
48	1/24/24	A	157.3	13.9	20.0	1.0	137.3	12.9	157.3	12.9	157.3	12.9	OK
49	1/24/24	A	157.3	13.9	20.0	1.0	137.3	12.9	157.3	12.9	157.3	12.9	OK
50	1/24/24	A	157.3	13.9	20.0	1.0	137.3	12.9	157.3	12.9	157.3	12.9	OK



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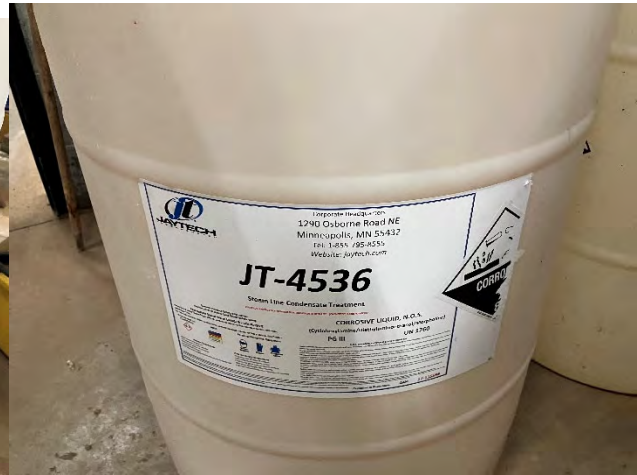
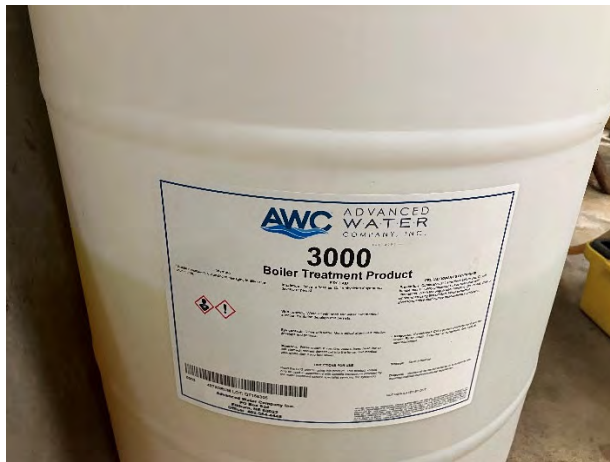
## 11 Photos of GRC (Continued)



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## 11 Photos GRC (Continued)



## 12 Sign-In Sheet GRC Pre-Bid Meeting

### Sign-In Sheet

Pre-Bid Meeting – Tuesday, April 2<sup>nd</sup>, 2024  
Water Treatment Chemicals – Glenwood Resource Center  
005-RFP-0816-2024

Name	Company	E-Mail	Phone #
John Ensign			
Ryan Stednitz	Nalco	Ryan.stednitz.com	712-310-1528
Paul Gibson	GWT	p.gibson@gwt-ia.com	309-255-0078
John Hite	Chemsearch FE	john.hite@chemsearch-fe.com	402-208-6142
Erica Hite	Chemsearch FE	erica.hite@chemsearch-fe.com	402-490-0679

# Addendum #3

**Solicitation Name:**

**Water Treatment and Boiler Chemicals**

**005-RFB-0816-2024**

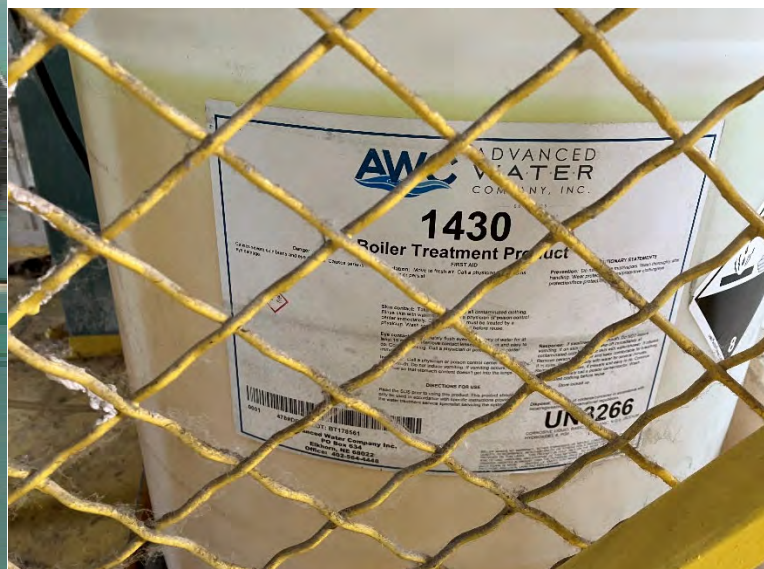
**Addendum #3**

**Dated: April 4th, 2024**

**13 Clarinda Correctional Facility (CCF) – Questions and Answers**

- a. Boilers run year round - two large winter (typically run one at a time) / one small boiler for summer.
- b. All new condensate lines - Excellent return.
- c. Soft water - two water softeners - boilers only.
- d. Water source produced from our own two wells.
- e. Little boiler has automatic blowdown. All three boilers have auto blowdowns.
- f. Chemical pumps are owned.
- g. Metered water usage once a day.
- h. The Advanced Controls unit checks every 30 minutes.
- i. Cooling tower uses Jaytech JT 2005

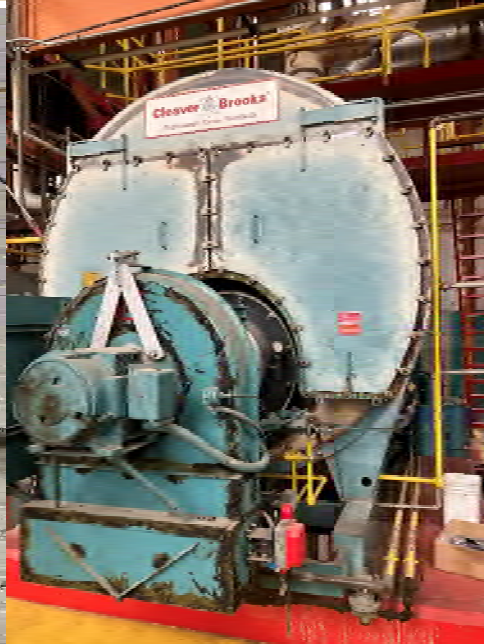
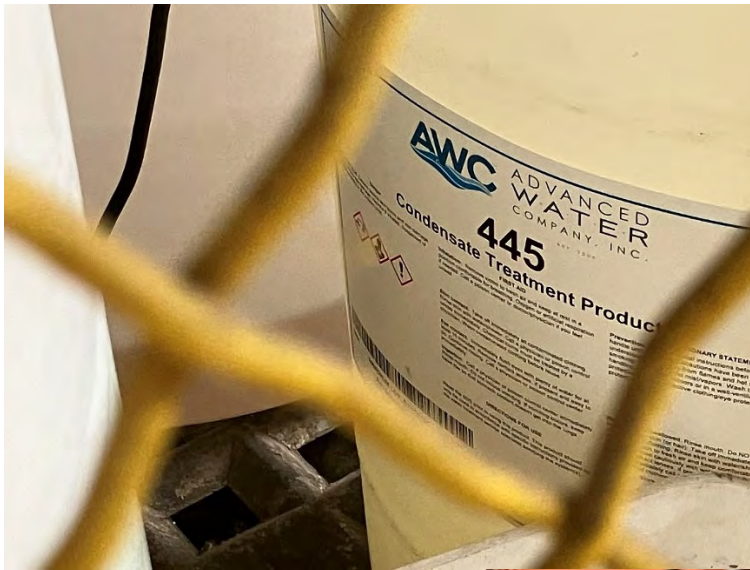
**14 Photos of CCF**



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## 14 Photos of CCF (Continued)



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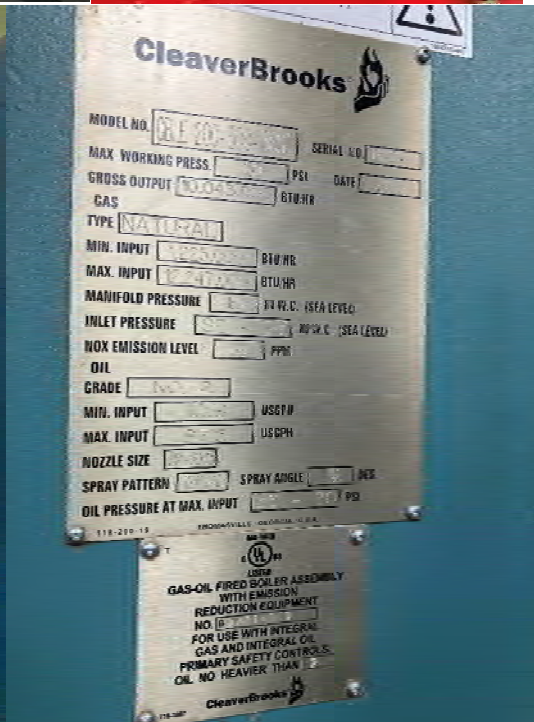
## 14 Photos of CCF (Continued)



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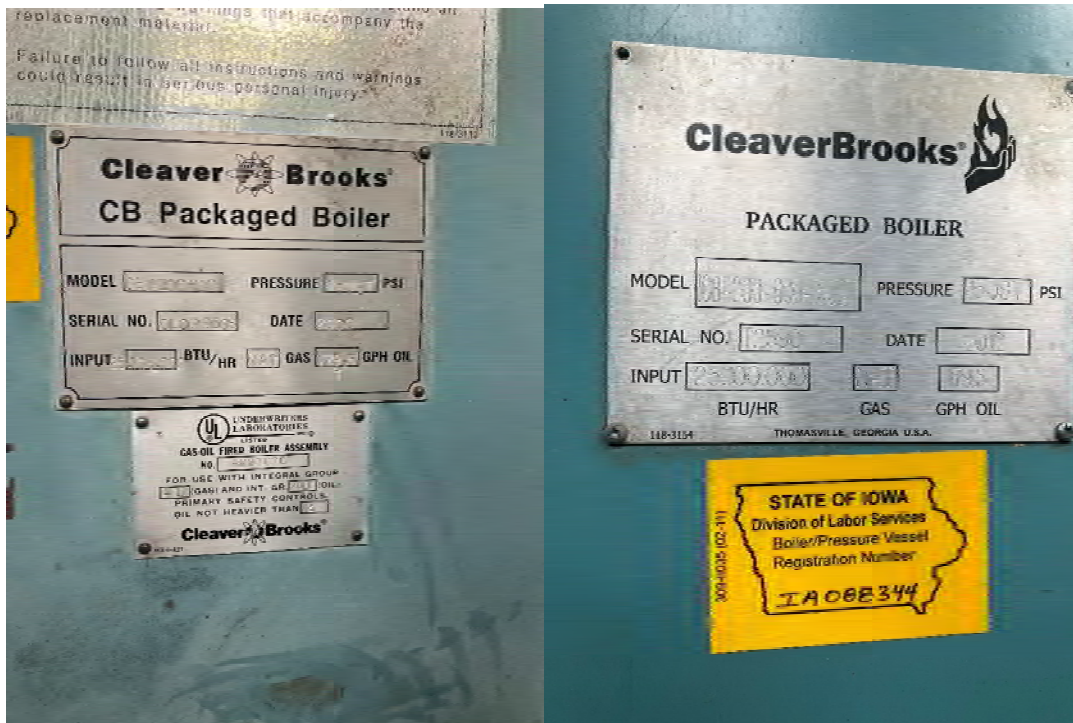
## 14 Photos of GRC (Continued)



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## 14 Photos GRC (Continued)

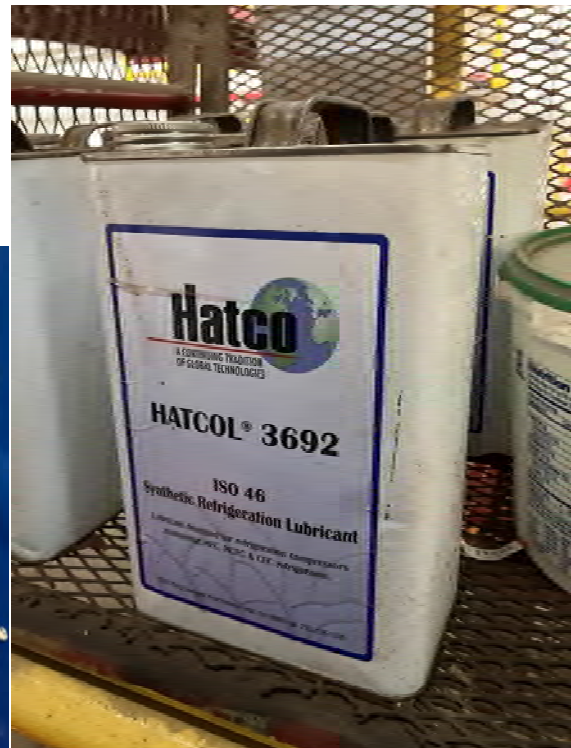
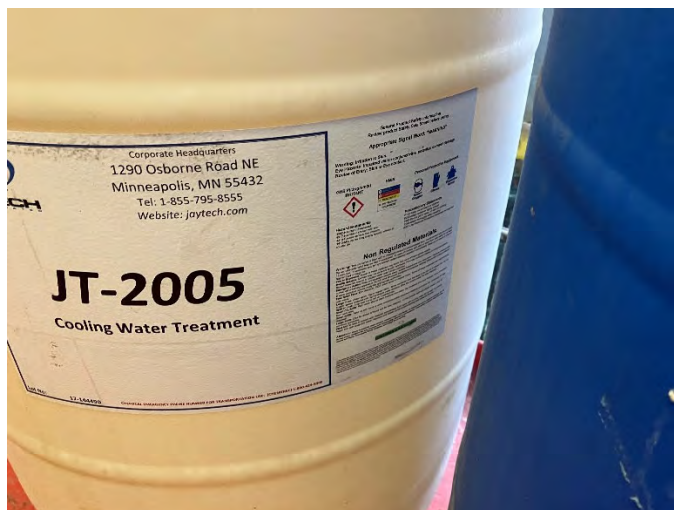




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**14 Photos of CCF (Continued)**





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15 Sign-In Sheet for CCF Pre-Bid Meeting

## Sign-In Sheet

Pre-Bid Meeting – Tuesday, April 2<sup>nd</sup>, 2024  
Water Treatment Chemicals – Clarinda Correctional Facility  
005-RFP-0816-2024

Name	Company	E-Mail	Phone #
<hr/>			
<hr/>			
Same as Glenwood Resource Center			
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End of Addendum