



1112 Manatee Avenue West  
Bradenton, FL 34205  
[purchasing@mymanatee.org](mailto:purchasing@mymanatee.org)

## Solicitation Addendum

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Addendum No.: 2  
Solicitation No.: 24-R084454DJ  
Solicitation Title: Professional Design Services for the Central Energy Plant Chiller System  
Addendum Date: July 2, 2024  
Procurement Contact: Dave Janney, Procurement Agent III

**RFQ 24-R084454DJ is amended as set forth herein. Responses to questions posed by prospective bidders are provided below. This Addendum is hereby incorporated in and made a part of RFQ 24-R084454DJ.**

The deadline to submit all inquiries concerning interpretation, clarification or additional information pertaining to this RFQ was June 7, 2024.

### **ADD:**

#### **SECTION E, EXHIBITS**

Exhibit 3, Central Energy Plant - Plans, are hereby incorporated into the RFQ and available for download as a separate attachment.

### **ADD:**

#### **SECTION E, EXHIBITS**

The attached Exhibit 4, Central Energy Plant Reports, are hereby incorporated into the RFQ.

### **QUESTIONS AND RESPONSES:**

**Q1. Are drawings of the existing system available? Confirm backgrounds (CAD and/or Revit) will be provided in order to create the drawings.**

**R1. See Add Section above.**

**Q2. Are there any trend logs for the chiller plant performance? If so, would these be available now or during the design?**

R2. See Add Section above.

**Q3. Can you provide the available cut sheet and any existing drawings for the chiller plant?**

R3. See Add Section above.

**Q4. Other than the control schematic, is there existing documentation and sequence of operation for the existing chiller plant? If yes, will this document be available during the design period?**

R4. This will be available during the design period.

**Q5. Are “as built” plans and specs for existing system available?**

R5. See Add Section above.

**Q6. Do you have a list of existing components and their respective serial numbers available?**

R6. Central Energy Plant – York Unit Model YKECETQ7-EPGS  
Compressor Model, YDHF-52VDD, S/N SNBM-120900

York Unit Model YKECETQ7-EPGS  
Compressor Model, YDHF-52VDD, S/N SNBM-120710

**Q7. Are maintenance logs available?**

R7. See Add Section above.

**NOTE:**

Deleted items will be ~~struck through~~, added or modified items will be underlined. All other terms and conditions remain as stated in the RFQ.

**INSTRUCTIONS:**

Receipt of this Addendum must be acknowledged as instructed in the solicitation document. Failure to acknowledge receipt of this Addendum may result in the response being deemed non-responsive.

**END OF ADDENDUM**

AUTHORIZED FOR RELEASE



# Kibler Chemical Corporation, Inc.

1610 Orange Avenue, St. Cloud, FL 34769

407-957-2225 fax: 407-957-0643

[www.kiblerchemical.com](http://www.kiblerchemical.com)

## WATER-ANALYSIS & SERVICE REPORT

Customer: MANATEE COUNTY - CENTRAL ENERGY PLANT

323 9<sup>TH</sup> ST W

Location: BRADENTON, FL 34205

Contractor: CONTACT: DOUG 941 737-3156

Attention: \_\_\_\_\_ Date: 5/15/24

Chemicals in Use:	
CWT-153	CWB-SHS
BUSAN/1078	CWT-20
—	—

**Chemicals Added and/or Delivered:**

CWT 153	—	(Gals)
CWT 163	—	(Gals)
CWT-1646	—	(Gals)
CWT-20	<u>2.5</u>	(Gals)
CWT-100	—	(Lbs)
CWB-SHS	—	(Gals)
BUSAN 1735	—	(Gals)
BUSAN 1078	—	(Gals)
DIALD 45	—	(Gals)
BIOBROM BT	—	(Lbs)
CLT-MSC	—	(Lbs)
CWCL-100	—	(Gals)
OTHER	—	

Water Meter Reading: \_\_\_\_\_

Reported in PPM	CT	CHW	RECOMMENDED LIMITS			
			FROM	TO	FROM	TO
Phenolphthalein P	<u>40</u>		—	—		
Total Alkalinity M	<u>140</u>		<	<u>400</u>		
Chloride NaCl	<u>260</u>		<	<u>300</u>		
Total Hardness TH	<u>460</u>		<	<u>500</u>		
Hydrogen PH	<u>8.6</u>	<u>10.0</u>	—	—	<u>8.3</u>	<u>10.1</u>
Conductivity MM	<u>1563</u>	<u>1701</u>	≈	<u>1600</u>	<u>1000</u>	<u>4000</u>
Sequest/Polymer Seq	<u>(4)</u>	—	<u>5</u>	<u>10</u>	—	—
Iron FE	<u>0</u>	<u>0</u>	<	<u>1.0</u>	<	<u>1.0</u>
Silica SiO <sub>2</sub>		—			—	—
Nitrite NaNO <sub>2</sub>		<u>(360)</u>			<u>600</u>	<u>1000</u>
Sulfite SO <sub>3</sub>						
Phosphate PO <sub>4</sub>						
Bromine NaBr						
Copper Cu	<u>0</u>		<	<u>.5</u>		
Chlorine - Free Cl <sub>2</sub>						
Chlorine - Total Cl <sub>2</sub>						

Make-up Water Analysis	P	M	NaCl	TH	FE	MM	COCs - NaCl	COCs - TH	COCs - MM
	<u>0</u>	<u>80</u>	<u>160</u>	<u>280</u>	<u>0</u>	<u>964</u>	—	—	—

\* CT - CHEMICAL INHIBITOR IS SLIGHTLY LOW. MADE ADJUSTMENTS TO CHEMICAL PUMP. ALL OTHER NUMBERS WITHIN RECOMMENDED LIMIT. ALL CHEMICAL PUMPS PRIMED AND READY.

\* CHW - NITRITE IS LOW. ADDED 2.5 GALLONS OF CWT-20 TO CHEMICAL FEEDER. ALL OTHER TEST WITHIN LEVELS.

Customer's Signature & Date: Alonzo MOORE 05/15/24 KCC Service Rep's Signature & Date: \_\_\_\_\_



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## WATER-ANALYSIS & SERVICE REPORT

Customer: MANATEE COUNTY - CENTRAL ENERGY PLANT  
323 9<sup>TH</sup> ST W

Location: BRADENTON, FL 34205  
 CONTACT: DOUG 941 737-3156

Contractor: \_\_\_\_\_

Attention: \_\_\_\_\_ Date: 4/17/24

Reported in PPM	CT	CAW	RECOMMENDED LIMITS			
			FROM	TO	FROM	TO
Phenolphthalein P	40		—	—		
Total Alkalinity M	140		<	400		
Chloride NaCl	260		<	300		
Total Hardness TH	480		<	500		
Hydrogen PH	8.9	10.1	—	—	8.3	10.1
Conductivity MM	1632	1670	≈	1600	1000	4000
Sequest/Polymer Seq	③	—	6	12	—	—
Iron FE	Ø	TR	<	1.0	<	1.0
Silica SiO <sub>2</sub>						
Nitrite NaNO <sub>2</sub>		280			600	1000
Sulfite SO <sub>3</sub>						
Phosphate PO <sub>4</sub>						
Bromine NaBr						
Copper Cu	Ø		<	.5		
Chlorine - Free Cl <sub>2</sub>						
Chlorine - Total Cl <sub>2</sub>						

### Chemicals in Use:

CWT-153	CWB-SHS
BUSANI 078	CWT-20
—	—

### Chemicals Added and/or Delivered:

CWT 153	<u>7.5</u>	(Gals)
CWT 163	—	(Gals)
CWT-1646	—	(Gals)
CWT-20	<u>2.5</u>	(Gals)
CWT-100	—	(Lbs)
CWB-SHS	—	(Gals)
BUSAN 1735	—	(Gals)
BUSAN 1078	—	(Gals)
DIALD 45	—	(Gals)
BIOBROM BT	—	(Lbs)
CLT-MSC	—	(Lbs)
CWCL-100	—	(Gals)
OTHER	—	

### Water Meter Reading:

—

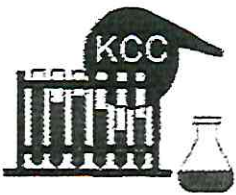
Make-up Water Analysis	P	M	NaCl	TH	FE	MM	COCs - NaCl	COCs - TH	COCs - MM
	Ø	160	140	320	Ø	941	—	—	—

\* CT - CHEMICAL EMULSIFIER IS LOW. MADE ADJUSTMENTS TO CHEMICAL PUMP. ALL OTHER NUMBERS WITHIN RECOMMENDED LIMITS.

\* CAW - NITRITE IS LOW. ADDED 2.5 gals OF CWT-20 TO CHEMICAL FEEDER. ALL OTHER TEST WITHIN RECOMMENDED LEVELS.

Customer's Signature & Date: \_\_\_\_\_

KCC Service Rep's Signature & Date: \_\_\_\_\_



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## WATER-ANALYSIS & SERVICE REPORT

Customer: MANATEE COUNTY - CENTRAL ENERGY PLANT  
 323 9<sup>TH</sup> ST W

Location: BRADENTON, FL 34205  
 CONTACT: DOUG 941 737-3156

Contractor: \_\_\_\_\_ Date: 3/14/24

Reported in PPM	CT	CHW	RECOMMENDED LIMITS			
			FROM	TO	FROM	TO
Phenolphthalein P	40		—	—		
Total Alkalinity M	160		<	400		
Chloride NaCl	300		<	900		
Total Hardness TH	480		<	500		
Hydrogen PH	9.2	9.9	—	—	8.3	10.1
Conductivity MM	1572	1686	≥	1600	1000	4000
Sequest/Polymer Seq	4	—	6	12	—	—
Iron FE	8	2	<	1.0	<	1.0
Silica SiO <sub>2</sub>						
Nitrite NaNO <sub>2</sub>		360			600	1000
Sulfite SO <sub>3</sub>						
Phosphate PO <sub>4</sub>						
Bromine NaBr						
Copper Cu	8		<	1.5		
Chlorine - Free Cl <sub>2</sub>						
Chlorine - Total Cl <sub>2</sub>						

Chemicals in Use:	
CWT-153	CWB-SHS
BUSAN 1078	CWT-20
—	—

Chemicals Added and/or Delivered:	
CWT 153	2.5 (Gals)
CWT 163	— (Gals)
CWT-1646	— (Gals)
CWT-20	2.5 (Gals)
CWT-100	— (Lbs)
CWB-SHS	2.5 (Gals)
BUSAN 1735	— (Gals)
BUSAN 1078	— (Gals)
DIALD 45	— (Gals)
BIOBROM BT	— (Lbs)
CLT-MSC	— (Lbs)
CWCL-100	— (Gals)
OTHER	—

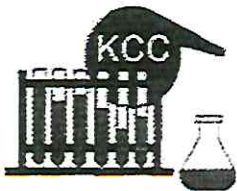
Water Meter Reading:  
 \_\_\_\_\_

Make-up Water Analysis	P	M	NaCl	TH	FE	MM	COCs - NaCl	COCs - TH	COCs - MM
	8	80	140	300	8	906	—	—	—

\* CT - NITRITE IS SLIGHTLY LOW. MADE ADJUSTMENTS TO CHEMICAL PUMP. ALL OTHER NUMBERS WITHIN RECOMMENDED LIMITS. CHEMICAL PUMP FOR (BUSAN 1078) NOT WORKING PROPERLY, NEEDS TO BE REPLACED.

\* CHW - IRON IS HIGH. NITRITE IS LOW. ADDED 2.5 GALLONS OF CWT-20 TO CHEMICAL FEEDER.

Customer's Signature & Date: [Signature] KCC Service Rep's Signature & Date: [Signature]



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## WATER-ANALYSIS & SERVICE REPORT

Customer: MANATEE COUNTY - CENTRAL ENERGY PLANT

323 9<sup>TH</sup> ST W

Location: BRADENTON, FL 34205

Contractor: CONTACT: DOUG 941 737-3156

Attention: \_\_\_\_\_ Date: 2/8/24

Reported in PPM	CT	CHW	RECOMMENDED LIMITS			
			FROM	TO	FROM	TO
Phenolphthalein P	40		—	—		
Total Alkalinity M	120		<	400		
Chloride NaCl	350		<	900		
Total Hardness TH	440		<	500		
Hydrogen PH	8.4	10.0	—	—	8.3	10.1
Conductivity MM	1564	1545	≈	1600	1000	4000
Sequest/Polymer Seq	(4)	—	6	12	—	—
Iron FE	0	(1.0)	<	1.0	<	1.0
Silica SiO <sub>2</sub>		—			—	—
Nitrite NaNO <sub>2</sub>		(0)			600	1000
Sulfite SO <sub>3</sub>						
Phosphate PO <sub>4</sub>						
Bromine NaBr						
Copper Cu	0		<	.5		
Chlorine - Free Cl <sub>2</sub>						
Chlorine - Total Cl <sub>2</sub>						

### Chemicals in Use:

CWT-153	CWB-SHS
BUSAN 1678	CWT-20
—	—

### Chemicals Added and/or Delivered:

CWT 153	<u>15</u>	(Gals)
CWT 163	—	(Gals)
CWT-1646	—	(Gals)
CWT-20	—	(Gals)
CWT-100	<u>12.5 lbs</u>	(Lbs)
CWB-SHS	—	(Gals)
BUSAN 1735	—	(Gals)
BUSAN 1078	—	(Gals)
DIALD 45	—	(Gals)
BIOBROM BT	—	(Lbs)
CLT-MSC	—	(Lbs)
CWCL-100	—	(Gals)
OTHER	—	

Water Meter Reading: \_\_\_\_\_

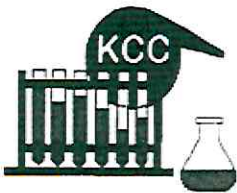
Make-up Water Analysis	P	M	NaCl	TH	FE	MM	COCs - NaCl	COCs - TH	COCs - MM
	0	80	200	320	0	1074			

\* CT - CHEMICAL INHIBITOR IS LOW. MADE ADJUSTMENTS TO CHEMICAL Pump. ALL OTHER NUMBERS WITHIN Recommended Limits.

\* CHW - FLOW IS HIGH. CHEMICAL INHIBITOR LOW. ADD 12.5 LBS OF CWT-100 TO CHEMICAL FEED.

Customer's Signature & Date: John Steward

KCC Service Rep's Signature & Date: \_\_\_\_\_



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## WATER-ANALYSIS & SERVICE REPORT

Customer: **MANATEE COUNTY – CENTRAL ENERGY PLANT**

Location: **323 9<sup>TH</sup> ST W**

Contractor: **BRADENTON, FL 34205**

Attention: **CONTACT: DOUG 941 737-3156**

Date: 1/11/24

SAMPLE SOURCE: UNIT NAME & NUMBER RECOMMENDED LIMITS

Reported in PPM	CT	CHW	—	—	TOWER		CHILLED SWP	
					FROM	TO	FROM	TO
Phenolphthalein P	20							
Total Alkalinity M	100				< 400			
Chloride NaCl	200				< 900			
Total Hardness TH	380/460				< 500			
Hydrogen PH	8.9	10.4			—	—	8.3	10.1
Conductivity MM	1995	1455			≈	1600	1000	4000
Sequest/Polymer Seq.	3	—			6	12	—	—
Iron FE	0	0.5			<	1.0	<	1.0
Molybdenum Mo		—					—	—
Nitrite NaNO <sub>2</sub>		290					600	1000
Sulfite SO <sub>3</sub>								
Phosphate PO <sub>4</sub>								
Bromine NaBr								
Copper Cu	0				<	15		

### FEED & BLEED EQUIPMENT INSPECTION REPORT

UP= working DN= out of service  
UR = under repair

Current Equipment	UP	DN	UR
Conductivity Controller			
Feed & Bleed Controller			
System Flow Switch			
Bleed Valve			
Water Meter			
Inhibitor Timer			
Algacide Timer			
Inhibitor Pump			
Algacide Pumps			

#### Treatment Chemicals In Use:

CWT-153, CWTB-SMS,  
IBURAN/078, CWT-20

#### Treatment Chemicals Added And Or

Delivered: 10 gal 153,  
12.5 lbs CWT-100

#### Water Meter Reading:

—

Make-up Water Analysis	P	M	NaCl	TH	FE	MM	COCs - NaCl	COCs - TH	COCs - MM
	0	80	200	380	0	1995 1595			

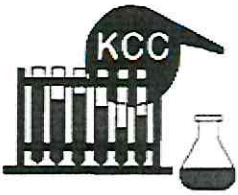
\* CT - CHEMICAL INHIBITOR IS LOW. MADE ADJUSTMENTS TO CHEMICAL PUMP. ALL OTHER NUMBERS WITHIN RECOMMENDED LIMITS

\* CHW - PH IS HIGH. CHEMICAL INHIBITOR IS LOW. ADDED 12.5 LBS OF CWT-100 TO CHEMICAL FEEDER.

Customer's Signature & Date: [Signature]

KCC Service Rep's Signature & Date: [Signature]





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## WATER-ANALYSIS & SERVICE REPORT

Customer: MANATEE COUNTY - CENTRAL ENERGY PLANT

Location: 323 9<sup>TH</sup> ST W

Contractor: BRADENTON, FL 34205

Attention: CONTACT: DOUG 941 737-3156

Date: 12/14/23

SAMPLE SOURCE: UNIT NAME & NUMBER RECOMMENDED LIMITS

Reported in PPM	CT	CHW	-	-	TOWER		CHILLED WATER	
					FROM	TO	FROM	TO
Phenolphthalein P	40				-	-		
Total Alkalinity M	120				<	400		
Chloride NaCl	400				<	900		
Total Hardness TH	360				<	500		
Hydrogen PH	8.9	9.7			-	-	8.3	10.1
Conductivity MM	1458	1899			~	1600	1000	4000
Sequest/Polymer Seq.	(3)	-			6	12	-	-
Iron FE	Ø	0.5			<	1.0	<	1.0
Molybdenum Mo		-					-	-
Nitrite NaNO <sub>2</sub>		680					600	1000
Sulfite SO <sub>3</sub>								
Phosphate PO <sub>4</sub>								
Bromine NaBr								
Copper Cu	Ø				<	.5		

### FEED & BLEED EQUIPMENT INSPECTION REPORT

UP= working DN= out of service  
UR = under repair

Current Equipment	UP	DN	UR
Conductivity Controller			
Feed & Bleed Controller			
System Flow Switch			
Bleed Valve			
Water Meter			
Inhibitor Timer			
Algaecide Timer			
Inhibitor Pump			
Algaecide Pumps			

#### Treatment Chemicals In Use:

CLT-153, CWB-545,  
ILCAN 1079, CWT-20

#### Treatment Chemicals Added And Or

Delivered: 2.5 gal 153

#### Water Meter Reading:

\_\_\_\_\_

\_\_\_\_\_

Make-up Water Analysis	P	M	NaCl	TH	FE	MM	COCs - NaCl	COCs - TH	COCs - MM
	Ø	80	260	260	Ø	1098			

\* CT - CHEMICAL INHIBITOR LOW MADE ADJUSTMENTS TO CHEMICAL PUMP. ALL OTHER NUMBERS WITHIN RECOMMENDED LIMITS.

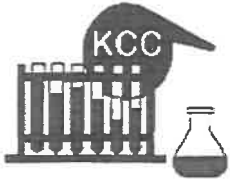
\* CHW - ALL NUMBERS WITHIN RECOMMENDED LEVELS.

Customer's Signature & Date:

*John Howard*

KCC Service Rep's Signature & Date:

*[Signature]*



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## WATER-ANALYSIS & SERVICE REPORT

### FEED & BLEED EQUIPMENT INSPECTION REPORT

UP= working DN= out of service  
UR = under repair

Customer: MANATEE COUNTY - CENTRAL ENERGY PLANT

Location: 323 9<sup>TH</sup> ST W  
BRADENTON, FL 34205

Contractor: CONTACT: DOUG 941 737-3156

Attention: \_\_\_\_\_ Date: 10/9/23

SAMPLE SOURCE: UNIT NAME & NUMBER RECOMMENDED LIMITS

Reported in PPM	CT	CHW	TOWER		LOW	
			FROM	TO	FROM	TO
Phenolphthalein P	60		—	—		
Total Alkalinity M	100		<	400		
Chloride NaCl	400		<	900		
Total Hardness TH	380		<	500		
Hydrogen PH	9.0	10.1	—	—	8.3	10.1
Conductivity MM	1598	1446	≈	1600	1000	4000
Sequest/Polymer Seq.	4	—	6	12	—	—
Iron FE	0	0.5	<	1.0	<	1.0
Molybdenum Mo						
Nitrite NaNO <sub>2</sub>		300			600	1000
Sulfite SO <sub>3</sub>						
Phosphate PO <sub>4</sub>						
Bromine NaBr						
Copper Cu	0		<	15		

Current Equipment	UP	DN	UR
Conductivity Controller			
Feed & Bleed Controller			
System Flow Switch			
Bleed Valve			
Water Meter			
Inhibitor Timer			
Algaecide Timer			
Inhibitor Pump			
Algaecide Pumps			

#### Treatment Chemicals In Use:

CWT-153, CWB-5HS,  
BUSAN 1078, CWT-20

#### Treatment Chemicals Added And Or

Delivered: 7.5 gal 153  
CWT-100 (12.5 lbs)

#### Water Meter Reading:

\_\_\_\_\_

Make-up Water Analysis	P	M	NaCl	TH	FE	MM	COCs - NaCl	COCs - TH	COCs - MM
	0	180	260	260	0	1067			

\* CT - CHEMICAL INHIBITOR IS LOW. MADE ADJUSTMENTS TO CHEMICAL PUMPS. ALL CHEMICAL PUMPS PRIMED AND READY.

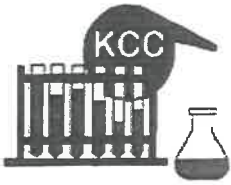
\* CHW - CHEMICAL INHIBITOR IS LOW. ADDED CWT-100 TO CHEMICAL POT FEEDER.

Customer's Signature & Date: \_\_\_\_\_

John S. Howard

KCC Service Rep's Signature & Date: \_\_\_\_\_

[Signature]



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## WATER-ANALYSIS & SERVICE REPORT

### FEED & BLEED EQUIPMENT INSPECTION REPORT

UP= working DN= out of service  
UR = under repair

Customer **MANATEE COUNTY - CENTRAL ENERGY PLANT**

Location: **323 9<sup>TH</sup> ST W**  
**BRADENTON, FL 34205**

Contracto **CONTACT: DOUG 941 737-3156**

Attention: \_\_\_\_\_ Date: 10/10/23

SAMPLE SOURCE: UNIT NAME & NUMBER RECOMMENDED LIMITS

Reported in PPM	CT	CHW	TOWER		CHILLED WATER	
			FROM	TO	FROM	TO
Phenolphthalein P	40		-	-		
Total Alkalinity M	170		<	400		
Chloride NaCl	550		<	800		
Total Hardness TH	400		<	500		
Hydrogen PH	9.9	10.0	-	-	8.3	10.1
Conductivity MM	1771	1759	≈	1600	1000	4000
Sequest/Polymer Seq.	4	-	6	12	-	-
Iron FE	0	TR	<	1.0	<	1.0
Molybdenum Mo		-			-	-
Nitrite NaNO <sub>2</sub>		0			600	1000
Sulfite SO <sub>3</sub>						
Phosphate PO <sub>4</sub>						
Bromine NaBr						
Copper Cu	0		<	.5		

Current Equipment	UP	DN	UR
Conductivity Controller			
Feed & Bleed Controller			
System Flow Switch			
Bleed Valve			
Water Meter			
Inhibitor Timer			
Algaecide Timer			
Inhibitor Pump			
Algaecide Pumps			

Treatment Chemicals In Use:  
CWT-153, CWB-575,  
Duson 1079, CWT-20

Treatment Chemicals Added And Or Delivered: 2.5 gal 575,  
25 lbs CWT-100

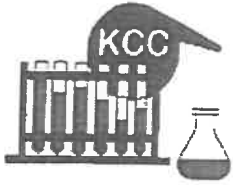
Water Meter Reading:  
\_\_\_\_\_

Make-up Water Analysis	P	M	NaCl	TH	FE	MM	COCs - NaCl	COCs - TH	COCs - MM
	0	80	260	260	0	1024			

\* CT - CHEMICAL INHIBITOR Slightly Low. MADE ADJUSTMENTS TO CHEMICAL Pump. CONDUCTIVITY Slightly High. ALL CHEMICAL Pumps Primed And Ready.

\* CHW - CHEMICAL INHIBITOR Low. Added 25 lbs of CWT-100 TO CHEMICAL Feed Tank.

Customer's Signature & Date: John Steward 10/10/23 KCC Service Rep's Signature & Date: \_\_\_\_\_



# Kibler Chemical Corporation, Inc.

1610 Orange Avenue, St. Cloud, FL 34769

407-957-2225 fax: 407-957-0643

[www.kiblerchemical.com](http://www.kiblerchemical.com)

## WATER-ANALYSIS & SERVICE REPORT

### FEED & BLEED EQUIPMENT INSPECTION REPORT

UP= working DN= out of service  
UR = under repair

Customer: MANATEE COUNTY - CENTRAL ENERGY PLANT  
323 9TH ST W

Location: BRADENTON, FL 34205

Contractor: CONTACT: DOUG 941 737-3156

Attention: \_\_\_\_\_ Date: 9/12/23

SAMPLE SOURCE: UNIT NAME & NUMBER RECOMMENDED LIMITS

Reported in PPM	CT	CHW	TOWER		CHILLED WATER	
			FROM	TO	FROM	TO
Phenolphthalein P	20		-	-		
Total Alkalinity M	100		<	400		
Chloride NaCl	200		<	300		
Total Hardness TH	290		<	500		
Hydrogen PH	8.5	10.1	-	-	8.3	10.1
Conductivity MM	1439	1232	≈	1600	1000	4000
Sequest/Polymer Seq.	3	-	6	12	-	-
Iron FE	0	17.5	<	1.0	<	1.0
Molybdenum Mo						
Nitrite NaNO <sub>2</sub>		200			600	1000
Sulfite SO <sub>3</sub>						
Phosphate PO <sub>4</sub>						
Bromine NaBr						
Copper Cu	0		<	15		

Current Equipment	UP	DN	UR
Conductivity Controller			
Feed & Bleed Controller			
System Flow Switch			
Bleed Valve			
Water Meter			
Inhibitor Timer			
Algacide Timer			
Inhibitor Pump			
Algacide Pumps			

#### Treatment Chemicals In Use:

CWT-103, CWT-5HS,  
INSTR 1078, CWT-20

#### Treatment Chemicals Added And Or

Delivered: 17.5 gal 153,  
2.5 gal 5HS, 2.5 gal  
CWT-20

#### Water Meter Reading:

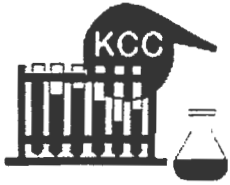
Make-up Water Analysis	P	M	NaCl	TH	FE	MM	COCs - NaCl	COCs - TH	COCs - MM
	0	80	120	240	0	849			

\* CT - CHEMICAL INHIBITOR LOW. MADE ADJUSTMENTS TO CHEMICAL PUMP. ALL CHEMICAL PUMPS PRIMED AND READY.

\* CHW - CHEMICAL INHIBITOR LOW. ADDED 2.5 gal OF CWT-20 TO CHEMICAL FEED. TO BOOST INHIBITOR LEVEL. ALL OTHER NUMBERS WITHIN RECOMMEND LIMITS.

Customer's Signature & Date: \_\_\_\_\_

KCC Service Rep's Signature & Date: \_\_\_\_\_



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## WATER-ANALYSIS & SERVICE REPORT

Customer: **MANATEE COUNTY - CENTRAL ENERGY PLANT**  
323 9<sup>TH</sup> ST W

Location: **BRADENTON, FL 34205**  
CONTACT: DOUG 941 737-3156

Contract: \_\_\_\_\_

Attention: \_\_\_\_\_ Date: 8/15/23

SAMPLE SOURCE: UNIT NAME & NUMBER \_\_\_\_\_ RECOMMENDED LIMITS \_\_\_\_\_

Reported in PPM	CT	CHW	LOWER		LOOP	
			FROM	TO	FROM	TO
Phenolphthalein P	40	/	-	-	1	1
Total Alkalinity M	140	/	<	400	/	/
Chloride NaCl	240	/	<	300	/	/
Total Hardness TH	480	/	<	500	/	/
Hydrogen PH	8.3	10.2	-	-	8.7	10.1
Conductivity MM	1644	1264	>	1600	1000	4000
Sequest/Polymer Seq.	(4)	-	6	12	-	-
Iron FE	0	TR	<	1.0	<	1.0
Molybdenum Mo	/	-	/	/	-	-
Nitrite NaNO <sub>2</sub>	/	0	/	/	600	1000
Sulfite SO <sub>3</sub>	/	/	/	/	/	/
Phosphate PO <sub>4</sub>	/	/	/	/	/	/
Bromine NaBr	/	/	/	/	/	/
Copper Cu	0	/	<	.5	/	/

### FEED & BLEED EQUIPMENT INSPECTION REPORT

UP= working DN= out of service  
UR = under repair

Current Equipment	UP	DN	UR
Conductivity Controller			
Feed & Bleed Controller			
System Flow Switch			
Bleed Valve			
Water Meter			
Inhibitor Timer			
Algaecide Timer			
Inhibitor Pump			
Algaecide Pumps			

#### Treatment Chemicals In Use:

CWT-157, TUCAN 1078,  
CWB-CHS

#### Treatment Chemicals Added And Or

Delivered: 5 gal 157

#### Water Meter Reading:

Make-up Water Analysis	P	M	NaCl	TH	FE	MM	COCs - NaCl	COCs - TH	COCs - MM
	0	100	120	226	0	889			

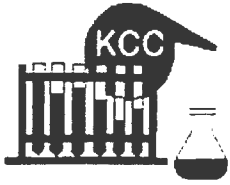
\* CT - CHEMICAL INHIBITOR LOW. MADE ADJUSTMENTS TO INCREASE INHIBITOR LEVELS. ALL OTHER NUMBERS WITHIN RECOMMENDED LIMITS. ALL CHEMICAL PUMPS PRIMED AND READY.

\* CHW - CHEMICAL INHIBITOR LOW, WILL RETURN TO ADD CWT-20. ALL OTHER NUMBERS WITHIN RECOMMENDED LEVELS.

Customer's Signature & Date: \_\_\_\_\_

*[Handwritten Signature]*  
8/15

KCC Service Rep's Signature & Date: \_\_\_\_\_



# Kibler Chemical Corporation, Inc.

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## WATER-ANALYSIS & SERVICE REPORT

Customer: MANATEE COUNTY - CENTRAL ENERGY PLANT  
323 9TH ST W

Location: BRADENTON, FL 34205

Contractor: CONTACT: DOUG 941 737-3156

Attention: \_\_\_\_\_ Date: 7/18/23

SAMPLE SOURCE: UNIT NAME & NUMBER RECOMMENDED LIMITS

Reported in PPM	CT	CHW	-	-	TOWER		LOWP	
					FROM	TO	FROM	TO
Phenolphthalein P	40				-	-		
Total Alkalinity M	140				<	400		
Chloride NaCl	260				<	300		
Total Hardness TH	460				<	500		
Hydrogen PH	8.6	10.3			-	-	9.3	10.1
Conductivity MM	1690	1239			≈	1600	1000	4050
Sequest/Polymer Seq.	4	-			6	12	-	-
Iron FE	Ø	0.5			<	1.0	<	1.0
Molybdenum Mo		-					-	-
Nitrite NaNO <sub>2</sub>		Ø					600	1000
Sulfite SO <sub>3</sub>								
Phosphate PO <sub>4</sub>								
Bromine NaBr								
Copper Cu	Ø				<	.5		

## FEED & BLEED EQUIPMENT INSPECTION REPORT

UP= working DN= out of service  
 UR = under repair

Current Equipment	UP	DN	UR
Conductivity Controller			
Feed & Bleed Controller			
System Flow Switch			
Bleed Valve			
Water Meter			
Inhibitor Timer			
Algaecide Timer			
Inhibitor Pump			
Algaecide Pumps			

### Treatment Chemicals In Use:

CWT-153, WTA-102,  
Bucan 1078, CWT-20

### Treatment Chemicals Added And Or

Delivered: 7.5 gal  
153, 5 gal 102,  
2.5 gal CWT-20

### Water Meter Reading:

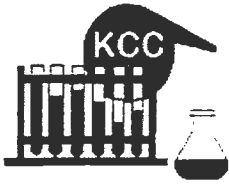
\_\_\_\_\_

Make-up Water Analysis	P	M	NaCl	TH	FE	MM	COCs - NaCl	COCs - TH	COCs - MM
	Ø	60	140	200	Ø	890			

\* CT - CHEMICAL INHIBITORS SLIGHTLY LOW. MADE ADJUSTMENTS TO CHEMICAL PUMP. ALL OTHER TESTS WITHIN RECOMMENDED LIMIT. ALL CHEMICAL PUMPS PRIMED AND READY.

\* CHW - PH IS SLIGHTLY HIGH. CHEMICAL INHIBITORS LOW. ADDED 2.5 gal OF CWT-20 TO POT FEEDER.

Customer's Signature & Date: \_\_\_\_\_ KCC Service Rep's Signature & Date: \_\_\_\_\_



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## WATER-ANALYSIS & SERVICE REPORT

### FEED & BLEED EQUIPMENT INSPECTION REPORT

UP= working DN= out of service  
UR = under repair

Customer: **MANATEE COUNTY - CENTRAL ENERGY PLANT**  
 Location: **323 9<sup>TH</sup> ST W**  
**BRADENTON, FL 34205**  
 Contracto: **CONTACT: DOUG 941 737-3156**

Attention: \_\_\_\_\_ Date: 6/21/23

SAMPLE SOURCE: UNIT NAME & NUMBER RECOMMENDED LIMITS

Reported in PPM	CT	CHW	-	-	TOWER		CHILL/DELUX	
					FROM	TO	FROM	TO
Phenolphthalein P	40				-	-		
Total Alkalinity M	100				<	400		
Chloride NaCl	200				<	300		
Total Hardness TH	460				<	500		
Hydrogen PH	8.5	10.3			-	-	8.3	10.1
Conductivity MM	1405	1214			≈	1600	1000	400
Sequest/Polymer Seq.	4	-			6	12	-	-
Iron FE	0	0.5			<	1.0	<	1.0
Molybdenum Mo		-						
Nitrite NaNO <sub>2</sub>		0						
Sulfite SO <sub>3</sub>								
Phosphate PO <sub>4</sub>								
Bromine NaBr								
Copper Cu	0				<	.5		

Current Equipment	UP	DN	UR
Conductivity Controller			
Feed & Bleed Controller			
System Flow Switch			
Bleed Valve			
Water Meter			
Inhibitor Timer			
Algacide Timer			
Inhibitor Pump			
Algacide Pumps			

Treatment Chemicals In Use:  
CWT-153, WTT-107,  
CWT-20, CWR-5HS,  
RUSTON 1072

Treatment Chemicals Added And Or Delivered: 5gal 153, 5gal  
102, 2.5gal CWT-20

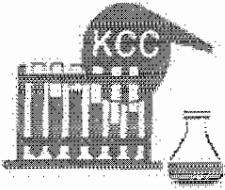
Water Meter Reading:  
 \_\_\_\_\_

Make-up Water Analysis	P	M	NaCl	TH	FE	MM	COCs - NaCl	COCs - TH	COCs - MM
	0	80	120	260	0	895			

\* CT - CHEMICAL INHIBITOR SLIGHTLY LOW. MADE ADJUSTMENTS TO CHEMICAL PUMPS. ALL CHEMICAL PUMPS PREPARED AND READY.

\* CHW - CHEMICAL INHIBITOR LOW. ADDED 2.5gal OF CWT-20. ALL OTHER NUMBERS WITHIN RECOMMENDED LEVELS.

Customer's Signature & Date: [Signature]  
 KCC Service Rep's Signature & Date: [Signature]



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## WATER-ANALYSIS & SERVICE REPORT

Customer: MANATEE COUNTY - CENTRAL ENERGY PLANT  
 Location: 323 9TH ST W BRADENTON, FL 34205  
 Contractor: CONTACT: DOUG 941 737-3156

Attention: \_\_\_\_\_ Date: 5/16/23

SAMPLE SOURCE: UNIT NAME & NUMBER RECOMMENDED LIMITS

Reported in PPM	CT	CHW	-	-	TAP WATER		CHILLED WATER	
					FROM	TO	FROM	TO
Phenolphthalein P	40							
Total Alkalinity M	140				< 400			
Chloride NaCl	200				< 300			
Total Hardness TH	460				< 500			
Hydrogen PH	8.7	10.3					8.3	10.1
Conductivity MM	1402	1234			5	1600	1000	4500
Sequest/Polymer Seq.	4				6	12		
Iron FE	0	0.5			< 1.0		< 1.0	
Molybdenum Mo								
Nitrite NaNO <sub>2</sub>		600					6000	1500
Sulfite SO <sub>3</sub>								
Phosphate PO <sub>4</sub>								
Bromine NaBr								
Copper Cu	0				< 15			

### FEED & BLEED EQUIPMENT INSPECTION REPORT

UP= working DN= out of service  
UR = under repair

Current Equipment	UP	DN	UR
Conductivity Controller			
Feed & Bleed Controller			
System Flow Switch			
Bleed Valve			
Water Meter			
Inhibitor Timer			
Algacide Timer			
Inhibitor Pump			
Algacide Pumps			

#### Treatment Chemicals In Use:

WT-153 WIT-102 CHS-505  
17.000 1099

#### Treatment Chemicals Added And Or

Delivered: 5 and 153  
2.5 gal 102

#### Water Meter Reading:

Make-up Water Analysis	P	M	NaCl	TH	FE	MM	COCs - NaCl	COCs - TH	COCs - MM
	0	120	80	200	0	887			

# CT - CHEMICAL Inhibitor (LIGATEL 100), MADE ADJUSTMENTS TO CHEMICAL Pump. ALL CHEMICAL pumps (PUMP AND PUMP).

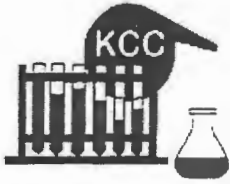
# CHW - ALL TESTS WITHIN RECOMMENDED LEVELS

*[Signature]*  
6/1/23

Customer's Signature & Date: \_\_\_\_\_

KCC Service Rep's Signature & Date: *[Signature]*





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## WATER-ANALYSIS & SERVICE REPORT

### FEED & BLEED EQUIPMENT INSPECTION REPORT

UP= working DN= out of service  
UR = under repair

Customer: MANATEE COUNTY - CENTRAL ENERGY PLANT  
323 9<sup>TH</sup> ST W

Location: BRADENTON, FL 34205  
CONTACT: DOUG 941 737-3156

Contractor: \_\_\_\_\_

Attention: \_\_\_\_\_ Date: 4/18/23

SAMPLE SOURCE: UNIT NAME & NUMBER RECOMMENDED LIMITS

Reported in PPM	CT	CHW	-	-	Tower		Loop	
					FROM	TO	FROM	TO
Phenolphthalein P	20							
Total Alkalinity M	100				<	400		
Chloride NaCl	160				<	300		
Total Hardness TH	320				<	500		
Hydrogen PH	9.1	10.1					8.3	10.1
Conductivity MM	1104	1247			≈	1600	1800	4000
Sequest/Polymer Seq.	3				6	12		
Iron FE	0	0			<	1.0	<	1.0
Molybdenum Mo								
Nitrite NaNO <sub>2</sub>							600	1000
Sulfite SO <sub>3</sub>								
Phosphate PO <sub>4</sub>								
Bromine NaBr								
Copper Cu	0				<	.5		

Current Equipment	UP	DN	UR
Conductivity Controller			
Feed & Bleed Controller			
System Flow Switch			
Bleed Valve			
Water Meter			
Inhibitor Timer			
Algaecide Timer			
Inhibitor Pump			
Algaecide Pumps			

Treatment Chemicals In Use:  
LWT-153, CWB-SHS,  
Insan 1078, CWT-70

Treatment Chemicals Added And Or Delivered: 5 gal 153,  
5 gal 1078, 5 gal CWT-70

Water Meter Reading:  
\_\_\_\_\_

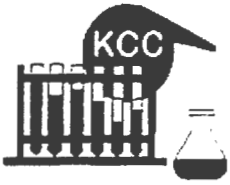
Make-up Water Analysis	P	M	NaCl	TH	FE	MM	COCs - NaCl	COCs - TH	COCs - MM
	0	100	120	240	0	886			

\* CT - CHEMICAL INHIBITOR LOW. MADE ADJUSTMENTS TO CHEMICAL pump. ALL CHEMICAL pumps primed and ready.

\* CHW - CHEMICAL INHIBITOR LOW. Added 5 gal of CWT-70.

Customer's Signature & Date: Alex MORALES

KCC Service Rep's Signature & Date: \_\_\_\_\_



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## WATER-ANALYSIS & SERVICE REPORT

### FEED & BLEED EQUIPMENT INSPECTION REPORT

UP= working DN= out of service  
UR = under repair

Customer: MANATEE COUNTY - CENTRAL ENERGY PLANT  
323 9TH ST W  
 Location: BRADENTON, FL 34205  
CONTACT: DOUG 941 737-3156  
 Contractor: \_\_\_\_\_  
 Attention: \_\_\_\_\_ Date: 3/14/23

Current Equipment	UP	DN	UR
Conductivity Controller			
Feed & Bleed Controller			
System Flow Switch			
Bleed Valve			
Water Meter			
Inhibitor Timer			
Algaecide Timer			
Inhibitor Pump			
Algaecide Pumps			

SAMPLE SOURCE: UNIT NAME & NUMBER RECOMMENDED LIMITS

Reported in PPM	CT	CHW	-	-	Tower		Loop	
					FROM	TO	FROM	TO
Phenolphthalein P	100				-	-	1	1
Total Alkalinity M	220				<	400		
Chloride NaCl	2100				<	300		
Total Hardness TH	460				<	500		
Hydrogen PH	9.3	10.2			-	-	8.3	10.1
Conductivity MM	1521	1221			>	1600	1000	4000
Sequest/Polymer Seq.	5	-			6	12	-	-
Iron FE	8	8			<	1.0	<	1.0
Molybdenum Mo					-	-	-	-
Nitrite NaNO <sub>2</sub>		300					600	1000
Sulfite SO <sub>3</sub>								
Phosphate PO <sub>4</sub>								
Bromine NaBr								
Copper Cu	8				<	1.5		

#### Treatment Chemicals In Use:

CWT-153, CWR-515  
Ruson 1078, CWT-20

#### Treatment Chemicals Added And Or

Delivered: 5gal 153, 2.5gal  
CWT-20

#### Water Meter Reading:

\_\_\_\_\_

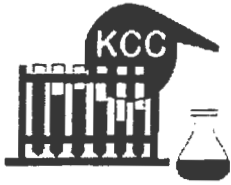
Make-up Water Analysis	P	M	NaCl	TH	FE	MM	COCs - NaCl	COCs - TH	COCs - MM
		8	80	120	240	8	790		

\* CT - CHEMICAL INHIBITOR SLIGHTLY LOW. MADE ADJUSTMENTS TO CHEMICAL PUMPS. ALL CHEMICAL PUMPS PRIMED AND READY.

\* CHW - CHEMICAL INHIBITOR LOW. ADDED 2.5gal OF CWT-20.

Customer's Signature & Date: [Signature]

KCC Service Rep's Signature & Date: [Signature]



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## WATER-ANALYSIS & SERVICE REPORT

Customer: MANATEE COUNTY - CENTRAL ENERGY PLANT  
 323 9<sup>TH</sup> ST W

Location: BRADENTON, FL 34205  
 CONTACT: DOUG 941 737-3156

Contractor: \_\_\_\_\_

Attention: \_\_\_\_\_ Date: 2/8/23

SAMPLE SOURCE: UNIT NAME & NUMBER      RECOMMENDED LIMITS

Reported in PPM	CT	CHW	Tower		Loop	
			FROM	TO	FROM	TO
Phenolphthalein P	20	}				
Total Alkalinity M	140	}	2	400		
Chloride NaCl	200	}	2	300		
Total Hardness TH	460	}	2	500		
Hydrogen PH	9.0	10.1	-	-	8.3	10.1
Conductivity MM	1508	1251	2	1600	1100	4000
Sequest/Polymer Seq.	4	-	6	12	-	-
Iron FE	0.3	TR	2	1.0	2	1.0
Molybdenum Mo		-	-	-	-	-
Nitrite NaNO <sub>2</sub>	}	0	}	}	650	1000
Sulfite SO <sub>3</sub>	}	}	}	}	}	}
Phosphate PO <sub>4</sub>	}	}	}	}	}	}
Bromine NaBr	}	}	}	}	}	}
Copper Cu	0	}	2	1.5	}	}

## FEED & BLEED EQUIPMENT INSPECTION REPORT

UP= working    DN= out of service  
 UR = under repair

Current Equipment	UP	DN	UR
Conductivity Controller			
Feed & Bleed Controller			
System Flow Switch			
Bleed Valve			
Water Meter			
Inhibitor Timer			
Algaecide Timer			
Inhibitor Pump			
Algaecide Pumps			

### Treatment Chemicals In Use:

LT-153, LWB-515,  
 Busan 1078, LWT-20

### Treatment Chemicals Added And Or Delivered:

N/A

### Water Meter Reading:

Make-up Water Analysis	P	M	NaCl	TH	FE	MM	COCs - NaCl	COCs - TH	COCs - MM
	0	80	100	220	0	760			

*A CT-CHEMICAL Inhibitor Low. Made adjustments to chemical pump.  
 All chemical pumps primed and ready.*

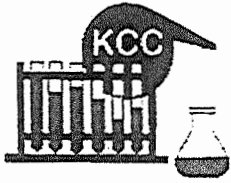
*A CHW-CHEMICAL Inhibitor Low. Will return to add LWT-20  
 to pot feeder to bring inhibitor level.*

Customer's Signature & Date:

*[Signature]*  
 8465

KCC Service Rep's Signature & Date:

*[Signature]*



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## WATER-ANALYSIS & SERVICE REPORT

### FEED & BLEED EQUIPMENT INSPECTION REPORT

UP= working DN= out of service  
UR = under repair

Customer: MANATEE COUNTY - CENTRAL ENERGY PLANT  
323 9<sup>TH</sup> ST W  
 Location: BRADENTON, FL 34205  
 Contractor: CONTACT: DOUG 941 737-3156  
 Attention: \_\_\_\_\_ Date: 1/19/23

Current Equipment	UP	DN	UR
Conductivity Controller			
Feed & Bleed Controller			
System Flow Switch			
Bleed Valve			
Water Meter			
Inhibitor Timer			
Algaecide Timer			
Inhibitor Pump			
Algaecide Pumps			

SAMPLE SOURCE: UNIT NAME & NUMBER \_\_\_\_\_ RECOMMENDED LIMITS \_\_\_\_\_

Reported in PPM	CT	CHW	Lower		Loop	
			FROM	TO	FROM	TO
Phenolphthalein P	20					
Total Alkalinity M	160		<	400		
Chloride NaCl	200		<	300		
Total Hardness TH	420		<	500		
Hydrogen PH	8.9	10.4	-	-	8.3	10.1
Conductivity MM	1442	1290	~	1600	1600	4000
Sequest/Polymer Seq.	4		6	12	-	-
Iron FE	0	0	<	1.0	<	1.0
Molybdenum Mo					-	✓
Nitrite NaNO <sub>2</sub>	200	300			600	1000
Sulfite SO <sub>3</sub>						
Phosphate PO <sub>4</sub>						
Bromine NaBr						
Copper Cu	0		<	5		

Treatment Chemicals In Use:  
CWT 153

Treatment Chemicals Added And Or Delivered:  
5 gal 153  
2.5 gal 107

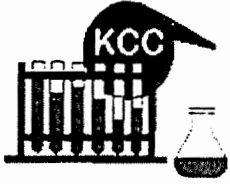
Water Meter Reading:  
\_\_\_\_\_

Make-up Water Analysis	P	M	NaCl	TH	FE	MM	COCs - NaCl	COCs - TH	COCs - MM
	0	80	160	180	0	728			

CT - Chemical inhibitor slightly low, made small adjustment to chemical pump, chemical pump's primed and ready

CHW - Chemical inhibitor low, possible loss of water unable to add treatment at this time recommend adding dye to loop to trace possible leaks.

Customer's Signature & Date: [Signature] KCC Service Rep's Signature & Date: [Signature]



# Kibler Chemical Corporation, Inc.

1610 Orange Avenue, St. Cloud, FL 34769

407-957-2225 fax: 407-957-0643

www.kiblerchemical.com

## WATER-ANALYSIS & SERVICE REPORT

### FEED & BLEED EQUIPMENT INSPECTION REPORT

UP= working DN= out of service  
UR = under repair

Customer: **MANATEE COUNTY - CENTRAL ENERGY PLANT**  
 323 9TH ST W  
 Location: **BRADENTON, FL 34205**  
 Contractor: **CONTACT: DOUG 941 737-3156**  
 Attention: \_\_\_\_\_ Date: 12/14/22

SAMPLE SOURCE: UNIT NAME & NUMBER RECOMMENDED LIMITS

Reported in PPM	CT	CHW	Tower		100P	
			FROM	TO	FROM	TO
Phenolphthalein P	20					
Total Alkalinity M	180		<	400		
Chloride NaCl	220		<	300		
Total Hardness TH	440		<	500		
Hydrogen PH	9.9	9.6	-	-	9.5	10.1
Conductivity MM	1550	1252	~	1600	1000	800
Sequest/Polymer Seq.	4		6	12		
Iron FE	0	0	<	1.0	<	1.0
Molybdenum Mo						
Nitrite NaNO <sub>2</sub>		400			600	1000
Sulfite SO <sub>3</sub>						
Phosphate PO <sub>4</sub>						
Bromine NaBr						
Copper Cu	0		<	.5		

Current Equipment	UP	DN	UR
Conductivity Controller			
Feed & Bleed Controller			
System Flow Switch			
Bleed Valve			
Water Meter			
Inhibitor Timer			
Algacide Timer			
Inhibitor Pump			
Algacide Pumps			

#### Treatment Chemicals In Use:

Cl<sub>2</sub> 153 In use 1078  
 Club SFS Cl<sub>2</sub> 20

#### Treatment Chemicals Added And Or

Delivered: 10 gal 153  
 2.5, 108 2.5 Cl<sub>2</sub> 20

#### Water Meter Reading:

\_\_\_\_\_

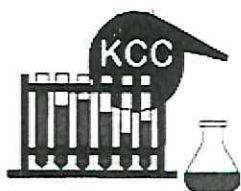
Make-up Water Analysis	P	M	NaCl	TH	FE	MM	COCs - NaCl	COCs - TH	COCs - MM
	0	80	120	180	0	691			

CT - Chemical inhibitor low, made slight adjustment to  
 Chemical pump. Chemical pumps primed and Ready

Other - Chemical inhibitor low, Added 2.5gal of Cl<sub>2</sub> to boost  
 nitrite levels in 100ps

Customer's Signature & Date: \_\_\_\_\_

KCC Service Rep's Signature & Date: \_\_\_\_\_



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## WATER-ANALYSIS & SERVICE REPORT

Customer: MANATEE COUNTY - CENTRAL ENERGY PLANT  
323 9<sup>TH</sup> ST W  
 Location: BRADENTON, FL 34205  
 Contractor: CONTACT: ROBERT 941 737-0322  
 Attention: \_\_\_\_\_ Date: 11/17/22

SAMPLE SOURCE: UNIT NAME & NUMBER      RECOMMENDED LIMITS

Reported in PPM	CT	CHU	Tower		loop	
			FROM	TO	FROM	TO
Phenolphthalein P	20					
Total Alkalinity M	180		<	400		
Chloride NaCl	200		<	300		
Total Hardness TH	400		<	450		
Hydrogen PH	9.8	11.1	-	-	8.7	10.1
Conductivity MM	1433	1281	≈	1600	1000	4000
Sequest/Polymer Seq.	4		6	12		
Iron FE	✓	✓	<	1.0	<	1.0
Molybdenum Mo						
Nitrite NaNO <sub>2</sub>		400			600	1000
Sulfite SO <sub>3</sub>						
Phosphate PO <sub>4</sub>						
Bromine NaBr						
Copper Cu	✓		<	.5		

### FEED & BLEED EQUIPMENT INSPECTION REPORT

UP= working    DN= out of service  
 UR = under repair

Current Equipment	UP	DN	UR
Conductivity Controller			
Feed & Bleed Controller			
System Flow Switch			
Bleed Valve			
Water Meter			
Inhibitor Timer			
Algaecide Timer			
Inhibitor Pump			
Algaecide Pumps			

#### Treatment Chemicals In Use:

CT 153    WTT 102  
 Carb-SHS    busen 1078  
 CT 70

#### Treatment Chemicals Added And Or

Delivered: 5g 153  
2.5g 102    2.5 CT20

#### Water Meter Reading:

\_\_\_\_\_

\_\_\_\_\_

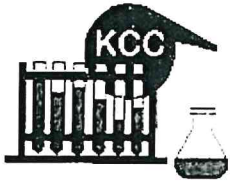
Make-up Water Analysis	P	M	NaCl	TH	FE	MM	COCs - NaCl	COCs - TH	COCs - MM
	✓	600	100	180	✓	651			

CT - Chemical inhibitor slightly low, made small adjustment to chemical pump. Chemical pumps primed and ready.

CHU - Chemical inhibitor slightly low, Added 2.5 gal of CT20 to boost nitrite level.

Customer's Signature & Date: \_\_\_\_\_

KCC Service Rep's Signature & Date: \_\_\_\_\_



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## WATER-ANALYSIS & SERVICE REPORT

### FEED & BLEED EQUIPMENT INSPECTION REPORT

UP= working DN= out of service  
UR = under repair

Customer: MANATEE COUNTY - CENTRAL ENERGY PLANT  
 Location: 323 9TH ST W BRADENTON, FL 34205  
 Contractor: DASH (941) 737-3156  
 Attention: \_\_\_\_\_ Date: 10/28/22

SAMPLE SOURCE: UNIT NAME & NUMBER RECOMMENDED LIMITS

Current Equipment	UP	DN	UR
Conductivity Controller			
Feed & Bleed Controller			
System Flow Switch			
Bleed Valve			
Water Meter			
Inhibitor Timer			
Algacide Timer			
Inhibitor Pump			
Algacide Pumps			

Reported in PPM	CT	CHW	SPW		1000	
			FROM	TO	FROM	TO
Phenolphthalein P	20					
Total Alkalinity M	160		<	400		
Chloride NaCl	200		<	300		
Total Hardness TH	380		<	450		
Hydrogen PH	8.7	9.9			8.3	10.1
Conductivity MM	1429	1282	>	1600	1000	4000
Sequest/Polymer Seq.	4		6	12		
Iron FE	Ø	Ø	<	1.0	<	1.0
Molybdenum Mo						
Nitrite NaNO <sub>2</sub>		300			600	1000
Sulfite SO <sub>3</sub>						
Phosphate PO <sub>4</sub>						
Bromine NaBr						
Copper Cu	Ø		<	.5		

#### Treatment Chemicals In Use:

CWT 153 WTT 102  
 CWB-SHS buson 1078  
 CWT 20

#### Treatment Chemicals Added And Or

Delivered: 12.5g 153  
 2.5 CWT 20

#### Water Meter Reading:

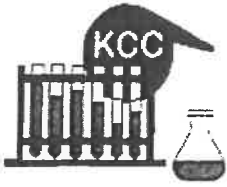
Make-up Water Analysis	P	M	NaCl	TH	FE	MM	COCs - NaCl	COCs - TH	COCs - MM
	Ø	100	120	260	Ø	875			

CT-Chemical inhibitor slightly low, made slight adjustment to chemical pump. Chemical pump primed and ready.

CHW - chemical inhibitor low, added 2.5g of CWT 20 to boost nitrite levels.

Customer's Signature & Date: [Signature] 10/28/22

KCC Service Rep's Signature & Date: [Signature] 10/28/22



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## WATER-ANALYSIS & SERVICE REPORT

### FEED & BLEED EQUIPMENT INSPECTION REPORT

UP= working DN= out of service  
UR = under repair

Customer: MANATEE COUNTY - CENTRAL ENERGY PLANT  
 Location: 323 9TH ST W  
BRADENTON, FL 34205  
 Contractor: CONTACT: ROBERT 941 737-0322  
 Attention: \_\_\_\_\_ Date: 9/21/22

SAMPLE SOURCE: UNIT NAME & NUMBER RECOMMENDED LIMITS

Reported in PPM	CT	CHW	TWT		100P	
			FROM	TO	FROM	TO
Phenolphthalein P	20	✓				
Total Alkalinity M	160		<	400		
Chloride NaCl	220		<	300		
Total Hardness TH	400		<	450		
Hydrogen PH	8.3	10.4			8-3	10.1
Conductivity MM	1477	1286	≈	1600	1000	4000
Sequest/Polymer Seq.	6		6	12		
Iron FE	8	8	<	1.0	<	1.0
Molybdenum Mo						
Nitrite NaNO <sub>2</sub>		2400			600	1000
Sulfite SO <sub>3</sub>						
Phosphate PO <sub>4</sub>						
Bromine NaBr						
Copper Cu	8		<	.5		

Current Equipment	UP	DN	UR
Conductivity Controller			
Feed & Bleed Controller			
System Flow Switch			
Bleed Valve			
Water Meter			
Inhibitor Timer			
Algaecide Timer			
Inhibitor Pump			
Algaecide Pumps			

Treatment Chemicals In Use:  
 CWT 153 Busen 1078  
 CWB-5HS WTT 102  
 CWT 20

Treatment Chemicals Added And Or Delivered: 2.5 gal CWT 20

Water Meter Reading: \_\_\_\_\_

Make-up Water Analysis	P	M	NaCl	TH	FE	MM	COCs - NaCl	COCs - TH	COCs - MM
	8	100	170	260	8	895			

CT - All tests results within limits. Chemical pumps primed and ready. No further action needed at this time.

CHW - Chemical inhibitor slightly low, Added 2.5 gal CWT 20 to boost Nitrite levels.

Customer's Signature & Date: Don Hamed KCC Service Rep's Signature & Date: [Signature]





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## WATER-ANALYSIS & SERVICE REPORT

### FEED & BLEED EQUIPMENT INSPECTION REPORT

UP= working DN= out of service  
UR = under repair

**Customer:** MANATEE COUNTY – CENTRAL ENERGY PLANT  
323 9<sup>TH</sup> ST W  
**Location:** BRADENTON, FL 34205  
CONTACT: ROBERT 941 737-0322  
**Contractor:** \_\_\_\_\_  
**Attention:** Robert **Date:** 8-18-22

Current Equipment	UP	DN	UR
Conductivity Controller			
Feed & Bleed Controller			
System Flow Switch			
Bleed Valve			
Water Meter			
Inhibitor Timer			
Algaecide Timer			
Inhibitor Pump			
Algaecide Pumps			

### SAMPLE SOURCE: UNIT NAME & NUMBER RECOMMENDED LIMITS

Reported in PPM	C/S	Chill Loop	Tower		Loop/Chill	
			FROM	TO	FROM	TO
Phenolphthalein P	40	✓				
Total Alkalinity M	200		<	400		
Chloride NaCl	300		<	500		
Total Hardness TH	2500		<	400		
Hydrogen PH	8.79	10.1			8.3	10.1
Conductivity MM	1920	800	<	2000	<	4000
Sequest/Polymer Seq.	28	—	4	10	—	—
Iron FE	⊖	⊖	<	0.2	<	0.1
Molybdenum Mo		—				
Nitrite NaNO <sub>2</sub>		150	1000	1000	1000	4000
Sulfite SO <sub>3</sub>						
Phosphate PO <sub>4</sub>						
Bromine NaBr						
Copper Cu	⊖	⊖	<	0.3	<	0.3

**Treatment Chemicals In Use:**  
153/102/100

**Treatment Chemicals Added And Or Delivered:**  
153  
556-102

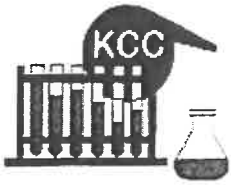
**Water Meter Reading:**  
\_\_\_\_\_

Make-up Water Analysis	P	M	NaCl	TH	FE	MM	COCs - NaCl	COCs - TH	COCs - MM
	⊖	44	40	200	⊖	709			

Tower: Chemicals look good at this time, make small adjust - ment to Seq to lower slightly

Chilled loop. Still holding a good chemical charge at this time.

Customer's Signature & Date: *Tom Gunk*  
KCC Service Rep's Signature & Date: \_\_\_\_\_



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## WATER-ANALYSIS & SERVICE REPORT

### FEED & BLEED EQUIPMENT INSPECTION REPORT

UP= working DN= out of service  
UR = under repair

Customer: **MANATEE COUNTY - CENTRAL ENERGY PLANT**  
 Location: **323 9TH ST W**  
**BRADENTON, FL 34205**  
 CONTACT: ROBERT 941 737-0322

Attention: \_\_\_\_\_ Date: **1-29-22**

SAMPLE SOURCE: UNIT NAME & NUMBER RECOMMENDED LIMITS

Reported in PPM	CT	CL	Tower		Loop/Chilled	
			FROM	TO	FROM	TO
Phenolphthalein P	28	✓				✓
Total Alkalinity M	120	✓	<	400	<≈	600
Chloride NaCl	280	✓	<	500	~	~
Total Hardness TH	540	✓	≈	500	~	~
Hydrogen PH	9.1	10.1	~	~	8.3	10.1
Conductivity MM	1983	1404	≈	1800	<	4000
Sequest/Polymer Seq.	5.6	~	6	10	.	.
Iron FE	12	12	<	1.0	<	1.0
Molybdenum Mo	✓	✓				
Nitrite NaNO <sub>2</sub>	<del>500</del>	450			600	600
Sulfite SO <sub>3</sub>	✓	✓				
Phosphate PO <sub>4</sub>	✓	✓				
Bromine NaBr	✓	✓				
Copper Cu	0	0	<	0.3	<	0.3

Current Equipment	UP	DN	UR
Conductivity Controller	✓		
Feed & Bleed Controller	✓		
System Flow Switch	✓		
Bleed Valve	✓		
Water Meter			
Inhibitor Timer			
Algaecide Timer			
Inhibitor Pump			
Algaecide Pumps			

Treatment Chemicals In Use:  
 153 | 20 | 100 | 1078  
 SIS

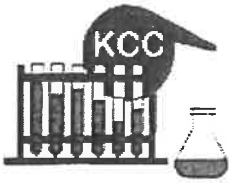
Treatment Chemicals Added And Or Delivered:  
 1.5-SIS-153  
 1.5-CWT-20

Water Meter Reading:  
 \_\_\_\_\_  
 \_\_\_\_\_

Make-up Water Analysis	P	M	NaCl	TH	FE	MM	COCs - NaCl	COCs - TH	COCs - MM
	0	60	96	1100	0	1071			

Tower: Testing looks good at this time, made small adjustments as need to controller  
 Added chemical 12/5 to chemical feed tanks  
 Added 2 1/2 SIS of cut-20 to chilled loop  
 Chilled loop: Added chemical to loop note: need to bring cut-100 to 2 1/2 containers

Customer's Signature & Date: *Tom Funk*  
 KCC Service Rep's Signature & Date: *[Signature]*



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## WATER-ANALYSIS & SERVICE REPORT

### FEED & BLEED EQUIPMENT INSPECTION REPORT

UP= working DN= out of service  
UR = under repair

**Customer:** MANATEE COUNTY - CENTRAL ENERGY PLANT  
323 9<sup>TH</sup> ST W  
**Location:** BRADENTON, FL 34205  
CONTACT: ROBERT 941 737-0322  
**Contractor:** \_\_\_\_\_

**Attention:** \_\_\_\_\_ **Date:** 6-15-22

**SAMPLE SOURCE: UNIT NAME & NUMBER** **RECOMMENDED LIMITS**

Reported in PPM	CT	CL	Tower		Loop	
			FROM	TO	FROM	TO
Phenolphthalein P	20					
Total Alkalinity M	180		2400			
Chloride NaCl	280		2500			
Total Hardness TH	850		21000			
Hydrogen PH	8.79/10.01		8.3	10.1	8.3	10.1
Conductivity MM	1754/1297		1900		24000	
Sequest/Polymer Seq.			6	10		
Iron FE	Ø	Ø	21.0		21.0	
Molybdenum Mo						
Nitrite NaNO <sub>2</sub>		600			600	1000
Sulfite SO <sub>3</sub>						
Phosphate PO <sub>4</sub>	5					
Bromine NaBr						
Copper Cu	Ø		2	.3	2	.3

Current Equipment	UP	DN	UR
Conductivity Controller			
Feed & Bleed Controller			
System Flow Switch			
Bleed Valve			
Water Meter			
Inhibitor Timer			
Algacide Timer			
Inhibitor Pump			
Algacide Pumps			

**Treatment Chemicals In Use:**  
153 CWBSHS  
1078

**Treatment Chemicals Added And Or Delivered:**  
Ø 153  
Ø CWBSHS  
Ø 1078

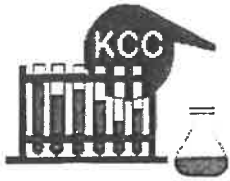
**Water Meter Reading:**  
\_\_\_\_\_  
\_\_\_\_\_

Make-up Water Analysis	P	M	NaCl	TH	FE	MM	COCs - NaCl	COCs - TH	COCs - MM
	Ø	80	150	540		871			

Tower Readings tested with in Recommended limits  
NO adjustments needed at time of service

Chill Loop nitrite levels still good, but Loop is slowly losing water.

**Customer's Signature & Date:** *Tom G...* **KCC Service Rep's Signature & Date:** *Roger Dolan* 6-15-22



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## WATER-ANALYSIS & SERVICE REPORT

**Customer:** MANATEE COUNTY - CENTRAL ENERGY PLANT  
323 9<sup>TH</sup> ST W  
BRADENTON, FL 34205  
**Location:** CONTACT: ROBERT 941 737-0322  
**Contractor:** \_\_\_\_\_  
**Attention:** \_\_\_\_\_ **Date:** 5-26-22  
**SAMPLE SOURCE: UNIT NAME & NUMBER**      **RECOMMENDED LIMITS**

Reported in PPM	CT	CL	Tower		LOOP	
			FROM	TO	FROM	TO
Phenolphthalein P	36					
Total Alkalinity M	200		< 400			
Chloride NaCl	250		< 500			
Total Hardness TH	650		< 800			
Hydrogen PH	9.11	10.01	8.3	10.1	8.3	10.1
Conductivity MM	1789	1318	< 900		< 4000	
Sequest/Polymer Seq.	6.3		6	10		
Iron FE	0	.3	< 1.0		< 1.0	
Molybdenum Mo						
Nitrite NaNO <sub>2</sub>		600			600	1000
Sulfite SO <sub>3</sub>						
Phosphate PO <sub>4</sub>						
Bromine NaBr						
Copper Cu	0	0	< .3		< .3	

### FEED & BLEED EQUIPMENT INSPECTION REPORT

UP= working    DN= out of service  
 UR = under repair

Current Equipment	UP	DN	UR
Conductivity Controller			
Feed & Bleed Controller			
System Flow Switch			
Bleed Valve			
Water Meter			
Inhibitor Timer			
Algacide Timer			
Inhibitor Pump			
Algacide Pumps			

#### Treatment Chemicals In Use:

153 CARBSHS

#### Treatment Chemicals Added And Or

Delivered: 5-153

0 - CARBSHS

#### Water Meter Reading:

Make-up Water Analysis	P	M	NaCl	TH	FE	MM	COCs - NaCl	COCs - TH	COCs - MM
	0	100	112	280		872			

Tower Readings tested with in Recommended limits  
softened chemicals

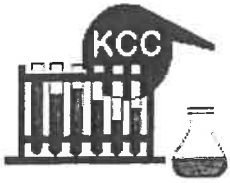
Chill loop is losing water.

Customer's Signature & Date:

Tom Smith

KCC Service Rep's Signature & Date:

5-26-22



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## WATER-ANALYSIS & SERVICE REPORT

### FEED & BLEED EQUIPMENT INSPECTION REPORT

UP= working DN= out of service  
UR = under repair

Customer: **MANATEE COUNTY - CENTRAL ENERGY PLANT**

Location: **323 9TH ST W  
BRADENTON, FL 34205**

Contractor: **CONTACT: ROBERT 941 737-0322**

Attention: \_\_\_\_\_ Date: **4-15-22**

SAMPLE SOURCE: UNIT NAME & NUMBER RECOMMENDED LIMITS

Reported in PPM	CT	CL	TOWER		LOOP	
			FROM	TO	FROM	TO
Phenolphthalein P	32					
Total Alkalinity M	220		< 400			
Chloride NaCl	250		< 500			
Total Hardness TH	600		< 700			
Hydrogen PH	9.41	10.01	8.3	10.1	8.3	10.1
Conductivity MM	1721	1354	1900		< 4000	
Sequest/Polymer Seq.	6.3		4 10			
Iron FE	.7	Ø	< 1.0		< 1.0	
Molybdenum Mo						
Nitrite NaNO <sub>2</sub>		600			600	1000
Sulfite SO <sub>3</sub>						
Phosphate PO <sub>4</sub>						
Bromine NaBr						
Copper Cu	Ø	Ø	< 3		< 3	

Current Equipment	UP	DN	UR
Conductivity Controller			
Feed & Bleed Controller			
System Flow Switch			
Bleed Valve			
Water Meter			
Inhibitor Timer			
Algaecide Timer			
Inhibitor Pump			
Algaecide Pumps			

Treatment Chemicals In Use:  
153, 1075  
1735

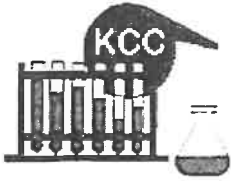
Treatment Chemicals Added And Or Delivered: 10-153  
Ø-1075  
Ø-1735

Water Meter Reading:  
\_\_\_\_\_  
\_\_\_\_\_

Make-up Water Analysis	P	M	NaCl	TH	FE	MM	COCs - NaCl	COCs - TH	COCs - MM
	Ø	104	112	254		860			

Power Readings with in Recommended Limits  
 Replenished Chemicals  
 Chill Loop is losing water.

Customer's Signature & Date: *Tommy Smith* KCC Service Rep's Signature & Date: *4-15-22*



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## WATER-ANALYSIS & SERVICE REPORT

### FEED & BLEED EQUIPMENT INSPECTION REPORT

UP= working DN= out of service  
UR = under repair

Customer: MANATEE COUNTY - CENTRAL ENERGY PLANT  
323 9TH ST W  
 Location: BRADENTON, FL 34205  
CONTACT: ROBERT 941 737-0322  
 Contractor: \_\_\_\_\_

Attention: \_\_\_\_\_ Date: 3-17-22

SAMPLE SOURCE: UNIT NAME & NUMBER RECOMMENDED LIMITS

Reported in PPM	UNIT	LIMIT	Tower		Loop	
			FROM	TO	FROM	TO
Phenolphthalein P	CT					
Total Alkalinity M	CT		<	400		
Chloride NaCl	CT		<	400		
Total Hardness TH	CT		<	800		
Hydrogen PH	CT	10.0	<	10.0	8.3	10.1
Conductivity MM	CT		<	1900	<	24000
Sequest/Polymer Seq.	CT		<	10		
Iron FE	CT	1.0	<	1.0	<	1.0
Molybdenum Mo	CT					
Nitrite NaNO <sub>2</sub>	CT	600			600	1000
Sulfite SO <sub>3</sub>	CT					
Phosphate PO <sub>4</sub>	CT					
Bromine NaBr	CT					
Copper Cu	CT		<	13	<	13

Current Equipment	UP	DN	UR
Conductivity Controller			
Feed & Bleed Controller			
System Flow Switch			
Bleed Valve			
Water Meter			
Inhibitor Timer			
Algacide Timer			
Inhibitor Pump			
Algacide Pumps			

Treatment Chemicals In Use:  
153 1075  
CWBSHS

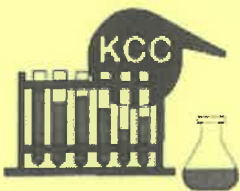
Treatment Chemicals Added And Or Delivered:  
10-153  
8-1075  
8-CWBSHS

Water Meter Reading:  
 \_\_\_\_\_  
 \_\_\_\_\_

Make-up Water Analysis	P	M	NaCl	TH	FE	MM	COCs - NaCl	COCs - TH	COCs - MM
	8	100	120	364		854			

Tower readings tested with in recommended limits  
 retested chemicals  
 Chill loop tested with in recommended limits  
 Loop still losing 400-500 gallons a month

Customer's Signature & Date: [Signature] KCC Service Rep's Signature & Date: [Signature] 3-17-22



# Kibler Chemical Corporation, Inc.

1610 Orange Avenue, St. Cloud, FL 34769

407-957-2225 fax: 407-957-0643

[www.kiblerchemical.com](http://www.kiblerchemical.com)

## WATER-ANALYSIS & SERVICE REPORT

### FEED & BLEED EQUIPMENT INSPECTION REPORT

UP= working DN= out of service  
UR = under repair

Customer: MANATEE COUNTY - CENTRAL ENERGY PLANT  
 Location: 323 9<sup>TH</sup> ST W  
BRADENTON, FL 34205  
 Contractor: CONTACT: ROBERT 941 737-0322  
 Attention: \_\_\_\_\_ Date: 2-10-22

Current Equipment	UP	DN	UR
Conductivity Controller			
Feed & Bleed Controller			
System Flow Switch			
Bleed Valve			
Water Meter			
Inhibitor Timer			
Algaecide Timer			
Inhibitor Pump			
Algaecide Pumps			

SAMPLE SOURCE: UNIT NAME & NUMBER      RECOMMENDED LIMITS

Reported in PPM	Tower		Loop	
	FROM	TO	FROM	TO
Phenolphthalein P	4			
Total Alkalinity M	120		< 400	
Chloride NaCl	124		< 500	
Total Hardness TH	140		< 900	
Hydrogen PH	8.85	10.01	8.3	10.1
Conductivity MM	1010	1421	< 1900	< 4000
Sequest/Polymer Seq.	4.8		6	10
Iron FE	.2	0	< 1.0	< 1.0
Molybdenum Mo				
Nitrite NaNO <sub>2</sub>		600		600 1000
Sulfite SO <sub>3</sub>				
Phosphate PO <sub>4</sub>				
Bromine NaBr				
Copper Cu	0	0	< .3	< 3

#### Treatment Chemicals In Use:

153 CWBS145  
1078

#### Treatment Chemicals Added And Or Delivered:

0-153  
0-CWBS145  
0-1078

#### Water Meter Reading:

67

Make-up Water Analysis	P	M	NaCl	TH	FE	MM	COCs - NaCl	COCs - TH	COCs - MM
	0	72	120	300		825			

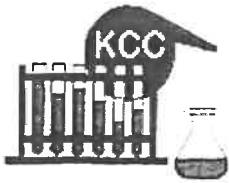
Tower Readings tested low due to tower overflowing this will correct its self when warmer temps arrive.

Chill Loop Has a leak somewhere.

*Roger Delaney*

Customer's Signature & Date: Tom Lunde

KCC Service Rep's Signature & Date: 2/16/22



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## WATER-ANALYSIS & SERVICE REPORT

### FEED & BLEED EQUIPMENT INSPECTION REPORT

UP= working DN= out of service  
UR = under repair

Customer: MANATEE COUNTY - CENTRAL ENERGY PLANT  
323 9<sup>TH</sup> ST W

Location: BRADENTON, FL 34205

Contractor: CONTACT: ROBERT 941 737-0322

Attention: \_\_\_\_\_ Date: 1-21-22

SAMPLE SOURCE: UNIT NAME & NUMBER RECOMMENDED LIMITS

Reported in PPM	CT CL		Tower		Loop	
			FROM	TO	FROM	TO
Phenolphthalein P	8					
Total Alkalinity M	140		2400			
Chloride NaCl	190		2600			
Total Hardness TH	450		2600			
Hydrogen PH	9.89	9.89	8.3	10.1	8.3	10.1
Conductivity MM	1196	1473	2790		2400	
Sequest/Polymer Seq.	6.3		6	10		
Iron FE	.2	.1	2	1.0	2	1.0
Molybdenum Mo						
Nitrite NaNO <sub>2</sub>		600			600	1000
Sulfite SO <sub>3</sub>						
Phosphate PO <sub>4</sub>						
Bromine NaBr						
Copper Cu	0	0	2	.3	2	.3

Current Equipment	UP	DN	UR
Conductivity Controller			
Feed & Bleed Controller			
System Flow Switch			
Bleed Valve			
Water Meter			
Inhibitor Timer			
Algacide Timer			
Inhibitor Pump			
Algacide Pumps			

Treatment Chemicals In Use:

153, 1078  
CWBSHS

Treatment Chemicals Added And Or

Delivered 0-153  
0-1078  
0-CWBSHS

Water Meter Reading:

\_\_\_\_\_

\_\_\_\_\_

Make-up Water Analysis	P	M	NaCl	TH	FE	MM	COCs - NaCl	COCs - TH	COCs - MM
	0	80	104	290		763			

Tower Readings tested with in Recommended Limits  
NO ADJUSTMENT need at time of service.

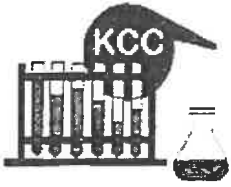
Ch: 11 Loop is still leaking. Loss 2400 since October  
is recommended add a black light dye to the loop

*Robert Delaney*

Customer's Signature & Date: *Tom Janku*

KCC Service Rep's Signature & Date: *1-21-22*





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## WATER-ANALYSIS & SERVICE REPORT

### FEED & BLEED EQUIPMENT INSPECTION REPORT

UP= working DN= out of service  
UR = under repair

Customer: MANATEE COUNTY - CENTRAL ENERGY PLANT  
 Location: 323 9<sup>TH</sup> ST W  
BRADENTON, FL 34205  
 Contractor: CONTACT: ROBERT 941 737-0322

Attention: \_\_\_\_\_ Date: 12-29-21

SAMPLE SOURCE: UNIT NAME & NUMBER \_\_\_\_\_ RECOMMENDED LIMITS \_\_\_\_\_

Reported in PPM	CT	CL	Tower		Loop	
			FROM	TO	FROM	TO
Phenolphthalein P	20					
Total Alkalinity M	172		< 400			
Chloride NaCl	200		< 500			
Total Hardness TH	460		< 900			
Hydrogen PH	8.75		8.3 10.1	8.3 10.1		
Conductivity MM	1428	1546	< 1800	< 4000		
Sequest/Polymer Seq.	6.3		6 10			
Iron FE	0	0	< 1.0	< 1.0		
Molybdenum Mo						
Nitrite NaNO <sub>2</sub>		700			600/1000	
Sulfite SO <sub>3</sub>						
Phosphate PO <sub>4</sub>						
Bromine NaBr						
Copper Cu	0	0	< .3	< .3		

Current Equipment	UP	DN	UR
Conductivity Controller			
Feed & Bleed Controller			
System Flow Switch			
Bleed Valve			
Water Meter			
Inhibitor Timer			
Algaecide Timer			
Inhibitor Pump			
Algaecide Pumps			

Treatment Chemicals In Use:  
153 1078  
carbites

Treatment Chemicals Added And Or Delivered:  
15-153  
0-1078  
0-carbites

Water Meter Reading:  
 \_\_\_\_\_  
 \_\_\_\_\_

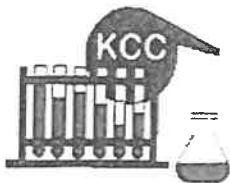
Make-up Water Analysis	P	M	NaCl	TH	FE	MM	COCs - NaCl	COCs - TH	COCs - MM
	0	64	100	220		650			

Tower readings tested within recommended limits  
potenished chemicals

Chill Loop is still losing water, nitrite levels are still good

Customer's Signature & Date: Tom Jank

KCC Service Rep's Signature & Date: Roger DeLong 12-29-21



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## WATER-ANALYSIS & SERVICE REPORT

### FEED & BLEED EQUIPMENT INSPECTION REPORT

UP= working DN= out of service  
UR = under repair

Customer: MANATEE COUNTY - CENTRAL ENERGY PLANT

Location: 323 9<sup>TH</sup> ST W  
BRADENTON, FL 34205

Contractor: CONTACT: ROBERT 941 737-0322

Attention: \_\_\_\_\_ Date: 11-18-21

SAMPLE SOURCE: UNIT NAME & NUMBER RECOMMENDED LIMITS

Reported in PPM	CT	CL	Tower		Loop	
			FROM	TO	FROM	TO
Phenolphthalein P	160					
Total Alkalinity M	220		< 400			
Chloride NaCl	240		< 500			
Total Hardness TH	600		< 800			
Hydrogen PH	8.63	10.00	8.3	10.1	8.3	10.1
Conductivity MM	1663	1621	< 1900		< 4000	
Sequest/Polymer Seq.	2.0		6	10		
Iron FE	.4	Ø	< 1.0		< 1.0	
Molybdenum Mo						
Nitrite NaNO <sub>2</sub>		800			600	1000
Sulfite SO <sub>3</sub>						
Phosphate PO <sub>4</sub>						
Bromine NaBr						
Copper Cu	Ø	Ø	< .3		< .3	

Current Equipment	UP	DN	UR
Conductivity Controller			
Feed & Bleed Controller			
System Flow Switch			
Bleed Valve			
Water Meter			
Inhibitor Timer			
Algaecide Timer			
Inhibitor Pump			
Algaecide Pumps			

Treatment Chemicals In Use:

153 1078  
1 CWBSHS

Treatment Chemicals Added And Or Delivered: Ø-153

15-153, Ø-1078  
Ø CWBSHS

Water Meter Reading:

Make-up Water Analysis	P	M	NaCl	TH	FE	MM	COCs - NaCl	COCs - TH	COCs - MM
	Ø	76	100	240		710			

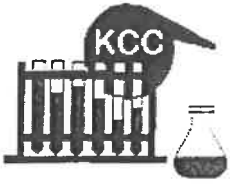
Tower Readings tested within Recommended Limits  
Replenished Chemicals

Chill Loop is still losing water but still tested within recommended limits

Jim the is a Dye that can be ADDED and uses a BLACK Light to Detect Leaks. What do you think about this?

Customer's Signature & Date: Pam Hand

KCC Service Rep's Signature & Date: 11-18-21



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## WATER-ANALYSIS & SERVICE REPORT

### FEED & BLEED EQUIPMENT INSPECTION REPORT

UP= working DN= out of service  
UR = under repair

Customer: MANATEE COUNTY - CENTRAL ENERGY PLANT  
 Location: 323 9<sup>TH</sup> ST W  
 Contractor: BRADENTON, FL 34205  
CONTACT: ROBERT 941 737-0322

Attention: \_\_\_\_\_ Date: 10-15-21

SAMPLE SOURCE: UNIT NAME & NUMBER \_\_\_\_\_ RECOMMENDED LIMITS \_\_\_\_\_

Reported in PPM	Tower		LOOP	
	FROM	TO	FROM	TO
Phenolphthalein P	CT	CL		
Total Alkalinity M	20		< 400	
Chloride NaCl	450			
Total Hardness TH	450		< 500	
Hydrogen PH	8.91	9.22	8.3	10.1
Conductivity MM	1405	1743	< 1500	< 4000
Sequest/Polymer Seq.	6.3		6	10
Iron FE	Ø	Ø	< 1.0	< 1.0
Molybdenum Mo				
Nitrite NaNO <sub>2</sub>		600		600 1000
Sulfite SO <sub>3</sub>				
Phosphate PO <sub>4</sub>				
Bromine NaBr				
Copper Cu	Ø	Ø	< .3	< .3

Current Equipment	UP	DN	UR
Conductivity Controller	✓		
Feed & Bleed Controller			
System Flow Switch	✓		
Bleed Valve			
Water Meter			
Inhibitor Timer			
Algaecide Timer			
Inhibitor Pump			
Algaecide Pumps			

Treatment Chemicals In Use:  
153, 1078  
CU BSHS

Treatment Chemicals Added And Or Delivered:  
 Ø - 153  
 Ø - 1078  
 Ø - CU BSHS

Water Meter Reading:  
 \_\_\_\_\_  
 \_\_\_\_\_

Make-up Water Analysis	P	M	NaCl	TH	FE	MM	COCs - NaCl	COCs - TH	COCs - MM
	Ø	64	-	208		651			

Tower readings tested with in Recommended Limits, no adjustments needed at this time

Chill LOOP tested within Recommended Limits  
 LOOP is leaking some where it is losing 600-800 gallons a month

Customer's Signature & Date: Jim Furb

KCC Service Rep's Signature & Date: 10-15-21

JOB - J59036

# MANATEE CO CLERK OF CIRCUIT CT

MANATEE CEP  
 323 9TH STREET WEST  
 BRADENTON, FL 34205



**Air Mechanical & Service Corp.**  
 4311 W IDA ST  
 TAMPA, FL 33614  
 United States  
 Tel: (813) 875-0782

## J59036

**Job is Completed**

### JOB DETAILS

SCHEDULED	JOB LEAD	CREW
3/26/24, 8:00 AM	Dennis Clark	

<b>JOB TYPE:</b> SC-PM	<b>JOBID#:</b> SC324010.1	<b>CUSTOMER PO#:</b> P2400663
<b>SALES REP:</b> MC	<b>CUSTOMER WORK ORDER #:</b> 52199	<b>TOTAL SYSTEM CHARGE (LBS):</b>
<b>NAME PLATE CHARGE (LBS):</b>	<b>REFRIGERANT LEAK TESTED AND REPORTED TO CUSTOMER:</b> No	<b>SAVE TO SERVER FILE:</b> NO

### JOB DESCRIPTION

QUARTERLY MAINTENANCE CHILLER, PUMPS, CT's  JAN - MAR 2024  B2404180
---

### WORK DETAILS

NAME	DESCRIPTION	QTY
<b>Work Performed</b>		
Notes: 3/25/24 completed Quarterly maintenance on chiller plant, chillers, cooling towers, pumps and motors. NOTE: CHWP ONE AND TWO, the actuator did not open up during test. Manatee facilities are looking into it.		
<b>Purchase Order Required</b>		
Notes: None		
<b>Additional Parts and Materials</b>		
Notes: None		
<b>Refrigerant Recovered</b>		
Notes: None		
<b>Refrigerant Added</b>		
Notes: None		
<b>Chiller Log</b>		
Notes: Ch-1		
<b>Chiller Log</b>		

JOB - J59036

NAME	DESCRIPTION	QTY
<b>Notes: CH-2</b>		
Inspection Log		
<b>Notes: CHWP</b>		
Inspection Log		
<b>Notes: CWP</b>		
Inspection Log		
<b>Notes: CT-1 BAC</b>		
Inspection Log		
<b>Notes: CT-2</b>		

**POST SIGNATURE**



Name of signee:

None

**PAYMENT**

*All service work is cash upon completion. Should credit be authorized, billing charge must be paid.*

*Payments are due and payable upon receipt of invoice. After 30 days, an account is considered past due and will be charged the maximum interest allowed under the state laws.*

**ATTORNEY'S FEES**

*Customer agrees that he will pay and reimburse Air Mechanical & Service Corp. for any and all reasonable attorney's fees which are incurred by Air Mechanical & Service Corp. in the collection of amounts due and payable hereunder.*

**LIABILITY**

*Air Mechanical & Service Corp.'s responsibility for injury to persons or property shall be limited to injury caused directly by Air Mechanical & Service Corp.'s negligence in performing the work covered by this order, and in no event, shall Air Mechanical & Service Corp. be liable for consequential, special, or indirect damages. Air Mechanical & Service Corp. shall not be liable for any loss, delay, injury, or damage that may be caused by conditions beyond Air Mechanical & Service Corp.'s control, including but not limited to acts of God, acts of Government, strikes, lockouts, fire, explosion, theft, riot, civil commotion, war or malicious mischief.*

*Air Mechanical & Service Corp. shall not be liable for bodily injury, personal injury or property damage, caused by or already caused by fungi or bacteria (mold), either alone or in combination with other substances or factors, and does not guarantee that any work performed by this company will correct or fix any existing fungi or bacteria (mold) conditions or prevent any future "fungi" or bacteria (mold) conditions of contamination. The following more clearly defines our position.*

*Air Mechanical & Service Corp. shall not be liable for:*

*A. "Bodily injury" or "property damage" which would not have occurred in whole or in part, but the accrual, alleged or threatened inhalation of, ingestion of, contact with exposure to, existence of, or presence of, any "fungi" or bacteria on or within a building or structure, including its contents, regardless of whether any other cause, event, material or product contributed concurrently or in any sequence to such injury or damage.*

*B. Any loss, cost or expense arising out of the abating, testing for, monitoring, cleaning up, removing, containing, treating, detoxifying, neutralizing, remediating or disposing of, or in any way responding to, or assessing the effects of, "fungi" or bacteria by any other person or entity.*

**Air Mechanical & Service Corp.**

Tel: (813) 875-0782



**AIR MECHANICAL & SERVICE CORP.**

4311 W. Ida Street  
Tampa, FL 33614  
(813) 875-0782  
FAX (813) 873-2275

2700 Ave. of the Americas  
Englewood, FL 34224  
(941) 475-3715  
FAX (941) 475-3725

325 Anchor Road  
Casselberry, FL 32707  
(407) 699-0454  
FAX (407) 699-0690

**CHILLER LOG**

<b>JOB NAME:</b> <b>Manatee CEP</b>	<b>LOCATION:</b> <b>323-9th St W, Bradenton</b>	<b>DATE:</b> <b>3/25/24</b>
-------------------------------------	---	-----------------------------

UNIT #: <b>CH-1 York</b>
MN: <b>YKECETQ7-EPGS</b>
SN: <b>SNBM-120710</b>
Electrical Report
Compressor #:
Nameplate Voltage: <b>460</b>
Actual Voltage: <b>484 / 486 / 484</b>
Nameplate Amperage: <b>396 FLA</b>
Actual Amperage: <b>150 / 155 / 162</b>
Crankcase Heater Amperage:
Cooling Tower:
Nameplate Voltage:
Actual Voltage: _____ / _____ / _____
Nameplate Amperage:
Actual Amperage: _____ / _____ / _____
<input type="checkbox"/> Check All Aux. Contacts
<input type="checkbox"/> Compressor Stater Contacts
<input type="checkbox"/> Cooling Tower Fan Motor Contacts
<input type="checkbox"/> Check Wire connection, tightness & Heat Fatigue
Runtime <b>32806</b> Start <b>11744</b>
Notes:
Condenser Water Temp: In <b>75.4</b> / Out <b>78.2</b>
Condenser Pressure / Sat.Temp: Pres: <b>83.8</b> Temp: <b>78</b>
Evaporator Pressure / Sat.Temp: Pres: <b>36.6</b> Temp: <b>40.8</b>
Oil Pressure: <b>68.2</b> Oil Temp: <b>113</b>
Oil Level: <input type="checkbox"/> Full <input type="checkbox"/> 3/4 <input type="checkbox"/> 1/2 <input type="checkbox"/> 1/4
Net Oil Pressure <b>35.5</b>
Low Oil Pressure Cut Out:
Entering Water Temp - Degrees F <b>50.6</b>
Leaving Water Temp - Degrees F <b>41.3</b>
Liquid Line Sight Glass <input type="checkbox"/> Clear <input type="checkbox"/> Flash
Compressor Superheat: <b>Evaporator approach 0.1</b>
Sat. Liquid Temp.: <b>Subcool 1.6/ condenser approach 0.0</b>
Annual Checks
Meg Compressor Motor 1. _____ 4. _____
2. _____ 5. _____
3. _____ 6. _____
<input type="checkbox"/> Check Pump down / Pressure Rise
<input type="checkbox"/> Check Freeze Stat _____ F Cut out
<input type="checkbox"/> Check Flow Switch / DP Switch Cut Out
<input type="checkbox"/> Check High Pressure Cut Out
<input type="checkbox"/> Check Water Pump Starter Interlock
<input type="checkbox"/> Check & Set Low Pressure Control
<input type="checkbox"/> Check System for Leaks
<input type="checkbox"/> Take Oil Sample

UNIT #:
MN:
SN:
Electrical Report
Compressor #:
Nameplate Voltage:
Actual Voltage: _____ / _____ / _____
Nameplate Amperage:
Actual Amperage: _____ / _____ / _____
Crankcase Heater Amperage:
Cooling Tower:
Nameplate Voltage:
Actual Voltage: _____ / _____ / _____
Nameplate Amperage:
Actual Amperage: _____ / _____ / _____
<input type="checkbox"/> Check All Aux. Contacts
<input type="checkbox"/> Compressor Stater Contacts
<input type="checkbox"/> Cooling Tower Fan Motor Contacts
<input type="checkbox"/> Check Wire connection, tightness & Heat Fatigue
Runtime _____ Start _____
Notes:
Condenser Water Temp: In _____ / Out _____
Condenser Pressure / Sat.Temp: Pres: _____ Temp: _____
Evaporator Pressure / Sat.Temp: Pres: _____ Temp: _____
Oil Pressure: _____ Oil Temp: _____
Oil Level: <input type="checkbox"/> Full <input type="checkbox"/> 3/4 <input type="checkbox"/> 1/2 <input type="checkbox"/> 1/4
Net Oil Pressure
Low Oil Pressure Cut Out:
Entering Water Temp - Degrees F
Leaving Water Temp - Degrees F
Liquid Line Sight Glass <input type="checkbox"/> Clear <input type="checkbox"/> Flash
Compressor Superheat:
Sat. Liquid Temp.:
Annual Checks
Meg Compressor Motor 1. _____ 4. _____
2. _____ 5. _____
3. _____ 6. _____
<input type="checkbox"/> Check Pump down / Pressure Rise
<input type="checkbox"/> Check Freeze Stat _____ F Cut out
<input type="checkbox"/> Check Flow Switch / DP Switch Cut Out
<input type="checkbox"/> Check High Pressure Cut Out
<input type="checkbox"/> Check Water Pump Starter Interlock
<input type="checkbox"/> Check & Set Low Pressure Control
<input type="checkbox"/> Check System for Leaks
<input type="checkbox"/> Take Oil Sample

Print

Owners Representative Signature (please also Print)

Date

Print *Dennis Clark*  
**Dennis Clark**

Owners Representative Signature (please also Print)

Date

**3/25/24**



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FAX (407) 699-0690

**CHILLER LOG**

<b>JOB NAME:</b> <b>Manatee CEP</b>	<b>LOCATION:</b> <b>323-9th St W, Bradenton</b>	<b>DATE:</b> <b>3/25/24</b>
-------------------------------------	---	-----------------------------

UNIT #: <b>CH-2 York</b>
MN: <b>YKECETQ7-EPGS</b>
SN: <b>SNBM-120900</b>
Electrical Report
Compressor #:
Nameplate Voltage: <b>460</b>
Actual Voltage: <b>484 / 486 / 484</b>
Nameplate Amperage: <b>396 FLA</b>
Actual Amperage: <b>160 / 158 / 162</b>
Crankcase Heater Amperage:
Cooling Tower:
Nameplate Voltage:
Actual Voltage: _____ / _____ / _____
Nameplate Amperage:
Actual Amperage: _____ / _____ / _____
<input type="checkbox"/> Check All Aux. Contacts
<input type="checkbox"/> Compressor Stater Contacts
<input type="checkbox"/> Cooling Tower Fan Motor Contacts
<input type="checkbox"/> Check Wire connection, tightness & Heat Fatigue
Runtime <b>28363</b> Start <b>6645</b>
Notes:
Condenser Water Temp: In <b>75.2</b> / Out <b>77.7</b>
Condenser Pressure / Sat.Temp: Pres: <b>83.2</b> Temp: <b>77.7</b>
Evaporator Pressure / Sat.Temp: Pres: <b>34.2</b> Temp: <b>39</b>
Oil Pressure: <b>64.3</b> Oil Temp: <b>117.2</b>
Oil Level: <input type="checkbox"/> Full <input type="checkbox"/> 3/4 <input type="checkbox"/> 1/2 <input type="checkbox"/> 1/4
Net Oil Pressure <b>35.4</b>
Low Oil Pressure Cut Out:
Entering Water Temp - Degrees F <b>50.3</b>
Leaving Water Temp - Degrees F <b>43.2</b>
Liquid Line Sight Glass <input type="checkbox"/> Clear <input type="checkbox"/> Flash
Compressor Superheat: <b>evaporator approach 4.2</b>
Sat. Liquid Temp.: <b>Subcool 2.2/ condenser approach 0.0</b>
Annual Checks
Meg Compressor Motor 1. _____ 4. _____
2. _____ 5. _____
3. _____ 6. _____
<input type="checkbox"/> Check Pump down / Pressure Rise
<input type="checkbox"/> Check Freeze Stat _____ F Cut out
<input type="checkbox"/> Check Flow Switch / DP Switch Cut Out
<input type="checkbox"/> Check High Pressure Cut Out
<input type="checkbox"/> Check Water Pump Starter Interlock
<input type="checkbox"/> Check & Set Low Pressure Control
<input type="checkbox"/> Check System for Leaks
<input type="checkbox"/> Take Oil Sample

UNIT #:
MN:
SN:
Electrical Report
Compressor #:
Nameplate Voltage:
Actual Voltage: _____ / _____ / _____
Nameplate Amperage:
Actual Amperage: _____ / _____ / _____
Crankcase Heater Amperage:
Cooling Tower:
Nameplate Voltage:
Actual Voltage: _____ / _____ / _____
Nameplate Amperage:
Actual Amperage: _____ / _____ / _____
<input type="checkbox"/> Check All Aux. Contacts
<input type="checkbox"/> Compressor Stater Contacts
<input type="checkbox"/> Cooling Tower Fan Motor Contacts
<input type="checkbox"/> Check Wire connection, tightness & Heat Fatigue
Runtime _____ Start _____
Notes:
Condenser Water Temp: In _____ / Out _____
Condenser Pressure / Sat.Temp: Pres: _____ Temp: _____
Evaporator Pressure / Sat.Temp: Pres: _____ Temp: _____
Oil Pressure: _____ Oil Temp: _____
Oil Level: <input type="checkbox"/> Full <input type="checkbox"/> 3/4 <input type="checkbox"/> 1/2 <input type="checkbox"/> 1/4
Net Oil Pressure
Low Oil Pressure Cut Out:
Entering Water Temp - Degrees F
Leaving Water Temp - Degrees F
Liquid Line Sight Glass <input type="checkbox"/> Clear <input type="checkbox"/> Flash
Compressor Superheat:
Sat. Liquid Temp.:
Annual Checks
Meg Compressor Motor 1. _____ 4. _____
2. _____ 5. _____
3. _____ 6. _____
<input type="checkbox"/> Check Pump down / Pressure Rise
<input type="checkbox"/> Check Freeze Stat _____ F Cut out
<input type="checkbox"/> Check Flow Switch / DP Switch Cut Out
<input type="checkbox"/> Check High Pressure Cut Out
<input type="checkbox"/> Check Water Pump Starter Interlock
<input type="checkbox"/> Check & Set Low Pressure Control
<input type="checkbox"/> Check System for Leaks
<input type="checkbox"/> Take Oil Sample



**AIR MECHANICAL & SERVICE CORP.**

4311 W. IDA STREET  
TAMPA, FL 33614  
(813) 875-0782  
FAX (813) 873-2275

2700 Ave. of the Americas  
Englewood, FL 34224  
(941) 475-3715

**INSPECTION REPORT**

325 Anchor Road  
Casselberry, FL 32707  
(407) 699-0454

<b>JOB NAME:</b> Manatee CEP	<b>LOCATION:</b> 323-9th St W, Bradenton	<b>DATE:</b> 03/25/24
------------------------------	--	-----------------------

<b>Unit #:CHWP-1, ABB DRIVE</b>	
MN:ACH550	
SN:2145200364	
<b>Electrical Report</b>	
<input type="checkbox"/> Electrical Connections	
<input type="checkbox"/> Blower Motor	
<input type="checkbox"/> Blower Contactors	
<input type="checkbox"/> Condenser Motor	
<input type="checkbox"/> Condenser Contactor	
<input type="checkbox"/> Compressor Motor	
<input type="checkbox"/> Compressor Contactor	
<input type="checkbox"/> Crankcase Heater	
<input type="checkbox"/> Readings Normal	
<input type="checkbox"/> Readings Other:	
<b>Notes:</b> 12.8 amps @ 30 HZ 60 HP HYUNDAI MOTOR	
<b>Refrigeration Report</b>	
<input type="checkbox"/> Visible Leaks	
<input type="checkbox"/> Suction Pressure Normal	
<input type="checkbox"/> Head Pressure Normal	
<input type="checkbox"/> Oil Level (if appl.) Normal	
<input type="checkbox"/> Compressor Superheat Normal	
<b>Notes:</b>	
<b>Evaporator &amp; Condenser Coil and Drain Report</b>	
<input type="checkbox"/> Blower Bearings Greased	
<input type="checkbox"/> Evaporator Coil Clean	
<input type="checkbox"/> Evap. Requires Cleaning	
<input type="checkbox"/> Condensate Pan Clean	
<input type="checkbox"/> Condensate Pan Req. Cleaning	
<input type="checkbox"/> Condenser Coil Clean	
<input type="checkbox"/> Cond. Coil Requires Cleaning	
<input type="checkbox"/> Filters Changed	
<input type="checkbox"/> Requires Filter Change	
<input type="checkbox"/> Drive Belts Good	
<input type="checkbox"/> Belts Require Replacing	
<input type="checkbox"/> Evap. Motor & Bearings Greased	
<b>Notes:</b>	

<b>Unit #:CHWP-2, ABB DRIVE</b>	
MN:ACH560	
SN:2145200378	
<b>Electrical Report</b>	
<input type="checkbox"/> Electrical Connections	
<input type="checkbox"/> Blower Motor	
<input type="checkbox"/> Blower Contactors	
<input type="checkbox"/> Condenser Motor	
<input type="checkbox"/> Condenser Contactor	
<input type="checkbox"/> Compressor Motor	
<input type="checkbox"/> Compressor Contactor	
<input type="checkbox"/> Crankcase Heater	
<input type="checkbox"/> Readings Normal	
<input type="checkbox"/> Readings Other:	
<b>Notes:</b> 12.7 amps @ 30 HZ 60 HP HYUNDAI MOTOR	
<b>Refrigeration Report</b>	
<input type="checkbox"/> Visible Leaks	
<input type="checkbox"/> Suction Pressure Normal	
<input type="checkbox"/> Head Pressure Normal	
<input type="checkbox"/> Oil Level (if appl.) Normal	
<input type="checkbox"/> Compressor Superheat Normal	
<b>Notes:</b>	
<b>Evaporator &amp; Condenser Coil and Drain Report</b>	
<input type="checkbox"/> Blower Bearings Greased	
<input type="checkbox"/> Evaporator Coil Clean	
<input type="checkbox"/> Evap. Requires Cleaning	
<input type="checkbox"/> Condensate Pan Clean	
<input type="checkbox"/> Condensate Pan Req. Cleaning	
<input type="checkbox"/> Condenser Coil Clean	
<input type="checkbox"/> Cond. Coil Requires Cleaning	
<input type="checkbox"/> Filters Changed	
<input type="checkbox"/> Requires Filter Change	
<input type="checkbox"/> Drive Belts Good	
<input type="checkbox"/> Belts Require Replacing	
<input type="checkbox"/> Evap. Motor & Bearings Greased	
<b>Notes:</b>	

<b>Unit #:CHWP-3, ABB DRIVE</b>	
MN:ACH550	
SN:2145200352	
<b>Electrical Report</b>	
<input type="checkbox"/> Electrical Connections	
<input type="checkbox"/> Blower Motor	
<input type="checkbox"/> Blower Contactors	
<input type="checkbox"/> Condenser Motor	
<input type="checkbox"/> Condenser Contactor	
<input type="checkbox"/> Compressor Motor	
<input type="checkbox"/> Compressor Contactor	
<input type="checkbox"/> Crankcase Heater	
<input type="checkbox"/> Readings Normal	
<input type="checkbox"/> Readings Other:	
<b>Notes:</b> 21.7 amps @ 36.0 HZ 60 HP BALDOR MOTOR	
<b>Refrigeration Report</b>	
<input type="checkbox"/> Visible Leaks	
<input type="checkbox"/> Suction Pressure Normal	
<input type="checkbox"/> Head Pressure Normal	
<input type="checkbox"/> Oil Level (if appl.) Normal	
<input type="checkbox"/> Compressor Superheat Normal	
<b>Notes:</b>	
<b>Evaporator &amp; Condenser Coil and Drain Report</b>	
<input type="checkbox"/> Blower Bearings Greased	
<input type="checkbox"/> Evaporator Coil Clean	
<input type="checkbox"/> Evap. Requires Cleaning	
<input type="checkbox"/> Condensate Pan Clean	
<input type="checkbox"/> Condensate Pan Req. Cleaning	
<input type="checkbox"/> Condenser Coil Clean	
<input type="checkbox"/> Cond. Coil Requires Cleaning	
<input type="checkbox"/> Filters Changed	
<input type="checkbox"/> Requires Filter Change	
<input type="checkbox"/> Drive Belts Good	
<input type="checkbox"/> Belts Require Replacing	
<input type="checkbox"/> Evap. Motor & Bearings Greased	
<b>Notes:</b>	

Owners Representative Signature (please also Print) \_\_\_\_\_ Date \_\_\_\_\_

  
 Service Engineer Signature \_\_\_\_\_ Date 03/25/24





**AIR MECHANICAL & SERVICE CORP.**

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(941) 475-3715

**INSPECTION REPORT**

325 Anchor Road  
Casselberry, FL 32707  
(407) 699-0454

<b>JOB NAME:</b> Manatee CEP	<b>LOCATION:</b> 323-9th St W, Bradenton	<b>DATE:</b> 03/25/24
------------------------------	--	-----------------------

<b>Unit #:CWP-1</b>
<b>MN:HLS284SR235B</b>
<b>SN:</b>
<b>Electrical Report</b>
<input type="checkbox"/> Electrical Connections
<input type="checkbox"/> Blower Motor
<input type="checkbox"/> Blower Contactors
<input type="checkbox"/> Condenser Motor
<input type="checkbox"/> Condenser Contactor
<input type="checkbox"/> Compressor Motor
<input type="checkbox"/> Compressor Contactor
<input type="checkbox"/> Crankcase Heater
<input type="checkbox"/> Readings Normal
<input type="checkbox"/> Readings Other:
<b>Notes:</b> 25 HP HYUNDAI MOTOR 24.2 amps 485 volts
<b>Refrigeration Report</b>
<input type="checkbox"/> Visible Leaks
<input type="checkbox"/> Suction Pressure Normal
<input type="checkbox"/> Head Pressure Normal
<input type="checkbox"/> Oil Level (if appl.) Normal
<input type="checkbox"/> Compressor Superheat Normal
<b>Notes:</b>
<b>Evaporator &amp; Condenser Coil and Drain Report</b>
<input type="checkbox"/> Blower Bearings Greased
<input type="checkbox"/> Evaporator Coil Clean
<input type="checkbox"/> Evap. Requires Cleaning
<input type="checkbox"/> Condensate Pan Clean
<input type="checkbox"/> Condensate Pan Req. Cleaning
<input type="checkbox"/> Condenser Coil Clean
<input type="checkbox"/> Cond. Coil Requires Cleaning
<input type="checkbox"/> Filters Changed
<input type="checkbox"/> Requires Filter Change
<input type="checkbox"/> Drive Belts Good
<input type="checkbox"/> Belts Require Replacing
<input type="checkbox"/> Evap. Motor & Bearings Greased
<b>Notes:</b>

<b>Unit #:CWP-2</b>
<b>MN:HLS284SR235B</b>
<b>SN:</b>
<b>Electrical Report</b>
<input type="checkbox"/> Electrical Connections
<input type="checkbox"/> Blower Motor
<input type="checkbox"/> Blower Contactors
<input type="checkbox"/> Condenser Motor
<input type="checkbox"/> Condenser Contactor
<input type="checkbox"/> Compressor Motor
<input type="checkbox"/> Compressor Contactor
<input type="checkbox"/> Crankcase Heater
<input type="checkbox"/> Readings Normal
<input type="checkbox"/> Readings Other:
<b>Notes:</b> 24.2 amps 485 volts 25 HP HYUNDAI MOTOR
<b>Refrigeration Report</b>
<input type="checkbox"/> Visible Leaks
<input type="checkbox"/> Suction Pressure Normal
<input type="checkbox"/> Head Pressure Normal
<input type="checkbox"/> Oil Level (if appl.) Normal
<input type="checkbox"/> Compressor Superheat Normal
<b>Notes:</b>
<b>Evaporator &amp; Condenser Coil and Drain Report</b>
<input type="checkbox"/> Blower Bearings Greased
<input type="checkbox"/> Evaporator Coil Clean
<input type="checkbox"/> Evap. Requires Cleaning
<input type="checkbox"/> Condensate Pan Clean
<input type="checkbox"/> Condensate Pan Req. Cleaning
<input type="checkbox"/> Condenser Coil Clean
<input type="checkbox"/> Cond. Coil Requires Cleaning
<input type="checkbox"/> Filters Changed
<input type="checkbox"/> Requires Filter Change
<input type="checkbox"/> Drive Belts Good
<input type="checkbox"/> Belts Require Replacing
<input type="checkbox"/> Evap. Motor & Bearings Greased
<b>Notes:</b>

<b>Unit #:CWP-3</b>
<b>MN:HLS284SR235B</b>
<b>SN:</b>
<b>Electrical Report</b>
<input type="checkbox"/> Electrical Connections
<input type="checkbox"/> Blower Motor
<input type="checkbox"/> Blower Contactors
<input type="checkbox"/> Condenser Motor
<input type="checkbox"/> Condenser Contactor
<input type="checkbox"/> Compressor Motor
<input type="checkbox"/> Compressor Contactor
<input type="checkbox"/> Crankcase Heater
<input type="checkbox"/> Readings Normal
<input type="checkbox"/> Readings Other:
<b>Notes:</b> 25HP HYUNDAI MOTOR 24.3 amps 485 volts
<b>Refrigeration Report</b>
<input type="checkbox"/> Visible Leaks
<input type="checkbox"/> Suction Pressure Normal
<input type="checkbox"/> Head Pressure Normal
<input type="checkbox"/> Oil Level (if appl.) Normal
<input type="checkbox"/> Compressor Superheat Normal
<b>Notes:</b>
<b>Evaporator &amp; Condenser Coil and Drain Report</b>
<input type="checkbox"/> Blower Bearings Greased
<input type="checkbox"/> Evaporator Coil Clean
<input type="checkbox"/> Evap. Requires Cleaning
<input type="checkbox"/> Condensate Pan Clean
<input type="checkbox"/> Condensate Pan Req. Cleaning
<input type="checkbox"/> Condenser Coil Clean
<input type="checkbox"/> Cond. Coil Requires Cleaning
<input type="checkbox"/> Filters Changed
<input type="checkbox"/> Requires Filter Change
<input type="checkbox"/> Drive Belts Good
<input type="checkbox"/> Belts Require Replacing
<input type="checkbox"/> Evap. Motor & Bearings Greased
<b>Notes:</b>

Owners Representative Signature (please also Print) \_\_\_\_\_ Date \_\_\_\_\_

  
 Service Engineer Signature \_\_\_\_\_ Date 03/25/24



**AIR MECHANICAL & SERVICE CORP.**

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(941) 475-3715

**INSPECTION REPORT**

325 Anchor Road  
Casselberry, FL 32707  
(407) 699-0454

<b>JOB NAME:</b> Manatee CEP	<b>LOCATION:</b> 323-9th St W, Bradenton	<b>DATE:</b> 03/25/24
------------------------------	--	-----------------------

Unit #:CT-1A, ABB DRIVE  
MN:ACH560  
SN:2145200404

**Electrical Report**

Electrical Connections

Blower Motor

Blower Contactors

Condenser Motor

Condenser Contactor

Compressor Motor

Compressor Contactor

Crankcase Heater

Readings Normal

Readings Other:

Notes:  
8.2 amps @ 30.9 HZ

**Refrigeration Report**

Visible Leaks

Suction Pressure Normal

Head Pressure Normal

Oil Level (if appl.) Normal

Compressor Superheat Normal

Notes:

**Evaporator & Condenser Coil and Drain Report**

Blower Bearings Greased

Evaporator Coil Clean

Evap. Requires Cleaning

Condensate Pan Clean

Condensate Pan Req. Cleaning

Condenser Coil Clean

Cond. Coil Requires Cleaning

Filters Changed

Requires Filter Change

Drive Belts Good

Belts Require Replacing

Evap. Motor & Bearings Greased

Notes:

Unit #:CT-1B, ABB DRIVE  
MN:ACH550  
SN:2145200425

**Electrical Report**

Electrical Connections

Blower Motor

Blower Contactors

Condenser Motor

Condenser Contactor

Compressor Motor

Compressor Contactor

Crankcase Heater

Readings Normal

Readings Other:

Notes:  
7.9 amps @ 30.1 HZ

**Refrigeration Report**

Visible Leaks

Suction Pressure Normal

Head Pressure Normal

Oil Level (if appl.) Normal

Compressor Superheat Normal

Notes:

**Evaporator & Condenser Coil and Drain Report**

Blower Bearings Greased

Evaporator Coil Clean

Evap. Requires Cleaning

Condensate Pan Clean

Condensate Pan Req. Cleaning

Condenser Coil Clean

Cond. Coil Requires Cleaning

Filters Changed

Requires Filter Change

Drive Belts Good

Belts Require Replacing

Evap. Motor & Bearings Greased

Notes:

Unit #:CT-1 BAC  
MN:PT2-1218A-301  
SN:U148375302-01-01

**Electrical Report**

Electrical Connections

Blower Motor

Blower Contactors

Condenser Motor

Condenser Contactor

Compressor Motor

Compressor Contactor

Crankcase Heater

Readings Normal

Readings Other:

Notes:

**Refrigeration Report**

Visible Leaks

Suction Pressure Normal

Head Pressure Normal

Oil Level (if appl.) Normal

Compressor Superheat Normal

Notes:

**Evaporator & Condenser Coil and Drain Report**

Blower Bearings Greased

Evaporator Coil Clean

Evap. Requires Cleaning

Condensate Pan Clean

Condensate Pan Req. Cleaning

Condenser Coil Clean

Cond. Coil Requires Cleaning

Filters Changed

Requires Filter Change

Drive Belts Good

Belts Require Replacing

Evap. Motor & Bearings Greased

Notes:

Owners Representative Signature (please also Print) \_\_\_\_\_ Date \_\_\_\_\_

  
 Service Engineer Signature \_\_\_\_\_ Date 03/25/24



**AIR MECHANICAL & SERVICE CORP.**

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Englewood, FL 34224  
(941) 475-3715

**INSPECTION REPORT**

325 Anchor Road  
Casselberry, FL 32707  
(407) 699-0454

<b>JOB NAME:</b> Manatee CEP	<b>LOCATION:</b> 323-9th St W, Bradenton	<b>DATE:</b> 03/25/24
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<b>Unit #:CT-2A, ABB DRIVE</b>
MN:ACH550
SN:2145200435
<b>Electrical Report</b>
<input type="checkbox"/> Electrical Connections
<input type="checkbox"/> Blower Motor
<input type="checkbox"/> Blower Contactors
<input type="checkbox"/> Condenser Motor
<input type="checkbox"/> Condenser Contactor
<input type="checkbox"/> Compressor Motor
<input type="checkbox"/> Compressor Contactor
<input type="checkbox"/> Crankcase Heater
<input type="checkbox"/> Readings Normal
<input type="checkbox"/> Readings Other:
Notes: 5.6 amps @ 22.2 HZ
<b>Refrigeration Report</b>
<input type="checkbox"/> Visible Leaks
<input type="checkbox"/> Suction Pressure Normal
<input type="checkbox"/> Head Pressure Normal
<input type="checkbox"/> Oil Level (if appl.) Normal
<input type="checkbox"/> Compressor Superheat Normal
Notes:
<b>Evaporator &amp; Condenser Coil and Drain Report</b>
<input type="checkbox"/> Blower Bearings Greased
<input type="checkbox"/> Evaporator Coil Clean
<input type="checkbox"/> Evap. Requires Cleaning
<input type="checkbox"/> Condensate Pan Clean
<input type="checkbox"/> Condensate Pan Req. Cleaning
<input type="checkbox"/> Condenser Coil Clean
<input type="checkbox"/> Cond. Coil Requires Cleaning
<input type="checkbox"/> Filters Changed
<input type="checkbox"/> Requires Filter Change
<input type="checkbox"/> Drive Belts Good
<input type="checkbox"/> Belts Require Replacing
<input type="checkbox"/> Evap. Motor & Bearings Greased
Notes:

<b>Unit #:CT-2B, ABB DRIVE</b>
MN:ACH550
SN:2145200392
<b>Electrical Report</b>
<input type="checkbox"/> Electrical Connections
<input type="checkbox"/> Blower Motor
<input type="checkbox"/> Blower Contactors
<input type="checkbox"/> Condenser Motor
<input type="checkbox"/> Condenser Contactor
<input type="checkbox"/> Compressor Motor
<input type="checkbox"/> Compressor Contactor
<input type="checkbox"/> Crankcase Heater
<input type="checkbox"/> Readings Normal
<input type="checkbox"/> Readings Other:
Notes: 5.2 amps @ 19.7 HZ
<b>Refrigeration Report</b>
<input type="checkbox"/> Visible Leaks
<input type="checkbox"/> Suction Pressure Normal
<input type="checkbox"/> Head Pressure Normal
<input type="checkbox"/> Oil Level (if appl.) Normal
<input type="checkbox"/> Compressor Superheat Normal
Notes:
<b>Evaporator &amp; Condenser Coil and Drain Report</b>
<input type="checkbox"/> Blower Bearings Greased
<input type="checkbox"/> Evaporator Coil Clean
<input type="checkbox"/> Evap. Requires Cleaning
<input type="checkbox"/> Condensate Pan Clean
<input type="checkbox"/> Condensate Pan Req. Cleaning
<input type="checkbox"/> Condenser Coil Clean
<input type="checkbox"/> Cond. Coil Requires Cleaning
<input type="checkbox"/> Filters Changed
<input type="checkbox"/> Requires Filter Change
<input type="checkbox"/> Drive Belts Good
<input type="checkbox"/> Belts Require Replacing
<input type="checkbox"/> Evap. Motor & Bearings Greased
Notes:

<b>Unit #:CT-2 BAC</b>
MN:PT2-1218A-301
SN:U148375302-02-01
<b>Electrical Report</b>
<input type="checkbox"/> Electrical Connections
<input type="checkbox"/> Blower Motor
<input type="checkbox"/> Blower Contactors
<input type="checkbox"/> Condenser Motor
<input type="checkbox"/> Condenser Contactor
<input type="checkbox"/> Compressor Motor
<input type="checkbox"/> Compressor Contactor
<input type="checkbox"/> Crankcase Heater
<input type="checkbox"/> Readings Normal
<input type="checkbox"/> Readings Other:
Notes:
<b>Refrigeration Report</b>
<input type="checkbox"/> Visible Leaks
<input type="checkbox"/> Suction Pressure Normal
<input type="checkbox"/> Head Pressure Normal
<input type="checkbox"/> Oil Level (if appl.) Normal
<input type="checkbox"/> Compressor Superheat Normal
Notes:
<b>Evaporator &amp; Condenser Coil and Drain Report</b>
<input type="checkbox"/> Blower Bearings Greased
<input type="checkbox"/> Evaporator Coil Clean
<input type="checkbox"/> Evap. Requires Cleaning
<input type="checkbox"/> Condensate Pan Clean
<input type="checkbox"/> Condensate Pan Req. Cleaning
<input type="checkbox"/> Condenser Coil Clean
<input type="checkbox"/> Cond. Coil Requires Cleaning
<input type="checkbox"/> Filters Changed
<input type="checkbox"/> Requires Filter Change
<input type="checkbox"/> Drive Belts Good
<input type="checkbox"/> Belts Require Replacing
<input type="checkbox"/> Evap. Motor & Bearings Greased
Notes:

Owners Representative Signature (please also Print) \_\_\_\_\_ Date \_\_\_\_\_

  
 Service Engineer Signature \_\_\_\_\_ Date 03/25/24



**JOHNSON CONTROLS**  
**Building Efficiency**  
**Federal ID 39-0380010**

Doug Ryder  
 4/18/2023  
 MOO8465

**ORIGINAL INVOICE**

<b>Invoice #:</b>	<b>1-128656673394</b>	<b>Invoice Date:</b>	<b>04/07/2023</b>
<b>PO #/Auth:</b>	B23006555	<b>Service Request:</b>	1-128585390846
<b>Customer WO#:</b>		<b>SR Type:</b>	L&M
<b>Customer Acct:</b>	1630118	<b>Branch Name:</b>	JOHNSON CONTROLS TAMPA FL CB - 0N0C

**Bill To:**  
 MANATEE COUNTY BOARD OF COMMISSIONERS  
 PO BOX 1000  
 BRADENTON FL 34206-1000

**Service Site:**  
 MANATEE COUNTY BOARD OF  
 COMMISSIONERS  
 393 9TH ST W ,  
 BRADENTON FL 34205-8629

**Contractor/License Information :**

**Requested By:** DOUG RYDER  
**Phone:**

**Service Requested:** Don R. (941) 737-3156 is requesting PM for Tube brush for chiller 1 and 2 at the at Central Energy Plant 314 8th W BRADENTON .

**Service Provided:** Customer requested we do the annual pm on chiller 1 first. York mod# ykecetq7-eggs ser# snbm120710 Isolated & drained & opened the condenser, Andre brushed the tubes and the vsd hx. Also I replaced the vsd inhibitor and cleaned its strainer and backflushed. Got pulled off job for an emergency call. Will return in the morning, job is incomplete.  
 Arrived on site. Removed bolts from the head of chiller 1. Set up tube brushing machine. Proceeded cleaning tubes. Cleaned exchanger. Greased gasket. Closed head and placed bolts back in. Filled condenser and check for any leaks. Cleaned area and removed tools. Arrived on site. Drained chiller 2. Removed bolts front the head to gain access to the tubes. Set up tube brushing machine. Proceeded to clean tubes. Cleaned tubes on the exchanger. Assisted with annual maintenance on chiller. Gasket to the head of the chiller will need to cure over night. Matt will return tomorrow to fill chiller and put back in operation. Cleaned area and check out.  
 chiller 1 & 2 York mod# ykecetq7-eggs ser# snbm120710 replaced oil& refrigerant filters. Replaced vsd inhibitor. Lo/To power megged motor windings, tightened electrical connections, inspected vsd components, electronically leak checked machines .calibrated prv feedback potentiometer, checked auto lube function, lubed prv& vgd linkages & checked stroke. Filled out oil analysis & shipping paperwork, took oil samples from chillers 1&2. Shipped to lab for analysis. Started up chiller 1 & logged readings. Checked fault histories & setpoints. Chiller 2 Isolated & drained the condenser, Andre brushed the condenser & vsd hx tubes. Job is incomplete.  
 chiller 2 York mod# ykecetq7-eggs ser# snbm120710 reinstalled the condenser head, refilled, bled air & leak checked. Added grease to auto luber, cleaned up area. Monitored the operation & logged chillers1&2 readings taken . Stroked and checked vgd and Prv actuators. Noticed chiller 1 prv actuator is leaking hydraulic fluid &needs replacing. Worked up quote for repairs needed.  
 Annual comprehensive pms on chillers is completed.  
 Thank you for your business.

Qty	Description	UOM	Unit Price	Sub Total	Tax	Net Price
	<b>Labor</b>					
3.5	04/06/2023 Regular Chiller Heavy	Hour				
8	04/05/2023 Regular Mechanical Heavy	Hour				
9	04/05/2023 Regular Chiller Heavy	Hour				
8	04/04/2023 Regular Mechanical Heavy	Hour				
5	04/04/2023 Regular Chiller Heavy	Hour				
	<b>Sub-Total</b>					

Central Energy Plant  
Maintenance Responsibilities

**ATTACHMENT A**

**SCOPE OF SERVICES**

The successful vendor will be responsible for performing preventative maintenance and operational services on the COUNTY's cooling system at the Central Energy Plant (CEP) located at 323 9<sup>th</sup> St West, Bradenton, FL 34205, in accordance with prevailing industry standards and in substantial compliance with applicable manufacturer operation and maintenance requirements, as indicated in this document.

Replacement of failed items that are outside of their respective warranties is included as part of the preventative maintenance and annual service scope.

The successful vendor will maintain the personnel who will perform the service activities necessary to optimize operation while minimizing cost. Vendor services shall focus on procedures designed to enhance the safety and performance.

Manatee County Property Management (MCPM) requires vendor service activities to be maintained at the CEP facility proper. MCPM requests to receive all service activity documentation from service providers.

The successful vendor shall:

- Provide quarterly preventative maintenance and inspection services per equipment, (to maintain long term warranties)
- Provide annual maintenance and inspection services per equipment.
- Provide Time and Material for all parts outside warranty per manufacturer requirements.
- Repair and replacement of failed parts outside the respective warranties

**Pumps**

**Quarterly Preventative Maintenance Schedule:**

The successful vendor shall:

1. Verify pump rotation.
2. Inspect for leaks. Check for excessive pressure drop. Clean strainer, if required.
3. Lubricate motor bearings per manufacturer's recommendations.
4. Inspect coupling or belts and sheaves and adjust as required.
5. Inspect electrical wiring and tighten connections as required.
6. Inspect condition and check operation of motor contactor/starter.
7. Check for vibration.
8. Measure operating voltage and amperage and record readings.
9. Check customer logs with operator, discuss general operation of pump.
10. Record pertinent system temperatures and pressures to determine the existing operating conditions of the system.
11. Issue report with areas of concern noted, within two weeks of inspection date.

Central Energy Plant  
Maintenance Responsibilities

**Annual Service Schedule:**

The successful vendor shall:

1. Verify pump rotation.
2. Inspect for leaks. Check bolted connections. Repair seals and/or gauge connections, as required.
3. Check for cavitation/excessive noise.
4. Check for excessive pressure drop.
5. Clean strainer.
6. Lubricate motor bearings per manufacturer's recommendations.
7. Check packing or mechanical seals and adjust as necessary. Replace if necessary.
8. Check motor starter operation and condition of contacts and connections.
9. Check for excessive vibration.
10. Check condition of coupling or belts/sheaves.
11. Tighten all electrical terminal connections.
12. Measure operating voltage and amperage and record readings.
13. Record pertinent system temperatures and pressures to determine the existing operating conditions of the system.
14. Check customer logs with operator, discuss general operation of pump.
15. Vibration analysis once per year.
16. Issue report with areas of concern noted, within two weeks of inspection date. Report to include estimated remaining life.

**Exhaust Fans**

**Quarterly Preventative Maintenance Schedule:**

The successful vendor shall:

1. Verify fan rotation.
2. Inspect for duct/housing leaks. Check bolted connections/access doors. Check for excessive noise/vibration.
3. Check for excessive pressure drop across filter bank, as applicable.
4. Lubricate fan motor bearings per manufacturer's recommendations.
5. Inspect belts and sheaves and adjust as required.
6. Inspect electrical wiring and tighten connections as required.
7. Inspect condition and check operation of motor contactor/starter.
8. Measure operating voltage and amperage and record readings.
9. Check fan interlocks. Repair, as required.
10. Visually check sensors and gauges. Calibrate and repair/replace, as required.
11. Check logs with operator, discuss general operation of fan.

**Annual Service Schedule:**

The successful vendor shall:

1. Verify fan rotation.
2. Check for excessive noise/vibration.
3. Clean fan scroll.
4. Lubricate motor bearings per manufacturer's recommendations.
5. Inspect belts and sheaves and adjust as required. Replace as required.
6. Check motor starter operation and condition of contacts and connections.
7. Check for excessive vibration.

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8. Tighten all electrical terminal connections.
9. Measure operating voltage and amperage and record readings.
10. Check logs with operator, discuss general operation of system
11. Vibration analysis once per year.

**Variable Frequency Drives**

**Quarterly Preventative Maintenance Schedule:**

The successful vendor shall:

1. Check drive On-Off –Bypass switch, as applicable.
2. Check and tighten all electrical connections.
3. Check and clean heat sink and cooling fan as required.
4. Check cooling fan for abnormal noise and/or vibration. Lubricate bearings, as required.
5. Check and clean printed circuit board.
6. Check drive programming, verify operation.
7. Check customer logs with operator, discuss operation of drives.
8. Issue report with areas of concern noted, within two weeks of inspection date.

**Annual Variable Frequency Drives Service Schedule:**

The successful vendor shall:

1. Check and tighten all electrical connections.
2. Check and clean heat sink and cooling fan as required.
3. Check cooling fan for abnormal noise and/or vibration. Lubricate bearings, as required.
4. Check and clean printed circuit board.
5. Check drive programming, verify operation.
6. Perform rectifier test and DC bus capacitor test, as applicable. Replace as required.
7. Check and clean/replace air filters as required.
8. Check customer logs with operator, discuss general operation of drives.
9. Issue report with areas of concern noted, within two weeks of inspection date. Report to include estimated remaining life.

**Chillers**

**Quarterly Preventative Maintenance Schedule:**

The successful vendor shall:

1. Check for proper refrigerant charge.
2. Repair refrigerant leaks. Refill, as required.
3. Check control calibration and operation.
4. Inspect main electrical components.
5. Inspect external fittings and lines on compressor.
6. Inspect compressor operating oil level. Refill, as required.
9. Check compressor unloading/capacity control mechanism(s).
10. Inspect electrical wiring and tighten connections as required.

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11. Inspect condition and check operation of motor contactor/starter.
12. Lubricate motor bearings per manufacturer's recommendations, as applicable.
13. Check for vibration.
14. Measure operating voltage and amperage and record readings.
15. Check for evidence of moisture in refrigerant circuit.
16. Check and record refrigerant sub cooling.
17. Check sight glasses.
18. Check and record superheat.
19. Check and record all water temperatures and pressures.
  
20. Check and record compressor voltage and amperage.
21. Check expansion tank for proper air cushion.
22. Check electrical wiring for evidence of overheating and tighten connections as required.
23. Check crankcase heater operation.
24. Check refrigerant monitor and test.
25. Check flow switches.
26. Check anti-cycle switches.
27. Check operation of chilled water temperature controller.
28. Check customer logs with operator; discuss general operation of chiller/condensing units.
29. Issue report with areas of concern noted, within two weeks of inspection date.

**Annual Chiller Service Schedule:**

The successful vendor shall:

1. Furnish new compressor oil, filter and purge gaskets as indicated by oil test results.
2. Use Spectrographic oil analysis.
  - A. Draw oil sample from operating machine.
  - B. Provide clean sample container for oil sample to be tested.
  - C. Properly label sample bottle on site for delivery to test facility.
  - D. Provide written laboratory analysis of oil samples. Written laboratory report shall include oil condition, water content, acid content and wear metals content.
3. Pressurize (as required), thoroughly leak check unit and repair leaks.
4. Check and calibrate compressor safety controls.
5. Check and calibrate compressor operating controls.
6. Check Meg ohm test compressor and oil pump motor and record readings.
7. Inspect Vane motor, shaft, linkage and bearings.
8. Lubricate vane bearings.
9. Disconnect vane linkage and check for wear.
10. Reconnect linkage and check Pilot positioner setting.
11. Check Vane motor operation.
12. Check Motor Temperature Control Capillary.
13. Check Low Temperature Control Capillary.
14. Check motor cooling solenoid water valve.
15. Inspect condition of contactors, relays and timers.
16. Inspect compressor motor starter contacts for wear and pitting.
17. Tighten all compressor motor starter electrical terminals.
18. Check dashpot and dashpot oil in main starter.
19. Inspect and service purge per manufacturer's instructions.
20. Check crankcase heater operation.
21. Replace recommended refrigerant filters.
22. Check flow switch and external interlocks.
23. Remove and clean closed system pressure reducing valve strainer.
24. Remove condenser head and brush clean condenser tubes. Every year, inspect evaporator side tubes, brush clean as required.
25. At starter check line voltage, wiring tightness and condition, contactors, overloads, transition timer, mechanical interlock and fluid level and condition of overloads.

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26. With main disconnect to starter OPEN dry run control circuit.
27. Check flow switches.
28. Check pneumatic electric switches.
29. Check anti-cycle switches.
30. Check operation of all additional safety controls.
31. Check operation of Chilled Water Temperature Controller.
32. At control panel check, High Pressure Control, Motor Temperature Control, Low Temperature Control, Oil Pressure Control, Oil Temperature Control, solenoid air valve, gauges, all relays, timer and control voltage.
33. Check Vibration analysis once per year.
34. Check customer logs with operator; discuss general operation of chiller/condensing units.
35. Issue report with areas of concern noted, within two weeks of inspection date. Report to include estimated remaining life.

### **Cooling Tower**

#### **Bi-Annual Preventative Maintenance Schedule:**

The successful vendor shall:

1. Record pertinent system temperatures, pressures and electrical readings to determine the existing operating conditions of the system
2. Inspect cooling tower belts, bearings, gears, drive shafts and/or sheaves. Replace worn belt(s), fill oil level(s), as required.
3. Check for proper system water make up. Inspect make-up water valve, clean/repair, as required.
4. Visually inspect cooling tower including distribution basins and heat transfer sections (fill).
5. Check in-line basket and sump strainer, as required. Flush with fresh water.
6. Check water treatment results, visually inspect strainers and fill for evidence of condenser water tube corrosion and/or fouling.
7. At condenser water strainer, open blow down valve to purge.
8. Refill tower and check operation of make-up valve and adjust sump water level.
9. Check customer logs with operator, discuss general operation of tower.
10. Issue report with areas of concern noted, within two weeks of inspection date.

#### **Annual Cooling Tower Service Schedule**

The successful vendor shall:

1. Record pertinent system temperatures, pressures and electrical readings to determine the existing operating conditions of the system.
2. Inspect protective finish.
3. Inspect for corrosion. Clean and repair surface, as required.
4. Lubricate motor bearings and inspect grease lines per manufacturer's recommendations.
5. Check motor starter operation and condition of contacts and connections.
6. Check for excessive noise or vibration.
7. Check condition of mechanical coupling.
8. Inspect and clean thoroughly; fill, inlet louvers and eliminators as required.
9. Inspect water distribution system. Clean nozzles, as required.
10. Check oil level in gear reducer. Add oil as required.
11. Check for/repair basin water leaks.
12. Inspect and tighten loose bolts in framework. Replace, as required.
13. Inspect electrical connections, contactors, relays and operating/safety controls.

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14. Check and adjust condenser water temperature regulator system.
15. Completely clean cooling tower once annually.
16. Fill system after cooling tower has been cleaned.
17. Lubricate the driver and speed reducer.
18. Check bolts attaching mechanical equipment support to the tower as well as those attaching the driver and speed reducer. Make sure that the drive shaft is in place and secure.
19. Inspect fan/blade assembly. Inspect tip clearance, pitch angle and bolt torque. Adjust, as required.
20. Check customer logs with operator discuss general operation of tower.
21. Vibration analysis once per year.
22. Check customer logs with operator, discuss general operation of cooling tower.
23. Issue report with areas of concern noted, within two weeks of inspection date. Report to include estimated remaining life.

**Refrigerant Monitors**

**Quarterly/Annual Refrigerant Monitor Service Schedule:**

The successful vendor shall:

1. Check monitor calibration with appropriate refrigerant.
2. Check the audible and visual alarm system for proper activation and operation.
3. Check refrigerant monitor and all electrical connections.
4. Check the exhaust fan operation for proper activation and operation.
5. Check automatic damper.
6. Clean filters, as applicable.
7. Check customer log with operator, discuss general operation of system.
8. Issue inspection report with areas of concern noted, within two weeks of inspection date.