AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

1. CONTRACT ID CODE	PAGE	OF	PAGES
	1		2

2. AMENDMENT/MODIFICATION NO.	3. EFFECTIVE DATE	4. REQUISITION/PURCHASE REQ. NO.	5. PROJECT NO. *(If applicable)*
0003	See Block 16C	D-9-D9-35-DE-L47 000	

6. ISSUED BY CODE IRS0088

Internal Revenue Service
6009 Oxon Hill Road, Suite 500

Oxon Hill, MD 20745

Saxton III, Ross 202-283-1420

7. ADMINISTERED BY *(If other than Item 6)* CODE

See Item 6

8. NAME AND ADDRESS OF CONTRACTOR *(No. Street, county, State and ZIP: Code)*

TO ALL PROSPECTIVE OFFERORS

CODE FACILITY CODE

(x)	
	9A. AMENDMENT OF SOLICITATION NO. TIRNO-09-R-00018
X	9B. DATED ***(SEE ITEM 11)*** 10/07/2009
	10A. MODIFICATION OF CONTRACT/ORDER NO.
	10B. DATED ***(SEE ITEM 13)***

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

[X] The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers [ ] is extended, [X] is not extended.

Offers must acknowledge receipt of this amendment prior ~~to the hour and date specified in the solicitation or as amended, by one of the following methods~~:

(a) By completing Items 8 and 15, and returning ___3__ copies of the amendment; ~~(b) By acknowledging receipt of this amendment~~ on each copy of the offer submitted; or ~~(c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers.~~ FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATA SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and data specified.

12. ACCOUNTING AND APPROPRIATION DATA *(If required)*

13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS, IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.

(x)	
	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: *(Specify authority)* THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.
	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES *(such as changes in paying office, appropriation date, etc.)* SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).
	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:
	D. OTHER Specify type of modification and authority)

E. IMPORTANT: Contractor [ ] is not, [ ] is required to sign this document and return ____ copies to the issuing office.

14. DESCRIPTION OF AMENDMENT/MODIFICATION *(Organized by UCF section headings, including solicitation/contract subject matter where feasible.)*

This amendment is hereby issued to address additional questions/comments submitted by prospective offerors. This amendment also attaches Attachment B, "Water Treatment Reports" for the Enterprise Computing Center (ECC) in Kearneysville, WVA for the past year. There are no other changes at this time.

Except at provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLE OF SIGNER *(Type or print)*		16A. NAME AND TITLE OF CONTRACTING OFFICER *(Type or print)*	
15B. CONTRACTOR/OFFEROR *(Signature of person authorized to sign)*	15C. DATE SIGNED	16B. UNITED STATES OF AMERICA BY *(Signature of Contracting Officer)*	16C. DATE SIGNED

Additional Questions and Answers: Solicitation TIRNO-09-R-00018

102. Question: I have a question regarding solicitation TIRNO-09-R-00018, Facilities Operation and Maintenance at the Enterprise Computing Center that directly relates to the answers posted in Amendment Two.

The answer to Question 100 states that resumes are needed for ALL proposed positions since all positions required are listed. Does the Government really require resumes for all positions and all staff members? This seems to be a requirement that only the incumbent can meet.

Answer: At a minimum, the Government is requiring the resumes of the following key personnel:

-Project Manager - RESUME REQUIRED
-CMMS Administrator - RESUME REQUIRED
-Shift Supervisor(s) - RESUME REQUIRED
-Safety & Environmental Engineer - RESUME REQUIRED
-Electricians and RUPS/SUPS Technicians - RESUME(S) REQUIRED
-The HVAC and Maintenance Mechanics the Government can accept an employer statement qualifying them to perform the work under those positions. - SELF EXPLANATORY.

56. Please provide copies of water quality test reports for the past year. (REVISED)

Answer: The test reports were not mailed to the requester. They are being provided to prospective offerors through this amendment as Attachment B, "Water Treatment Reports" for the Enterprise Computing Center (ECC) in Kearneysville, WVA. These reports are for both the Main Enterprise Computing Center and the Annex.

1950 Old Gallows Road
Suite 550
Vienna, VA 22182
(703) 506-1960
(703) 506-1957 FAX

Attention- John

C & E Companies Inc. — CHEMICAL & ENGINEERING

1224 W Street, SE
Washington, D.C. 20020
(202) 678-0532
FAX (202) 678-5229

Date 8/3/19 Rep: [illegible]

Company UNICCO - MAIN Phone No.
Street Address
City KEARNEYSVILLE State WV Zip
Plant Copies To BILL, JOHN

BOILER WATER TREATMENT

TEST	MAKE UP	SOFTENED 1	SOFTENED 2	SOFTENED 3	FEED	NO.	NO.	NO.	NO.	NO.	NO.	CONDENSATE	RECOMMENDED LIMITS
pH VALUE													
TOT Alk ppm $CaCO_3$													
P ALK ppm $CaCO_3$													
PHOSPHATE ppm PO_4													
SULFITE ppm SO_3													
CONDUCTIVITY mmhos neut.	801												
TOTAL HARD ppm $CaCO_3$		0	12	6									0-1
EDTA, ppm													

OPERATING DATA	STEAM GENERATION	PRESSURE	FEEDWATER TEMPERATURE	PERCENT RETURNS	TYPE FUEL	REAGENT SUPPLY	TEST LOGS

COOLING WATER TREATMENT

TEST	MAKE UP WATER	COND #1 2 ACTUAL	COND #1 2 LIMITS	ACTUAL	LIMITS	HOT ACTUAL	HOT LIMITS	ACTUAL	LIMITS	CHILL ACTUAL	CHILL LIMITS
pH VALUE		8.9									
Tot ALK ppm$CaCO_3$											
Tot. HARD ppm$CaCO_3$		65									
Conductivity mmhos	801	2082	2000/2200								
Molybdenum ppm Mo+6		1.39	0.5/1.5								
Phosphate ppm PO_4											
Nitrite, ppm $NaNO_2$						925	500/1000			1000+	500/1000

PRODUCT IN USE	PRODUCT SUPPLY	
		Condensers 1+2 show 65 ppm hardness from softeners #2 + 3
		putting out 12 + 6 ppm hardness respectively.
		Condensers #1+2 - Good chemical levels
		Hot + Chill - Good nitrite levels.
		Coupons were removed + re-installed.

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Attention - John

CHEMICAL & ENGINEERING
C & E Companies Inc.

1224 W Street, SE
Washington, D.C. 20020
(202) 678-0532
FAX (202) 678-5229

Date 7/6/09 Rep. [illegible]

Company UNICCO-MAIN Phone No.
Street Address
City KEARNEYSVILLE State WV Zip
Plant Copies To JOHN, BILL

BOILER WATER TREATMENT

TEST	MAKE UP	SOFTENED			FEED	NO.	NO.	NO.	NO.	NO.	NO.	CONDENSATE	RECOMMENDED LIMITS
pH VALUE													
TOT Alk ppm $CaCO_3$													
P ALK ppm $CaCO_3$													
PHOSPHATE ppm PO_4													
SULFITE ppm SO_3													
CONDUCTIVITY mmhos neut.		O/S											
TOTAL HARD ppm $CaCO_3$													
EDTA, ppm													

OPERATING DATA	STEAM GENERATION	PRESSURE	FEEDWATER TEMPERATURE	PERCENT RETURNS	TYPE FUEL	REAGENT SUPPLY	TEST LOGS

COOLING WATER TREATMENT

TEST	MAKE UP WATER	COND # 1				HOT				CHILL	
		ACTUAL	LIMITS	ACTUAL	LIMITS	ACTUAL	LIMITS	ACTUAL	LIMITS	ACTUAL	LIMITS
pH VALUE											
Tot ALK ppm $CaCO_3$											
Tot. HARD ppm $CaCO_3$		80									
Conductivity mmhos		2130	2000/2200								
Molybdenum ppm Mo+6		1.34	0.5/1.5								
Phosphate ppm PO_4											
Nitrite, ppm $NaNO_2$						975	500/1000			1000+	500/1000

PRODUCT IN USE	PRODUCT SUPPLY	
		Softeners are O/S as of 9:00 A.M. this morning. As such the setpoint on the towers was lowered to 1300 mmhos.
		Closed loops - Both hot & chill have good nitrite levels.

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Washington, D.C. 20020
(202) 678-0532
FAX (202) 678-5229

Date 6/1/09 Rep [illegible]

Company UNICCO-MAIN Phone No.
Street Address
City KEARNEYSVILLE State WV Zip
Plant Copies To JOHN, BILL

BOILER WATER TREATMENT

TEST	MAKE UP	SOFTENED A	SOFTENED B	SOFTENED C	FEED	NO.	NO.	NO.	NO.	NO.	NO.	CONDENSATE	RECOMMENDED LIMITS
pH VALUE													
TOT Alk ppm $CaCO_3$													
P ALK ppm $CaCO_3$													
PHOSPHATE ppm PO_4													
SULFITE ppm SO_3													
CONDUCTIVITY mmhos neut.	530		520	522									
TOTAL HARD ppm $CaCO_3$		S/B	0	0									0-1
EDTA, ppm													

OPERATING DATA	STEAM GENERATION	PRESSURE	FEEDWATER TEMPERATURE	PERCENT RETURNS	TYPE FUEL	REAGENT SUPPLY	TEST LOGS

COOLING WATER TREATMENT

TEST	MAKE UP WATER	TOWER ACTUAL	TOWER LIMITS	ACTUAL	LIMITS	HOT ACTUAL	HOT LIMITS	ACTUAL	LIMITS	CHILL ACTUAL	CHILL LIMITS
pH VALUE											
Tot ALK ppm$CaCO_3$											
Tot. HARD ppm$CaCO_3$		130									
Conductivity mmhos		2350	200/2200								
Molybdenum ppm Mo+6		1.28	0.5/1.5								
Phosphate ppm PO_4											
Nitrite, ppm $NaNO_2$						775	500/1000			1000+	500/1000

PRODUCT IN USE	PRODUCT SUPPLY	
		Tower - Conductivity controller was reading a little low
		at 2150 - I calibrated the unit. All other residuals
		are good.
		Closed loops Both nitrite levels are fine.

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Washington, D.C. 20020
(202) 678-0532
FAX (202) 678-5229

Date 5/4/09 Rep [illegible]

Company UNICCO-MAIN Phone No.
Street Address
City KEARNEYSVILLE State WV Zip
Plant Copies To JOHN, BILL

BOILER WATER TREATMENT

TEST	MAKE UP	SOFTENED A	SOFTENED B	SOFTENED C	FEED	NO.	NO.	NO.	NO.	NO.	NO.	CONDENSATE	RECOMMENDED LIMITS
pH VALUE													
TOT Alk ppm $CaCO_3$													
P ALK. ppm $CaCO_3$													
PHOSPHATE ppm PO_4													
SULFITE ppm SO_3													
CONDUCTIVITY mmhos neut.													
TOTAL HARD ppm $CaCO_3$		REG	0	4									0-0.5
EDTA, ppm													

OPERATING DATA	STEAM GENERATION	PRESSURE	FEEDWATER TEMPERATURE	PERCENT RETURNS	TYPE FUEL	REAGENT SUPPLY	TEST LOGS

COOLING WATER TREATMENT

TEST	MAKE UP WATER	Tower ACTUAL	Tower LIMITS	ACTUAL	LIMITS	HOT ACTUAL	HOT LIMITS	ACTUAL	LIMITS	CHILL ACTUAL	CHILL LIMITS
pH VALUE											
Tot ALK ppm $CaCO_3$											
Tot. HARD ppm $CaCO_3$		145									
Conductivity mmhos		2130	900/2000								
Molybdenum ppm Mo+6		1.36	0.5/1.5								
Phosphate ppm PO_4											
Nitrite, ppm $NaNO_2$						950	500/1000			1000+	500/1000

PRODUCT IN USE	PRODUCT SUPPLY	
		Softener C shows 4ppm of hardness in feed.
		Tower showed 145 ppm of hardness after 42ppm last Thursday -
		no salt was added to the brine tank on [illegible] Saturday.
		Hot + chill loops - good nitrites.
		Coupons were extracted & re-inserted.

Attention John

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CHEMICAL & ENGINEERING
C & E Companies Inc.

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(202) 678-0532
FAX (202) 678-5229

Date 4/3/09 Rep. [illegible]

Company UNICCO - MAIN Phone No.
Street Address
City KEARNEYSVILLE State WV Zip
Plant Copies To JOHN, BILL

BOILER WATER TREATMENT

TEST	MAKE UP	SOFTENED 1	SOFTENED 2	SOFTENED 3	FEED	NO.	NO.	NO.	NO.	NO.	NO.	CONDENSATE	RECOMMENDED LIMITS
pH VALUE													
TOT Alk ppm $CaCO_3$													
P ALK ppm $CaCO_3$													
PHOSPHATE ppm PO_4													
SULFITE ppm SO_3													
CONDUCTIVITY mmhos neut.	807												
TOTAL HARD ppm $CaCO_3$	220	0	210	0									0-1
EDTA, ppm													

OPERATING DATA	STEAM GENERATION	PRESSURE	FEEDWATER TEMPERATURE	PERCENT RETURNS	TYPE FUEL	REAGENT SUPPLY	TEST LOGS

COOLING WATER TREATMENT

TEST	MAKE UP WATER	Cond. #1 ACTUAL	Cond. #1 LIMITS	CHILL ACTUAL	CHILL LIMITS	HOT ACTUAL	HOT LIMITS	ACTUAL	LIMITS	ACTUAL	LIMITS
pH VALUE											
Tot ALK ppm $CaCO_3$											
Tot. HARD ppm $CaCO_3$	220	100									
Conductivity mmhos	807	2075	2000/2200								
Molybdenum ppm Mo+6		1.24	0.5/1.5								
Phosphate ppm PO_4											
Nitrite, ppm $NaNO_2$				1000+	500/1000	1000+	500/1000				

PRODUCT IN USE	PRODUCT SUPPLY	
		Condenser #1 - All residuals are good.
		Softeners #1 + #3 - good condition w/ 0 ppm hardness. Softener
		#2 shows 210 ppm hardness - we valved it out/service (O/S).
		Chill + hot loops - good nitrite @ 1000+ ppm.

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Attention - John

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(202) 678-0532
FAX (202) 678-5229

Date 3/9/09 Rep. [illegible]

Company UNICCO-MAIN Phone No.
Street Address
City KEARNEYSVILLE State WV Zip
Plant Copies To JOHN, BILL

BOILER WATER TREATMENT

TEST	MAKE UP	SOFTENED A	SOFTENED B	SOFTENED C	FEED	NO.	NO.	NO.	NO.	NO.	NO.	CONDENSATE	RECOMMENDED LIMITS
pH VALUE													
TOT Alk ppm $CaCO_3$													
P ALK. ppm $CaCO_3$													
PHOSPHATE ppm PO_4													
SULFITE ppm SO_3		0/S	0/S	0/S									
CONDUCTIVITY mmhos neut.													
TOTAL HARD ppm $CaCO_3$													
EDTA, ppm													

OPERATING DATA	STEAM GENERATION	PRESSURE	FEEDWATER TEMPERATURE	PERCENT RETURNS	TYPE FUEL	REAGENT SUPPLY	TEST LOGS

COOLING WATER TREATMENT

TEST	MAKE UP WATER	COND #1 ACTUAL	COND #1 LIMITS	ACTUAL	LIMITS	HOT ACTUAL	HOT LIMITS	ACTUAL	LIMITS	CHILL ACTUAL	CHILL LIMITS
pH VALUE		8.9									
Tot ALK ppm$CaCO_3$		670/140									
Tot. HARD ppm$CaCO_3$		1020									
Conductivity mmhos		2195	2000/2200								
Molybdenum ppm Mo+6		1.44	0.5/1.5								
Phosphate ppm PO_4											
Nitrite, ppm $NaNO_2$						875	500/1000			1100+	500/1000

PRODUCT IN USE	PRODUCT SUPPLY	
		Softeners are all O/S - software is being updated.
		Condenser #1 - Please lower the conductivity to 1200 to avoid
		scaling while the softener software is being updated.
		Hot + chill chemicals - good nitrite residuals.

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Attention: John

C & E Companies Inc.
CHEMICAL & ENGINEERING

1224 W Street, SE
Washington, D.C. 20020
(202) 678-0532
FAX (202) 678-5239

Date 2/9/07 Rep. [illegible]

Company UNICCO-MAIN
Street Address
Phone No.
City KEARNEYSVILLE State
Zip
Plant Copies To BILL, JOHN

BOILER WATER TREATMENT

TEST	MAKE UP	SOFTENED A	SOFTENED B	SOFTENED C	FEED	NO.	NO.	NO.	NO.	NO.	NO.	CONDENSATE	RECOMMENDED LIMITS
pH VALUE													
TOT Alk ppm $CaCO_3$													
P ALK. ppm $CaCO_3$													
PHOSPHATE ppm PO_4													
SULFITE ppm SO_3													
CONDUCTIVITY mmhos neut.													
TOTAL HARD ppm $CaCO_3$	375	0	200										
EDTA, ppm													

OPERATING DATA	STEAM GENERATION	PRESSURE	FEEDWATER TEMPERATURE	PERCENT RETURNS	TYPE FUEL	REAGENT SUPPLY	TEST LOGS

COOLING WATER TREATMENT

TEST	MAKE UP WATER	COND #1 ACTUAL	COND #1 LIMITS	CHILL ACTUAL	CHILL LIMITS	HOT ACTUAL	HOT LIMITS	ACTUAL	LIMITS	ACTUAL	LIMITS
pH VALUE		8.9									
Tot ALK ppm $CaCO_3$											
Tot. HARD ppm $CaCO_3$	90	50									
Conductivity mmhos	800	1740	2000/2000								
Molybdenum ppm Mo^{+6}		1.44	0.5/1.5								
Phosphate ppm PO_4											
Nitrite, ppm $NaNO_2$				1000+	500/1000	925	500/1000				

PRODUCT IN USE	PRODUCT SUPPLY	
		B Softener shows 200ppm hardness - it was worked on over the weekend.
		Condensate - TDS is a little low - we calibrated the hand held tester and controller.
		Chill + hot loops - good nitrite levels
		Coupons were removed + re-inserted.

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(703) 506-1960
(703) 506-1957 FAX

Attention - John

C & E Companies Inc.
CHEMICAL & ENGINEERING

1224 W Street, SE
Washington, D.C. 20020
(202) 678-0532
FAX (202) 678-5229

Date 1/5/09 Rep. [illegible]

Company UNICCO-MAIN Phone No.
Street Address
City KEARNEYSVILLE State WV Zip
Plant Copies To JOHN, BILL

BOILER WATER TREATMENT

TEST	MAKE UP	SOFTENED 1	SOFTENED 2	SOFTENED 3	FEED	NO.	NO.	NO.	NO.	NO.	NO.	CONDENSATE	RECOMMENDED LIMITS
pH VALUE													
TOT Alk ppm $CaCO_3$													
P ALK ppm $CaCO_3$													
PHOSPHATE ppm PO_4													
SULFITE ppm SO_3													
CONDUCTIVITY mmhos neut.	790	790	5/13	5/13									
TOTAL HARD ppm $CaCO_3$		0											0-0.5
EDTA, ppm													

OPERATING DATA	STEAM GENERATION	PRESSURE	FEEDWATER TEMPERATURE	PERCENT RETURNS	TYPE FUEL	REAGENT SUPPLY	TEST LOGS

COOLING WATER TREATMENT

TEST	MAKE UP WATER	COND #1 ACTUAL	COND #1 LIMITS	HOT ACTUAL	HOT LIMITS	CHILL ACTUAL	CHILL LIMITS	ACTUAL	LIMITS	ACTUAL	LIMITS
pH VALUE		8.8									
Tot ALK ppm$CaCO_3$		630	150								
Tot. HARD ppm$CaCO_3$		460									
Conductivity mmhos		1910	2000/3200								
Molybdenum ppm Mo+6		1.63	0.5/1.5								
Phosphate ppm PO_4											
Nitrite, ppm $NaNO_2$				975	500/1000	1000+	500/1000				

PRODUCT IN USE	PRODUCT SUPPLY	
		Condenser #1 - Very high hardness levels either incorrect control settings or too low brine addition. Towers were PM'd last week but should have been filled w/ soft water - please monitor.
		Hot & chill - good nitrites.

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Attention - John

C & E Companies Inc. — CHEMICAL & ENGINEERING

1224 W Street, SE
Washington, D.C. 20020
(202) 678-0532
FAX (202) 678-5229

Date 12/1/08 Rep. [illegible]

Company UNICCO-MAIN Phone No.
Street Address
City KEARNEYSVILLE State WV Zip
Plant Copies To JOHN, BILL

BOILER WATER TREATMENT

TEST	MAKE UP	SOFTENED			FEED	NO.	NO.	NO.	NO.	NO.	NO.	CONDENSATE	RECOMMENDED LIMITS
pH VALUE													
TOT Alk ppm $CaCO_3$													
P ALK ppm $CaCO_3$													
PHOSPHATE ppm PO_4													
SULFITE ppm SO_3													
CONDUCTIVITY mmhos neut.													
TOTAL HARD ppm $CaCO_3$													
EDTA, ppm													

OPERATING DATA	STEAM GENERATION	PRESSURE	FEEDWATER TEMPERATURE	PERCENT RETURNS	TYPE FUEL	REAGENT SUPPLY	TEST LOGS

COOLING WATER TREATMENT

TEST	MAKE UP WATER	MAIN Tower				CLOSED CHILL				CLOSED HOT	
		ACTUAL	LIMITS	ACTUAL	LIMITS	ACTUAL	LIMITS	ACTUAL	LIMITS	ACTUAL	LIMITS
pH VALUE		8.9									
Tot ALK ppm $CaCO_3$ / P		180/130									
Tot. HARD ppm $CaCO_3$		160									
Conductivity mmhos		2180	2000/2200								
Molybdenum ppm Mo+6		1.45	0.5/1.5								
Phosphate ppm PO_4											
Nitrite, ppm $NaNO_2$						1025	500/1000			950	500/1000

PRODUCT IN USE	PRODUCT SUPPLY	
		Tower - All readings are fine.
		Closed loops - Nitrite levels are fine.

1950 Old Gallows Road
Suite 550
Vienna, VA 22182

C&E Services, Inc.

OFC (703) 506-1960
FAX (703) 506-1957

December 22, 2008

UNICCO
250 Murall Drive
Kearneysville, WV 25430
Attn: John Schilling, Project Manager

Dear John:

Below are the latest corrosion coupon results for the coupons extracted on November 3, 2008. All of the results are well in the excellent to acceptable range. Our target range for the closed loops is less than 0.1 mil/year (mpy) or less on copper and less than 0.2 mpy on mild steel. The condenser ranges for mild steel are 0-2 mpy, which is excellent, and/or 2-5 mpy. As you can see, all of the results are well below the standard values, which is great! In summary, all of the corrosion rates are very acceptable. Our thanks to Bill Bishop who is responsible for the implementation of the program.

Serial # copper	Exposure days	Initial weight	Final weight	Result (MPY) mils per year
B0948/Main Condenser	91	13.3852	13.3621	0.5674900
B0949/Main Hot	91	13.3208	13.31	0.2653200
B0950/Main Chill	91	13.3174	13.3157	<0.1
B0962/Main Process	91	13.3568	13.3575	<0.1
B0963/Annex Hot	91	13.343	13.3485	<0.1
B0964/Annex Condenser	91	13.3434	13.3457	<0.1
B0965/Annex Chill	91	13.3228	13.3219	<0.1

Serial # steel	Exposure days	Initial weight	Final weight	Result (MPY) Mils per year
A60845/Main Chill	91	10.5536	10.5569	<0.1
A80646/Main Process	91	10.528	10.5383	<0.1
A60847/Annex Hot	91	10.5449	10.5165	0.2577846
A60848/Annex Condenser	91	10.5542	10.4483	0.9612462
A60849/Annex Chill	91	10.5888	10.5853	<0.1
A60874/Main Hot	91	10.5609	10.5584	<0.1
A60875/Main Condenser	91	10.5235	10.4607	0.5700308

If you have any further questions, please call anytime @ 703-929-8672.

Thank you,

Jim Roenick

1950 Old Gallows Road
Suite 550
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(703) 506-1957 FAX

Attention: John

C & E Companies Inc. — Chemical & Engineering

1224 W Street, SE
Washington, D.C. 20020
(202) 678-0532
FAX (202) 678-5229

Date 11/3/08 Rep. [illegible]

Company UNICCO - MAIN Phone No.
Street Address
City KEARNEYSVILLE State WV Zip
Plant Copies To JOHN, BILL

BOILER WATER TREATMENT

TEST	MAKE UP	SOFTENED			FEED	NO.	NO.	NO.	NO.	NO.	NO.	CONDENSATE	RECOMMENDED LIMITS
			B										
pH VALUE													
TOT Alk ppm $CaCO_3$													
P ALK ppm $CaCO_3$													
PHOSPHATE ppm PO_4													
SULFITE ppm SO_3													
CONDUCTIVITY mmhos neut.													
TOTAL HARD ppm $CaCO_3$			0										
EDTA, ppm													

OPERATING DATA	STEAM GENERATION	PRESSURE	FEEDWATER TEMPERATURE	PERCENT RETURNS	TYPE FUEL	REAGENT SUPPLY	TEST LOGS

COOLING WATER TREATMENT

TEST	MAKE UP WATER	COND #1		CHILL		HOT					
		ACTUAL	LIMITS	ACTUAL	LIMITS	ACTUAL	LIMITS	ACTUAL	LIMITS	ACTUAL	LIMITS
pH VALUE		8.9									
Tot ALK ppm$CaCO_3$											
Tot. HARD ppm$CaCO_3$											
Conductivity mmhos		2086	200/220								
Molybdenum ppm Mo+6		1.14	0.5/1.5								
Phosphate ppm PO_4											
Nitrite, ppm $NaNO_2$				1025	500/1000	975	500/1000				

PRODUCT IN USE	PRODUCT SUPPLY	
		Softener "B" is good quality w/ 0 ppm hardness.
		Cooling - All residuals are fine.
		Closed loops nitrite levels are fine.
		Coupons were removed + re-inserted.

Attn: John

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CHEMICAL & ENGINEERING
C & E Companies Inc.

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(202) 678-0532
FAX (202) 678-5229

Date 10/6/08 Rep. [signature]

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BOILER WATER TREATMENT

TEST	MAKE UP	SOFTENED B			FEED	NO.	NO.	NO.	NO.	NO.	NO.	CONDENSATE	RECOMMENDED LIMITS
pH VALUE													
TOT Alk ppm $CaCO_3$													
P ALK. ppm $CaCO_3$													
PHOSPHATE ppm PO_4													
SULFITE ppm SO_3													
CONDUCTIVITY mmhos neut.													
TOTAL HARD ppm $CaCO_3$			0										
EDTA, ppm													

OPERATING DATA	STEAM GENERATION	PRESSURE	FEEDWATER TEMPERATURE	PERCENT RETURNS	TYPE FUEL	REAGENT SUPPLY	TEST LOGS

COOLING WATER TREATMENT

TEST	MAKE UP WATER	COND #1				CHILL				HOT	
		ACTUAL	LIMITS	ACTUAL	LIMITS	ACTUAL	LIMITS	ACTUAL	LIMITS	ACTUAL	LIMITS
pH VALUE		8.9									
Tot ALK ppm$CaCO_3$		780/180									
Tot. HARD ppm$CaCO_3$		120									
Conductivity mmhos	697	2080	2000/2200								
Molybdenum ppm Mo+6		1.34	0.5/1.5								
Phosphate ppm PO_4											
Nitrite, ppm $NaNO_2$						1000+	500/1000			1000+	500/1000

PRODUCT IN USE	PRODUCT SUPPLY	
		B softener - good quality.
		Condenser #1 - All residuals are fine.
		Chill + hot closed loops. Nitrite residuals are fine @
		>1,000 ppm.

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BOILER WATER TREATMENT

TEST	MAKE UP	SOFTENED 2			FEED	NO.	NO.	NO.	NO.	NO.	NO.	CONDENSATE	RECOMMENDED LIMITS
pH VALUE													
TOT Alk ppm $CaCO_3$													
P ALK. ppm $CaCO_3$													
PHOSPHATE ppm PO_4													
SULFITE ppm SO_3													
CONDUCTIVITY mmhos neut.			632										
TOTAL HARD ppm $CaCO_3$			0										
EDTA, ppm													

OPERATING DATA	STEAM GENERATION	PRESSURE	FEEDWATER TEMPERATURE	PERCENT RETURNS	TYPE FUEL	REAGENT SUPPLY	TEST LOGS

COOLING WATER TREATMENT

TEST	MAKE UP WATER	COND #4		HOT		CHILL					
		ACTUAL	LIMITS	ACTUAL	LIMITS	ACTUAL	LIMITS	ACTUAL	LIMITS	ACTUAL	LIMITS
pH VALUE		8.9									
Tot ALK ppm$CaCO_3$		750/150									
Tot. HARD ppm$CaCO_3$		170									
Conductivity mmhos		2250	2000/2200								
Molybdenum ppm Mo+6		1.61	0.5/1.5								
Phosphate ppm PO_4											
Nitrite, ppm $NaNO_2$				725	500/1000	1025	500/1000				

PRODUCT IN USE	PRODUCT SUPPLY	
		Hardness in the tower is a little high - the tower was filled with well water + not soft water. It is coming down from a high hardness of 1700. All other tower levels are fine.
		Hot - chill loops - Good nitrite residuals.

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BOILER WATER TREATMENT

TEST	MAKE UP	SOFTENED A	SOFTENED B	FEED	NO.	NO.	NO.	NO.	NO.	NO.	CONDENSATE	RECOMMENDED LIMITS
pH VALUE												
TOT Alk ppm $CaCO_3$												
P ALK. ppm $CaCO_3$												
PHOSPHATE ppm PO_4												
SULFITE ppm SO_3												
CONDUCTIVITY mmhos neut.	801											
TOTAL HARD ppm $CaCO_3$		0	0									0-0.5
EDTA, ppm												

OPERATING DATA	STEAM GENERATION	PRESSURE	FEEDWATER TEMPERATURE	PERCENT RETURNS	TYPE FUEL	REAGENT SUPPLY	TEST LOGS

COOLING WATER TREATMENT

TEST	MAKE UP WATER	COND #3 ACTUAL	COND #3 LIMITS	ACTUAL	LIMITS	CHILL ACTUAL	CHILL LIMITS	ACTUAL	LIMITS	ACTUAL	LIMITS
pH VALUE											
Tot ALK ppm$CaCO_3$											
Tot. HARD ppm$CaCO_3$		2									
Conductivity mmhos	801	2225	2000/2200								
Molybdenum ppm Mo+6		1.21	0.5/1.5								
Phosphate ppm PO_4											
Nitrite, ppm $NaNO_2$						1000+	500/1000				

PRODUCT IN USE	PRODUCT SUPPLY	
		Softener #1 & #2 - Good quality w/0 ppm hardness.
		Condenser #3 - All readings are OK.
		Chill - Good Nitrite @ 1000+ ppm.
		Coupons were removed & re-installed.

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BOILER WATER TREATMENT

TEST	MAKE UP	SOFTENED 1		SOFTENED 2	FEED	NO.	NO.	NO.	NO.	NO.	NO.	CONDENSATE	RECOMMENDED LIMITS
pH VALUE													
TOT Alk ppm $CaCO_3$													
P ALK. ppm $CaCO_3$													
PHOSPHATE ppm PO_4													
SULFITE ppm SO_3													
CONDUCTIVITY mmhos neut.													
TOTAL HARD ppm $CaCO_3$		0		0									
EDTA, ppm													

OPERATING DATA	STEAM GENERATION	PRESSURE	FEEDWATER TEMPERATURE	PERCENT RETURNS	TYPE FUEL	REAGENT SUPPLY	TEST LOGS

COOLING WATER TREATMENT

TEST	MAKE UP WATER			COND #2				CHILL			
		ACTUAL	LIMITS	ACTUAL	LIMITS	ACTUAL	LIMITS	ACTUAL	LIMITS	ACTUAL	LIMITS
pH VALUE											
Tot ALK ppm$CaCO_3$											
Tot. HARD ppm$CaCO_3$				0							
Conductivity mmhos	720			2230	2000/2200						
Molybdenum ppm Mo+6				1.21	0.5/1.5						
Phosphate ppm PO_4											
Nitrite, ppm $NaNO_2$								1000+	500/1000		

PRODUCT IN USE	PRODUCT SUPPLY	
		Both softeners are soft.
		Condenser #2 - All readings are fine.
		chill. Good nitrite @ 1000+ ppm.

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BOILER WATER TREATMENT

TEST	MAKE UP	SOFTENED 1	SOFTENED 2	FEED	NO.	NO.	NO.	NO.	NO.	NO.	CONDENSATE	RECOMMENDED LIMITS
pH VALUE												
TOT Alk ppm $CaCO_3$												
P ALK ppm $CaCO_3$												
PHOSPHATE ppm PO_4												
SULFITE ppm SO_3												
CONDUCTIVITY mmhos neut.		540	538									
TOTAL HARD ppm $CaCO_3$		0	0									0-1
EDTA, ppm												

OPERATING DATA	STEAM GENERATION	PRESSURE	FEEDWATER TEMPERATURE	PERCENT RETURNS	TYPE FUEL	REAGENT SUPPLY	TEST LOGS

COOLING WATER TREATMENT

TEST	MAKE UP WATER	COND #1 ACTUAL	COND #1 LIMITS	ACTUAL	LIMITS	CHILL ACTUAL	CHILL LIMITS	ACTUAL	LIMITS	HOT ACTUAL	HOT LIMITS
pH VALUE											
Tot ALK ppm$CaCO_3$											
Tot. HARD ppm$CaCO_3$		15									
Conductivity mmhos		2040	2000/2200								
Molybdenum ppm Mo+6		1.43	0.5/1.5								
Phosphate ppm PO_4											
Nitrite, ppm $NaNO_2$						1000+	500/1000			975	500/1000

PRODUCT IN USE	PRODUCT SUPPLY	
		Softeners 1+2 - good quality w/ Ø ppm hardness.
		Condenser #1 - All residuals are very good.
		Closed hot - chill - Good nitrite levels.

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BOILER WATER TREATMENT

TEST	MAKE UP	SOFTENED 1		SOFTENED 2	FEED	NO.	NO.	NO.	NO.	NO.	NO.	CONDENSATE	RECOMMENDED LIMITS
pH VALUE													
TOT Alk ppm $CaCO_3$													
P ALK. ppm $CaCO_3$													
PHOSPHATE ppm PO_4													
SULFITE ppm SO_3													
CONDUCTIVITY mmhos neut.													
TOTAL HARD ppm $CaCO_3$		0		0									0 - 0.5
EDTA, ppm													

OPERATING DATA	STEAM GENERATION	PRESSURE	FEEDWATER TEMPERATURE	PERCENT RETURNS	TYPE FUEL	REAGENT SUPPLY	TEST LOGS

COOLING WATER TREATMENT

TEST	MAKE UP WATER	COND #3				CHILL				HOT	
		ACTUAL	LIMITS	ACTUAL	LIMITS	ACTUAL	LIMITS	ACTUAL	LIMITS	ACTUAL	LIMITS
pH VALUE		8.9									
Tot ALK ppm$CaCO_3$											
Tot. HARD ppm$CaCO_3$		0									
Conductivity mmhos		2110	2000/2500								
Molybdenum ppm Mo+6		1.35	0.5/1.5								
Phosphate ppm PO_4											
Nitrite, ppm $NaNO_2$						1000+	500/1000			1000+	500/1000

PRODUCT IN USE	PRODUCT SUPPLY	
		Softeners #1-2 show excellent quality w/ 0 ppm hardness.
		Condenser #3 - All residuals are very good - 0 ppm hardness in the condenser water.
		Chill - hot loops - good nitrite @ 1000+ ppm.
		Coupons were extracted & re-inserted.

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Attention John

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Date 4/3/09 Rep. Jon Koenick

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BOILER WATER TREATMENT

TEST	MAKE UP	SOFTENED 1		SOFTENED 2	FEED	NO.	NO.	NO.	NO.	NO.	NO.	CONDENSATE	RECOMMENDED LIMITS
pH VALUE													
TOT Alk ppm $CaCO_3$													
P ALK. ppm $CaCO_3$													
PHOSPHATE ppm PO_4													
SULFITE ppm SO_3													
CONDUCTIVITY mmhos neut.	805												
TOTAL HARD ppm $CaCO_3$	220	0		0									0 - 1
EDTA, ppm													

OPERATING DATA	STEAM GENERATION	PRESSURE	FEEDWATER TEMPERATURE	PERCENT RETURNS	TYPE FUEL	REAGENT SUPPLY	TEST LOGS

COOLING WATER TREATMENT

TEST	MAKE UP WATER	COND #3 ACTUAL	COND #3 LIMITS	ACTUAL	LIMITS	CHILL ACTUAL	CHILL LIMITS	ACTUAL	LIMITS	HOT ACTUAL	HOT LIMITS
pH VALUE											
Tot ALK ppm $CaCO_3$											
Tot. HARD ppm $CaCO_3$	220	30									
Conductivity mmhos	805	2150	2000/220								
Molybdenum ppm Mo+6	~~220~~	1.05	0.5-1.5								
Phosphate ppm PO_4											
Nitrite, ppm $NaNO_2$						1000+	500/1000			1000+	500/1000

PRODUCT IN USE	PRODUCT SUPPLY	
		Softeners 1 & 2 show good quality w/ 0 ppm hardness.
		Condenser #3 - All residuals are fine
		Chill & hot loops - Good nitrite @ 1000+ ppm in each system

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Date 3/9/09 Rep

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BOILER WATER TREATMENT

TEST	MAKE UP	SOFTENED 1		SOFTENED 2	FEED	NO.	NO.	NO.	NO.	NO.	NO.	CONDENSATE	RECOMMENDED LIMITS
pH VALUE													
TOT Alk ppm $CaCO_3$													
P ALK ppm $CaCO_3$													
PHOSPHATE ppm PO_4													
SULFITE ppm SO_3													
CONDUCTIVITY mmhos neut.													
TOTAL HARD ppm $CaCO_3$		0		0									0-0.5
EDTA, ppm													

OPERATING DATA	STEAM GENERATION	PRESSURE	FEEDWATER TEMPERATURE	PERCENT RETURNS	TYPE FUEL	REAGENT SUPPLY	TEST LOGS

COOLING WATER TREATMENT

TEST	MAKE UP WATER	COND #2				HOT				CHILL	
		ACTUAL	LIMITS	ACTUAL	LIMITS	ACTUAL	LIMITS	ACTUAL	LIMITS	ACTUAL	LIMITS
pH VALUE		8.9									
Tot ALK ppm$CaCO_3$		690/140									
Tot. HARD ppm$CaCO_3$		30									
Conductivity mmhos		2230	2000/2200								
Molybdenum ppm Mo+6		1.21	0.5/1.5								
Phosphate ppm PO_4											
Nitrite, ppm $NaNO_2$						1000+	500/1000			1500+	500/1000

PRODUCT IN USE	PRODUCT SUPPLY	
		Condenser #2 - All residuals are fine.
		Softeners - Both softeners are soft
		Hot + chill - Both systems contain over 1000+ ppm nitrite.

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BOILER WATER TREATMENT

TEST	MAKE UP	SOFTENED 1		SOFTENED 2	FEED	NO.	NO.	NO.	NO.	NO.	NO.	CONDENSATE	RECOMMENDED LIMITS
pH VALUE													
TOT Alk ppm $CaCO_3$													
P ALK. ppm $CaCO_3$													
PHOSPHATE ppm PO_4													
SULFITE ppm SO_3													
CONDUCTIVITY mmhos neut.													
TOTAL HARD ppm $CaCO_3$		0		0									
EDTA, ppm													

OPERATING DATA	STEAM GENERATION	PRESSURE	FEEDWATER TEMPERATURE	PERCENT RETURNS	TYPE FUEL	REAGENT SUPPLY	TEST LOGS

COOLING WATER TREATMENT

TEST	MAKE UP WATER	COND #3 ACTUAL	COND #3 LIMITS	HOT ACTUAL	HOT LIMITS	CHILL ACTUAL	CHILL LIMITS	ACTUAL	LIMITS	ACTUAL	LIMITS
pH VALUE											
Tot ALK ppm $CaCO_3$											
Tot. HARD ppm $CaCO_3$		260	<100								
Conductivity mmhos		2200	2000/2200								
Molybdenum ppm Mo+6		1.53	0.5/1.5								
Phosphate ppm PO_4											
Nitrite, ppm $NaNO_2$				1000+	500/1000	975	500/1000				

PRODUCT IN USE	PRODUCT SUPPLY	
		Condenser #3 - Hardness is high but softeners are soft now. I suspect overrunk when it is not seen - we raised the inlet hardness setting from 25 to 40.
		Closed hot + chill loops - good nitrite levels.
		Coupons were extracted + re-inserted.

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BOILER WATER TREATMENT

TEST	MAKE UP	SOFTENED			FEED	NO.	NO.	NO.	NO.	NO.	NO.	CONDENSATE	RECOMMENDED LIMITS
pH VALUE													
TOT Alk ppm $CaCO_3$													
P ALK. ppm $CaCO_3$													
PHOSPHATE ppm PO_4													
SULFITE ppm SO_3													
CONDUCTIVITY mmhos neut.													
TOTAL HARD ppm $CaCO_3$													
EDTA, ppm													

OPERATING DATA	STEAM GENERATION	PRESSURE	FEEDWATER TEMPERATURE	PERCENT RETURNS	TYPE FUEL	REAGENT SUPPLY	TEST LOGS

COOLING WATER TREATMENT

TEST	MAKE UP WATER	COND #2 ACTUAL	COND #2 LIMITS	CHILL ACTUAL	CHILL LIMITS	HOT ACTUAL	HOT LIMITS	ACTUAL	LIMITS	ACTUAL	LIMITS
pH VALUE		8.9									
Tot ALK ppm$CaCO_3$		640/120									
Tot. HARD ppm$CaCO_3$		240									
Conductivity mmhos		2137	2000/2200								
Molybdenum ppm Mo+6		1.69	0.5/1.5								
Phosphate ppm PO_4											
Nitrite, ppm $NaNO_2$				975	500/1000	1000+	500/1000				

PRODUCT IN USE	PRODUCT SUPPLY	
		Condenser # 2 - New softeners are installed but need to be adjusted because hardness is higher than normal @ 240 ppm. We raised the hardness grainage from 30-35 gr. Please get Model # for salt dosage.
		Chill - hot - Good nitrite levels.

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Date 12/1/2008 Rep [signature]

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BOILER WATER TREATMENT

TEST	MAKE UP	SOFTENED A		SOFTENED B	FEED	NO.	NO.	NO.	NO.	NO.	NO.	CONDENSATE	RECOMMENDED LIMITS
pH VALUE													
TOT Alk ppm $CaCO_3$													
P ALK. ppm $CaCO_3$													
PHOSPHATE ppm PO_4		O/S											
SULFITE ppm SO_3													
CONDUCTIVITY mmhos neut.	763	S/B		700									
TOTAL HARD ppm $CaCO_3$		31		0									
EDTA, ppm													

OPERATING DATA	STEAM GENERATION	PRESSURE	FEEDWATER TEMPERATURE	PERCENT RETURNS	TYPE FUEL	REAGENT SUPPLY	TEST LOGS

COOLING WATER TREATMENT

TEST	MAKE UP WATER	TOWER ACTUAL	TOWER LIMITS	ACTUAL	LIMITS	HOT ACTUAL	HOT LIMITS	ACTUAL	LIMITS	CHILL ACTUAL	CHILL LIMITS
pH VALUE		8.5									
Tot ALK ppm $CaCO_3$		570/100									
Tot. HARD ppm $CaCO_3$		50									
Conductivity mmhos	763	1730	2000/2200								
Molybdenum ppm Mo+6		0.26	0.5/1.5								
Phosphate ppm PO_4											
Nitrite, ppm $NaNO_2$						825	500/1000			960	500/1000

PRODUCT IN USE	PRODUCT SUPPLY	
		Tower - The controller lost its flow over the last week.
		The circ line is stopped up - it will be cleared out
		today. All residuals are off b/c of the line blockage
		Hot - chill - Good nitrite levels.

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BOILER WATER TREATMENT

TEST	MAKE UP	SOFTENED A		SOFTENED B	FEED	NO.	NO.	NO.	NO.	NO.	NO.	CONDENSATE	RECOMMENDED LIMITS
pH VALUE													
TOT Alk ppm $CaCO_3$													
~~P ALK~~ ppm $CaCO_3$													
PHOSPHATE ppm PO_4													
SULFITE ppm SO_3													
CONDUCTIVITY mmhos neut.		730		733									
TOTAL HARD ppm $CaCO_3$		0		0									
EDTA, ppm													

OPERATING DATA	STEAM GENERATION	PRESSURE	FEEDWATER TEMPERATURE	PERCENT RETURNS	TYPE FUEL	REAGENT SUPPLY	TEST LOGS

COOLING WATER TREATMENT

TEST	MAKE UP WATER	COND #3 ACTUAL	COND #3 LIMITS	HOT ACTUAL	HOT LIMITS	CHILL ACTUAL	CHILL LIMITS	ACTUAL	LIMITS	ACTUAL	LIMITS
pH VALUE											
Tot ALK ppm $CaCO_3$		734	170								
Tot. HARD ppm $CaCO_3$		118									
Conductivity mmhos	730	2100	2000/2200								
Molybdenum ppm Mo+6		1.26	0.5/1.5								
Phosphate ppm PO_4											
Nitrite, ppm $NaNO_2$				975	500/1000	875	500/1000				

PRODUCT IN USE	PRODUCT SUPPLY	
		New softeners installed & working fine.
		Condenser #3 - All residuals are OK. Hardness is higher than usual because softeners were O/S for replacement for 2 weeks.
		Closed loops are fine.
		Coupons were pulled & re-inserted.

Attention - John

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BOILER WATER TREATMENT

TEST	MAKE UP	SOFTENED 1		SOFTENED 2	FEED	NO.	NO.	NO.	NO.	NO.	NO.	CONDENSATE	RECOMMENDED LIMITS
pH VALUE													
TOT Alk ppm $CaCO_3$													
P ALK ppm $CaCO_3$													
PHOSPHATE ppm PO_4													
SULPHITE ppm SO_3													
CONDUCTIVITY mmhos neut.													
TOTAL HARD ppm $CaCO_3$		0		REGN									

OPERATING DATA	STEAM GENERATION	PRESSURE	FEEDWATER TEMPERATURE	PERCENT RETURNS	TYPE FUEL	REAGENT SUPPLY	TEST LOGS

COOLING WATER TREATMENT

TEST	MAKE UP WATER	COND #3 ACTUAL	COND #3 LIMITS	CHILL ACTUAL	CHILL LIMITS	HOT ACTUAL	HOT LIMITS	ACTUAL	LIMITS	ACTUAL	LIMITS
pH VALUE		8.9									
Tot ALK ppm$CaCO_3$		740/150									
Tot. HARD ppm$CaCO_3$		40									
Conductivity mmhos		2053	200/2200								
Molybdate ppm MoO_4		1.54	0.5/1.5								
Phosphate ppm PO_4											
NITRITE				1000+	500/1000	1000+	500/1000				

PRODUCT IN USE	PRODUCT SUPPLY	
		CONDENSER #3 ALL RESIDUALS ARE FINE.
		CHILL - HOT CLOSED LOOPS NITRITES ARE FINE @ 1000+
		PPM.

1950 Old Gallows Road
Suite 550
Vienna, VA 22182
(703) 506-1960
(703) 506-1957 FAX

Attention John

C & E Companies Inc.
CHEMICAL & ENGINEERING

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Washington, D.C. 20020
(202) 678-0532
FAX (202) 678-5229

Date 9/8/08 Rep. [illegible]

Company UNICCO - ANNEX Phone No.
Street Address
City KEARNEYSVILLE State WV Zip
Plant Copies To JOHN, BILL

BOILER WATER TREATMENT

TEST	MAKE UP	SOFTENED A	SOFTENED B	FEED	NO.	NO.	NO.	NO.	NO.	NO.	CONDENSATE	RECOMMENDED LIMITS
pH VALUE												
TOT Alk ppm $CaCO_3$												
P ALK. ppm $CaCO_3$												
PHOSPHATE ppm PO_4												
SULFITE ppm SO_3												
CONDUCTIVITY mmhos neut.	630											
TOTAL HARD ppm $CaCO_3$		0	REGN									
EDTA, ppm												

OPERATING DATA	STEAM GENERATION	PRESSURE	FEEDWATER TEMPERATURE	PERCENT RETURNS	TYPE FUEL	REAGENT SUPPLY	TEST LOGS

COOLING WATER TREATMENT

TEST	MAKE UP WATER	COND #1 ACTUAL	COND #1 LIMITS	CHILL ACTUAL	CHILL LIMITS	HOT ACTUAL	HOT LIMITS	ACTUAL	LIMITS	ACTUAL	LIMITS
pH VALUE		8.8									
Tot ALK ppm$CaCO_3$		680/130									
Tot. HARD ppm$CaCO_3$		44									
Conductivity mmhos		2085	2000/200								
Molybdenum ppm Mo+6		1.25	0.5/1.5								
Phosphate ppm PO_4											
Nitrite, ppm $NaNO_2$				875	500/1000	0/5					

PRODUCT IN USE	PRODUCT SUPPLY	
		Softener is soft. B softener is in regen.
		Condenser #1 - All residuals are fine.
		Chill - Good nitrite @ 875 ppm