

Date: November 17, 2023

To: All Vendors

Subject: Addendum #1

REFERENCE: P015-24 Substation Power Transformer & LTC Field Service to Remove, Dispose, & Retro-fill Corrosive Oil

This Addendum forms part of the contract and clarifies, corrects or modifies original proposal document.

**Question 1**: Do you need pre-testing to check the conditions of the insulation and post-testing to ensure the job was completed correctly from these transformers?

**Answer 1**: No, this will be done in-house.

**Question 2**: Please provide a copy of the DGA data, so that we can see baseline oil conditions for each transformer before removing oil.

**Answer 8**: The latest oil analysis was done in June 2023. See attachments.

The signature of the company agent, for the acknowledgement of this addendum, shall be required. Complete information below and return via e-mail to: hlopez@brownsville-pub.com and to dsolitaire@brownsville-pub.com.

I hereby acknowledg	receipt of this addendum.	
Company:		
Agent Name:		
Agent Signature:		
Address:		

City:	State:	Zip:	
Phone Number:	E-mail a	ddress:	_
If you have any further que	estions about the Prop	posal, call 956-983-6375.	
Hugo E. Lopez			
BY: Hugo E. Lopez Purchasing			

**DATE** SERVICE 05/16/23 RETROFILL

TC# 312



 Customer
 9554000 Brownsville Public Utilities
 City
 Brownsville, TX
 Location
 OUTDOOR/GROUND

 Sub-Name
 MIDTOWN
 Unit No. T2
 Other

		NAMER	PLATE DATA		ADDITIONAL EQUIPMENT				
Manufacturer	GE PROLEC		<b>Equipment Type</b>	TRANSFORMER	Radiators	Yes	Conservator Tank	No	
Manufacture Date	10/1/2004		Transformer Class	ONAN/ONAF	Fans	Yes	LTC Compartment	Yes	
Serial No.	G1406-01		Impedance %	9.74	Water Cooled	No	<b>Bushing Location</b>	TOP	
KVA Rating	15,000		Phase/Cycle	3/60	Oil Pumps	No	Breather	N2 SYSTEM	
High Voltage	138,000	D	Liquid Type	OIL	Top FPV (inch)	1.00 Valve	Hose Length (feet)	50	
Low Voltage	12,470	Υ	Gallons	5,684	Bottom FPV (inch)	2.00 Valve	Service Online	Yes	
Weight	55,010		Other Access	TOP INSPECTION PLATE	InsulationType	55/65C	Power Available	Yes	

VISUAL INSPECTION FIELD SERVICE

		SAMPLE	TOP				
DATE	LEVEL	TEMP	TEMP	P/V	PAINT	<b>LEAKS</b>	
06/22/20	NORMAL	33	55	3.75	GOOD	NONE	
06/09/21	NORMAL		45	3.00	FAIR	NONE	
06/06/22	NORMAL	29	41	2.50	FAIR	NONE	
06/09/23	NORMAL	36	40			NONE	

Additional Information 6/9/2023 1:58:00 PM CORROSIVE SULFUR TEST (48 HRS. @ 150 C): CORROSIVE 4a

**Reason Not Tested** 

## LIQUID SCREEN TEST DATA

DATE SERVICE	ACID	IFT	<b>DIEL 877</b>	<b>DIEL 1816</b>	GAP	COLOR		SP. GRAV.	VISUAL	SEDIMENT
05/24/12	0.020 AC	40.9 AC	42 AC			0.50	AC	0.890 AC	CLEAR AC	NONE AC
05/01/13	0.010 AC	40.5 AC	44 AC			0.50	AC	0.880 AC	CLEAR AC	NONE AC
06/27/18	0.010 AC	39.0 AC	46 AC			0.50	AC	0.890 AC	CLEAR AC	NONE AC
06/27/19	0.010 AC	40.0 AC	35 AC			0.50	AC	0.880 AC	CLEAR AC	NONE AC
06/22/20	0.020 AC	40.5 AC	49 AC			0.50	AC	0.875 AC	CLEAR AC	NONE AC
06/09/21	0.010 AC	39.0 AC	37 AC			0.50	AC	0.880 AC	CLEAR AC	NONE AC
06/06/22	0.010 AC	38.4 AC	59 AC			0.50	AC	0.886 AC	CLEAR AC	NONE AC
06/09/23	0.020 AC	36.8 AC	48 AC			0.50	AC	0.882 AC	CLEAR AC	NONE AC

IN	ш	IR	ITC	۱D	$\sim$	NIT	ENT
ш		ı		/I\	$\cdot$		

**DATE PCT. BY WEIGHT** 10/25/06 <0.02% UN

NOTE - THIS UNIT HAS A BLADDER OR CONTINUOUS N2 SYSTEM. THEREFORE, THE UNIT DOES NOT REQUIRE INHIBITED OIL. HOWEVER, HAVING INHIBITED OIL WILL PROVIDE ADDITIONAL PROTECTION AGAINST OIL OXIDATION IF THE CURRENT OIL PRESERVATION SYSTEM WERE TO EVER FAIL.

LIQUID POWER FACTO	R	
--------------------	---	--

100 C

	23 0	100 C
06/27/18	0.008 AC	0.161 AC
06/27/19	0.010 AC	0.277 AC
06/09/21	0.001 AC	0.088 AC
06/06/22	0.009 AC	0.322 AC
06/09/23	0.014 AC	0.211 AC

25 C

DATE

KEY TO ABBREVIATIONS: AC - ACCEPTABLE QU - QUESTIONABLE UN - UNACCEPTABLE RS - RESAMPLE

Date Printed 8/7/2023 Page 2

**Gallons** 

**KVA** 

TC# 312

138,000

12,470

High Volt.

Low Volt.

Customer 9554000 Brownsville Public Utilities

S/N G1406-01 Sub-Name **MIDTOWN** Mfg. GE PROLEC Location OUTDOOR/GROUND Unit No. T2

# KARL FISCHER TESTING MOISTURE CONTENT EXPRESSED IN PPM

	AVG.		РСТ		MOISTURE BY DRY	
DATE	TEMP	PPM	SATURA	TION	WEIGHT PCT.	
06/27/19	35	6	6.0	AC	0.60	
06/22/20	38	8	7.1	AC	0.66	
06/09/21	35	5	5.0	AC	0.50	
06/06/22	34	4	4.1	AC	0.43	
06/09/23	41	9	6.8	AC	0.58	

#### **RECOMMENDATION** RETEST 1 YEAR

The moisture content continues to be acceptable based on the equipment and liquid type. Continued normal monitoring is indicated.

FURAN ANALYSIS EXPRESSED IN PPB									
<b>DATE</b> 06/27/18	<b>5H2F</b> ND	<b>2FOL</b> ND	<b>2FAL</b> 1	2ACF ND	5M2F ND	TOTAL 1			
06/27/19	ND	ND	1	ND	ND	1			
06/22/20	ND	ND	13	ND	ND	13			
06/09/21	ND	ND	4	ND	ND	4			
06/06/22	ND	ND	4	ND	ND	4			
06/09/23	ND	ND	3	ND	ND	3			

5,684

15,000

### **RECOMMENDATION RETEST 1 YEAR**

NO DIAGNOSTIC CHANGES ARE NOTED IN FURAN LEVELS SINCE THE PREVIOUS ANALYSIS. THE CELLULOSIC INSULATION APPEARS TO BE IN GOOD CONDITION.

**CALCULATED DP <800** 

**EST. LIFE REMAINING** 

<100%

#### GAS-IN-OIL ANALYSIS GAS CHROMATOGRAPHY EXPRESSED IN PPM

DATE	HYDROGEN	OXYGEN	NITROGEN	METHANE	CARBON MONOXIDE	CARBON DIOXIDE	ETHANE	ETHYLENE A	CETYLENE	TOTAL COMBUST.	TOTAL GAS
05/24/12	19	8,173	74,344	25	130	1,482	53	6	ND	233	84,232
05/01/13	19	10,515	80,795	28	137	1,650	64	12	ND	260	93,220
06/27/18	12	260	96,425	23	93	1,507	41	5	ND	174	98,366
06/27/19	ND	158	93,084	26	115	2,190	64	4	ND	209	95,641
06/22/20	12	318	86,122	22	103	2,001	54	6	ND	197	88,638
06/09/21	12	141	82,262	22	81	1,663	47	5	ND	167	84,233
06/06/22	7	137	74,325	21	75	1,898	48	6	ND	157	76,517
06/09/23	9	90	57,538	12	41	945	31	4	ND	97	58,670

#### **RECOMMENDATION** IMMED. RETEST (DUE TO PRTCL CNT)

B-THE ANALYSIS OF THIS SAMPLE SHOWS NO SIGNIFICANT INCREASE IN THE COMBUSTIBLE GAS VOLUME. THIS INDICATES NORMAL OPERATION.

## **ICP METALS-IN-OIL EXPRESSED IN PPM**

DATE	ALUMINUM	IRON	COPPER
06/02/05	<0.1	< 0.03	<0.01
10/25/06	<0.1	< 0.03	<0.01
05/20/11	<0.1	< 0.03	< 0.01
05/24/12	<0.1	< 0.03	< 0.01
05/01/13	<0.1	< 0.03	0.04

### **RECOMMENDATION** RETEST 1 YEAR

THERE HAS BEEN NO DIAGNOSTIC CHANGE SINCE THE PREVIOUS ANALYSIS. THESE DATA INDICATE NORMAL OPERATION.

# **PCB CONTENT EXPRESSED IN PPM**

DATE	1242	1254	1260	OTHER	TOTAL
05/24/12	ND	ND	ND	ND	ND
05/01/13	ND	ND	ND	ND	ND
06/22/20	ND	ND	ND	ND	ND
06/09/21	ND	ND	ND	ND	ND
06/06/22	2	ND	ND	ND	2
06/09/23	ND	ND	ND	ND	ND

COLOR LABEL: Green CLASS: NON-PCB

> Results in mg/kg **ND** means None Detected (<2 mg/kg per ASTM D4059)

10 ft

 Customer
 9554000 Brownsville Public Utilities
 City
 Brownsville, TX
 Location
 OUTDOOR/GROUND

Sub-Name MIDTOWN Unit No. T2 Other EQUIP: MOTC

NAMEPLATE DATA

Equipment Type LOAD TAP CHANGER
Manufacturer GE PROLEC

Serial No. G1406-01

LTC Model No.

LTC for TC No. 312

Liquid Type OIL LTC Gallons

Selector Gallons 279.00

Transfer/Diverter Gallons

**ADDITIONAL EQUIPMENT** 

Conservator TankNoSilica GelYesBreatherFREE

**Top FPV (inch)** 0.50 Plug **Bottom FPV (inch)** 1.00 Valve

VISUAL INSPECTION FIELD SERVICE

		SAMPLE	TOP			Tap Counter			
DATE	LEVEL	TEMP	TEMP	P/V	PAINT	Reading	LEAKS	DATE	SERVICE
06/22/20	NORMAL	32			FAIR	52824	NONE	05/16/23	RETROFILL
06/09/21	NORMAL		51		FAIR	58278	NONE		
06/06/22	NORMAL	33	41		FAIR	78240	NONE		
06/09/23	NORMAL	44	45			95661	NONE		

**Additional Information** 

6/9/2023 1:56:00 PM CORROSIVE SULFUR TEST (48 HRS. @ 150 C): CORROSIVE 4a

**Reason Not Tested** 

LIQUID SCREEN TEST DATA

DATE S	SERVICE A	CID IFT	<b>DIEL 877</b>	<b>DIEL 1816</b>	GAP	COLOR		SP. GRAV.	VISUAL	SEDIMENT
05/24/12	0.0	20 AC 40.0 AC	35 AC			0.50	AC	0.890 AC	CLEAR AC	NONE AC
05/01/13	0.0	20 AC 40.1 AC	44 AC			0.50	AC	0.885 AC	CLEAR AC	NONE AC
06/27/18	0.0	30 AC 37.1 AC	50 AC			0.75	AC	0.880 AC	CLEAR AC	NONE AC
06/27/19	0.0	20 AC 37.4 AC	43 AC			0.50	AC	0.880 AC	CLEAR AC	NONE AC
06/22/20	0.0	20 AC 36.4 AC	44 AC			1.00	AC	0.880 AC	CLEAR AC	NONE AC
06/09/21	0.0	10 AC 37.3 AC	51 AC			0.50	AC	0.880 AC	CLEAR AC	NONE AC
06/06/22	0.0	30 AC 37.0 AC	37 AC			1.00	AC	0.884 AC	CLEAR AC	NONE AC
06/09/23	0.0	20 AC 39.5 AC	46 AC			0.50	AC	0.882 AC	CLEAR AC	NONE AC

IN	ш	IR	ITC	۱D	$\sim$	NIT	ENT
ш		ı		/I\	$\cdot$		

**DATE PCT. BY WEIGHT** 10/25/06 <0.02% UN

NOTE - STUDIES SHOW THAT A LEVEL OF 0.3% INHIBITOR IS OPTIMUM FOR PRESERVATION OF IN-SERVICE TRANSFORMER OILS. OILS WITH A LEVEL BELOW 0.08% ARE CONSIDERED TO BE UNINHIBITED.

LIQUID POWER FACTO	R	
--------------------	---	--

DATE	25 C	100 (		
05/24/12	0.017	0.194		
05/01/13	0.020	0.396		
06/27/18	0.005	0.330		
06/27/19	0.081	1.460		
06/09/21	0.001	0.206		

KEY TO ABBREVIATIONS: AC - ACCEPTABLE QU - QUESTIONABLE UN - UNACCEPTABLE RS - RESAMPLE

G1406-01

S/N



Customer 9554000 Brownsville Public Utilities

Sub-Name MIDTOWN Mfg. GE PROLEC Location OUTDOOR/GROUND Unit No. T2

Location OUTDOOR/GROUND Unit N

Mfg. GE PROLEC Gallons Unit No. T2 KVA

High Volt. Low Volt.

### KARL FISCHER TESTING MOISTURE CONTENT EXPRESSED IN PPM

	AVG.		PCT		MOISTURE BY DRY
DATE	TEMP	PPM	SATURA	TION	WEIGHT PCT.
06/27/18	38	27	N/A	AC	N/A
06/27/19	45	24	N/A	AC	N/A
06/22/20	37	26	N/A	AC	N/A
06/09/21	41	22	N/A	AC	N/A
06/06/22	38	24	N/A	AC	N/A
06/09/23	49	20	N/A	AC	N/A

#### **RECOMMENDATION RETEST 1 YEAR**

The moisture content continues to be acceptable based on the equipment and liquid type. Continued normal monitoring is indicated.

FURAN ANALYSIS EXPRESSED IN PPB										
DATE	5H2F	2FOL	2FAL	2ACF	5M2F	TOTAL				

## GAS-IN-OIL ANALYSIS GAS CHROMATOGRAPHY EXPRESSED IN PPM

DATE	HYDROGEN	OXYGEN	NITROGEN	METHANE	CARBON MONOXIDE	CARBON	ETHANE E	THYLENE AC	CETYLENE	TOTAL COMBUST.	TOTAL GAS	
06/02/05	8	30,015	62,958	3	9	502	ND	4	ND	24	93,499	
06/27/18	36	16,969	58,558	17	115	1,729	1	9	ND	178	77,434	
06/27/19	ND	29,043	82,574	31	264	3,729	3	11	ND	309	115,655	
06/22/20	50	21,763	71,583	30	289	3,536	3	14	ND	386	97,268	
06/09/21	59	19,050	70,368	37	293	3,682	3	14	ND	406	93,506	
06/06/22	66	17,758	64,914	42	314	4,464	4	16	ND	442	87,578	
06/09/23	56	11,143	52,061	25	194	2,449	3	10	ND	288	65,941	

#### **RECOMMENDATION** RETEST 1 YEAR

B-THE ANALYSIS OF THIS SAMPLE SHOWS NO SIGNIFICANT INCREASE IN THE COMBUSTIBLE GAS VOLUME. THIS INDICATES NORMAL OPERATION.

## **ICP METALS-IN-OIL EXPRESSED IN PPM**

DATE	ALUMINUM	IRON	COPPER
06/02/05	<0.1	< 0.03	0.04
10/25/06	<0.1	< 0.03	0.06
06/27/18	<0.1	< 0.03	< 0.01
06/27/19	<0.1	< 0.03	0.02
06/22/20	<0.1	< 0.03	< 0.01
06/09/21	<0.1	< 0.03	< 0.01

#### **RECOMMENDATION**

NO RECOMMENDATION IS POSSIBLE FOR THIS SAMPLE. WE ARE UNAWARE OF ANY PARAMETERS OR GUIDANCE THAT WOULD ENABLE US TO INTERPRET THESE RESULTS OR DETERMINE AN APPROPRIATE MONITORING SCHEDULE.

## PCB CONTENT EXPRESSED IN PPM

DATE	1242	1254	1260	OTHER	TOTAL
06/22/20	ND	ND	ND	ND	ND
06/09/21	ND	ND	ND	ND	ND

COLOR LABEL: Green CLASS: NON-PCB

Results in mg/kg ND means None Detected (<2 mg/kg per ASTM D4059)

**DATE** SERVICE 05/16/23 RETROFILL



 Customer
 9554000 Brownsville Public Utilities
 City
 Brownsville, TX
 Location
 OUTDOOR/GROUND

 Sub-Name
 POWER PLANT
 Unit No. 10
 Other

	NAMEPLATE DATA				ADDITIONAL EQUIPMENT				
Manufacturer	GE PROEC		<b>Equipment Type</b>	TRANSFORMER	Radiators	Yes	Conservator Tank	No	
Manufacture Date	<b>11/1/2003</b>		Transformer Class	ONAN/ONAF	Fans	Yes	LTC Compartment	No	
Serial No.	G1230-01		Impedance %	9.48	Water Cooled	No	<b>Bushing Location</b>	TOP	
KVA Rating	36,000		Phase/Cycle	3/60	Oil Pumps	No	Breather	N2 SYSTEM	
High Voltage	138,000	Υ	Liquid Type	OIL	Top FPV (inch)	1.00 Valve	Hose Length (feet)	200	
Low Voltage	69,000	D	Gallons	6,850	Bottom FPV (inch)	2.00 Valve	Service Online	Yes	
Weight	77,920		Other Access	TOP INSPECTION PLATE	InsulationType	55/65C	Power Available	Yes	

VISUAL INSPECTION FIELD SERVICE

		SAMPLE	TOP				
DATE	LEVEL	TEMP	TEMP	P/V	PAINT	<b>LEAKS</b>	
06/25/20	NORMAL	33	40	2.00	GOOD	NONE	
06/11/21	NORMAL	33	48	3.50	FAIR	NONE	
06/08/22	NORMAL	34	52	3.00	GOOD	NONE	
06/08/23	NORMAL	36	50	3.00		NONE	

Additional Information 6/8/2023 2:44:00 PM CORROSIVE SULFUR TEST (48 HRS. @ 150 C): CORROSIVE 4a

**Reason Not Tested** 

LIQUID SCREEN TEST I	DA	ATA
----------------------	----	-----

DATE SERVICE	ACID	IFT	DIEL 877 DIEL 1816	GAP	COLOR		SP. GRAV.	VISUAL	SEDIMENT
05/24/12	0.020 AC	41.0 AC	36 AC		0.50	AC	0.890 AC	CLEAR AC	NONE AC
05/01/13	0.010 AC	40.3 AC	44 AC		0.50	AC	0.880 AC	CLEAR AC	NONE AC
06/29/18	0.010 AC	41.6 AC	36 AC		0.50	AC	0.890 AC	CLEAR AC	NONE AC
06/25/19	0.020 AC	40.9 AC	30 AC		0.50	AC	0.880 AC	CLEAR AC	NONE AC
06/25/20	0.020 AC	39.8 AC	38 AC		0.50	AC	0.890 AC	CLEAR AC	NONE AC
06/11/21	0.010 AC	39.0 AC	42 AC		0.50	AC	0.880 AC	CLEAR AC	NONE AC
06/08/22	0.020 AC	37.4 AC	47 AC		1.00	AC	0.884 AC	CLEAR AC	NONE AC
06/08/23	0.020 AC	36.0 AC	46 AC		0.50	AC	0.880 AC	CLEAR AC	NONE AC

П	NIL	41	R	IΤ	n	D	C	$^{\circ}$	N	т		NI	т
ш	м	•	u		v	1			ľ		_		

**DATE PCT. BY WEIGHT** 10/25/06 <0.02% UN

NOTE - THIS UNIT HAS A BLADDER OR CONTINUOUS N2 SYSTEM. THEREFORE, THE UNIT DOES NOT REQUIRE INHIBITED OIL. HOWEVER, HAVING INHIBITED OIL WILL PROVIDE ADDITIONAL PROTECTION AGAINST OIL OXIDATION IF THE CURRENT OIL PRESERVATION SYSTEM WERE TO EVER FAIL.

LIQUID POWER FACTOR	
---------------------	--

DATE	25 C	100 C
06/29/18	0.016 AC	0.273 AC
06/25/19	0.016 AC	0.360 AC
06/11/21	0.001 AC	0.117 AC
06/08/22	0.007 AC	0.498 AC
06/08/23	0.007 AC	0.180 AC

KEY TO ABBREVIATIONS: AC - ACCEPTABLE QU - QUESTIONABLE UN - UNACCEPTABLE RS - RESAMPLE

Page 2 Date Printed 8/7/2023

TC# 311

Customer 9554000 Brownsville Public Utilities

Sub-Name POWER PLANT Mfg. GE PROEC **Gallons** 6,850 High Volt. 138,000 36,000 Location OUTDOOR/GROUND Unit No. 10 KVA Low Volt. 69,000

G1230-01

S/N

### KARL FISCHER TESTING MOISTURE CONTENT EXPRESSED IN PPM

	AVG.		РСТ		MOISTURE BY DRY	
DATE	TEMP	PPM	SATURA	TION	WEIGHT PCT.	
06/25/19	31	8	9.3	QU	0.99	
06/25/20	38	9	7.6	AC	0.70	
06/11/21	38	4	3.1	AC	0.29	
06/08/22	39	14	11.7	QU	1.05	
06/08/23	41	6	4.4	AC	0.37	

#### **RECOMMENDATION** RETEST 1 YEAR

The moisture content has decreased since our last analysis. If service has not been performed, this may be due to temperature and/or operational changes. Continued normal monitoring is indicated.

FURAN ANALYSIS EXPRESSED IN PPB								
<b>DATE</b> 06/29/18	5H2F ND	2FOL ND	<b>2FAL</b> 1	2ACF ND	5M2F ND	TOTAL 1		
06/25/19 06/25/20	ND ND	ND ND	1 11 -	ND ND	ND ND	1 11		
06/11/21 06/08/22	ND ND	ND ND	5 9	ND ND	ND ND	5 9		
06/08/23	ND	ND	1	ND	ND	1		

### **RECOMMENDATION** RETEST 1 YEAR

NO DIAGNOSTIC CHANGES ARE NOTED IN FURAN LEVELS SINCE THE PREVIOUS ANALYSIS. THE CELLULOSIC INSULATION APPEARS TO BE IN GOOD CONDITION.

CALCULATED DP <800

EST. LIFE REMAINING <1

<100%

#### GAS-IN-OIL ANALYSIS GAS CHROMATOGRAPHY EXPRESSED IN PPM

DATE	HYDROGEN	OXYGEN	NITROGEN	METHANE	CARBON MONOXIDE	CARBON DIOXIDE	ETHANE I	ETHYLENE A	CETYLENE	TOTAL COMBUST.	TOTAL GAS
05/01/13	4	9,237	76,997	7	14	1,478	24	1	ND	50	87,762
06/29/18	ND	130	89,814	6	10	1,434	18	2	ND	36	91,414
06/25/19	ND	740	59,146	3	12	1,005	14	ND	ND	29	60,920
06/25/20	ND	417	88,010	6	11	1,668	17	1	ND	35	90,130
06/11/21	5	47	77,783	5	8	1,460	16	1	ND	35	79,325
06/08/22	ND	74	72,759	6	4	565	14	3	ND	27	73,425
06/08/23	1	5	59,112	4	4	507	8	ND	ND	17	59,641

#### **RECOMMENDATION** RETEST 1 YEAR

B-THE ANALYSIS OF THIS SAMPLE SHOWS NO SIGNIFICANT INCREASE IN THE COMBUSTIBLE GAS VOLUME. THIS INDICATES NORMAL OPERATION.

## **ICP METALS-IN-OIL EXPRESSED IN PPM**

DATE	ALUMINUM	IRON	COPPER
06/02/05	5 <0.1	< 0.03	<0.01
10/25/06	6 <0.1	< 0.03	0.03
05/20/11	1 <0.1	< 0.03	< 0.01
05/24/12	2 <0.1	< 0.03	<0.01
05/01/13	3 <0.1	< 0.03	0.04

### **RECOMMENDATION** RETEST 1 YEAR

THERE HAS BEEN NO DIAGNOSTIC CHANGE SINCE THE PREVIOUS ANALYSIS. THESE DATA INDICATE NORMAL OPERATION.

## **PCB CONTENT EXPRESSED IN PPM**

DATE	1242	1254	1260	OTHER	TOTAL
05/24/12	ND	ND	ND	ND	ND
05/01/13	ND	ND	ND	ND	ND
06/25/20	ND	ND	ND	ND	ND
06/11/21	ND	ND	ND	ND	ND
06/08/22	2	ND	ND	ND	2
06/08/23	ND	ND	ND	ND	ND

COLOR LABEL: Green CLASS: NON-PCB

Results in mg/kg ND means None Detected (<2 mg/kg per ASTM D4059)