

PUERTO RICO ELECTRIC (B/R) POWER AUTHORITY  
P.O. BOX 4267  
00936 SAN JUAN  
Puerto Rico  
Mr. M. Rios  
CS-TANK INVENTORY-2-22 / 06070



Job No 13101/00016546.0000/01/I/22  
Report date 03 Mar 2022  
Installation Penuelas, Puerto Rico, Central Costa Sur

**Shore tank CS-TANK INVENTORY-2-22**

**Product No 2 FUEL OIL, Fuel Oil**

Survey date: 28-Feb-2022, 28-Feb-2022

**Contents page**

Saybolt LP - Puerto Rico Branch has performed a survey of the above mentioned object, the findings of the survey are reflected in the following reports:

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This report consists of 10 pages.

A copy of this report and all field documents and related correspondence will be retained for a period of 10 years, unless local law requires otherwise

Handled by: Jose Flores

*This report reflects only the findings at the time and place of the inspection and testing. This report is not a guarantee or policy of insurance with respect to the goods or the contractual performance of any party. Any person relying upon this report should be aware that issuer's activities are carried out under their general terms and conditions.*

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**Shore tank CS-TANK INVENTORY-2-22**  
**Product Fuel Oil**

Survey date: 28-Feb-2022

## Shore Tank Measurement Details

### Shore tank R-2

Measurement data (Innage)		Open	Close
Average	FT/IN	5-7 1/8	
Temperature			
Average temp.	°F	98.9	
Measurement Equipment Data			
Water measurement used		Open Paste	
Water paste used		k/k	
Gauging equipment type		Saybolt Equipment	
Gauging Equipment used		Manual Tape	
Gauging equipment number		CS-51067	
Temperature equipment type		Saybolt Equipment	
Temperature Equipment used		Portable Electronic Thermometer	
Temperature equipment number		TP9-9773	
Inspector Equipment used for verification?		Yes	
Inspector name		Jvelasquez	

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**Shore tank CS-TANK INVENTORY-2-22**  
**Product Fuel Oil**

**Shore Tank Measurement Details**

Survey date: 28-Feb-2022

**Shore tank R-3**

Measurement data (Innage)		Open	Close
Average	FT/IN	18-0 1/4	
Temperature			
Average temp.	°F	93.8	
Measurement Equipment Data			
Water measurement used		Open	
Water paste used		Paste	
Gauging equipment type		k/k	
Gauging Equipment used		Saybolt Equipment	
Gauging equipment number		Manual Tape	
Temperature equipment type		CS-51067	
Temperature Equipment used		Saybolt Equipment	
Temperature equipment number		Portable Electronic Thermometer	
Inspector Equipment used for verification?		TP9-9773	
Inspector name		Yes	
		Jvelasquez	

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**Shore tank CS-TANK INVENTORY-2-22**  
**Product No 2 FUEL OIL**

**Shore Tank Measurement Details**

Survey date: 28-Feb-2022

**Shore tank TG-1 (LDS)**

<b>Measurement data (Innage)</b>		<b>Open</b>	<b>Close</b>
Average	FT/IN	18-5 1/2	
<b>Temperature</b>			
Average temp.	°F	81.8	
<b>Measurement Equipment Data</b>		<b>Open</b>	
Water measurement used		Paste	
Water paste used		k/k	
Gauging equipment type		Saybolt Equipment	
Gauging Equipment used		Manual Tape	
Gauging equipment number		CS-51067	
Temperature equipment type		Saybolt Equipment	
Temperature Equipment used		Portable Electronic Thermometer	
Temperature equipment number		TP9-9773	
Inspector Equipment used for verification?		Yes	
Inspector name		Jvelasquez	

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**Shore tank CS-TANK INVENTORY-2-22**  
**Product Fuel Oil**

**Shore Tank Inventory Report**

Survey date: 28-Feb-2022

Shore tank measurement		Totals	R-2	R-3
<b>Open measurement</b>				
Date/time of measurement			28 Feb 2022 21:15	28 Feb 2022 11:59
Average Innage	FT/IN		5-7 1/8	18-0 1/4
Average temp.	°F		98.9	93.8
T.O.V.	Barrels		288,545.21	206,645.93
Ambient temp.	°F		79.00	72.00
Tank shell temp.	°F		96.00	91.00
CTsh			1.00045	1.00038
G.O.V.	Barrels		288,675.06	206,724.46
API 60°F			17.30	18.40
V.C.F.	6B		0.98439	0.98631
G.S.V.	barrels 60°F		284,168.84	203,894.40
W.C.F.	MPMS 11.5.1.4.12		0.1484879284	0.1473969132
W.C.F.	MPMS 11.5.1.4.15		0.1508707005	0.1497621780
Long Tons			42,195.642	30,053.405
Metric Tons Air			42,872.752	30,535.669
<b>Subtotals</b>				
G.S.V.	barrels 60°F	488,063.24	284,168.84	203,894.40
Long Tons		72,249.047	42,195.642	30,053.405

**Remarks**

Tables used: 6B and W.C.F. MPMS 11.5.1.4.12.

Net calculation via S&W% (API MPMS 12.1)

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**Shore tank CS-TANK INVENTORY-2-22**  
**Product No 2 FUEL OIL**

**Shore Tank Inventory Report**

Survey date: 28-Feb-2022

Shore tank measurement		Totals	TG-1 (LDS)
<b>Open measurement</b>			
Date/time of measurement		28 Feb 2022	22:00
Average Innage	FT/IN		18-5 1/2
Average temp.	°F		81.8
T.O.V.	Barrels		3,160.81
Ambient temp.	°F		79.00
Tank shell temp.	°F		81.00
CTsh			1.00026
G.O.V.	Barrels		3,161.63
API 60°F			39.80
V.C.F.	6B		0.98939
G.S.V.	barrels 60°F		3,128.09
W.C.F.	MPMS 11.5.1.4.12		0.1289596087
W.C.F.	MPMS 11.5.1.4.15		0.1310290117
Long Tons			403.397
Metric Tons Air			409.871
<b>Subtotals</b>			
G.S.V.	barrels 60°F	3,128.09	3,128.09
Long Tons		403.397	403.397

**Remarks**

Tables used: 6B and W.C.F. MPMS 11.5.1.4.12.

Net calculation via S&W% (API MPMS 12.1)

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**Shore tank CS-TANK INVENTORY-2-22**  
**Product Fuel Oil**

**Shore Tank Inventory Subtotals**

Shore tank Subtotals	Totals	R-2	R-3
<b>Gross Standard Volume</b>			
Cu m 60°F	77,595.859	45,179.238	32,416.621
Barrels 60°F	488,063.24	284,168.84	203,894.40
US gallons 60°F	20,498,656.08	11,935,091.28	8,563,564.80
Metric Tons Vac	73,490.434	42,920.483	30,569.951
Metric Tons Air	73,408.421	42,872.752	30,535.669
Long Tons Air	72,249.047	42,195.642	30,053.405
Short Tons Air	80,918.933	47,259.119	33,659.814
Pounds Air	161,837,866.00	94,518,238.00	67,319,628.00
Density 15°C		0.9504	0.9434
API 60°F		17.30	18.40
RD 60/60°		0.9509	0.9440
<b>Total Calculated Volume</b>			
Barrels 60°F	488,063.24	284,168.84	203,894.40
US gallons 60°F	20,498,656.08	11,935,091.28	8,563,564.80

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**Shore tank CS-TANK INVENTORY-2-22**  
**Product No 2 FUEL OIL**

**Shore Tank Inventory Subtotals**

Shore tank Subtotals	Totals	TG-1 (LDS)
<b>Gross Standard Volume</b>		
Cu m 60°F	497.327	497.327
Barrels 60°F	3,128.09	3,128.09
US gallons 60°F	131,379.78	131,379.78
Metric Tons Vac	410.406	410.406
Metric Tons Air	409.871	409.871
Long Tons Air	403.397	403.397
Short Tons Air	451.805	451.805
Pounds Air	903,610.00	903,610.00
Density 15°C		0.8256
API 60°F		39.80
RD 60/60°		0.8260
<b>Total Calculated Volume</b>		
Barrels 60°F	3,128.09	3,128.09
US gallons 60°F	131,379.78	131,379.78



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**Shore tank CS-TANK INVENTORY-2-22**  
**Product No 2 FUEL OIL**

Survey date: 28 Feb 2022

**Certificate of Quantity**

The undersigned Independent Saybolt Surveyor herewith declares that the quantity of product measured amounts to:

	Gross	Net
Cubic meters 60°F	497.327	497.327
Barrels 60°F	3,128.09	3,128.09
US Gallons 60°F	131,379.78	131,379.78
Metric Tons vac	410.406	410.406
Metric Tons air	409.871	409.871
Long Tons	403.397	403.397
Short Tons	451.805	451.805
Pounds	903,610.00	903,610.00

These quantities have been determined by measurement of shore tanks.

B/L API 60°F	39.80
B/L Density 15°C	0.8256
B/L Density 20°C	0.8220
B/L RD 60/60°F	0.8260

**Criteria used**

US Barrels 60°F to Cu m 60°F	MPMS 11.5 - Annex D	0.158987304
US Barrels 60°F to US Gallons 60°F	MPMS 11.5 - Annex D	42
Metric Tons Air to Metric Tons Vac	MPMS 11.5.3 - 4.5	1.001304545
Barrels 60°F to Metric Tons Air	MPMS 11.5.1 - 4.15	0.1310290117
Barrels 60°F to Long Tons	MPMS 11.5.1 - 4.12	0.1289596087
Long Tons to Short Tons	MPMS 11.5 - Annex D	1.12

**Remark**

Net via S&W Volume %

Signed by: Saybolt representative  
Name:  
Rank: Saybolt Inspector

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**Product Fuel Oil**  
Survey date: 28 Feb 2022

**Certificate of Quantity**

The undersigned Independent Saybolt Surveyor herewith declares that the quantity of product measured amounts to:

	Gross	Net
Cubic meters 60°F	77,595.859	77,595.859
Barrels 60°F	488,063.24	488,063.24
US Gallons 60°F	20,498,656.08	20,498,656.08
Metric Tons vac	73,490.434	73,490.434
Metric Tons air	73,408.421	73,408.421
Long Tons	72,249.047	72,249.047
Short Tons	80,918.933	80,918.933
Pounds	161,837,866.00	161,837,866.00

These quantities have been determined by measurement of shore tanks.

B/L API 60°F	17.76
B/L Density 15°C	0.9475
B/L Density 20°C	0.9441
B/L RD 60/60°F	0.9480

**Criteria used**

US Barrels 60°F to Cu m 60°F	MPMS 11.5 - Annex D	0.158987304
US Barrels 60°F to US Gallons 60°F	MPMS 11.5 - Annex D	42
Metric Tons Air to Metric Tons Vac	MPMS 11.5.3 - 4.5	1.001117186
Barrels 60°F to Metric Tons Air	MPMS 11.5.1 - 4.15	0.1504051489
Barrels 60°F to Long Tons	MPMS 11.5.1 - 4.12	0.1480297294
Long Tons to Short Tons	MPMS 11.5 - Annex D	1.12

**Remark**

Net via S&W Volume %

Signed by: Saybolt representative  
Name:  
Rank: Saybolt Inspector