

PUERTO RICO ELECTRIC (B/R) POWER AUTHORITY  
P.O. BOX 4267  
00936 SAN JUAN  
Puerto Rico  
Mr. M. Rios  
PS-TANKINVENTORY-11-22



Job No 13101/00016873.0000/01/I/22  
Report date 01 Dec 2022  
Installation Toa Baja, Puerto Rico, Central Palo Seco Terminal

**Shore tank PS-TANKINVENTORY-11-22 - PALO SECO - ALL TANKS - 11/30/2022 - SAYBOLT  
- 06528**

**Product Fuel Oil No 6, Fuel Oil No 2**

Survey date: 30-Nov-2022, 30-Nov-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:

Title	Number of Pages
Contents page	one
Shore Tank Inventory Report	three
Shore Tank Inventory Subtotals	three
Certificate of Quantity	two

This report consists of 9 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: Rafael Rodriguez

*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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**- 06528**  
**Product Fuel Oil No 2**

**Shore Tank Inventory Report**

Survey date: 30-Nov-2022

Shore tank measurement		Totals	D-1	D-2	D-3
<b>Open measurement</b>					
Date/time of measurement			30 Nov 2022 22:50	30 Nov 2022 22:30	30 Nov 2022 23:10
Average Innage	FT/IN		28-6-1/4	05-05-5/8	08-05-7/8
Average temp.	°F		80.9	82.6	82.5
T.O.V.	Barrels		2,194.64	13,985.94	14,300.43
Water	Barrels				90.36
Ambient temp.	°F		81.00	81.00	81.00
Tank shell temp.	°F		81.00	82.00	82.00
CTsh			1.00026	1.00027	1.00027
G.O.V.	Barrels		2,195.21	13,989.72	14,213.91
API 60°F			35.70	36.60	36.50
V.C.F.	6B		0.99026	0.98939	0.98944
G.S.V.	barrels 60°F		2,173.83	13,841.29	14,063.81
W.C.F.	MPMS 11.5.1.4.12		0.1321264979	0.1314180936	0.1314964304
W.C.F.	MPMS 11.5.1.4.15		0.1342467197	0.1335269477	0.1336065416
Long Tons			287.221	1,818.996	1,849.341
Metric Tons Air			291.830	1,848.185	1,879.017
<b>Subtotals</b>					
G.S.V.	barrels 60°F	30,078.93	2,173.83	13,841.29	14,063.81
Long Tons		3,955.558	287.221	1,818.996	1,849.341

**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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- 06528**  
**Product Fuel Oil No 6**

Survey date: 30-Nov-2022

**Shore Tank Inventory Report - 1**

Shore tank measurement		Totals	R-1	R-2	R-4	S-1
<b>Open measurement</b>						
Date/time of measurement		30 Nov 2022 22:00	01 Dec 2022 00:05	30 Nov 2022 22:15	30 Nov 2022 23:50	
Average Innage	FT/IN	03-01-5/8	10-05	07-08-1/16	05-10	
Average temp.	°F	93.3	99.4	94.2	90.8	
T.O.V.	Barrels	93,866.11	70,048.50	125,132.13	4,545.72	
Ambient temp.	°F	81.00	81.00	81.00	81.00	
Tank shell temp.	°F	92.00	97.00	93.00	90.00	
CTsh		1.00040	1.00046	1.00041	1.00037	
G.O.V.	Barrels	93,903.66	70,080.72	125,183.43	4,547.40	
API 60°F		20.00	19.40	19.70	19.70	
V.C.F.	6B	0.98633	0.98390	0.98600	0.98739	
G.S.V.	barrels 60°F	92,620.00	68,952.42	123,430.86	4,490.06	
W.C.F.	MPMS 11.5.1.4.12	0.1458382641	0.1464188841	0.1461279981	0.1461279981	
W.C.F.	MPMS 11.5.1.4.15	0.1481785173	0.1487684545	0.1484729007	0.1484729007	
Long Tons		13,507.540	10,095.936	18,036.704	656.123	
Metric Tons Air		13,724.294	10,257.945	18,326.138	666.652	
<b>Subtotals</b>						
G.S.V.	barrels 60°F	306,591.39	92,620.00	68,952.42	123,430.86	4,490.06
Long Tons		44,794.807	13,507.540	10,095.936	18,036.704	656.123

**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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- 06528**

**Product Fuel Oil No 6**

**Shore Tank Inventory Report - 2**

Survey date: 30-Nov-2022

Shore tank measurement		S-3	S-4
<b>Open measurement</b>			
Date/time of measurement		30 Nov 2022	30 Nov 2022
Average Innage	FT/IN	07-06-7/8	07-02-11/16
Average temp.	°F	93.3	91.7
T.O.V.	Barrels	8,717.33	8,604.64
Ambient temp.	°F	81.00	81.00
Tank shell temp.	°F	92.00	90.00
CTsh		1.00040	1.00037
G.O.V.	Barrels	8,720.82	8,607.82
API 60°F		19.70	19.70
V.C.F.	6B	0.98637	0.98702
G.S.V.	barrels 60°F	8,601.96	8,496.09
W.C.F.	MPMS 11.5.1.4.12	0.1461279981	0.1461279981
W.C.F.	MPMS 11.5.1.4.15	0.1484729007	0.1484729007
Long Tons		1,256.987	1,241.517
Metric Tons Air		1,277.158	1,261.439

<b>Subtotals</b>			
G.S.V.	barrels 60°F	8,601.96	8,496.09
Long Tons		1,256.987	1,241.517

**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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- 06528**  
**Product Fuel Oil No 2**

Survey date: 30-Nov-2022

**Shore Tank Inventory Subtotals**

<b>Shore tank Subtotals</b>	<b>Totals</b>	<b>D-1</b>	<b>D-2</b>	<b>D-3</b>
<b>Gross Standard Volume</b>				
Cu m 60°F	4,782.167	345.611	2,200.589	2,235.967
Barrels 60°F	30,078.93	2,173.83	13,841.29	14,063.81
US gallons 60°F	1,263,315.06	91,300.86	581,334.18	590,680.02
Metric Tons Vac	4,024.162	292.201	1,850.546	1,881.415
Metric Tons Air	4,019.032	291.830	1,848.185	1,879.017
Long Tons Air	3,955.558	287.221	1,818.996	1,849.341
Short Tons Air	4,430.226	321.688	2,037.276	2,071.262
Pounds Air	8,860,452.00	643,376.00	4,074,552.00	4,142,524.00
Density 15°C		0.8459	0.8413	0.8418
API 60°F		35.70	36.60	36.50
RD 60/60°		0.8463	0.8418	0.8423
<b>Total Calculated Volume</b>				
Barrels 60°F	30,169.29	2,173.83	13,841.29	14,154.17
US gallons 60°F	1,267,110.18	91,300.86	581,334.18	594,475.14

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- 06528**  
**Product Fuel Oil No 6**

Survey date: 30-Nov-2022

**Shore Tank Inventory Subtotals - 1**

Shore tank Subtotals	Totals	R-1	R-2	R-4	S-1
<b>Gross Standard Volume</b>					
Cu m 60°F	48,744.138	14,725.404	10,962.559	19,623.940	713.863
Barrels 60°F	306,591.39	92,620.00	68,952.42	123,430.86	4,490.06
US gallons 60°F	12,876,838.38	3,890,040.00	2,896,001.64	5,184,096.12	188,582.52
Metric Tons Vac	45,565.234	13,739.888	10,269.548	18,346.915	667.408
Metric Tons Air	45,513.626	13,724.294	10,257.945	18,326.138	666.652
Long Tons Air	44,794.807	13,507.540	10,095.936	18,036.704	656.123
Short Tons Air	50,170.183	15,128.445	11,307.448	20,201.108	734.858
Pounds Air	100,340,366.00	30,256,890.00	22,614,896.00	40,402,216.00	1,469,716.00
Density 15°C		0.9335	0.9372	0.9353	0.9353
API 60°F		20.00	19.40	19.70	19.70
RD 60/60°		0.9340	0.9377	0.9358	0.9358
<b>Total Calculated Volume</b>					
Barrels 60°F	306,591.39	92,620.00	68,952.42	123,430.86	4,490.06
US gallons 60°F	12,876,838.38	3,890,040.00	2,896,001.64	5,184,096.12	188,582.52

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**Product Fuel Oil No 6**

Survey date: 30-Nov-2022

**Shore Tank Inventory Subtotals - 2**

<b>Shore tank Subtotals</b>	S-3	S-4
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**Gross Standard Volume**

Cu m 60°F	1,367.602	1,350.770
Barrels 60°F	8,601.96	8,496.09
US gallons 60°F	361,282.32	356,835.78
Metric Tons Vac	1,278.606	1,262.869
Metric Tons Air	1,277.158	1,261.439
Long Tons Air	1,256.987	1,241.517
Short Tons Air	1,407.825	1,390.499
Pounds Air	2,815,650.00	2,780,998.00
Density 15°C	0.9353	0.9353
API 60°F	19.70	19.70
RD 60/60°	0.9358	0.9358

**Total Calculated Volume**

Barrels 60°F	8,601.96	8,496.09
US gallons 60°F	361,282.32	356,835.78

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- 06528**

**Product Fuel Oil No 2**

Survey date: 30 Nov 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	4,782.167	4,782.167
Barrels 60°F	30,078.93	30,078.93
US Gallons 60°F	1,263,315.06	1,263,315.06
Metric Tons vac	4,024.162	4,024.162
Metric Tons air	4,019.032	4,019.032
Long Tons	3,955.558	3,955.558
Short Tons	4,430.226	4,430.226
Pounds	8,860,452.00	8,860,452.00

These quantities have been determined by measurement of shore tanks.

B/L API 60°F	36.49
B/L Density 15°C	0.8419
B/L Density 20°C	0.8384
B/L RD 60/60°F	0.8423

**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	1.001276345
Barrels 60°F to Metric Tons Air	MPMS 11.5.1 - 4.15	0.1336145062
Barrels 60°F to Long Tons	MPMS 11.5.1 - 4.12	0.1315042692
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 No 6**

Survey date: 30 Nov 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	48,744.138	48,744.138
Barrels 60°F	306,591.39	306,591.39
US Gallons 60°F	12,876,838.38	12,876,838.38
Metric Tons vac	45,565.234	45,565.234
Metric Tons air	45,513.626	45,513.626
Long Tons	44,794.807	44,794.807
Short Tons	50,170.183	50,170.183
Pounds	100,340,366.00	100,340,366.00

These quantities have been determined by measurement of shore tanks.

B/L API 60°F	19.72
B/L Density 15°C	0.9352
B/L Density 20°C	0.9318
B/L RD 60/60°F	0.9357

**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	1.001133873
Barrels 60°F to Metric Tons Air	MPMS 11.5.1 - 4.15	0.1484532388
Barrels 60°F to Long Tons	MPMS 11.5.1 - 4.12	0.1461086467
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