

PUERTO RICO ELECTRIC (B/R) POWER AUTHORITY
P.O. BOX 4267
00936 SAN JUAN
Puerto Rico
Mr. M. Rios
PS-TANK INVENTORY-11-21



Job No 13101/00016410.0000/01/I/21
Report date 02 Dec 2021
Installation Toa Baja, Puerto Rico, Central Palo Seco Terminal

Shore tank PS-TANK INVENTORY-11-21-PALO SECO
Product NO 6 Fuel Oil , NO 2 FUEL OIL

Survey date: 30-Nov-2021, 30-Nov-2021

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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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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Report date 02 Dec 2021
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Shore tank PS-TANK INVENTORY-11-21-PALO SECO
Product NO 2 FUEL OIL

Shore Tank Inventory Report

Survey date: 30-Nov-2021

Shore tank measurement		Totals	D-1	D-2	D-3
Open measurement					
Date/time of measurement		30 Nov 2021 23:35	30 Nov 2021 19:50	30 Nov 2021 19:30	
Average Innage	FT/IN	13-7-5/8	8-10-1/2	25-11-00	
Average temp.	°F	82.9	85.3	83.1	
T.O.V.	Barrels	9,698.22	12,268.41	5,523.87	
Water	FT/IN			01 1/4	
Water	Barrels			54.52	
Ambient temp.	°F	81.00	81.00	81.00	
Tank shell temp.	°F	83.00	85.00	83.00	
CTsh		1.00029	1.00031	1.00029	
G.O.V.	Barrels	9,701.03	12,272.21	5,470.94	
API 60°F		37.30	36.10	36.10	
V.C.F.	6B	0.98918	0.98816	0.98919	
G.S.V.	barrels 60°F	9,596.06	12,126.91	5,411.80	
W.C.F.	MPMS 11.5.1.4.12	0.1308723351	0.1318107123	0.1318107123	
W.C.F.	MPMS 11.5.1.4.15	0.1329724315	0.1339258667	0.1339258667	
Long Tons		1,255.859	1,598.457	713.333	
Metric Tons Air		1,276.011	1,624.107	724.780	
Subtotals					
G.S.V.	barrels 60°F	27,134.77	9,596.06	12,126.91	5,411.80
Long Tons		3,567.649	1,255.859	1,598.457	713.333

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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Report date 02 Dec 2021
Installation Toa Baja, Puerto Rico, Central Palo Seco Terminal

Shore tank PS-TANK INVENTORY-11-21-PALO SECO
Product NO 6 Fuel Oil

Survey date: 30-Nov-2021

Shore Tank Inventory Report - 1

Shore tank measurement		Totals	R-1	R-2	R-4	S-1
Open measurement						
Date/time of measurement		30 Nov 2021 20:00	30 Nov 2021 19:15	30 Nov 2021 19:35	30 Nov 2021 23:15	
Average Innage	FT/IN	12-5-1/4	27-10-7/8	3-7-7/8	10-3-7/16	
Average temp.	°F	98.7	91.0	114.7	98.5	
T.O.V.	Barrels	64,591.87	15,229.09	138,771.41	3,782.61	
Ambient temp.	°F	81.00	81.00	81.00	81.00	
Tank shell temp.	°F	96.00	90.00	110.00	96.00	
CTsh		1.00045	1.00037	1.00062	1.00045	
G.O.V.	Barrels	64,620.94	15,234.72	138,857.45	3,784.31	
API 60°F		20.10	20.60	20.40	20.10	
V.C.F.	6B	0.98409	0.98721	0.97741	0.98417	
G.S.V.	barrels 60°F	63,592.82	15,039.87	135,720.66	3,724.40	
W.C.F.	MPMS 11.5.1.4.12	0.1457419409	0.1452622248	0.1454537323	0.1457419409	
W.C.F.	MPMS 11.5.1.4.15	0.1480806485	0.1475932345	0.1477878150	0.1480806485	
Long Tons		9,268.141	2,184.725	19,741.077	542.801	
Metric Tons Air		9,416.866	2,219.783	20,057.860	551.512	
Subtotals						
G.S.V.	barrels 60°F	233,019.88	63,592.82	15,039.87	135,720.66	3,724.40
Long Tons		33,914.439	9,268.141	2,184.725	19,741.077	542.801

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 PS-TANK INVENTORY-11-21-PALO SECO
Product NO 6 Fuel Oil

Survey date: 30-Nov-2021

Shore Tank Inventory Report - 2

Shore tank measurement		S-3		S-4	
Open measurement					
Date/time of measurement		30 Nov 2021	23:30	30 Dec 2021	23:45
Average Innage	FT/IN	10-10-00		10-5-1/8	
Average temp.	°F	96.6		98.6	
T.O.V.	Barrels	7,599.59		7,570.41	
Ambient temp.	°F	81.00		81.00	
Tank shell temp.	°F	95.00		96.00	
CTsh		1.00043		1.00045	
G.O.V.	Barrels	7,602.86		7,573.82	
API 60°F		20.10		20.10	
V.C.F.	6B	0.98496		0.98413	
G.S.V.	barrels 60°F	7,488.51		7,453.62	
W.C.F.	MPMS 11.5.1.4.12	0.1457419409		0.1457419409	
W.C.F.	MPMS 11.5.1.4.15	0.1480806485		0.1480806485	
Long Tons		1,091.390		1,086.305	
Metric Tons Air		1,108.903		1,103.737	
Subtotals					
G.S.V.	barrels 60°F	7,488.51		7,453.62	
Long Tons		1,091.390		1,086.305	

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 PS-TANK INVENTORY-11-21-PALO SECO
Product NO 2 FUEL OIL

Survey date: 30-Nov-2021

Shore Tank Inventory Subtotals

Shore tank Subtotals	Totals	D-1	D-2	D-3
Gross Standard Volume				
Cu m 60°F	4,314.084	1,525.652	1,928.025	860.407
Barrels 60°F	27,134.77	9,596.06	12,126.91	5,411.80
US gallons 60°F	1,139,660.34	403,034.52	509,330.22	227,295.60
Metric Tons Vac	3,629.526	1,277.648	1,626.175	725.703
Metric Tons Air	3,624.898	1,276.011	1,624.107	724.780
Long Tons Air	3,567.649	1,255.859	1,598.457	713.333
Short Tons Air	3,995.767	1,406.562	1,790.272	798.933
Pounds Air	7,991,534.00	2,813,124.00	3,580,544.00	1,597,866.00
Density 15°C		0.8378	0.8438	0.8438
API 60°F		37.30	36.10	36.10
RD 60/60°		0.8383	0.8443	0.8443
Total Calculated Volume				
Barrels 60°F	27,189.29	9,596.06	12,126.91	5,466.32
US gallons 60°F	1,141,950.18	403,034.52	509,330.22	229,585.44

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Product NO 6 Fuel Oil

Survey date: 30-Nov-2021

Shore Tank Inventory Subtotals - 1

Shore tank Subtotals	Totals	R-1	R-2	R-4	S-1
Gross Standard Volume					
Cu m 60°F	37,047.202	10,110.451	2,391.148	21,577.862	592.132
Barrels 60°F	233,019.88	63,592.82	15,039.87	135,720.66	3,724.40
US gallons 60°F	9,786,834.96	2,670,898.44	631,674.54	5,700,267.72	156,424.80
Metric Tons Vac	34,497.905	9,427.574	2,222.317	20,080.719	552.139
Metric Tons Air	34,458.661	9,416.866	2,219.783	20,057.860	551.512
Long Tons Air	33,914.439	9,268.141	2,184.725	19,741.077	542.801
Short Tons Air	37,984.172	10,380.318	2,446.892	22,110.006	607.937
Pounds Air	75,968,344.00	20,760,636.00	4,893,784.00	44,220,012.00	1,215,874.00
Density 15°C					
API 60°F		0.9328	0.9298	0.9310	0.9328
RD 60/60°		20.10	20.60	20.40	20.10
		0.9334	0.9303	0.9315	0.9334
Total Calculated Volume					
Barrels 60°F	233,019.88	63,592.82	15,039.87	135,720.66	3,724.40
US gallons 60°F	9,786,834.96	2,670,898.44	631,674.54	5,700,267.72	156,424.80

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Product NO 6 Fuel Oil

Survey date: 30-Nov-2021

Shore Tank Inventory Subtotals - 2

Shore tank Subtotals	S-3	S-4
Gross Standard Volume		
Cu m 60°F	1,190.578	1,185.031
Barrels 60°F	7,488.51	7,453.62
US gallons 60°F	314,517.42	313,052.04
Metric Tons Vac	1,110.164	1,104.992
Metric Tons Air	1,108.903	1,103.737
Long Tons Air	1,091.390	1,086.305
Short Tons Air	1,222.357	1,216.662
Pounds Air	2,444,714.00	2,433,324.00
Density 15°C	0.9328	0.9328
API 60°F	20.10	20.10
RD 60/60°	0.9334	0.9334
Total Calculated Volume		
Barrels 60°F	7,488.51	7,453.62
US gallons 60°F	314,517.42	313,052.04

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Shore tank PS-TANK INVENTORY-11-21-PALO SECO
Product NO 2 FUEL OIL

Survey date: 30 Nov 2021

Certificate of Quantity

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

	Gross	Net
Cubic meters 60°F	4,314.084	4,314.084
Barrels 60°F	27,134.77	27,134.77
US Gallons 60°F	1,139,660.34	1,139,660.34
Metric Tons vac	3,629.526	3,629.526
Metric Tons air	3,624.898	3,624.898
Long Tons	3,567.649	3,567.649
Short Tons	3,995.767	3,995.767
Pounds	7,991,534.00	7,991,534.00

These quantities have been determined by measurement of shore tanks.

B/L API 60°F	36.52
B/L Density 15°C	0.8417
B/L Density 20°C	0.8382
B/L RD 60/60°F	0.8422

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	1.001276684
Barrels 60°F to Metric Tons Air	MPMS 11.5.1 - 4.15	0.1335906152
Barrels 60°F to Long Tons	MPMS 11.5.1 - 4.12	0.1314807556
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 NO 6 Fuel Oil
Survey date: 30 Nov 2021

Certificate of Quantity

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

	Gross	Net
Cubic meters 60°F	37,047.202	37,047.202
Barrels 60°F	233,019.88	233,019.88
US Gallons 60°F	9,786,834.96	9,786,834.96
Metric Tons vac	34,497.905	34,497.905
Metric Tons air	34,458.661	34,458.661
Long Tons	33,914.439	33,914.439
Short Tons	37,984.172	37,984.172
Pounds	75,968,344.00	75,968,344.00

These quantities have been determined by measurement of shore tanks.

B/L API 60°F	20.31
B/L Density 15°C	0.9316
B/L Density 20°C	0.9282
B/L RD 60/60°F	0.9321

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	1.00113884
Barrels 60°F to Metric Tons Air	MPMS 11.5.1 - 4.15	0.1478755435
Barrels 60°F to Long Tons	MPMS 11.5.1 - 4.12	0.1455400753
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