

PUERTO RICO ELECTRIC (B/R) POWER AUTHORITY
P.O. BOX 4267
00936 SAN JUAN
Puerto Rico
Mr. M. Rios
CS-TANKINVENTORY-8-22



Job No 13101/00016756.0000/01/I/22
Report date 01 Sep 2022
Installation Penuelas, Puerto Rico, Central Costa Sur

Shore tank CS-TANKINVENTORY-8-22

Product Fuel Oil # 6, Fuel Oil # 2

Survey date: 31-Aug-2022, 31-Aug-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: 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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Shore tank CS-TANKINVENTORY-8-22

Product Fuel Oil # 2

Shore Tank Measurement Details

Survey date: 31-Aug-2022

Shore tank TG-1(LDS)

Measurement data (Innage)		Open	Close
Average	FT/IN	32-10 3/8	
Temperature			
Average temp.	°F	87.7	
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		CS51067	
Temperature Equipment used		Saybolt Equipment	
Temperature equipment number		Portable Electronic Thermometer	
Inspector Equipment used for verification?		TP9-02088	
Inspector name		Yes	
		Javier Velasquez	

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Shore tank CS-TANKINVENTORY-8-22

Product Fuel Oil # 6

Shore Tank Measurement Details

Survey date: 31-Aug-2022

Shore tank R-2

Measurement data (Innage)		Open	Close
Average	FT/IN	37-9 1/4	
Temperature			
Average temp.	°F	92.4	
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		CS51067	
Temperature equipment type		Saybolt Equipment	
Temperature Equipment used		Portable Electronic Thermometer	
Temperature equipment number		TP9-02088	
Inspector Equipment used for verification?		Yes	
Inspector name		Javier Velasquez	

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Shore tank CS-TANKINVENTORY-8-22

Product Fuel Oil # 6

Shore Tank Measurement Details

Survey date: 31-Aug-2022

Shore tank R-3

Measurement data (Innage)		Open	Close
Average	FT/IN	14-1 3/8	
Temperature			
Average temp.	°F	98.5	
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		CS51067	
Temperature equipment type		Saybolt Equipment	
Temperature Equipment used		Portable Electronic Thermometer	
Temperature equipment number		TP9-02088	
Inspector Equipment used for verification?		Yes	
Inspector name		Javier Velasquez	

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Shore tank CS-TANKINVENTORY-8-22
Product Fuel Oil # 2

Shore Tank Inventory Report

Shore tank measurement		Totals	TG-1(LDS)
Open measurement			
Date/time of measurement		01 Jul 2022	09:45
Average Innage	FT/IN		32-10 3/8
Average temp.	°F		87.7
T.O.V.	Barrels		5,630.00
Water	FT/IN		00-01 3/8
Water	Barrels		19.57
Ambient temp.	°F		88.00
Tank shell temp.	°F		88.00
CTsh			1.00035
G.O.V.	Barrels		5,612.39
API 60°F			35.90
V.C.F.	6B		0.98705
G.S.V.	barrels 60°F		5,539.71
W.C.F.	MPMS 11.5.1.4.12		0.1319684164
W.C.F.	MPMS 11.5.1.4.15		0.1340861015
Long Tons			731.067
Metric Tons Air			742.798
Subtotals			
G.S.V.	barrels 60°F	5,539.71	5,539.71
Long Tons		731.067	731.067

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-TANKINVENTORY-8-22
Product Fuel Oil # 6

Shore Tank Inventory Report

Shore tank measurement		Totals	R-2	R-3
Open measurement				
Date/time of measurement			31 Aug 2022 23:59	31 Aug 2022 21:10
Average Innage	FT/IN		37-9 1/4	14-1 3/8
Average temp.	°F		92.4	98.5
T.O.V.	Barrels		72,504.56	232,894.91
Water	Barrels		0.00	0.00
Ambient temp.	°F		76.00	78.00
Tank shell temp.	°F		90.00	96.00
CTsh			1.00037	1.00045
G.O.V.	Barrels		72,531.39	232,999.71
API 60°F			20.10	20.00
V.C.F.	6B		0.98669	0.98419
G.S.V.	barrels 60°F		71,566.00	229,315.98
W.C.F.	MPMS 11.5.1.4.12		0.1457419409	0.1458382641
W.C.F.	MPMS 11.5.1.4.15		0.1480806485	0.1481785173
Long Tons			10,430.168	33,443.044
Metric Tons Air			10,597.540	33,979.702
Subtotals				
G.S.V.	barrels 60°F	300,881.98	71,566.00	229,315.98
Long Tons		43,873.212	10,430.168	33,443.044

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-TANKINVENTORY-8-22
Product Fuel Oil # 2

Shore Tank Inventory Subtotals

Shore tank Subtotals	Totals	TG-1(LDS)
Gross Standard Volume		
Cu m 60°F	880.744	880.744
Barrels 60°F	5,539.71	5,539.71
US gallons 60°F	232,667.82	232,667.82
Metric Tons Vac	743.742	743.742
Metric Tons Air	742.798	742.798
Long Tons Air	731.067	731.067
Short Tons Air	818.795	818.795
Pounds Air	1,637,590.00	1,637,590.00
Density 15°C		0.8449
API 60°F		35.90
RD 60/60°		0.8453
Total Calculated Volume		
Barrels 60°F	5,559.28	5,559.28
US gallons 60°F	233,489.76	233,489.76

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Product Fuel Oil # 6

Shore Tank Inventory Subtotals

Shore tank Subtotals	Totals	R-2	R-3
Gross Standard Volume			
Cu m 60°F	47,836.414	11,378.085	36,458.329
Barrels 60°F	300,881.98	71,566.00	229,315.98
US gallons 60°F	12,637,043.16	3,005,772.00	9,631,271.16
Metric Tons Vac	44,627.903	10,609.591	34,018.312
Metric Tons Air	44,577.242	10,597.540	33,979.702
Long Tons Air	43,873.212	10,430.168	33,443.044
Short Tons Air	49,137.997	11,681.788	37,456.209
Pounds Air	98,275,994.00	23,363,576.00	74,912,418.00
Density 15°C		0.9328	0.9335
API 60°F		20.10	20.00
RD 60/60°		0.9334	0.9340
Total Calculated Volume			
Barrels 60°F	300,881.98	71,566.00	229,315.98
US gallons 60°F	12,637,043.16	3,005,772.00	9,631,271.16

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Product Fuel Oil # 6
Survey date: 31 Aug 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	47,836.414	47,836.414
Barrels 60°F	300,881.98	300,881.98
US Gallons 60°F	12,637,043.16	12,637,043.16
Metric Tons vac	44,627.903	44,627.903
Metric Tons air	44,577.242	44,577.242
Long Tons	43,873.212	43,873.212
Short Tons	49,137.997	49,137.997
Pounds	98,275,994.00	98,275,994.00

These quantities have been determined by measurement of shore tanks.

B/L API 60°F	20.02
B/L Density 15°C	0.9333
B/L Density 20°C	0.9299
B/L RD 60/60°F	0.9339

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	1.00113649
Barrels 60°F to Metric Tons Air	MPMS 11.5.1 - 4.15	0.1481589332
Barrels 60°F to Long Tons	MPMS 11.5.1 - 4.12	0.1458189893
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 # 2

Survey date: 31 Aug 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	880.744	880.744
Barrels 60°F	5,539.71	5,539.71
US Gallons 60°F	232,667.82	232,667.82
Metric Tons vac	743.742	743.742
Metric Tons air	742.798	742.798
Long Tons	731.067	731.067
Short Tons	818.795	818.795
Pounds	1,637,590.00	1,637,590.00

These quantities have been determined by measurement of shore tanks.

B/L API 60°F	35.90
B/L Density 15°C	0.8449
B/L Density 20°C	0.8414
B/L RD 60/60°F	0.8453

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	1.001271274
Barrels 60°F to Metric Tons Air	MPMS 11.5.1 - 4.15	0.1340861015
Barrels 60°F to Long Tons	MPMS 11.5.1 - 4.12	0.1319684164
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