

PUERTO RICO ELECTRIC (B/R) POWER AUTHORITY
P.O. BOX 4267
00936 SAN JUAN
Puerto Rico
Mr. M. Rios
CS-END OF MONTH-5-21



Job No 13101/00015975.0000/01/I/21
Report date 20 May 2021
Installation Guayanilla, Puerto Rico, Puerto Electric Power Auth.

Shore tank CS-END OF MONTH-5-21-COSTA SUR

Product DIESEL OIL, Fuel Oil

Survey date: 17-May-2021, 17-May-2021

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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 13 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-END OF MONTH-5-21-COSTA SUR

Product DIESEL OIL

Survey date: 17-May-2021

Shore Tank Measurement Details

Shore tank TG-1

Measurement data (Innage)	Open	Close
Average FT/IN	19-7 11/16	

Temperature

Measurement Equipment Data

	Open
Water measurement used	Paste
Water paste used	k/k
Gauging equipment type	Saybolt Equipment
Gauging Equipment used	Manual Tape
Gauging equipment number	CS-19990
Temperature equipment type	Saybolt Equipment
Temperature Equipment used	Portable Electronic Thermometer
Temperature equipment number	TP9-02532
Inspector Equipment used for verification?	Yes
Inspector name	JVelasquez

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Shore tank CS-END OF MONTH-5-21-COSTA SUR

Product Fuel Oil

Survey date: 17-May-2021

Shore Tank Measurement Details

Shore tank 950

Measurement data (Innage)	Open	Close
Average FT/IN	46-1 5/8	

Temperature

Measurement Equipment Data

	Open
Water measurement used	Paste
Water paste used	k/k
Gauging equipment type	Saybolt Equipment
Gauging Equipment used	Manual Tape
Gauging equipment number	CS-19990
Temperature equipment type	Saybolt Equipment
Temperature Equipment used	Portable Electronic Thermometer
Temperature equipment number	TP9-02532
Inspector Equipment used for verification?	Yes
Inspector name	JVelasquez

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Shore tank CS-END OF MONTH-5-21-COSTA SUR

Product Fuel Oil

Survey date: 17-May-2021

Shore Tank Measurement Details

Shore tank 951

Measurement data (Innage)	Open	Close
Average FT/IN	39-5 13/16	

Temperature

Measurement Equipment Data

	Open
Water measurement used	Paste
Water paste used	k/k
Gauging equipment type	Saybolt Equipment
Gauging Equipment used	Manual Tape
Gauging equipment number	CS-19990
Temperature equipment type	Saybolt Equipment
Temperature Equipment used	Portable Electronic Thermometer
Temperature equipment number	TP9-02532
Inspector Equipment used for verification?	Yes
Inspector name	JVelasquez

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Shore tank CS-END OF MONTH-5-21-COSTA SUR

Product Fuel Oil

Survey date: 17-May-2021

Shore Tank Measurement Details

Shore tank R-2

Measurement data (Innage)	Open	Close
Average FT/IN	39-5	

Temperature

Measurement Equipment Data

	Open
Water measurement used	Paste
Water paste used	k/k
Gauging equipment type	Saybolt Equipment
Gauging Equipment used	Manual Tape
Gauging equipment number	CS-19990
Temperature equipment type	Saybolt Equipment
Temperature Equipment used	Portable Electronic Thermometer
Temperature equipment number	TP9-02532
Inspector Equipment used for verification?	Yes
Inspector name	JVelasquez

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Shore tank CS-END OF MONTH-5-21-COSTA SUR

Product Fuel Oil

Survey date: 17-May-2021

Shore Tank Measurement Details

Shore tank R-3

Measurement data (Innage)	Open	Close
Average FT/IN	11-0 3/8	

Temperature

Measurement Equipment Data

	Open
Water measurement used	Paste
Water paste used	k/k
Gauging equipment type	Saybolt Equipment
Gauging Equipment used	Manual Tape
Gauging equipment number	CS-19990
Temperature equipment type	Saybolt Equipment
Temperature Equipment used	Portable Electronic Thermometer
Temperature equipment number	TP9-02532
Inspector Equipment used for verification?	Yes
Inspector name	JVelasquez

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Shore tank CS-END OF MONTH-5-21-COSTA SUR

Product DIESEL OIL, Fuel Oil

Survey date: 17-May-2021, 17-May-2021

Sample Report

Grade	Description	Sealed	Distribution	Amount	Volume
DIESEL OIL	Shore tank LDS:Running from shore tank during for retention only	Open	Retain	1	1 quarts
Fuel Oil	Shore tank 950:Running from shore tank during for retention only	Open	Retain	1	1 quarts
Fuel Oil	Shore tank 951:Running from shore tank during for retention only	Open	Retain	1	1 quarts
Fuel Oil	Shore tank R-2:Running from shore tank during for retention only	Open	Retain	1	1 quarts
Fuel Oil	Shore tank R-3:Running from shore tank during for retention only	Open	Retain	1	1 quarts
Total Samples				5	

Vessel's samples were taken using vessel's closed sampling system.

Information

Samples drawn by	Saybolt Inspector
Shoretank sampling location	Top of tank
Type / condition of sampling containers	Clean glass bottles/tins
Loadport samples delivered by	Saybolt Inspector
received by	Vessel

Remarks:

Samples retained by Saybolt will be held for 90 days (unless otherwise specified) at the end of which they shall be disposed of.

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Shore tank CS-END OF MONTH-5-21-COSTA SUR

Product DIESEL OIL

Survey date: 17-May-2021

Shore Tank Inventory Report

Shore tank measurement		Totals	TG-1
Open measurement			
Date/time of measurement		17 May 2021	10:50
Average Innage	FT/IN	19-7	11/16
Average temp.	°F		86.1
T.O.V.	Barrels		3,615.00
Water	FT/IN		
Water	Barrels		
Line content	Barrels		
Floating roof	Barrels		
Ambient temp.	°F		86.00
Tank shell temp.	°F		86.00
CTsh			1.00032
G.O.V.	Barrels		3,616.16
API 60°F			39.10
V.C.F.	6B		0.98739
G.S.V.	barrels 60°F		3,570.56
W.C.F.	MPMS 11.5.1.4.12		0.1294895213
W.C.F.	MPMS 11.5.1.4.15		0.1315674278
Long Tons			462.350
Metric Tons Air			469.769
N.S.V.	barrels 60°F		
Net Long Tons			
Subtotals			
G.S.V.	barrels 60°F	3,570.56	3,570.56
Long Tons		462.350	462.350

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-END OF MONTH-5-21-COSTA SUR

Product Fuel Oil

Survey date: 17-May-2021

Shore Tank Inventory Report

Shore tank measurement		Totals	950	951	R-2	R-3
Open measurement						
Date/time of measurement		17 May 2021 08:20	17 May 2021 08:40	17 May 2021 10:05	17 May 2021 09:41	
Average Innage	FT/IN	46-1 5/8	39-5 13/16	39-5	11-0 3/8	
Average temp.	°F	88.5	88.5	82.4	83.8	
T.O.V.	Barrels	144,796.73	123,695.19	61,463.11	253,617.91	
Water	FT/IN					
Water	Barrels					
Line content	Barrels					
Floating roof	Barrels					
Ambient temp.	°F	84.00	84.00	86.00	86.00	
Tank shell temp.	°F	88.00	88.00	83.00	84.00	
CTsh		1.00035	1.00035	1.00029	1.00030	
G.O.V.	Barrels	144,847.41	123,738.48	61,480.93	253,694.00	
API 60°F		15.00	14.10	14.70	14.70	
V.C.F.	6B	0.98880	0.98889	0.99123	0.99068	
G.S.V.	barrels 60°F	143,225.12	122,363.75	60,941.74	251,329.57	
W.C.F.	MPMS 11.5.1.4.12	0.1508220846	0.1517555241	0.1511319542	0.1511319542	
W.C.F.	MPMS 11.5.1.4.15	0.1532423128	0.1541907311	0.1535571548	0.1535571548	
Long Tons		21,601.511	18,569.375	9,210.244	37,983.929	
Metric Tons Air		21,948.149	18,867.356	9,358.040	38,593.454	
N.S.V.	barrels 60°F					
Net Long Tons						
Subtotals						
G.S.V.	barrels 60°F	577,860.18	143,225.12	122,363.75	60,941.74	251,329.57
Long Tons		87,365.059	21,601.511	18,569.375	9,210.244	37,983.929

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-END OF MONTH-5-21-COSTA SUR
Product DIESEL OIL

Survey date: 17-May-2021

Shore Tank Inventory Subtotals

Shore tank Subtotals	Totals	TG-1
Gross Standard Volume		
Cu m 60°F	567.674	567.674
Barrels 60°F	3,570.56	3,570.56
US gallons 60°F	149,963.52	149,963.52
Metric Tons Vac	470.379	470.379
Metric Tons Air	469.769	469.769
Long Tons Air	462.350	462.350
Short Tons Air	517.832	517.832
Pounds Air	1,035,664.00	1,035,664.00
Density 15°C		0.8290
API 60°F		39.10
RD 60/60°		0.8294
Net Standard Volume		
Cu m 60°F	567.674	
Barrels 60°F	3,570.56	
US gallons 60°F	149,963.52	
Metric Tons Vac	470.379	
Metric Tons Air	469.769	
Long Tons Air	462.350	
Short Tons Air	517.832	
Pounds Air	1,035,664.00	
Total Calculated Volume		
Barrels 60°F	3,570.56	3,570.56
US gallons 60°F		149,963.52

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Shore tank CS-END OF MONTH-5-21-COSTA SUR

Product Fuel Oil

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Shore Tank Inventory Subtotals

Shore tank Subtotals	Totals	950	951	R-2	R-3
Gross Standard Volume					
Cu m 60°F	91,872.433	22,770.976	19,454.283	9,688.963	39,958.211
Barrels 60°F	577,860.18	143,225.12	122,363.75	60,941.74	251,329.57
US gallons 60°F	24,270,127.56	6,015,455.04	5,139,277.50	2,559,553.08	10,555,841.94
Metric Tons Vac	88,863.826	21,972.156	18,887.849	9,368.252	38,635.569
Metric Tons Air	88,766.999	21,948.149	18,867.356	9,358.040	38,593.454
Long Tons Air	87,365.059	21,601.511	18,569.375	9,210.244	37,983.929
Short Tons Air	97,848.865	24,193.692	20,797.700	10,315.473	42,542.000
Pounds Air	195,697,730.00	48,387,384.00	41,595,400.00	20,630,946.00	85,084,000.00
Density 15°C		0.9653	0.9713	0.9673	0.9673
API 60°F		15.00	14.10	14.70	14.70
RD 60/60°		0.9659	0.9718	0.9679	0.9679
Net Standard Volume					
Cu m 60°F	91,872.433				
Barrels 60°F	577,860.18				
US gallons 60°F	24,270,127.56				
Metric Tons Vac	88,863.826				
Metric Tons Air	88,766.999				
Long Tons Air	87,365.059				
Short Tons Air	97,848.865				
Pounds Air	195,697,730.00				
Total Calculated Volume					
Barrels 60°F	577,860.18	143,225.12	122,363.75	60,941.74	251,329.57
US gallons 60°F		6,015,455.04	5,139,277.50	2,559,553.08	10,555,841.94

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Shore tank CS-END OF MONTH-5-21-COSTA SUR

Product Fuel Oil

Survey date: 17 May 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	91,872.433	91,872.433
Barrels 60°F	577,860.18	577,860.18
US Gallons 60°F	24,270,127.56	24,270,127.56
Metric Tons vac	88,863.826	88,863.826
Metric Tons air	88,766.999	88,766.999
Long Tons	87,365.059	87,365.059
Short Tons	97,848.865	97,848.865
Pounds	195,697,730.00	195,697,730.00

These quantities have been determined by measurement of shore tanks.

B/L API 60°F	14.65
B/L Density 15°C	0.9676
B/L Density 20°C	0.9642
B/L RD 60/60°F	0.9682

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	1.001090832
Barrels 60°F to Metric Tons Air	MPMS 11.5.1 - 4.15	0.1536097542
Barrels 60°F to Long Tons	MPMS 11.5.1 - 4.12	0.1511837228
Long Tons to Short Tons	MPMS 11.5 - Annex D	1.12

Signed by: Saybolt representative

Name:

Rank: Saybolt Inspector

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Product DIESEL OIL

Survey date: 17 May 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	567.674	567.674
Barrels 60°F	3,570.56	3,570.56
US Gallons 60°F	149,963.52	149,963.52
Metric Tons vac	470.379	470.379
Metric Tons air	469.769	469.769
Long Tons	462.350	462.350
Short Tons	517.832	517.832
Pounds	1,035,664.00	1,035,664.00

These quantities have been determined by measurement of shore tanks.

B/L API 60°F	39.10
B/L Density 15°C	0.8290
B/L Density 20°C	0.8254
B/L RD 60/60°F	0.8294

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	1.001298571
Barrels 60°F to Metric Tons Air	MPMS 11.5.1 - 4.15	0.1315674278
Barrels 60°F to Long Tons	MPMS 11.5.1 - 4.12	0.1294895213
Long Tons to Short Tons	MPMS 11.5 - Annex D	1.12

Signed by: Saybolt representative

Name:

Rank: Saybolt Inspector