Amman Strategic Reserve Terminal for Petroleum Products

				CONSULTING ENGINEERS	
	OMJ DOCU	MENT	ILI	F COMMENT SI	HEET
No.	OMJ-DAT	-SRT-ST-0022	No.	SRT-OMJ-D	CS-0014-
Rev.	В		Date	14.11.2014	
Status		A: Approve	d		(APP)
	\boxtimes	B: Approve	d as noted	d	(AAN)
		D: For Info	rmation		(INF)

0	28/05/2015	Approved for consti	ruction	CLOB	MAPM	PBB	IGC
В	10/10/2014	Issued for Revi	ew	CLOB	MAPM	PBB	IGC
Rev.	Date	Issue Purpose / Description		Prepared	Checked	Approved	Accepted
Ministry Of En	ERGY & MINERAL RESOURCES	THE HA MINISTRY OF	ASHEMITE K FENERGY A				
	DNSULTING NGINEERS	Document Title STORAGE TANKS-I PI	DIESEL TAI RELIMINAR			012/013/014	4/015/016
Contractor		Contractor's Doc. No.	C	official Docume	ent Number		Rev. Code
OHL Industrial and CONTRACTION OHLI-MID Joint Venture for ASTEP Project - Animan, Jordan		P40341-EE-100-ME-HE- 00G003	OM	J-DAT-SR	T-ST-002	2	0

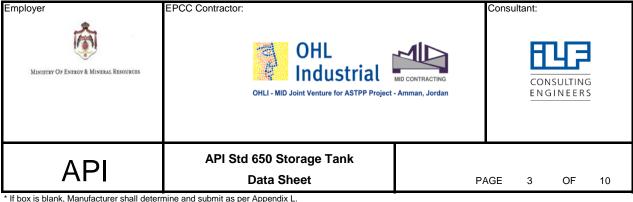


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API	API Std 650 Storage Tank Data Sheet	PAGE 2 OF 10
* For boxes marked with *, if blank, Mfr. St	nall determine and submit as per Appendix L. For all lines,	see Appendix L for line-by-line instructions.
GENERAL Special Documentation Pack	age Requirements: OMJ-SPC-SRT-ST-0001 STORAGE TANKS-VERTIC	CAL STORAGE TANKS-SPECIFICATION
Measurement Units to be used in API Sto	d 650: SI X US Customary	
Manufacturer*	Contract No.* OMJ-REQ-SRT-ST-	0029 / 4B005
Address*		
Mfg. Serial No. To be completed by	Mfg. Year Built* 2016	Edition & Addendum to API 650* 12 th Edition, 2013
Purchaser OHL-MID JV (OMJ)	c	ontract No. OMJ-REQ-SRT-ST-0029 / 4B005
Address 675 Amman 11821 Jorda	n // Mousa Abdulsalam Haneyah St. Bldg.#(28)	
	GE TANKS, Tag No. SRT-T-25-011/012/013/014/15/016	
3. Owner/Operator Ministry of Energy a	and Mineral Resources of Jordan	Location Amman Strategic Reserve Terminal for Petroleum Product
Size Limitations*	Tank	Diameter* Shell Height* 23,0
Capacity: Maximum* 34,000 m ³	Net Working* 30,000	Criteria* API 2350
5. Products Stored: Diesel		
Liquid	Max. S.G.: 0,87 at	<u>15</u> ° <u>C</u>
Blanketing Gas N/A		PSIA at Max. Operating Temp.
% Aromatic Suppl. Spec		Suppl. Spec.
Other Special Service Conditions?	Yes No Suppl. Spec.	<u> </u>
DESIGN AND TESTING	Purchaser to Review Design Pric	or to Ordering Material?
Applicable API Standard 650 Append	dices:* A B C F G H I I J	
7. Max. Design. Temp. 60	C Design Metal Temp.* (MIN) -10 C Design	n Liquid Level* 20,685m
Design Pressure ATM E	xternal Pressure N/A Maximum Fill Rate	284 m³/h Maximum Emptying Rate 284 m³/h
Floatation Considerations?Yes 1	No Flot. Suppl. Spec:*	Applied Supplemental Load Spec.
8. Seismic Design? Yes No	Appendix E Alternate Seismic Criteria VERTI	SPC-SRT-ST-0002 STORAGE TANKS-ICAL STORAGE TANKS-DESIGN BASIS Geismic Use Group
MBE Site Class C	tical Seismic Design? Yes X No Vertica	I Ground Motion Accelerator A _V : 0,32 (g)
Basis of Lateral Acceleration (Select	one): \square Mapped Seismic Parameters? $S_s = 0.375$ S_1	0,175 S ₀ ; Site-Specific Procedures: MCE
Design Required? Yes X No	; Other (Non-ASCE) Methods	
Freeboard Required for SUG I	Design Roof Tie Rods @ Outer Ring?*Yes No	
9. Wind Velocity for non-U.S. sites, 50-	yr. wind speed (3-sec. Gust)* 160 km/h	
Top Wind Girder Style* Detail "e" Fi	g 5.24 Dimensions* Min 1,000 x 7 mm	Use Top Wind Girder as Walkway? Yes X No
Intermediate Wind Girders?* Yes	No Intermediate Wind Girder Style*	Dimensions*
Check Buckling in Corroded Cond.?	Yes No	· · · · · · · · · · · · · · · · · · ·
10. Shell Design: 1-Ft Mthd?* Yes	No ; Variable-Des-Pt Mthd?* Yes No Alterna	ate ; Elastic Anal. Mthd?* Yes No Alternate
Plate Stacking Criteria* Centerlin	e-Stacked? Yes No Flush-Stacked? Yes X	No Inside X Outside
Plate Widths (Shell course height	s) and Thicknesses * Numbers below Indicate Course Nun	nt
1. 2400 x 23 mm 2. 2 400 x 23 mm	400 x 19.8 mm 3. 2400 x 17.3 mm 4.	2400 x 14.7 mm 5. 2400 x 12.3 mm
	400 x 12 mm 8. 2400 x 11 mm 9.	2000 x 11 mm 10. 1800 x 11 mm
11 12	13 14.	15
Joint Efficiency*	% Shell-to-Bottom Weld Type*	Shell-to-Bottom Weld Insp. Mthd* Diesel oil and chalk
Approvals:	Revisions:	Title: Storage Tanks-Diesel-Preliminary Data Sheet
		By: Ck'd: Date: Rev 0 Drawing No.: OMJ-DAT-SRT-ST-0022 \$heet 2 of 10
		Drawing No.: OMJ-DAT-SRT-ST-0022 Sheet 2 of 10



If box is blank, Manufacturer shall determine and submit as per Appendix L. 11. Open-Top and Fixed Roofs: (See Sheet 6 for Floating Roofs)

Open Top?* Yes X No Fixed Roof Type* Roof Support Columns*: Pipe Or Structural Shape

Cone Slope* Dome or Umbrella Radius* Weld Joints* (Lap, Butt, Other) Seal Weld Underside of: Lap Joints? Yes No ; Seal Weld Underside of Wind Girder Joints? Yes No Gas-tight? Yes No Joint Efficiency* ______% Thickness* In. Snow Load* App. Suppl. Load Spec.* Column Lateral Load

Normal Venting Devices* YES Emergency Venting Devices* For Non-Frangible Roofs: Seal Weld Roof Plates to Top Angle on the Inside? Yes No ; Weld Rafters to Roof Plates? Yes No Radial Projection of Horizontal Component of Top Angle* Inward Outward Roof-to-Shell Detail' 12. Bottom: Thickness* INNER 6; OUT 8 Style* Cone up Slope* 1:100 Weld Joint Type* Provide Drip Ring? Yes No No Alternate Spec. Yes No Annular Ring: Minimum Radial Width* 1300 mm Thickness* 11.5 mm Annular Ring? Foundation: Furnished by* Contractor

Soil Allow: Bearing Pressure

Per Spec.*

Per Spec.*

Anchors: Size* N/A Qty.* 13. Foundation: Furnished by* Contractor Foundation Design Loads: Base Shear Force: Wint 54 Tn Seismic* 3000 Tn Overturning Moment: Wind* 625 m Tn Seismic* 23400 m Tn Ring Forces: Weight of Shell + Roof New Corroded* Roof Live Load* Internal Pressure* Partial Vacuum* Wind* Seismic*

Bottom Forces: Floor Wt. New Corroded* Product Wt.* Water Wt.* Internal Pressure*

Partial Vacuum Other Foundation Loads* Min. Projection of Fdn. Above Grade: 14. Responsibility for Heating Water, if Required: Purchaser Manufacturer Hydro-Test Fill Height 20,685 Settlement Measurements Required? Yes No Extended Duration of Hydro-Test: Predicted Settlement Profile is Attached Purchaser Manufacturer Responsibility for Setting Water Quality: Supplemental Test Water Quality Spec. Hydro-Test Appendix J Tank? Yes No Test Water Source & Disposal Tie-In Location Contractor Post-Pressure-Test Activities Required of the Manufacturer: Broom Clean Potable Water Rinse Dry Interior Other X INTERIOR COATING AS REQUIRED 15. Inspection by Third Party; Requirements acc. to specification in Shop; Third Party acc. To Specification Supplemental NDE Responsibility Supplemental NDE Spec. OMJ-SPC-SRT-0001 Storage Tanks-Vertical StorageTanks-Specification (Purch., Mfg., Other) Positive Material Identification? Yes No No PMI Requirements: Max. Plate Thickness for Shearing Must Welds not exceeding 6 mm (1 /₄ in.) Be Multi-Pass?Yes No Must Welds greater than 6 mm (1 /₄ in.) Be Multi-F Title: Yes No Leak Test Mthd: Roof Shell* By Hydro Test Shell Noz./Manhole Reinf. Plt By Air Pressure At 15 P.S.I.G Bottom* By Partial Vacuum At 3-5 P.S.I Floating Roof Components* As Per API650 Cause No. C.4 Modify or Waive API Dimensional Tolerances (see 7.5)? No Yes Specify: OMJ-SPC-SRT-0001 STORAGE TANKS-VERTICAL STORAGE TANKS SPEC Specify Additional Tolerances, if any, and Circumferential and Vertical Measurement Locations: - Allowable Plumbness: Measure and Record at a Minimum of Locations or Every m (ft) around the Tank, at the Following Shell Heights: (select one box): 1/3 H, 2/3 H and H Top of Each Shell Course Other:

- Allowable Roundness:** Measure Radius and Record at a Minimum of Locations or Every m (ft) around the Tank, at the Following Shell Heights (select one box): Top of Tank, H Top of Each Shell Course Other: **See Data Sheet Instructions for the Maximum Allowable Additional Radial Tolerance. Approvals: Revisions: Ck'd: Drawing No.: OMJ-DAT-SRT-ST-0023 Sheet 3 of 10

Employer WINISTRY OF ENERGY & MINERAL RESOURCES	OHL Industrial OHLI - MID Joint Venture for ASTPP Proje	MID CONTRACTING ect - Amman, Jordan	Consu	CON	SULTING SINEERS	
API	API Std 650 Storage Tank Data Sheet	P	'AGE	4	OF	10

16.	Coatings:							
	Internal Coatings by: Manufacturer		Per Spec.	* OMJ-SPC-SRT-0001 Storag	ge Tank-Vertical	Storage Tank Specificatio	n	
					'd., Others, Ta	· ,		
	External Coating by: Manufacturer		Per Spec.	* OMJ-SPC-SRT-0001 Storag			n	
	Casting by Manufacture		Day Choo		'd., Others, Ta	· ,		ĺ
	Under-Bottom Coating by: Manufacture		Per opec.	* OMJ-SPC-SRT-0001 Storag	ge Tank-Vertical : 'd., Others, Ta		<u>n</u>	
17.			Per Spec.* OMJ	I-SPC-SRT-EL-0202 Ge	eneral - Catho	odic Protection for 1	Гanks - Spec	ificatio
18.				SPC-SRT-IN-0021 Instrume	entation-Tank B	Sottom Leakage Detectio	n System-Spec	ification
19.	Release Prevention Barrier? Ye		Per Spec.*					
20.	Tank Measurement System: Required?	Yes X No	=	Capability Required?	Yes No			
	By:* Manufacturer		Per Spec.	*			_	
21.	Weight of Tank: Full of Water* 36200 Tr	Empty*	850 Tn	Shipping*	Bra	ace/Lift Spec.*		
22.	References:* API Std 650, Appendix L							
20/0	Other references: OMJ-SPC-SRT-EL-000	02 STORAGE TAN	KS VERTICAL S	TORAGE TANKS-DESI	SIGN BASIS			
28/0	3							
	Remarks:* 1) ALL TANKS SHALL BE PROVIDED W 6 mm THK MINIMUM. ROOF MATER 2) ALL TANKS SHALL HAVE DOUBLE E AND FILLED WITH WIRE MESH AS: INNER BOTTOM SHALL BE 6m THK OUTER BOTTOM SHALL HAVE AN A 3) ALL TANKS SHALL HAVE AN AUTOM 4) ALL THICKNESS MENTIONED ON TH SHALL BE ALLOWED. 15) TANK HEIGHT AND SHELL COURSE MATERIAL NOTES a) MAT ASTM A 573 Gr 70 GROUP V SH MAX AND CE MAX 0.43% (see Storage) b) MAT ASTM A 573 Gr 70 GROUP IVA MAX AND MAX Mn 1.6% (see API 65 c) MAT ASTM A 36 GROUP II SHALL BE OF 0,80% TO 1.2% BY HEAT ANALY FICOMJ-DAT-SRT-ST-0022 MAX 0,43 (see Storage Tanks Specific	RIAL SHALL BE AS' BOTTOM WITH AC' PER OMJ-DWG-SF C. OUTER BOTTOM ANNULAR RING M. MATIC BOTTOM W HIS DATA SHEET ES WIDTH AND TH HALL BE NORMAL age Tanks Specifical SHALL BE NORMA 50 para 4,2,7,4) IN A E FULLY KILLED AL YSIS (see API 650	TM A 283 GR C (TIVE LEAK DETI RT-ST-0001 TO (I SHALL BE 8mm ATERIAL ASTM ATER DRAIN SY ARE TO BE TAK IJCKNESSES HA IZED, FULLY KIL tion) ALIZED, FULLY MADDITION CE M. ND MADE TO FI	GROUP 1. ECTION SYSTEM. DOU 0006 IN THK. A 573 Gr 70 GROUP V YSTEM WITH 4 NOZZL EN AS MINIMUM THICH VE TO BE CONFIRMED LLED AND MADE TO F KILLED AND MADE TO AX SHALL BE 0.43% (s NE GRAIN PRACTISE	UBLE BOTTO / , 1300mm W LES. CNESSES AFT ED BY MANUF FINE-GRAIN P O FINE-GRAIN P O FINE-GRAIN P WITH CARBO	OM SHALL BE MATER VIDTH x 11.5mm THK TER FORMING. NO U FACTURER. PRACTISE WITH CAP IN PRACTISE WITH C Tanks Specification) ON CONTENT 0,23%	RIAL ASTM A C. UNDERTOLE RBON CONTI ARBON CON MAX AND M	A 283 Gr C ERANCES ENT 0,23% NTENT 0,29
					Title:	:: Storage Tanks-Diesel-Pr	eliminary Data S	Sheet
Appr	ovals:	Revisions:			Title:	: Storage Tanks-Diesel-Pr	eliminary Data S	Sheet
					Ву:	Ck'd:	Date:	Rev 0
					Drawin 0023	ng No.: OMJ-DAT-SRT-ST-	Sheet 4	of 10

Data Sheet

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Table 1 MATERIALS OF CONSTRUCTION								
Component	Material*/Thickness*	C.A.	Component	Material*	C.A.			
Shell, Course _1 to _2	A573 Gr. 70 Group V	1 mm	Reinforcing Pads	Acc to Shell Material				
Shell, Course _3 to _6	A573 Gr. 70 Group IVA	1 mm	Manhole/Nozzle Necks	Acc to shell / A 106 Gr B	1 mm			
Shell, Course _7 to _10	A36 Group II killed	1 mm	Manhole/Nozzle Flanges	Acc to shell / A 105	1 mm			
Shell, Course to			Flange Covers	A 105				
Shell, Course to			Anchor Attachments					
Roof	A283 Gr. C Group I	1 mm	Submerged Piping	A 106 Gr B	1 mm			
Bottom inner / outter	A283 Gr. C Group I	0 mm / 2 mm	Wetted Structurals					
Annular Ring	A573 Gr. 70 Group V	2 mm	Non-wetted Structurals	A 36 OR SIMILAR				

Table 2 BOLTS and ANCHORS

	Table 2 Boll of and Artoriotto									
Component	Head Type*	Bolt or Anchor Material*	Nut Material*	Thread Series*	C.A.					
Flange Bolting		A 193 GR B7	A 194 GR 2H		++					
Structural Bolting		A36			++					
Anchor Bolts		A36			++					

++ Total C.A., on the nominal diameter.

Table 3 NOZZLE and MANHOLE SCHEDULE* (for Fixed Roof, Shell, and Bottom)

Mark	Service	Size, NPS, or Dia. (in.)	Neck Sch or Wall Thick.	Reinf. Plate Dimensions	Full Pen. On Open. (Y/N)	Flange Type	Flange Class or Thick.	Gasket Bearing Surf. Dimen. and Finish	Gasket Thick. and Dimen.	Gasket Mat'l and Descript.	Proj. to FF or CL or from Datum Lines
M01	Shell manway	24"	API 650			API 650					
M02	Shell manway	24"	API 650			API 650					
M03	Clean-out Door	36"x48"	API 650			API 650					
M04	Deck Manway	48"	API 650			API 650					
M05	Compartment manway	20"	API 650			API 650					
N01	Product inlet	10"	SCH 40			SO	150 # RF				
N02	Produc outlet	12"	SCH 40			SO	150 # RF				
N03	Produc draw-off	6"	SCH 40			SO	150 # RF				
N04 A-D	Water draw-off A/B/C/D	4 X 4"	SCH 40			SO	150 # RF				
N05A	Roof drain with sump	8"	SCH 40			SO	150 # RF				
N05B	Roof drain on shell	8"	SCH 80			SO	150 # RF				
С	LSHH A/B/C	3 X 2"	SCH 80			WN	150 # RF				
N07	LSLL	2"	SCH 80			WN	150 # RF				
A/D/G/J	A/D/G/J	4 X 1"	SCH 80			WN	150 # RF				
B/E/H/K	B/E/H/K	4 X 1"	SCH 80			WN	150 # RF				
N08 C/F/I/L	Leak detection-test C/F/I/L	4 X 1"	SCH 80			WN	150 # RF				
N09 A-E	Sealing vent	5 X 6"	MFR			SO	150 # RF				
N10 A/B	Automatic Bleader Vent	2 X 10"	MFR			SO	150 # RF				
N11	pipe)	8"	SCH 80			WN	150 # RF				
N12	Gauge hatch (wtih still pipe)	8"	MFR			SO	150 # RF				
N13 A-F	Foam maker	1/2"	(hole)								
A/B/C	Tank Mixers	3 X 24"	MFR			API 650	150 # RF				
N15	OMJ-DAT-SRT-ST-0022	2"	SCH 40			SO	150 # RF				
N16	Relief from TRV	2"	SCH 40			SO	150 # RF				
A/B/C	Emergency drain	3 X 4"	SCH 40			SO	150 # RF				
N18 A	Roof drain with sump	8"	SCH 40			SO	150 # RF				
N18 B	Roof drain on shell	8"	SCH 40			SO	150 # RF				
N19	Temperature multispot sensor with thermowell	3"	SCH 80			WN	150 # RF				
N20	Pressure transmitter	2"	SCH 80			WN	150 # RF				
N21 A-D	drain	4 x 4"	SCH 40			SO	150 # RF				
N22	indicator										
Approve				Pavisions:					Title: Cteres Teels F	1	l

Revisions: Approvals: Title: Storage Tanks-Diesel-Preliminary Data Sheet By: Ck'd: Drawing No.: OMJ-DAT-SRT-ST

Employer

MINISTRY OF ENERGY & MINERAL RESOURCES

EPCC Contractor:



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If box is blank, Manufacturer shall determine and submit as per Appendix L.

API Std 650 Storage Tank Data Sheet

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OTHER TANK APPURTENANCES 24. Platform, Stairway, and Railing: Galvanizing Req'd?* Yes No Stairway Style* Helical Walk Surf. Type* (Straight or Helical) (Straight or Helical) Stair and Walkway Clear Width* Min. 1000 mm National Safety Standards* Architectural/Structural Specification* Gauger's Platform Req'd? Yes No Qty. Req'd* ONE Per Spec.* 25. Jacket Required?* Yes No Other Heaters/Coolers Required?* Yes No Supplemental Jacket, Heater, or Cooler Specifications* 26. Mixer/Agitator: Quantity 3 Size* 24" Per Spec.* 27. Insulation: Required? Yes No Thickness* Material* Per Specs* Responsibility for Insulation and Installation (Purchaser, Manufacturer, Others) 28. Structural Attachments: Lift Lugs?* Yes No Desc.* Shell Anchorage?* Yes No X Type* Scaffold Cable Support? Yes No 29. Various Other Items: Welded Flush-Type: Shell Connection Cleanout Fitting Waive Application of Appendix P? Yes No X Miscellany #1 Miscellany #2 Miscellany #3 Miscellany #4 Miscellany #6

Employer WINISTRY OF ENERGY & MINERAL RESOURCES	OHL Industrial OHLI - MID Joint Venture for ASTPP Project	MID CONTRACTING - Amman, Jordan	Consul	CON	SULTING INEERS	
API	API Std 650 Storage Tank Data Sheet	P/	AGE	8	OF	10

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* If b	ox is blank, Manufacturer shall determi	ne and submit as per Appendix L.	
FLC	ATING ROOF DATA		
30.	Floating Roof Selection		
	Design Basis: Appendix C	Or Appendix H	
	Type of Roof: (External or Intern	al): Single Deck Pontoon* Double Deck*	
	(Internal Only):	Tubular Pontoon* Metallic Sandwich Panel*	
		Other	Supplemental Spec.:
31.	Seals		
	Primary Seal: Shoe Env	elope Wiper/Compression Plate Other	Supplemental Spec.: SHOE MAT SS 316
	Shoe Mechanism: Mfg	ı. Std. Other X Scissor type	
	Electrically Isolate Mechanism	from Shoes? Yes No Wax Scrapers R	equired? Yes No
	Minimum Shoe Thickness* 1,	2 mm Carbon Steel Shoes to be Galvaniz	ed? Yes No
	Secondary Seal: Shoe	Envelope Wiper None Other	Supplemental Spec.:
32.	Data for All Floating Roofs:		
	Overflow Openings in Shell Acceptab	le? Yes No Shell Extension?	Yes No
	Roof-Drain Check Valves Required?	Yes No Roof-Drain Isolation Valv	es Required? Yes No
	Freeze Protection for Roof Drains Re	quired? No Yes Supplemental F	dequirements:
	Roof-Drain Piping to External Nozzles	s: Mfg. Std. Armored Flexible Pipe Swivel	s in Rigid Pipe X Other
	Foam Dam? Yes No	Supplemental Spec.:	
	Minimum Deck Thickness* 6 mm	<u> </u>	
	Bulkhead Top Edges to be Liquid-Tig	ht? Yes No Seal-Weld Underside	of Roof? Yes No
	Electrical Bonding: Shunts: Yes X	Cables: Yes No	Supplemental Spec.:
	Qty. of Non-Guide-Pole Gauge Wells	Required Qty. of Sample Ha	tches Required SEE NOZZLES LIST
	Guide Pole for Gauging? Yes	No Slots in Guide Pole? Yes No 2)atum l	Plates? Yes No Striking Plates? Yes No
	Guide Pole Emissions-Limiting Device	es: Sliding Cover Pole Wiper Pole Sle	eve Float Float Wiper Pole Cap
	Qty. of Roof Manholes* SEE NOZZLE	S LIS Minimum High-Roof Clearance Above Bottom:	lfg
	Removable Leg Storage Racks?	Yes No ; Leg Sleeves or Fix	ed Low Legs
33.	Additional Data for External Floating	g Roofs:	THE. Stange raine ploor Frommary bala cried
	Weather Shield? Yes No	Supplemental Spec.:	
	Rolling Ladder Required? Yes	No Field Adjustable Legs? Yes X No	
	Design Rainfall Intensity 50mm/h	in./hr. (mm/hr) Based on a Minute De	uration Associated with theStorm
	Design Accumulated 24-Hour Rainfal	in. Based on theSto	orm
	Distortion and Stability Determination	s Required? Yes No Supplemental	Specification
	Landed Live Load*		
Арр	rovals:	Revisions:	Title: Storage Tanks-Diesel-Preliminary Data Sheet
			By: Ck'd: Date: Rev 0 Drawing No.: OMJ-DAT-SRT-ST-
			0022 Sheet 8 of 10

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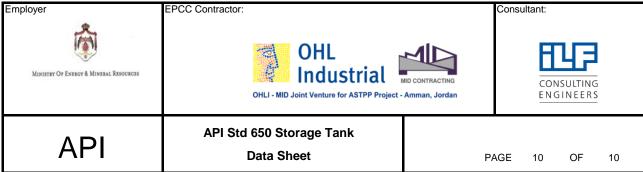
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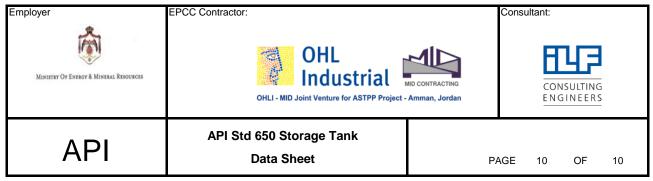
API Std 650 Storage Tank Data Sheet

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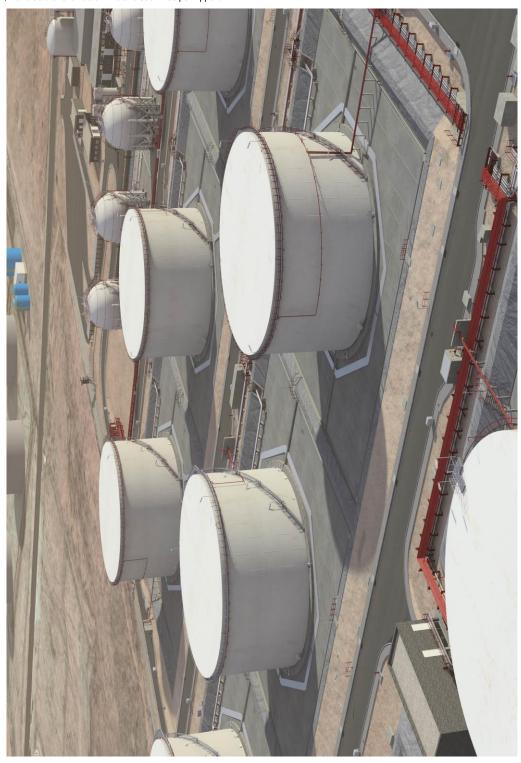
34. Additional Data for Inte	rnal Floating Roofs: N/	A					
Two-Position Legs? Y	es No Cable	e-Supported Roof? Yes	No Fixed-Roof In	spection Hatches Required?	Yes No		
Internal Roof Drain Requ	ired? Yes No	Omit Distribution	n Pads Supporting Uniform Live L	oads? Yes No			
Corrosion Gauge Require	Corrosion Gauge Required? Yes No Fixed Ladder Required? Yes No ; Type of Roof Vent:*						
Modified Minimum Point	Load? Yes No	Supplemental Speci	fication				
Mfr. To Leak Test*	% of Compartments	in Assembly Yard	in Erected Position	Unknown; see separa	te contract terms		
Roof Erector's Flotation	_		on of Roof at a Later Date	N	ot Required		
					or required		
Flotation Test Media: \	Vater Product	see H.6.6.1) Water Q	uality: Potable Other	See Supplemental Spec.			
Flotation Test:	Duration	Fill Heigh	nt:				
Flotation Test Items Prov	rided by Purchaser (see H.	6.7): None	List Attached				
Responsible Party for Ins	specting Roof During Initial	Fill: Purchaser	Other				
		Toble 5 EL CATING D	LOOE MATERIAL S				
Component	Material*/Thickness*	Table 5 FLOATING R	1	Material*/Thickness*	C.A./Coating*		
Component Deck Plate	A 283 Gr C / 6 MIN	C.A./Coating*	Component Datum Plate	Material /Trickness	C.A./Coating		
Inner Rim Plate			Tubular Pontoon	N/A			
Outer Rim Plate	A 283 Gr C / 6 MIN		Pontoon Bulkhead				
Foam Dam	A 283 Gr C		Submerged Pipe				
Sandwich Panel Face Plate			Guide Pole / Anti-rotation device	Carbon Steel			
Sandwich Panel Core			Secondary Seal				
Gauge Well			Secondary Seal Fabric				
Drain Sumps	A 283 Gr C		Wiper Tip				
Opening Sleeves			Wax Scraper	N/A			
Floating Suction Lines	N/A		Weather Seal				
Primary Fabric Seal			Envelope Fabric				
Foam Log Core			Shoe Mechanisms				
Landing Legs	Carbon Steel		Primary Seal Shoe	SS 316			
Landing Leg Bottom Pads	A 283 Gr C		Removable Covers				
Manhole Necks	A 283 Gr C		Rolling Ladder	Carbon Steel			
Vents	A 283 Gr C		Inlet Diffusers				
Approvals:	Revisions	:	Ιτι	tle: Storage Tanks-Diesel-Prelimi	nary Data Sheet		
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Drawing No.: OMJ-DAT-SRT-ST- 3heet 9 of 10 0022							

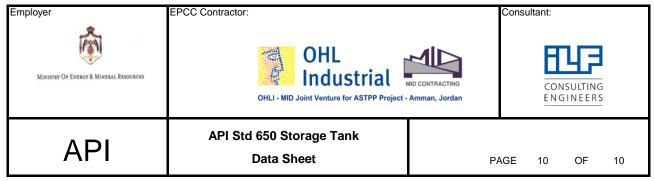


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* If box is blank, Manufacturer shall determ	ine and submit as per Appendix L.				•
Tank Plan and Sketches: OMJ-DWG-SRT-ST-0001 Stora OMJ-DWG-SRT-ST-0002 Stora OMJ-DWG-SRT-ST-0003 Stora OMJ-DWG-SRT-ST-0004 Stora OMJ-DWG-SRT-ST-0005 Stora	ige Tank -Diesel Tank SRT-T-25-011-Preliminarige Tank -Diesel Tank SRT-T-25-012-Preliminarige Tank -Diesel Tank SRT-T-25-013-Preliminarige Tank -Diesel Tank SRT-T-25-014-Preliminarige Tank -Diesel Tank SRT-T-25-015-Preliminarige Tank -Diesel Tank SRT-T-25-014-Preliminarige Tank -Diesel Tank	ry General Arrangement ry General Arrangement ry General Arrangement ry General Arrangement			
Notes:					
Approvals:	Revisions:	Title: Storage Tanks-I By: Ck Drawing No.: UMJ-DAT-SI 0022	'd:	Date:	

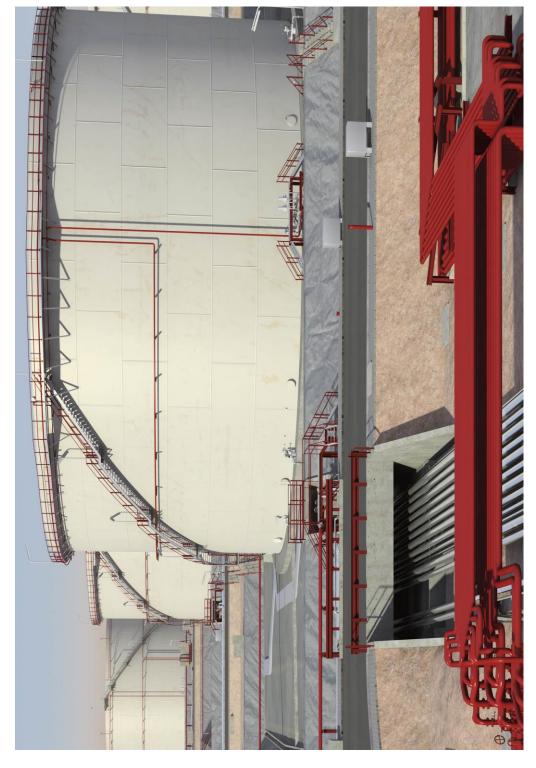


^{*} If box is blank, Manufacturer shall determine and submit as per Appendix L.





 $^{^{\}star}$ If box is blank, Manufacturer shall determine and submit as per Appendix L.



Employer	EPCC Contractor:		Consult	tant:		
MINISTRY OF ENERGY & MINERAL RESOURCES	OHL Industrial MID CONTRACTING OHLI - MID Joint Venture for ASTPP Project - Amman, Jordan		CONSULTING			
API	API Std 650 Storage Tank Data Sheet	P <i>/</i>	AGE	10	OF	10

 $^{^{\}star}$ If box is blank, Manufacturer shall determine and submit as per Appendix L.

