




# Amman Strategic Reserve Terminal for Petroleum Products

B	10/10/2014	Issued for Review	CLOB	MAPM	PBB	IGC
Rev.	Date	Issue Purpose / Description	Prepared	Checked	Approved	Accepted
Client	 <p>THE HASHEMITE KINGDOM OF JORDAN MINISTRY OF ENERGY AND MINERAL RESOURCES</p>					
Owner's Engineer	 <p><b>TANKS T-51 / 52</b> <b>SLOP STORAGE DATA SHEET</b></p>					
Contractor	Contractor's Doc. No.	Official Document Number			Rev. Code	
	P40314-EE-410-ME-HE-00G001	OMJ-DAT-SRT-ST-0026			B	

API

API Std 650 Storage Tank  
Data Sheet

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\* For boxes marked with \*, if blank, Mfr. Shall determine and submit as per Appendix L. For all lines, see Appendix L for line-by-line instructions.

**GENERAL** Special Documentation Package Requirements:

Measurement Units to be used in API Std 650:

SI ☒US Customary ☐

1. Manufacturer\* \_\_\_\_\_ Contract No.\* \_\_\_\_\_  
 Address\* \_\_\_\_\_  
 Mfg. Serial No.\* \_\_\_\_\_ Year Built\* \_\_\_\_\_ Edition & Addendum to API 650\* **12<sup>th</sup> Edition, 2013**  
 2. Purchaser \_\_\_\_\_ Contract No. \_\_\_\_\_  
 Address \_\_\_\_\_  
 Tank Designation **Storage Tanks for Slop, Tag No. SRT-T-25-051 /052**

3. Owner/Operator \_\_\_\_\_ Location **Amman Strategic Reserve Terminal for Petro**  
 4. Size Limitations\* \_\_\_\_\_ Tank Diameter\* **5.0 m** Shell Height\* **11,55 m**  
 Capacity: Maximum\* **200 m<sup>3</sup>** Net Working\* \_\_\_\_\_ Criteria\* **See Tank Specification**  
 5. Products Stored: **Slop**  
 Liquid \_\_\_\_\_ Max. S.G.: **1** at **15 °**  
 Blanketing Gas **N/A** Vapor Pressure **10,15** PSIA at Max. Operating Temp.  
 % Aromatic \_\_\_\_\_ Suppl. Spec. \_\_\_\_\_ H<sub>2</sub>S Service? Yes ☐ No ☒ Suppl. Spec. \_\_\_\_\_  
 Other Special Service Conditions? Yes ☐ No ☒ Suppl. Spec. \_\_\_\_\_

**DESIGN AND TESTING**

Purchaser to Review Design Prior to Ordering Material?

Yes ☒ No ☐

6. Applicable API Standard 650 Appendices: \* A ☐ B ☐ C ☐ F ☒ G ☐ H ☐ I ☐ J ☐ L ☐ M ☐ O ☐ P ☒ S ☐ U ☐ V ☐ W ☐  
 7. Max. Design. Temp. **60 °** Design Metal Temp.\* **(MIN) -10 °** Design Liquid Level\* **10,3 m**  
 Design Pressure \_\_\_\_\_ External Pressure **N/A** Maximum Fill Rate **20 m<sup>3</sup>/h** Maximum Emptying Rate **100 m<sup>3</sup>/h**  
 Floatation Considerations? Yes ☐ No ☒ Flot. Suppl. Spec.\* \_\_\_\_\_ Applied Supplemental Load Spec. \_\_\_\_\_  
 8. Seismic Design? Yes ☒ No ☐ Appendix E ☒ Alternate Seismic Criteria **See Tank Spec** Seismic Use Group **III**  
 MBE Site Class \_\_\_\_\_ Vertical Seismic Design? Yes ☐ No ☐ Vertical Ground Motion Accelerator A<sub>v</sub>: **0,32 (g)**  
 Basis of Lateral Acceleration (Select one): ☐ Mapped Seismic Parameters? S<sub>s</sub> \_\_\_\_\_ S<sub>1</sub> \_\_\_\_\_ S<sub>0</sub> \_\_\_\_\_; ☐ Site-Specific Procedures: MCE  
 Design Required? Yes ☒ No ☐; ☒ Other (Non-ASCE) Methods **See Tank Specification**  
☐ 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\* **N/A** Dimensions\* \_\_\_\_\_ Use Top Wind Girder as Walkway? Yes ☐ 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 ☒ Alternate ☐; Elastic Anal. Mthd?\* Yes ☐ No ☒ Alternate ☐  
 Plate Stacking Criteria\* Centerline-Stacked? Yes ☐ No ☐ Flush-Stacked? Yes ☐ No ☐ Inside ☐ Outside ☐  
 Plate Widths (Shell course heights) and Thicknesses \* Numbers below Indicate Course Number.  
 1. **2310 x 8 mm** 2. **2310 x 8 mm** 3. **2310 x 8 mm** 4. **2310 x 8 mm** 5. **2310 x 8 mm**  
 6. \_\_\_\_\_ 7. \_\_\_\_\_ 8. \_\_\_\_\_ 9. \_\_\_\_\_ 10. \_\_\_\_\_  
 11. \_\_\_\_\_ 12. \_\_\_\_\_ 13. \_\_\_\_\_ 14. \_\_\_\_\_ 15. \_\_\_\_\_  
 Joint Efficiency\* \_\_\_\_\_ % Shell-to-Bottom Weld Type\* \_\_\_\_\_ Shell-to-Bottom Weld Insp. Mthd\* \_\_\_\_\_

Approvals:

Revisions:

Title: Slops Tanks

By: \_\_\_\_\_ Ck'd: \_\_\_\_\_ Date: 10/10/2014

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\* 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 <input type="checkbox"/> No <input checked="" type="checkbox"/>		
Fixed Roof Type* <b>Self-Supporting Cone Roof</b> Roof Support Columns*: Pipe <input type="checkbox"/> Or Structural Shape <input type="checkbox"/>		
Cone Slope* <b>0,25</b> Dome or Umbrella Radius* Weld Joints* <b>Lap joints</b> (Lap, Butt, Other)		
Seal Weld Underside of: Lap Joints? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> ; Seal Weld Underside of Wind Girder Joints? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		
Gas-tight? Yes <input type="checkbox"/> No <input type="checkbox"/> Joint Efficiency* %		
Thickness* <b>6,0 mm</b> In. Snow Load* <b>N/A</b> App. Suppl. Load Spec.* Column Lateral Load		
Normal Venting Devices* <b>Yes</b> Emergency Venting Devices* <b>N/A</b>		
For Non-Frangible Roofs: Seal Weld Roof Plates to Top Angle on the Inside? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> ; Weld Rafters to Roof Plates? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		
Roof-to-Shell Detail* API 650 Fig F.2 Detail "b" Radial Projection of Horizontal Component of Top Angle* Inward <input type="checkbox"/> Outward <input checked="" type="checkbox"/>		

12. Bottom: Thickness* <b>INNER 6; OUT 8</b> Style* <b>Cone up</b> Slope* <b>1:100</b> Weld Joint Type*		
Provide Drip Ring? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Alternate Spec.		
Annular Ring? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Annular Ring: Minimum Radial Width* Thickness*		
13. Foundation: Furnished by* <b>Contractor</b> Type*		
Soil Allow: Bearing Pressure' Per Spec.* Anchors: Size* <b>M 39</b> Qty.* <b>8</b>		
Foundation Design Loads: Base Shear Force: Wind Seismic* Overturning Moment: Wind* Seismic*		
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 <input type="checkbox"/> Manufacturer <input type="checkbox"/>		
Hydro-Test Fill Height* <b>11,55 m</b> Settlement Measurements Required? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Extended Duration of Hydro-Test:		
<input type="checkbox"/> Predicted Settlement Profile is Attached		
Responsibility for Setting Water Quality: Purchaser <input checked="" type="checkbox"/> Manufacturer <input type="checkbox"/> Supplemental Test Water Quality Spec.		
Test Water Source & Disposal Tie-In Location: <b>Contractor</b> Hydro-Test Appendix J Tank? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		
Post-Pressure-Test Activities Required of the Manufacturer: Broom Clean <input type="checkbox"/> Potable Water Rinse <input type="checkbox"/> Dry Interior <input checked="" type="checkbox"/>		
Other <input checked="" type="checkbox"/> <b>INTERIOR COATING AS REQUIRED</b>		
15. Inspection by <b>Third Party; Requirements acc. to specification</b> in Shop; in Field		
Supplemental NDE Responsibility Supplemental NDE Spec. (Purch., Mfg., Other)		
Positive Material Identification? Yes <input type="checkbox"/> No <input type="checkbox"/> PMI Requirements:		
Max. Plate Thickness for Shearing		
Must Welds not exceeding 6 mm (1/4 in.) Be Multi-Pass? Yes <input type="checkbox"/> No <input type="checkbox"/> Must Welds greater than 6 mm (1/4 in.) Be Multi-Pass? Yes <input type="checkbox"/> No <input type="checkbox"/>		
Leak Test Mthd: Roof Shell* Shell Noz./Manhole Reinf. Plt*		
Bottom* Floating Roof Components*		
Modify or Waive API Dimensional Tolerances (see 7.5)? No <input type="checkbox"/> Yes <input checked="" type="checkbox"/> Specify: <b>Acc. to specification</b>		
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): <input type="checkbox"/> 1/3 H, 2/3 H and H <input type="checkbox"/> Top of Each Shell Course <input type="checkbox"/> 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): <input type="checkbox"/> Top of Tank, H <input type="checkbox"/> 1/3 H, 2/3 H and H <input type="checkbox"/> Top of Each Shell Course <input type="checkbox"/> Other:		
**See Data Sheet Instructions for the Maximum Allowable Additional Radial Tolerance.		

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## 16. Coatings:

Internal Coatings by: Manufacturer Per Spec.\* Vertical Storage Tanks Specification OHL-SPC-SRT-ST-  
(Not Req'd., Others, Tank Mfg.)External Coating by: Manufacturer Per Spec.\* Vertical Storage Tanks Specification OHL-SPC-SRT-ST-  
(Not Req'd., Others, Tank Mfg.)Under-Bottom Coating by: Manufacturer Per Spec.\* Vertical Storage Tanks Specification OHL-SPC-SRT-ST-  
(Not Req'd., Others, Tank Mfg.)17. Cathodic Protection System? Yes ☐ No ☒ Per Spec.\* \_\_\_\_\_18. Leak Detection System? Yes ☒ No ☐ Per Spec.\* OHL-SPC-SRT-IN-002119. Release Prevention Barrier? Yes ☐ No ☐ Per Spec.\* \_\_\_\_\_20. Tank Measurement System: Required? Yes ☒ No ☐ Remote Capability Required? Yes ☐ No ☐By: Manufacturer Per Spec.\* \_\_\_\_\_21. Weight of Tank: Full of Water\* 245,06 t Empty\* 18,06 t Shipping\* \_\_\_\_\_ Brace/Lift Spec.\* \_\_\_\_\_22. References: *\* API Std 650, Appendix L**Other references: OHL-SPC-SRT-ST-0021 Design Basis for Storage Tanks*

## 23. Remarks:\*

- 1) ALL TANKS SHALL HAVE DOUBLE BOTTOM WITH ACTIVE LEAK DETECTION SYSTEM. DOUBLE BOTTOM SHALL BE MATERIAL ASTM A 283 Gr C A WITH WIRE MESH AS PER ILF-DWG-SRT-C1-014.  
INNER BOTTOM SHALL BE 6m THK. OUTER BOTTOM SHALL BE 8mm THK.
- 2) ALL TANKS SHALL HAVE AN AUTOMATIC BOTTOM WATER DRAIN SYSTEM.
- 3) ALL THICKNESS MENTIONED ON THIS DATA SHEET ARE TO BE TAKEN AS MINIMUM THICKNESSES AFTER FORMING. **NO UNDERTOLERANCES** ALLOWED.

**MATERIAL NOTES**

- a) MAT ASTM A 283 Gr C GROUP I SHALL BE FULLY KILLED AND MADE TO FINE-GRAIN PRACTISE WITH CARBON CONTENT 0,23% MAX AND CE MAX (Storage Tanks Specification)

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Table 1 MATERIALS OF CONSTRUCTION					
Component	Material*/Thickness*	C.A.	Component	Material*	C.A.
Shell, Course <u>  1  </u> to <u>  top  </u>	A 283 Gr C Group I killed	1 mm	Reinforcing Pads	Acc to Shell Material	
Shell, Course <u>      </u> to <u>      </u>			Manhole/Nozzle Necks	Acc to shell / A 106 Gr B	1 mm
Shell, Course <u>      </u> to <u>      </u>			Manhole/Nozzle Flanges	Acc to shell / A 105	1 mm
Shell, Course <u>      </u> to <u>      </u>			Flange Covers	A 105	
Shell, Course <u>      </u> to <u>      </u>			Anchor Attachments		
Roof	A283 Gr. C Group I	1 mm	Submerged Piping	A 106 Gr B	
Bottom	A283 Gr. C Group I	0 mm / 2 mm	Wetted Structurals		+
Annular Ring	N/A		Non-wetted Structurals	A 36 OR SIMILAR	+
+ Check here if C.A. is to apply to each exposed surface <input type="checkbox"/>					

Table 2 BOLTS and ANCHORS					
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					++
Anchor Bolts					++

++ 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	Clean-out door	900-1200	API 650			API 650					
N01	Product inlet	hold	SCH 40			SO	150 # RF				
N02	Product outlet	hold	SCH 40			SO	150 # RF				
N03	Product draw-off										
N04	Water draw-off	4"	SCH 40			SO	150 # RF				
N05	LSHH A/B/C	2"	SCH 80			WN	150 # RF				
N06	LSLL A/B/C	2"	SCH 80			WN	150 # RF				
N07	Leak detection A/B	2"	SCH 80			WN	150 # RF				
N08	Level Transmitter	hold	SCH 40			SO	150 # RF				
N09	Gauge hatch	hold	SCH 40			SO	150 # RF				
N10	Breather Valve	hold	SCH 40			SO	150 # RF				
N11	Foam Chamber A/B/C/D	hold	SCH 40			SO	150 # RF				
N12	Level Indicator	MFR			MFR						
M03	Roof Manway	24"	API 650			API 650					

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### OTHER TANK APPURTENANCES

- Table 4 OTHER TANK APPURTENANCES\*

Mark	Quantity	Service or Description	Size	Orientation	Height from Datum	Material	Remarks

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**FLOATING ROOF DATA** N/A**30. Floating Roof Selection**

Design Basis: Appendix C ☐ Or Appendix H ☐

Type of Roof: (External or Internal): Single Deck Pontoon\* ☐ Double Deck\* ☐

(Internal Only): Tubular Pontoon\* ☐ Metallic Sandwich Panel\* ☐

Other ☐ \_\_\_\_\_ Supplemental Spec.: \_\_\_\_\_

**31. Seals**

Primary Seal: Shoe ☐ Envelope ☐ Wiper/Compression Plate ☐ Other ☐ \_\_\_\_\_ Supplemental Spec.: \_\_\_\_\_

Shoe Mechanism: Mfg. Std. ☐ Other ☐ \_\_\_\_\_

Electrically Isolate Mechanism from Shoes? Yes ☐ No ☐ Wax Scrapers Required? Yes ☐ No ☐

Minimum Shoe Thickness\* \_\_\_\_\_ Carbon Steel Shoes to be Galvanized? Yes ☐ No ☐

Secondary Seal: Shoe ☐ Envelope ☐ Wiper ☐ None ☐ Other ☐ \_\_\_\_\_ Supplemental Spec.: \_\_\_\_\_

**32. Data for All Floating Roofs:**

Overflow Openings in Shell Acceptable? Yes ☐ No ☐ Shell Extension? Yes ☐ No ☐

Roof-Drain Check Valves Required? Yes ☐ No ☐ Roof-Drain Isolation Valves Required? Yes ☐ No ☐

Freeze Protection for Roof Drains Required? No ☐ Yes ☐ Supplemental Requirements: \_\_\_\_\_

Roof-Drain Piping to External Nozzles: Mfg. Std. ☐ Armored Flexible Pipe ☐ Swivels in Rigid Pipe ☐ Other ☐ \_\_\_\_\_

Foam Dam? Yes ☐ No ☐ Supplemental Spec.: \_\_\_\_\_

Minimum Deck Thickness\* \_\_\_\_\_

Bulkhead Top Edges to be Liquid-Tight? Yes ☐ No ☐ Seal-Weld Underside of Roof? Yes ☐ No ☐

Electrical Bonding: Shunts: Yes ☐ No ☐ Cables: Yes ☐ No ☐ Supplemental Spec.: \_\_\_\_\_

Qty. of Non-Guide-Pole Gauge Wells Required \_\_\_\_\_ Qty. of Sample Hatches Required \_\_\_\_\_

Guide Pole for Gauging? Yes ☐ No ☐ Slots in Guide Pole? Yes ☐ No ☐ Jatum Plates? Yes ☐ No ☐ Striking Plates? Yes ☐ No ☐

Guide Pole Emissions-Limiting Devices: Sliding Cover ☐ Pole Wiper ☐ Pole Sleeve ☐ Float ☐ Float Wiper ☐ Pole Cap ☐

Qty. of Roof Manholes\* \_\_\_\_\_ Minimum High-Roof Clearance Above Bottom: \_\_\_\_\_

Removable Leg Storage Racks? Yes ☐ No ☐ ; Leg Sleeves ☐ or Fixed Low Legs ☐

**33. Additional Data for External Floating Roofs:**

Weather Shield? Yes ☐ No ☐ Supplemental Spec.: \_\_\_\_\_

Rolling Ladder Required? Yes ☐ No ☐ Field Adjustable Legs? Yes ☐ No ☐

Design Rainfall Intensity \_\_\_\_\_ in./hr. (mm/hr) Based on a \_\_\_\_\_ Minute Duration Associated with the \_\_\_\_\_ Storm

Design Accumulated 24-Hour Rainfall \_\_\_\_\_ in. Based on the \_\_\_\_\_ Storm

Distortion and Stability Determinations Required? Yes ☐ No ☐ Supplemental Specification \_\_\_\_\_

Landed Live Load\* \_\_\_\_\_

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## 34. Additional Data for Internal Floating Roofs: N/A

Two-Position Legs? Yes ☐ No ☐ Cable-Supported Roof? Yes ☐ No ☐ Fixed-Roof Inspection Hatches Required? Yes ☐ No ☐Internal Roof Drain Required? Yes ☐ No ☐ Omit Distribution Pads Supporting Uniform Live Loads? Yes ☐ No ☐Corrosion Gauge Required? Yes ☐ No ☐ Fixed Ladder Required? Yes ☐ No ☐ ; Type of Roof Vent:\* \_\_\_\_\_Modified Minimum Point Load? Yes ☐ No ☐ Supplemental Specification \_\_\_\_\_Mfr. To Leak Test\* \_\_\_\_\_ % of Compartments ☐ in Assembly Yard ☐ in Erected Position ☐ Unknown; see separate contract termsRoof Erector's Flotation Test: w/ Tank Hydro ☐ at Completion of Roof ☐ at a Later Date ☐ \_\_\_\_\_ Not Required ☐Flotation Test Media: Water ☐ Product ☐ (see H.6.6.1) Water Quality: Potable ☐ Other ☐ See Supplemental Spec. \_\_\_\_\_

Flotation Test: Duration \_\_\_\_\_ Fill Height: \_\_\_\_\_

Flotation Test Items Provided by Purchaser (see H.6.7): None ☐ List Attached ☐Responsible Party for Inspecting Roof During Initial Fill: Purchaser ☐ Other ☐ \_\_\_\_\_

Table 5 FLOATING ROOF MATERIALS

Component	Material*/Thickness*	C.A./Coating*	Component	Material*/Thickness*	C.A./Coating*
Deck Plate			Datum Plate		
Inner Rim Plate			Tubular Pontoon		
Outer Rim Plate			Pontoon Bulkhead		
Foam Dam			Submerged Pipe		
Sandwich Panel Face Plate			Guide Pole		
Sandwich Panel Core			Secondary Seal		
Gauge Well			Secondary Seal Fabric		
Drain Sumps			Wiper Tip		
Opening Sleeves			Wax Scraper		
Floating Suction Lines			Weather Seal		
Primary Fabric Seal			Envelope Fabric		
Foam Log Core			Shoe Mechanisms		
Landing Legs			Primary Seal Shoe		
Landing Leg Bottom Pads			Removable Covers		
Manhole Necks			Rolling Ladder		
Vents			Inlet Diffusers		

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Tank Plan and Sketches:

OMJ-DWG-SRT-ST-0015 Storage Tank SRT-T-25-051 General Assembly

OMJ-DWG-SRT-ST-0016 Storage Tank SRT-T-25-052 General Assembly

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Notes:

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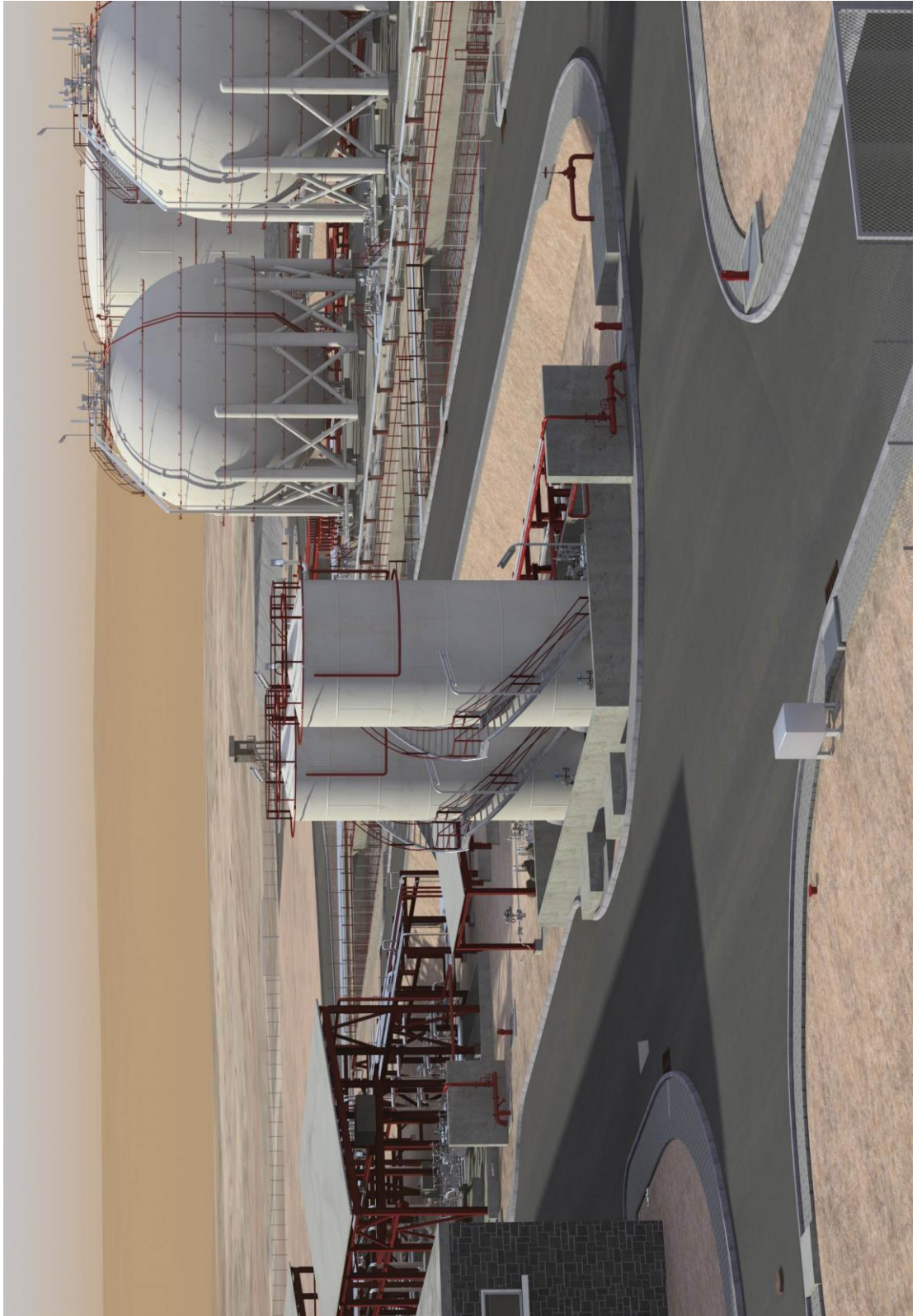


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