Request for Information 19/031 - Storage Tanks Construction Project

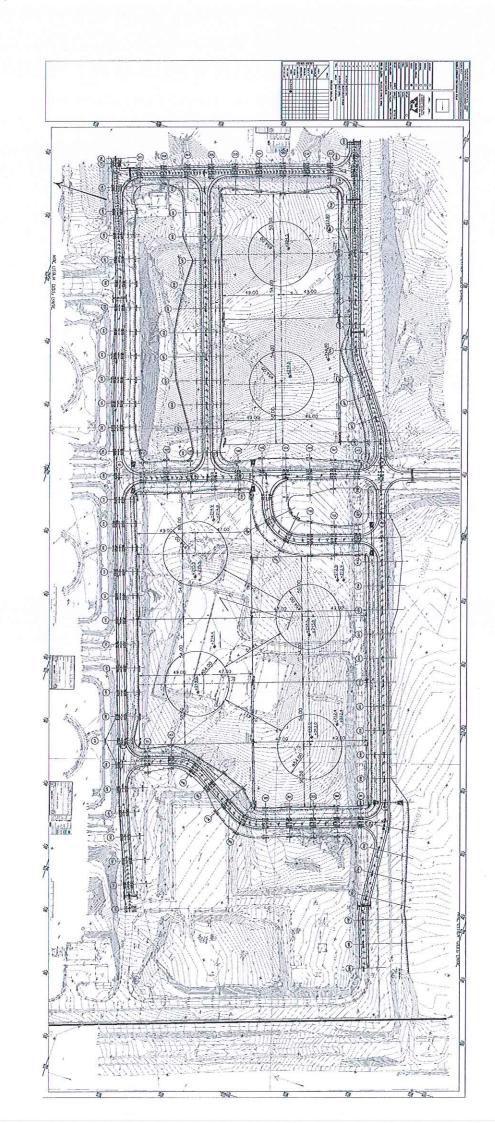
- 1. Petroleum and Energy Infrastructures Ltd. ("PEI") hereby invites contractors with relevant experience and expertise ("Particpants"), to provide a detailed response to this Request For Information ("RFI") in connection with the provision of Design, Procurement & Construction services for 6 new vertical petroleum products storage tanks at PEI's Eshel Terminal site in Israel (the "Project"). Once the RFI stage is concluded, PEI's tender committee shall consider issuing a tender for the services and determine the terms thereof.
- 2. The 6 vertical petroleum products storage tanks will have an operational volume of 50,000m3 each with a total capacity of 300,000m3. Tank diameter will be approximately 60m. The tanks will be built in an area adjacent to the existing PEI terminal installations at the Eshel site. All civil works will be designed and executed by others including earth moving and site preparation works, drainage, landscaping, access roads, etc.
- 3. Participants in this RFI are kindly requested to provide the following information:
 - 3.1. Brief methodology description statement for main tasks.
 - 3.2. Approximate timeframe for such Project.
 - 3.3. Participant's availability to participate in a tender process.
 - 3.4. Participant's equipment availability.
 - 3.5. Information about Participant, including company profile, number of vertical storage tanks constructed (in accordance with API-650) by Participant in the past 5 years, diameter, capacity and storage material.

A preliminary layout is attached.

- 4. Any questions and/or inquiries shall be addressed in writing to liat sharon by E-mail: liat@pei.co.il, no later than 02/06/2019.
- 5. Responses to the RFI shall be submitted, in writing, in English or Hebrew, to the following E-mail address: liat@pei.co.il, no later than 16/06/2019.
- 6. Upon receiving a response, PEI will initiate a review and may contact the Participants to follow up with additional questions and clarifications, in writing or otherwise, may ask for site visits to facilities erected or operated by the Participant, or carry out professional inquiries regarding any Participant, including by way of contacting third parties. In addition, PEI may hold RFI sessions, either by videoconferencing or meetings which will be held in Israel, whether with all Participants or only with those deemed relevant at PEI's sole discretion. As part of such RFI sessions, the Participants will have the opportunity to present their detailed responses.
- 7. This RFI is a preliminary process initiated by PEI's tender committee, solely for the purpose of receiving information and its internal evaluation and consideration, and does not constitute a tender, a bid solicitation, a proposal or a request for proposals in any manner whatsoever. The issuance of this RFI is not intended to guarantee the initiation, execution or the implementation of the Project, its scope, its components or any part thereof.
- 8. Participation in this RFI shall not provide a Participant with any advantage, or confer upon a Participant any right with respect to the Project or any future proceedings

which will be conducted with respect thereto, if and to the extent conducted (including the pre-qualification process or the tender process), or be a pre-requisite for participating in such future proceeding. Participating in the RFI shall not constitute or be interpreted as constituting a recognition of a Participant's or any other entity's eligibility, qualification or competence to participate in any such future proceedings, if conducted.

- 9. PEI reserves the right not to proceed with this RFI, and may terminate or cancel this RFI or any other proceedings which are conducted with respect thereto, at any time as it shall deemed appropriate and Participants shall have no right of claim against PEI and anyone on its behalf in respect thereof.
- 10. Without derogating from the generality of the above, PEI may publish a new Request for Information and/or an invitation to pre-qualify or other proceedings with respect to the Project or any part thereof, publish a different project, inviting or not the Participants to take part in such process, or execute the Project in any other way deemed appropriate, all subject to and in accordance with applicable law.
- 11. PEI may use any information it receives from a Participant or any third party for any purpose it deems fit at its sole discretion, including forming specifications or any other documents, and may transfer any such information to any of it consultants or any person on its behalf. Without derogating from the foregoing or from the discretion granted to PEI, Participants may mark, in a clear, complete and legible manner, information contained in the response which is considered commercially sensitive or of a secret nature, and PEI will, to the extent allowed by law, refrain from disclosing such information. Please note that PEI is not requesting a proposal, detailed plans, marketing material, budgetary information or proprietary information in response to this RFI.
- 12. The Participants shall not be entitled to any payment for the information provided by them in this process. All expenses incurred by a Participant or anyone on its behalf shall be borne solely by the Participant.
- 13. This RFI is subject to the Israeli law including the Mandatory Tenders Law 5752-1992, Mandatory Tenders Regulations 5753-1993, and the obligation to disclose information in accordance with the provisions of Section 14A thereof. The courts of Jerusalem, Israel shall have exclusive jurisdiction in any and all disputes arising out of or relating to this RFI.



API

API Std 650 Storage Tank Data Sheet

Data Sheet Status:	
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Drawing No.:

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14 * For boxes marked with *, if blank, Mfr. shall determine and submit as per Annex L. For all lines, see Annex L for line-by-line instructions. GENERAL Special Documentation Package Requirements: Measurement Units to be used in API Std 650: SI M US Customary L Address* Hasadnaot 3, Herzlia Edition & Addendum to API 650* Edition 12, Addendum 3 Mfg. Serial No.* 2. Purchaser PEI Address Tank Designation __T 551 - T 556 Owner/Operator PEI __Location _Eshel Size Limitations* Tank Diameter* 54m Shell Height* 25.100m Capacity: Maximum* __50000m3 __ Net Working* _ __ Criteria:* ____ API 2350 Products Stored: Liquid Lead free gasoline/Engine Gas Oil/Design Specific Gravity: 0.880 at ____ Heating Gas oil/Jet fuel/Kerosene Minimum Design Specific Gravity: 0.720 at 15 ° 14 N.A. ____ Vapor Pressure _____ PSIA at Max. Operating Temp. % Aromatic Suppl. Spec. __ H₂S Service? Yes D No X Suppl. Spec. __ Other Special Service Conditions? Yes
No X Suppl. Specs._ Purchaser to Review Design Prior to Ordering Material? Yes M No . Applicable API Standard 650 Appendices:* A □ B □ C 翼 F □ G □ H □ I □ J □ L 翼 M □ O □ P □ S □ U □ V □ W □ Max. Design. Temp. 45 C° Design Metal Temp.* 45 C° Design Liquid Level* 23475 mm Design Internal Pressure Hydrost. Design External Pressure ____ Internal Pressure Combination Factor 15 External Pressure Combination Factor - Maximum Fill Rate 1000m3/hr Maximum Emptying Rate 1000m3/hr Flotation Considerations? Yes 🔲 No 💓 Flot. Suppl. Spec:* ______ Applied Supplemental Load Spec. 14 Seismic Design? Yes 🔰 No 🛘 Annex E 🖨 Alternate Seismic Criteria <u>SI413 & Soil report</u> Seismic Use Group <u>3</u> MBE Site Class B Vertical Seismic Design? Yes Vertical Ground Motion Accelerator A_v: 67% SDS Basis of Lateral Acceleration (Select one): 🛘 Mapped Seismic Parameters? Ss____S1___S0____; 💥 Site-Specific Procedures?: MCE Design Required? Yes M No □; □ Other (Non-ASCE) Methods _ 💢 Freeboard Required for SUG I Design Roof Tie Rods @ Outer Ring?* Yes 🗆 No 💢 Wind Velocity for non-U.S. sites, 50-yr wind speed (3-sec Gust)* SI 414 Top Wind Girder Style* Type "E" Fig. 5.24 Dimensions* b= 610 mm(min) Use Top Wind Girder as Walkway? Yes 1 No 🗆 Intermediate Wind Girders?* Yes Q No X Intermediate Wind Girder Style*______ Dimensions* Check Buckling in Corroded Cond.? Yes ⋈ No □ Shell Design: 1-Ft Mthd?* Yes 🎽 No 🗆 ; Variable-Des-Pt Mthd?* Yes 🗅 No 🗅 Alternate 🗅 ; Elastic Anal. Mthd?* Yes 🗘 No 🗀 Alternate 10. 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. 5. 2400x20 mm 2400x28mm 3. 2400x26 mm 1. 2400x32 mm 2. 2400x22 mm _8. _2400x10 mm 6. 2400x16 mm 7. 2400x14 mm 2400x10 mm 10. 2400x10 mm 9. 11. 2400x10 mm 12. 11. 2400x10 mm 12. 13. 14. 15. 15. Inside & outside corner fillet Shell-to-Bottom Weld Type* Shell-to-Bottom Weld Exam Mthd* VE & MT/PT/VB Intermittent welding is not permitted Exceptions to Seal-welded Attachments (see Section 5.1.3.7): _ Approvals: Revisions: PO Title: T-551-556 By: K.V. Ck'd: M.SH. Date: 18.03.19 API

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11.								
	Open-Top and Fixed Roofs: (See Sheet 6 for Floating Roofs) Open Top? * Yes № 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* Emergency Venting Devices* Free Vents in Areas Where Snow and Ice May Block Vent*							
	For Non-Frangible Roofs: Seal Weld Roof Plates to Top Angle on the Inside? Yes \(\Delta \) No \(\Delta \); Weld rafters to Roof Plates Yes \(\Delta \) No \(\Delta \)							
	Roof-to-Shell Detail* Radial Projection of Horizontal Component of Top Angle* Inward Outward							
2.	Bottom: Thickness* 10/12mm Style Cone down to center Slope* 1% Weld Joint Type* Single-welded full-fillet lap joint &							
	Provide Drip Ring? Yes D No X Alternate Spec.							
	Annular Ring? Yes X No □ Annular Ring: Minimum Radial Width* Thickness* 12mm							
3.	Foundation: Furnished by* Others Soil Allow. Bearing Pressure* Per Spec.* Type* Anchors: Size* Qty*							
	Soil Allow. Bearing Pressure* Per Spec.* Anchors: Size* Qty* 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* Hydrotest Exemption design per 7.3.6, Item 2) a)							
	Bottom Forces: Floor Wt. New* Corroded* Product Wt.* Water Wt.* Internal Pressure*							
	Partial Vacuum* Other Foundation Loads* Min. Projection of Fdn. Above Grade:							
	Exemption from hydrotest? Yes D No Responsibility for Heating Water, if Required: Purchaser D Manufacturer							
	Hydro-Test Fill Height* Max.designed Settlement Measurements Required? Yes No ☐ Extended Duration of Hydro-Test:							
	☐ Predicted Settlement Profile is Attached							
	☐ Predicted Settlement Profile is Attached							
	☐ Predicted Settlement Profile is Attached Responsibility for Setting Water Quality: Purchaser Manufacturer ☐ Supplemental Test Water Quality Spec.							
	Responsibility for Setting Water Quality: Purchaser Manufacturer Supplemental Test Water Quality Spec.							
	Responsibility for Setting Water Quality: Purchaser Manufacturer Supplemental Test Water Quality Spec							
	Responsibility for Setting Water Quality: Purchaser Manufacturer Supplemental Test Water Quality Spec. Test Water Source & Disposal Tie-In Locations Hydro-Test Annex J Tank? Yes No Post-Pressure-Test Activities Required of the Manufacturer: Broom Clean Potable Water Rinse Dry Interior							
	Responsibility for Setting Water Quality: Purchaser Manufacturer Supplemental Test Water Quality Spec. Test Water Source & Disposal Tie-In Locations Hydro-Test Annex J Tank? Yes No Post-Pressure-Test Activities Required of the Manufacturer: Broom Clean Potable Water Rinse Dry Interior Other Per 7.3.7.2 (4,5,6,7)							
•	Responsibility for Setting Water Quality: Purchaser Manufacturer Supplemental Test Water Quality Spec. Test Water Source & Disposal Tie-In Locations Hydro-Test Annex J Tank? Yes No Post-Pressure-Test Activities Required of the Manufacturer: Broom Clean Potable Water Rinse Dry Interior Other Per 7.3.7.2 (4,5,6,7) Inspection by TBD in Shop; PEI in Field Supplemental NDE Responsibility Supplemental NDE Spec							
	Responsibility for Setting Water Quality: Purchaser Manufacturer Supplemental Test Water Quality Spec. Test Water Source & Disposal Tie-In Locations Hydro-Test Annex J Tank? Yes No Post-Pressure-Test Activities Required of the Manufacturer: Broom Clean Potable Water Rinse Dry Interior Other Per 7.3.7.2 (4,5,6,7) Inspection by TBD in Shop; PEI in Field Supplemental NDE Responsibility Supplemental NDE Spec. (Purch., Mfg., Other)							
	Responsibility for Setting Water Quality: Purchaser Manufacturer Supplemental Test Water Quality Spec. Test Water Source & Disposal Tie-In Locations Hydro-Test Annex J Tank? Yes No Post-Pressure-Test Activities Required of the Manufacturer: Broom Clean Potable Water Rinse Dry Interior Other Per 7.3.7.2 (4,5,6,7) Inspection by TBD in Shop; PEI in Field Supplemental NDE Responsibility Supplemental NDE Spec. (Purch., Mfg., Other) Positive Material Identification? Yes No PMI Requirements: Per QA specification							
i.	Responsibility for Setting Water Quality: Purchaser Manufacturer Supplemental Test Water Quality Spec. Test Water Source & Disposal Tie-In Locations Hydro-Test Annex J Tank? Yes No Post-Pressure-Test Activities Required of the Manufacturer: Broom Clean Potable Water Rinse Dry Interior Clear Per 7.3.7.2 (4,5,6,7) Inspection by TBD in Shop; PEI in Field Supplemental NDE Responsibility Supplemental NDE Spec. (Purch., Mfg., Other) Positive Material Identification? Yes No PMI Requirements: Per QA specification Max. Plate Thickness for Shearing Per 6.1.2							
5.	Responsibility for Setting Water Quality: Purchaser							
5.	Responsibility for Setting Water Quality: Purchaser Manufacturer Supplemental Test Water Quality Spec. Test Water Source & Disposal Tie-In Locations Hydro-Test Annex J Tank? Yes No Post-Pressure-Test Activities Required of the Manufacturer: Broom Clean Potable Water Rinse Dry Interior Cher Per 7.3.7.2 (4,5,6,7) Inspection by TBD in Shop; PEI in Field Supplemental NDE Responsibility Supplemental NDE Spec. (Purch., Mfg., Other) Positive Material Identification? Yes No PMI Requirements: Per QA specification Max. Plate Thickness for Shearing Per 6.1.2 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-Pass? Yes No Leak Test Mthd: Roof Per C.4 Shell* hydrostatic test per 7.3.5 Shell Noz./Manhole Reinf. Plt.* Pneumatic pressure test per 7.3.5							
;.	Responsibility for Setting Water Quality: Purchaser Manufacturer Supplemental Test Water Quality Spec. Test Water Source & Disposal Tie-In Locations Manufacturer: Broom Clean Potable Water Rinse Dry Interior Cher Per 7.3.7.2 (4,5,6,7) Inspection by TBD in Shop; PEI in Field Supplemental NDE Responsibility Supplemental NDE Spec. Positive Material Identification? Yes No PMI Requirements: Per QA specification Max. Plate Thickness for Shearing Per 6.1.2 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-Pass? Yes No Leak Test Mthd: Roof* Per C.4 Shell* hydrostatic test per 7.3.6 Shell Noz./Manhole Reinf. Plt.* Pneumatic pressure test per 7.3.5 Bottom* Viscoum box test per 7.3.5 Floating Roof Components* Per C.4							
	Responsibility for Setting Water Quality: Purchaser Manufacturer Supplemental Test Water Quality Spec. Test Water Source & Disposal Tie-In Locations							
	Responsibility for Setting Water Quality: Purchaser Manufacturer Supplemental Test Water Quality Spec. Test Water Source & Disposal Tie-In Locations							
	Responsibility for Setting Water Quality: Purchaser Manufacturer Supplemental Test Water Quality Spec. Test Water Source & Disposal Tie-In Locations							
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	Responsibility for Setting Water Quality: Purchaser Manufacturer Supplemental Test Water Quality Spec							
· .	Responsibility for Setting Water Quality: Purchaser Manufacturer Supplemental Test Water Quality Spec. Test Water Source & Disposal Tie-In Locations TBD							
5.	Responsibility for Setting Water Quality: Purchaser							
	Responsibility for Setting Water Quality: Purchaser							

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16.	Coatings: רישות/הנחיות מתש"ן Internal Coatings by:	100 may 120 ma		
	External Coating by:	(Not Req'd.,	Others, Tank Mfg.)	
		(Not Req'd.,	Others, Tank Mfg.)	
	Under-Bottom Coating by:	Per Spec.*(Not Rea'd	Others, Tank Mfg.)	
17.	Cathodic Protection System? Yes			
18.		☐ Per Spec.* TBD acc. API 650 Ann	ex l לוודא עם תש"ן	
19.	Release Prevention Barrier? Yes 🗆	No ☐ Per Spec.*		
20.	Tank Measurement System: Required?		ed? Yes 🗆 No 🗆 TBD	
21.	By:* Weight of Tank: Full of Water* 53763 to	Per Spec.* Per Spec.* Brac	e/l ift Spec *	-
22.	References*: API Std 650, Annex L		о/шк ороо.	
-			***************************************	
23.	Remarks*:			
pprov	als:	Revisions: PO	Title: <i>T-551-556</i>	
			By: K.V. Ck'd: M.SH. Da	te:18.03.
			Drawing No.: Sheet 3	of 8

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* If bo	x is blank,	Manufactu	rer shall o	determine and sub		A STATE OF THE STA	Company of the Compan	WIGHON .			
	Campan		14.4	terial*/Thickness*			CONSTR		T		
Shell	Compone Course 1	in the same of the	_	37 Cl.1	3	,A,	Reinforcin	nponent a Dada	Mate	AND THE RESERVE OF THE PARTY OF	C.A.
	Course 2			7 Cl.1				lozzle Necks	A-537		2
	Course		A-33	7 (1.1	2		Appropriate the second second	lozzle Flanges	A-106	Gr.B	2
	Course		-		-		Flange Co	122	A-105	/A F 2 7 C 4	2
	Course		-		-		Anchor Att	Marie Company	A-105/	A537 Cl.1	2
Roof	_	<u>"</u>	A-51	6 Gr.70	-		Submerge	Maria de la companya	A-106 (C+ D	
Botton	n		H-52	0 01.70	3		Welled Str		A-100 (31.0	2 +
0.0000000000000000000000000000000000000	ar Ring				3			d Structurals			
				**************************************				neck here if C.A	is to apply to	each evons	+ exertus he
*****				TA	ABLE 2 B	OLTS AN	D ANCHO		. is to apply to	each expose	su surface
	mponent	Head T	ype*	Bolt or Anchor Ma	terial*	Nu	t Material*		Thread Series*		C.A.
	Bolting	Stud b	olts	SA 193 B7		SA	194 H-2				++
Structu	ıral Bolting										++
Ancho	r Bolts										++
Mark	Service	Size, NPS, or Dia. (in.)	or Wall Thick,	Reinf. Plate	On Open. (Y/N)	Flange Type	Flange Class or Thick.	Bearing Surf. Dimen. and Finish	Gasket Thick, and Dimen.	Gasket Mat'l, and Descript.	Proj. to FF or CL or from Datum Lines
							-				
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								Drawing No.:	Sheet 4	of <u>8</u>	



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14	* If box is blank, Manufacturer shall determine and submit as per Annex L.											
	OTHER TANK APPURTENANCES											
	24.	Platform, Stairway, and Railing: Galvanizing Req'd?* Yes X No Stairway Style*Straight & Helical Walk Surf. Type* Graiting (Straight or Helical)										
		Stair and	Walkway Clear V	Vidlh* SI 1142, SI 141	22 part 4 Natio	nal Safety Standar	ds*_ SI 1142, SI 141	122 part 4				
		Architectu	ıral/Structural Sp	ecification*								
		Gauger's	Platform Req'd?	Yes 💢 No 🗆	Qty Req'd,* _	1 Per	Spec. *					
	25.	100 2 10 12										
		Supplemental Jacket, Heater, or Cooler Specifications*										
	26.	Mixer/Agit	lator: Quantity	I.A. Size*	Per Spec).*			=			
	27.	Insulation	: Required? Yes	s □ No 💢 Thick	mess*	Material*						
		Per Specs	s*		Respon	nsibility for Insulation	on and Installation					
							(Pur	chaser, Manufa	cturer, Others)			
	28.	Structural	Attachments: Lift	Lugs?* Yes 🗆	No 📜 Desc.	•						
	28. Structural Attachments: Lift Lugs?* Yes \(\) No \(\) Desc.*											
14	29. Various Other Items; Welded Flush-Type; Shell Connection Cleanout Fitting Waive Application of Annex P? Yes No TB											
	Miscellany #1 Miscellany #2											
	Miscellany #3 Miscellany #4											
	Miscellany #5 Miscellany #6											
		TABLE 4 OTHER TANK APPURTENANCES*										
		Mark	Quantity	Service or Description	Size	Orientation	Height from Datum	Material	Remarks			
-												
		_			12-11-2-12-12-12-12-12-12-12-12-12-12-12							
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100000000000000000000000000000000000000	TING ROOF DATA			
	Floating Roof Selection			
C	Design Basis: Annex C 📈 Or Annex H			
Т	ype of Roof: (External or Internal): Single	e Deck Pontoon* 💢 Double Deck* 🗖		
	(Internal Only): Tubular Po	ontoon*		
	Other 🔲 _	Supplem	ental Spec.:	
31. Se	als By vendor			
Р	rimary Seal: Shoe D Envelope D Wip	per/Compression Plate Other	Supplemental Spec:	
	Shoe Mechanism: Mfg. Std. Othe	r 🗅		
	Electrically Isolate Mechanism from Sh	oes? Yes 🗆 No 🗆 Wax Scrapers Require	d? Yes 🗆 No 🗆	
	Minimum Shoe Thickness*	Carbon Steel Shoes to be Galvanized? Ye	s 🗆 No 🗀	
	Secondary Seal: Shoe Envelope	☐ Wiper ☐ None ☐ Other ☐	Supplemental Spec;	
32. D	ata for All Floating Roofs: TBC by			
0	verflow Openings in Shell Acceptable? Yes	☐ No X Shell Extension? Yes ☐ No [
R	oof-Drain Check Valves Required? Yes 🎽	No ☐ Roof-Drain Isolation Valves Require	d? Yes ₩ No □	
		No Yes D Supplemental Requirement		
		SId. ☐ Armored Flexible Pipe Swivels i		
		I Spec.	THE RESIDENCE OF THE PROPERTY	
	inimum Deck Thickness* 6mm	горес.		
Br	ulkhead Top Edges to be Liquid-Tight? Yes	No Seal-weld Underside of Roof? Y	es D No W	1.
		Cables: Yes ☐ No M Supplemental Sp		
		d 1 Qty of Sample Hatches Requi		
			Plates? Yes X No Striking Plates? Yes No 🗆	1
			Float ☐ Float Wiper ☐ Pole Cap ☐ TBC	
Qt	y. of Roof Manholes* 2 on deck Alternative	High-Roof Clearance Above Bottom: 2m		18
Alf	lemative Low-roof Clearance Above the Hig	hest Obstruction and the Floating Roof: 1.5	<u>m</u>	
	movable Leg Storage Racks? Yes D No Iditional Data for External Floating	Conference Confe		
	eather Shield? Yes 💥 No 🔲 Suppl. Sp			
	illing Ladder Req'd? Yes 📜 No 🗆 Field			
		vhr) Based on a 60 Minute Duration A	sesociated with the 10 year Storm	
		_In.(mm)) Based on the _100 year _Sto		
	ut-of-Service Drains Required? Yes X No			15
		ed? Yes V No D Supplemental Specifica	lian.	113
	nded Live Load*	eu: 105 M No 🗀 Supplemental Specifica	uori	
Approval		Revisions: po	Title: <i>T-551-556</i>	
			By: K.V. Ck'd: M.SH. Date: 18.03.19	

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34. Additional Data for I	stornal Floating Boofs.									
	Additional Data for Internal Floating Roofs:									
	ion Legs? Yes 🔲 No 🔲 Cable-Supported Roof? Yes 🔲 No 🔲 Fixed-Roof Inspection Hatches Required?: Yes 🗀 No 🗀									
Internal Roof Drain Requ	ired? Yes 🗆 No 🗀 Omit	☐ 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									
Roof Erector's Flotation Test: w/ tank hydro at completion of roof at later date										
										Flotation Test Media: Wa
Flotation Test: Duration _	Fill Height:									
Flotation Test Items provide	ded by Purchaser (see H.6.7):	None List At	tached							
Responsible Party for Inc.	pecting Roof during Initial Fill:	Purchagar 🗖 🐧	ther 🗖							
respondible reary for ma	seeing recordering million Fills.	Tulcilasei 🗖 O	ulei 🗕							
	TAB	LE 5 FLOATING	ROOF MATER	RIALS by ve	ndor					
Component	Material*/Thickness*	C.A./Coating*	Comp	onent	Material*/Thickness*	C.A./Coating*				
Deck Plate			Datum Plate							
Inner Rim Plate			Tubular Pontoon							
Outer Rim Plate			Pontoon Bulkhead							
Foam Dam			Submerged P	Pipe						
Sandwich Panel Face Plate			Gulde Pole							
Sandwich Panel Core			Secondary Seal							
Gauge Well			Secondary Se	eal Fabric						
Drain Sumps			Wiper Tip							
Opening Sleeves			Wax Scraper							
Floating Suction Lines			Weather Seal							
Primary Fabric Seal			Envelope Fabric							
Foam Log Core			Shoe Mechanisms							
anding Legs			Primary Seal Shoe							
anding Leg Bottom Pads			Removable Covers							
Manhole Necks			Rolling Ladder							
Vents		Inlet Diffusers								
Approvals:	Revision	ns: PO		Title: <i>T-551</i> -	556					
			By: K.V.		Date: 18.03.19					
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* If box is blank, Manufacturer shall determine and submit as per Annex L.

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