





REV.	DESCRIPTION	DATE	PROJ.	EXEC.	CHECK.	APPR.
1	Issue for Use	04/09/20	0469	MG	LF	AC
0	Issue for Approval	05/05/20	0469	MG	LF	AC

	VENICE LNG FEED - Venice LNG Terminal (Porto Marghera)
	TECHINT ENGINEERING & CONSTRUCTION Process Engineering LNG STORAGE TANK DATASHEET

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	ESC: -	JOB: 0469	

 TECHINT Engineering & Construction	LNG STORAGE TANK DATASHEET	TECHINT N°: 0469-TITA-R-DS-002-001	Revision 1
		CUSTOMER N°:	Date 04/09/2020
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FEED - Venice LNG Terminal (Porto Marghera)			

- 1) Ni9 steel or SS membrane
- 2) Not to be exceeded except for safe design reasons (dome radius)
- 3) BOR to be minimized as reasonably as possible
- 4) To be confirmed/defined by the Vendor
- 5) Keep safety distance 0,5 OD from Decal's tanks - 0,7 OD from West property limit

TECHINT Engineering & Construction		VeniceLNG			CLIENT JOB NUMBER		0469		REV				
DONE BY MG		STORAGE TANK			ITEM								
APP. BY LF					SHEET		4		OF		5		
PROJECT		0469			REV		1		DATE		4-9-20		
FOR		Venice LNG			DOCUMENT REFERENCE								
UNIT		LNG STORAGE TANKS			LOCATION		ITALY						
Rev.		0		1									
Date		05-05-20		04-09-20									
Done		MG		MG									
App by		LF		LF									
GENERAL DATA													
DIAGRAM NUMBER													
NUMBER OF UNITS IN OPERATION / SPARE / WAREHOUSE				1 / 0 / 0									
SERVICE TYPE				LNG STORAGE TANK FULL CONTAINMENT (Note 1)									
PROCESS DATA													
2		FLUID		LIGHT LNG				HEAVY LNG					
3		OP. TEMPERATURE INNER TANK MIN/MAX		°C		-160.1				-160.8			
4		OP. TEMPERATURE OUTER TANK MIN/MA		°C		- / +25				- / +25			
5		OPERATING PRESSURE MIN/MAX		mbarg				100 / 250					
6		MASS FLOW LIQUID IN/OUT MAX		m ³ /h				2131 / 950					
7		DENSITY MIN/MAX		kg/m ³		430,7				481,3			
8		MOLECULAR WEIGHT		kg/kmol		16,59				19,16			
9		VISCOSITY		cP		0,1167				0,1709			
DESIGN DATA													
11		DESIGN PRESSURE MIN/MAX		mbarg				-10 / 290					
12		DESIGN TEMPERATURE MIN/MAX		°C				-196 / +55					
13		WORKING VOLUME (NET)		m ³				32000					
14		DIAMETER (Outer container)		mm				47000 (Note 5)					
15		DIAMETER (Inner container)		mm				By Vendor					
16		HEIGHT (Bottom corner to Top of dome)		mm				32000 (Note 2)					
17		DESIGN BOIL-OFF RATE						0.075% PER DAY (Note 3)					
18		POSITION						VERTICAL					
MATERIALS													
20		INNER TANK						X7Ni9 EN 10028-4 (Note 1)					
21		OUTER TANK						CONCRETE					
22		CORROSION ALLOWANCE		mm				0					
23		SPECIFICATIONS / CODES						-					
24		POST WELD HEAT TREATMENT						By Vendor					
25		INSULATION TYPE /THICKNESS		type / mm				By Vendor					
26		FLUID CLASSIFICATION						1					
NOZZLES													
27		REF.		N°		DN (mm)		Rating		Service		Remarks	
29		N1		1		400 (16")		300 #RF WN		LNG TOP INLET			
30		N2		1		400 (16")		300 #RF WN		LNG BOTTOM INLET			
31		N3		1		500 (20")		150 #RF WN		VAPOR INLET / OUTLET		Note 1	
32		N4		1		By Vendor		300 #RF WN		COOLDOWN NOZZLE			
33		N5 A/B/C		3		TBD		300 #RF WN		IN-TANK PUMP WELL			
34		N6		1		By Vendor		150 #RF WN		TEST LINE FOR TRANSMITTERS			
35		N9		1		By Vendor		150 #RF WN		VENT			
36		N11		1		By Vendor		150 #RF WN		INNER TANK PURGE			
37		N12 A/B		1		By Vendor		150 #RF WN		ANNULAR SPACE PURGE			
38		N13		1		By Vendor		150 #RF WN		BOTTOM PURGE			
39		N14		1		By Vendor		150 #RF WN		BOTTOM INSULATION SYSTEM PURGE			
40		N15 A/B/C/D		1		By Vendor		150 #RF WN		CP WALL INSULATION PURGE			
41		N16		2		300 (12")		150 #RF WN		PRESSURE RELIEF VALVES PRV 1		Note 4	
42		N17		1		TBD		150 #RF WN		PILOT LINE OF PRV		Note 4	
43		N18 A/B/C/D/E/F		6		TBD		150 #RF WN		VACUUM SAFETY RELIEF VALVES		Note 4	
44		N19		58		By Vendor		150 #RF WN		PERLITE FILLING			
45		N21		1		By Vendor		150 #RF WN		VENT TO ATMOSPHERE			
46		K1 A/B		2		TBD		150 #RF WN		SERVO LEVEL GAUGE		Note 4	
47		K1 C/D		2		TBD		150 #RF WN		LEVEL GAUGE		Note 4	
48		K2 A/B		2		TBD		150 #RF WN		MULTI ELEMENTS TEMPERATURE		Note 4	
49		K3		1		TBD		150 #RF WN		LTD MULTISENSOR PROBE		Note 4	
50		K4		1		TBD		150 #RF WN		HIGH HIGH LEVEL PROBE		Note 4	
51		K5		1		TBD		150 #RF WN		TEMPERATURE (UNDER DOME ROOF)		Note 4	
52		K6		1		TBD		150 #RF WN		TEMPERATURE (UNDER SUSPENDED DECK)		Note 4	
53		K7		1		TBD		150 #RF WN		PRESSURE		Note 4	
54		K8		1		TBD		150 #RF WN		PERLITE SAMPLING POINT		Note 4	
55		K9		1		TBD		150 #RF WN		NOZZLE FOR CAMERA		Note 4	
56		K10		1		TBD		150 #RF WN		COOLDOWN TEMPERATURE SENSOR		Note 4	
57		K11		1		TBD		150 #RF WN		SKIN TEMPERATURE SENSORS		Note 4	
58		K12		1		TBD		150 #RF WN		TEMP. FOR HIGH LEVEL DETECTION		Note 4	
59		K13		1		TBD		150 #RF WN		PRESSURE IN INNERT TANK SPACE		Note 4	
60		K14		1		TBD		150 #RF WN		HIGH HIGH HIGH LEVEL PROBE		Note 4	
61		K15		1		TBD		150 #RF WN		SPARE		Note 4	
62		K16 A/B/C/D/E/F		6		TBD		150 #RF WN		PRESSURE TRANSMITTER		Note 4	
63		M1		1		By Vendor				MANWAY FOR STAFF ACCESS			
64		M2		1		By Vendor				MANWAY FOR MATERIAL ACCESS			

DONE BY MG
APP. BY LF

STORAGE TANK

PROJECT	0469	DOCUMENT	
FOR	Venice LNG	REFERENCE	
UNIT	LNG STORAGE TANKS (SYSTEM 02)	LOCATION	ITALY

Rev.	0	1					
Date	05-05-20	04-09-20					
Done	MG	MG					
App by	LF	LF					

SKETCH

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