



Gas Pipeline Project  
Algeria to Italy via Sardinia  
GL-F-002  
FEED Scope of Services

J P KENNY



PIOMBINO  
PROCESS & UTILITIES EQUIPMENT LIST

PROJECT No.  
RC6202

WBS  
07-10-26

No OF SHEETS  
3

DOCUMENT No

AREA  
800

DIS  
H

TYPE  
5

NUMBER  
0001

01	18/06/08	ISSUE FOR COMMENTS	SCB	SRG	PLV	JFG	
REV	DATE	DESCRIPTION	BY	CHK	ENG	PM	CLIENT

<div><div><div>S</div><div>SOFREGAZ</div></div><div><div>GALSI PIPELINE PROJECT - UNIT 800 - PIOMBINO RECEIVING TERMINAL</div><div>PROCESS &amp; UTILITIES EQUIPMENT LIST</div><div>800.H.5.0001</div></div></div>															Revision01		Date18/06/08	
REV.	ITEM	SERVICE	NB	Main CRITERION	Second CRITERION	Pressure			Temperature			Material		Diameter x L Diameter x H L x W x H	TOTAL Weight EACH		Type	Remarks
						P <sub>op</sub> bar(g)	P <sub>s</sub> bar(g)	P <sub>d</sub> bar(g)	T <sub>op</sub> (°C)	T <sub>s</sub> (°C)	T <sub>d</sub> (°C)	Shell Casing	Tube Internals Impeller	(mm)	Empty (T)	Test (T)		
UNIT 800 - GAS FILTRATION																		
	800.S.01	SLUG CATCHER	1	1 060 600 Sm³/h	Demister	60 / 119		200	10 / 25		85	CS		3200 x 6400			H	
UNITS 801/802 - GAS FILTRATION																		
	801/802.S.01	GAS FILTER	1+1	848 500 Sm³/h	Cartridges + Vanes	60 / 119		200	10 / 25		85	CS		2400 x 5800			H	
UNITS 804 - GAS HEATING																		
	804.E.01 A/B	GAS HEATER	1+1	Duty: 16 630 kW		NG: 77 W: 3		NG: 200 W: 5.5			85	SS					PE	
UNIT 821 - INSTRUMENT AIR & SERVICE AIR																		
	821.K.01 A/B	AIR COMPRESSOR	1+1	58 Nm³/h	9 kW	ATM / 9		11			By supplier	By supplier						oil-free screw compressor
	821.T.01	WET AIR BUFFER	1	2 m³	-	9		11			85	CS		1000 x 2600			V	
	821.T.02	DRY AIR RECEIVER	1	2 m³	-	9		11			85	CS		1000 x 2600			V	
	821.Z.01 A/B	INSTRUMENT AIR DRYER	1+1	50 Nm³/h of dry air	-	9		11			85	CS					V	heatless adsorption type
UNIT 822 - FUEL GAS																		
	822.Y.01	FUEL GAS METERING	1 + 1	4260 Sm3/h	Turbine	75		82.5	1 / 25		85							
	822.E.01 A/B	FUEL GAS HEATER	1 + 1	87 kW	4260 Sm³/h	75		82.5	1 / 40		85	CS	CS					Electrical water bath
UNIT 823 - VENT																		
	823.D.01	VENT	1	130 000 kg/h		ATM		2	- 39		- 46 / 85	SS		20" x 21 m				
UNIT 824 - DRAINS																		
	824.P.01	DRAIN SUMP PUMP	1	5 m³/h @ 20 m	0.5 kW			4,5			85						Centr.	
	824.S.01	API SEPARATOR	1															
	824.T.01	DRAIN SUMP	1	16 m³		ATM		Full of water			85	CS		1900 x 5500			H	
	824.Y.01	SEPTIC TANK	1	5 m³		ATM		Full of water						2500 x 2000 x 1500				
	824.Y.02	EVAPORATION PIT	1											(1)				(1): ground area = 20 m by 20 m

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UNIT 825 - HOT WATER																		
	825.E.01 A/B	WATER HEATER	1+1	17 470 kW	Water flow rate: 360 m3/h			5,5	29 / 71									Direct HC fired heater 80% efficiency
	825.P.01 A/B	WATER PUMP	1+1	360 m³/h @ 20 m	30 kW			5,5	30		85						Centr.	
	825.P.02	WATER IN TANK PUMP	1	3 m³/h @ 30 m	0.5 kW			5,5			85						Centr.	
	825.T.01	WATER EXPANSION DRUM	1	5 m³				5,5			85	CS		1300 x 4000			V	
	825.T.02	WATER STORAGE TANK	1	20 m³				Full of water			85	GRP		2100 x 6300			H	
UNIT 826 - SANITARY WATER																		
	826.P.01 A/B	RAW WATER PUMP	1+1	3 m³/h @ 40 m	0.5 kW			5,5			85						Centr.	
	826.T.01	RAW WATER STORAGE TANK	1	5 m³		ATM		Full of water			85	Galvanised Carbon Steel		1300 x 3900			H	bolted tank with butyl liner
	826.T.02	SANITARY WATER ACCUMULATOR	1	0.3 m³				5,5			85						V	
UNIT 828 - NITROGEN PRODUCTION																		
	828.K.01 A/B	NITROGEN PRODUCTION AIR COMPRESSOR	1+1	6 Nm³/h of air	1 kW	ATM / 8		9										oil-free screw compressor
	828.T.01	NITROGEN BUFFER	1	2 m³		8		9			85	CS		1000 x 2600			V	
	828.Z.01	NITROGEN PRODUCTION UNIT	1	2 Nm³/h of N <sub>2</sub> 95% N <sub>2</sub> purity		8		9			85							membrane type
UNIT 840 - EMERGENCY DIESEL GENERATOR																		
02	840.G.01	EMERGENCY DIESEL GENERATOR	1	320 kW														
	840.T.01	EMERGENCY DIESEL GENERATOR DAY TANK	1															