

## Shell Petroleum Development Company of Nigeria

Classification Status: Restricted

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DOCUMENT NUMBER

SSG-NG01012401-GEN-PX-4322-00001

# SOUTHERN SWAMP ASSOCIATED GAS SOLUTION (SSAGS) PROJECT PRODUCTION FACILITIES EPC

CONTRACT NO.: NG01012401

### **Equipment Summary List**

Revision	Date	Description	Originator	Checker	Approve
				20	
			f mony		6016

#### Contractor:



SAIPEM

Contractor Document Number: GEN-ZA-E-03032

SSG-NG01012401-GEN-PX-4322-00001

**Equipment Summary List** 

#### ADDITIONAL AGREEMENT/APPROVAL RECORD

Party	Ref Ind.	Name	Sign	Date

#### **Revision Philosophy**

- Revisions for Review First issue will be issued at R01, with reason of issue description Issued for Review, (with subsequent R02, R03, etc. as required to be used in dependence of review status received by SPDC). Last issue: A01, A02... with reason of issue description Issued for approval, A02 might be reissued in case further modification occurred A02, with reason of issue description Re-Issued for approval. When document is considered closed by SPDC, the revision must be changed to C01, C02... with reason of issue description Approved for Construction.
- Revisions for Design Documentation First issue will be issued at D01, with reason of issue description Issued for Review, (with
  subsequent D02, D03, etc as required to be used in dependence of review status received by SPDC). Last issue: C01, with reason of issue
  description Issued for Construction (Final Design) (C02 might be reissued in case further modification occurred). When document is
  considered closed by SPDC, the revision must be increased (with no change on the document itself) and issued, with reason of issue
  description Approved for Construction (Final Design).
- Revisions for Purchase First issue will be issued at P01, with reason of issue description Issued for Purchase, (P02, etc to be used in dependence of review status received by SPDC).
   Last issue: P03, with reason of issue description Approved for Purchase (Final Issue) (P0X might be reissued in case further modification occurred).
- Revisions for Information First issue will be issued at R01, with reason of issue description Issued for Information.
- Revisions for As built Documents or drawings revised as "As built" will be issued as Z01, Z02 Z03 etc as required.
- Narrative sections revised from previous approved issues are to be noted in the table below and/or highlighted in the RH margin (using the
  appropriate revision status).
- Previous revision highlighting to be removed at subsequent issues.
- Drawings/diagrams revised from previous approved issues are highlighted by 'clouding' the affected areas and by the use of a triangle containing the revision status.
- If a document is cancelled the document will be issued at the next sequential number by adding the suffixed with a X. For example if R02 is the current revision then X03 will be the Cancelled revision, with reason of issue description Cancelled.
- All revisions to this document must be approved by the relevant Technical authority

#### **Revision History**

Revision No.	Date of issue	Document ID/Reason for change
C02	12-May-2016	Re-Approved for Construction
C01	9-Oct-2015	Approved for Construction
A03	15-Aug-2014	Re-issued for Approval
A02	27-May-2014	Re-issued for Approval
A01	18-Jun-2013	Issued for Approval

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							EQUIPMENT LIST													
		Project:	Southern Swan	np Associated Gas Solution	on															T
Rev.	Item	WBS LOCATION	MAIN EQUIPMENT TAG NUMBER	SUB EQUIPMENT TAG NUMBER	Equipment Type	DESCRIPTION	PEFS Number	N° Units	Design Temperature	Design Pressure	Process Fluid		Rating	J / Duty (Not	e 1)		F	Physical Size (	(each) (Note	e 1)
4	226	TUNU / CPF	TUNG1-A-1111	TAG NOMBER	Package	Condensate Flash Gas Compressor Package - Train 1	SSG-NG01012401-TUNG1-PX-2365-00028-001		Temperature	11000010	riuu						12.0	4.5	4.1	44,000.0
4	227	TUNU / CPF	TUNG1-A-1111	TUNG1-K-1111	Screw Compressor	Condensate Flash Gas Compressor - Train 1	SSG-NG01012401-TUNG1-PX-2365-00028-001	1 100%	0 / 120	16	HC GAS	2.639				540				
4	228	TUNU / CPF	TUNG1-A-1111	TUNG1-KM-1111	Driver	Condensate Flash Gas Compressor Driver - Train 1	SSG-NG01012401-TUNG1-PX-2365-00028-001	1 100%	N/A	N/A										1
4	229	TUNU / CPF	TUNG1-V-1111		Vessel	Condensate Flash Gas Compressor Suction Scrubber - Train 1	SSG-NG01012401-TUNG1-PX-2365-00026-001	1 100%	0 / 120	7 / FV	HC GAS	2.54						0.90	3.70	3,800.0
4	230	TUNU / CPF	TUNG1-V-1111	TUNG1-V-1111-INT	Internal	SVS	SSG-NG01012401-TUNG1-PX-2365-00026-001													840.0
4	231	TUNU / CPF	TUNG1-P-1111 A		Pump	Condensate Flash Gas Compressor Suction Scrubber Pumps - Train 1	SSG-NG01012401-TUNG1-PX-2365-00027-001	1 100%	0 / 120	12	HC LIQUID / WATER		5.5	22		1.2	0.80	0.80	1.20	500.0
4	232		TUNG1-P-1111 A	TUNG1-PM-1111 A	Electric Motor	Condensate Flash Gas Compressor Suction Scrubber Pumps Electric Motor - Train 1	SSG-NG01012401-TUNG1-PX-2365-00027-001				WATER					4.0				_
4	233	TUNU / CPF	TUNG1-P-1111 B		Pump	Condensate Flash Gas Compressor Suction Scrubber	SSG-NG01012401-TUNG1-PX-2365-00027-001	1 100%	0 / 120	12	HC LIQUID / WATER		5.5	22		1.2	0.80	0.80	1.20	500.0
4	234	TUNU / CPF	TUNG1-P-1111 B	TUNG1-PM-1111 B	Electric Motor	Pumps - Train 1 Condensate Flash Gas Compressor Suction Scrubber	SSG-NG01012401-TUNG1-PX-2365-00027-001				WATER					4.0				+
6	235	TUNU / CPF	TUNG1-E-1111		Air Cooler	Pumps Electric Motor - Train 1  Condensate Flash Gas Compressor Cooler - Train 1	SSG-NG01012401-TUNG1-PX-2365-00029-001	1 100%	0 / 120	16/FV	HC GAS	2.54			378.8		5.4	2.95	3.55	10,850.
5	236	TUNU / CPF	TUNG1-E-1111	TUNG1-EM-1111A	Electric Motor	Condensate Flash Gas Compressor Cooler Electric Moto	SSG-NG01012401-TUNG1-PX-2365-00029-001									4.00	480.00	215.00	300.00	72.0
5	237	TUNU / CPF	TUNG1-E-1111	TUNG1-EM-1111B	Electric Motor	A - Train 1  Condensate Flash Gas Compressor Cooler Electric Moto B - Train 1	SSG-NG01012401-TUNG1-PX-2365-00029-001									4.00	480.00	215.00	300.00	72.0
4	238	TUNU / CPF	TUNG1-A-1121		Package	B - Irain 1  Condensate Flash Gas Compressor Package - Train 2	SSG-NG01012401-TUNG1-PX-2365-00032-001	1 100%									12.0	4.5	4.1	44,000.
4	239		TUNG1-A-1121	TUNG1-K-1121	Screw	Condensate Flash Gas Compressor - Train 2	SSG-NG01012401-TUNG1-PX-2365-00032-001	1 100%	0 / 120	16	HC GAS	2.639				540				+
4	240	TUNU / CPF	TUNG1-A-1121	TUNG1-KM-1121	Compressor	Condensate Flash Gas Compressor Driver - Train 2	SSG-NG01012401-TUNG1-PX-2365-00032-001	1 100%	N/A	N/A										+
4	241		TUNG1-V-1121		Vessel	Condensate Flash Gas Compressor Suction Scrubber -	SSG-NG01012401-TUNG1-PX-2365-00030-001	1 100%	0 / 120	7 / FV	HC GAS	2.54						0.90	3.70	3,800.0
4	242		TUNG1-V-1121	TUNG1-V-1121-INT	Internal	Train 2 SVS	SSG-NG01012401-TUNG1-PX-2365-00030-001													840.0
4	243		TUNG1-P-1121 A		Pump	Condensate Flash Gas Compressor Suction Scrubber	SSG-NG01012401-TUNG1-PX-2365-00031-001	1 100%	0 / 120	12	HC LIQUID /		5.5	22		1.2	0.80	0.80	1.20	500.0
4	244		TUNG1-P-1121 A	TUNG1-PM-1121 A	Electric Motor	Pumps - Train 2 Condensate Flash Gas Compressor Suction Scrubber	SSG-NG01012401-TUNG1-PX-2365-00031-001	1 1007	0		WATER					4.0				+
4	245		TUNG1-P-1121 B		Pump	Pumps Electric Motor - Train 2 Condensate Flash Gas Compressor Suction Scrubber	SSG-NG01012401-TUNG1-PX-2365-00031-001	1 100%	0 / 120	12	HC LIQUID /		5.5	22		1.2	0.80	0.80	1.20	500.0
4	246		TUNG1-P-1121 B	TUNG1-PM-1121 B	Flectric Motor	Pumps - Train 2 Condensate Flash Gas Compressor Suction Scrubber	SSG-NG01012401-TUNG1-PX-2365-00031-001	1 10070	07120	12	WATER		0.0	LE		4.0	0.00	0.00	1.20	
6	247		TUNG1-E-1121	101101111111111111111111111111111111111	Air Cooler	Pumps Electric Motor - Train 2  Condensate Flash Gas Compressor Cooler - Train 2	SSG-NG01012401-TUNG1-PX-2365-00033-001	1 100%	0 / 120	16/FV	HC GAS	2.54			378.8		5.4	2.95	3.55	10,850.0
5	248		TUNG1-E-1121	TUNG1-EM-1121A	Flectric Motor	Condensate Flash Gas Compressor Cooler Electric Moto		1 10076	07120	10/1 V	TIC GAS	2.54			370.0	4.00	480.00	215.00	300.00	72.0
5	249		TUNG1-E-1121	TUNG1-EM-1121B	Electric Motor	A - Train 2  Condensate Flash Gas Compressor Cooler Electric Moto										4.00	480.00	215.00	300.00	72.0
4	250		TUNG1-A-2000	10NG1-EM-1121B	Package	B - Train 2 Twister Dew Pointing Package	SSG-NG01012401-TUNG1-PX-2365-									4.00	400.00	213.00	300.00	72.0
2	251		TUNG1-A-2000	TUNG1-A-2001 A/B/C/D/E/F	Miscellaneous	Twister Tubes	00035/36/37/38/39/40-001 SSG-NG01012401-TUNG1-PX-2365-	6 17%	-45 / 100	137.0	HC GAS							0.47	1.50	2,000.0
3	252		TUNG1-A-2000	TUNG1-E-2005	N/A	Jacket Heater	00035/36/37/38/39/40-001 SSG-NG01012401-TUNG1-PX-2365-00041-001	1 100%		17.0	MEG SOLUTION							0.47	1.00	2,000.0
3	253		TUNG1-A-2000	TUNG1-E-2006	N/A	Liquid Heater	SSG-NG01012401-TUNG1-PX-2365-00041-001	1 100%		17 (INT) /	(50% vol) MEG SOLUTION									+
-	254	TUNU/CPF	TUNG1-A-2000	TUNG1-E-2007	N/A	Vortex Finder Heater	SSG-NG01012401-TUNG1-PX-2365-00041-001	1 100%	-45 / 100	137 (EXT) 17 (INT) /	(50% wt) MEG SOLUTION									+
3	255	TUNU/CPF		TUNG1-E-2007	N/A	Deflector Head Heater	SSG-NG01012401-TUNG1-PX-2365-00041-001	1 100%	-45 / 100	137 (EXT) 17 (INT) /	(50% wt) MEG SOLUTION									+
3	256	TUNU / CPF		TUNG1-E-2008	Vessel	Hydrate Separator	SSG-NG01012401-TUNG1-PX-2365-00041-001	1 100%	-45 / 100 -45 / 100	137 (EXT) 137.0	(50% wt) HC GAS							1.20	11.78	35,000.
4	256	TUNU/CPF		TUNG1-V-2003	Strainer	Twister Inlet Strainer	SSG-NG01012401-TUNG1-PX-2365-00041-001	1 100%	-45 / 100 -45 / 100	137.0	HC GAS		1446							_
4													1446					3.00	0.50	1,100.0
4	258 259		TUNG1-H-2001 TUNG1-E-2001 A		Electric Heater	Condensate Heater	SSG-NG01012401-TUNG1-PX-2365-00047-002 SSG-NG01012401-TUNG1-PX-2365-00044-001	1 100%	-45 / 100 -45 / 125	137 / FV S: 137 / FV	HC LIQUID						3.42	0.24		1,900
4						Gas-Liquid Heat Exchanger				T: 137 / FV S: 137 / FV	S: CONDENSATE T: HC GAS							0.43		
4	260		TUNG1-E-2001 B			Gas-Liquid Heat Exchanger	SSG-NG01012401-TUNG1-PX-2365-00044-001	1 100%	-45 / 125	T: 137 / FV S: 137 / FV	S: CONDENSATE T: HC GAS						10.0	0.43		6,000
Ľ.	261		TUNG1-E-2002 A			Gas-Liquid Heat Exchanger	SSG-NG01012401-TUNG1-PX-2365-00045-001	1 100%	-45 / 125	T: 137 / FV S: 137 / FV	S: CONDENSATE T: HC GAS						10.5	0.49		8,000
4	262		TUNG1-E-2002 B			Gas-Liquid Heat Exchanger	SSG-NG01012401-TUNG1-PX-2365-00045-001	1 100%	-45 / 125	T: 137 / FV S: 137 / FV	S: CONDENSATE T: HC GAS						10.5	0.49		8,000
4	263		TUNG1-E-2003			Gas-Gas Heat Exchanger	SSG-NG01012401-TUNG1-PX-2365-00046-001	1 100%	-45 / 125	T: 137 / FV S: 137 / FV	S: HC GAS T: HC GAS						12.0	0.84		25,000
4	264		TUNG1-E-2004			Gas-Gas Heat Exchanger	SSG-NG01012401-TUNG1-PX-2365-00046-001	1 100%	-45 / 125	T: 137 / FV	S: HC GAS						12.0	0.84		25,000
4	265		TUNG1-V-2001		Vessel	1st Stage Twister Inlet Separator	SSG-NG01012401-TUNG1-PX-2365-00043-001	1 100%	-45 / 125	137 / FV	HC GAS	204					<u> </u>	0.90	5.30	15,000.0
2	266		TUNG1-V-2001	TUNG1-V-2001-INT	Internal	Gasunie Cyclon	SSG-NG01012401-TUNG1-PX-2365-00043-001	1									-			700.0
4	267		TUNG1-V-2002		Vessel	2nd Stage Twister Inlet Separator	SSG-NG01012401-TUNG1-PX-2365-00047-001	1 100%	-45 / 100	137 / FV	HC GAS	193					<u> </u>	1.40	5.90	38,000.
2	268		TUNG1-V-2002	TUNG1-V-2002-INT	Internal	SMSM	SSG-NG01012401-TUNG1-PX-2365-00047-001	$\perp$									<u> </u>			1,500.0
6	269		TUNG1-E-2301		Air Cooler	NAG Cooler	SSG-NG01012401-TUNG1-PX-2365-00049-001	1 100%	-45 / 100	150/FV	HC GAS						11.5	6.15	3.80	60,000.
5	270		TUNG1-E-2301	TUNG1-EM-2301A		NAG Cooler Electric Motor A	SSG-NG01012401-TUNG1-PX-2365-00049-001	$\perp$								37/10	871.00	430.00	583.00	370.0
5	271	TUNU / CPF	TUNG1-E-2301	TUNG1-EM-2301B	Electric Motor	NAG Cooler Electric Motor B	SSG-NG01012401-TUNG1-PX-2365-00049-001									37/10	871.00	430.00	583.00	370.0

							EQUIPMENT LIST												
		Proje		np Associated Gas Solutio	n														
Rev.	Item	WBS LOCAT	ON MAIN EQUIPMENT TAG NUMBER	SUB EQUIPMENT TAG NUMBER	Equipment Type	DESCRIPTION	PEFS Number	N° Units	Design Temperature	Design Pressure	Process Fluid	Rating /	/ Duty (Note	1)		PI	hysical Size (e	each) (Note	1)
5	272	TUNU /	PF TUNG1-E-2301	TUNG1-EM-2301C	Electric Motor	NAG Cooler Electric Motor C	SSG-NG01012401-TUNG1-PX-2365-00049-001							3	7/10	871.00	430.00	583.00	370.0
5	273	TUNU /	:PF TUNG1-E-2301	TUNG1-EM-2301D	Electric Motor	NAG Cooler Electric Motor D	SSG-NG01012401-TUNG1-PX-2365-00049-001							3	7/10	871.00	430.00	583.00	370.0
4	274	TUNU /	:PF TUNG1-V-2301		Vessel	AG Slug Catcher	SSG-NG01012401-TUNG1-PX-2365-00002-001	1 100%	0 / 100	16 / FV	HC GAS	104				8.8	3.5		33,100.0
2	275	TUNU /	:PF TUNG1-V-2301	TUNG1-V-2301-INT	Internal	Schoepentoeter, Demister	SSG-NG01012401-TUNG1-PX-2365-00002-001												680.0
4	276	TUNU /	PF TUNG1-V-2302		Vessel	NAG Slug Catcher	SSG-NG01012401-TUNG1-PX-2365-00048-001	1 100%	-45 / 100	150 / FV	HC GAS	120					2.0	6.75	71,200.0
4	277	TUNU /	PF TUNG1-V-2302	TUNG1-V-2302-INT	Internal	Schoepentoeter	SSG-NG01012401-TUNG1-PX-2365-00048-001												460.0
4	278	TUNU /	PF TUNG1-A-2710		Package	AG Compressor Package - Train 1	SSG-NG01012401-TUNG1-PX-2365-00005-001					8677			977	25.4	8.3	17.2	100,000.0
4	279	TUNU /	PF TUNG1-A-2710	TUNG1-K-2711	Centrifugal Compressor	1st Stage AG Compressor - Train 1	SSG-NG01012401-TUNG1-PX-2365-00005-001	1 100%	-20 / 170	60	HC GAS	8677		1	6977				ı
4	280	TUNU /	PF TUNG1-A-2710	TUNG1-K-2712	Centrifugal Compressor	2nd Stage AG Compressor - Train 1	SSG-NG01012401-TUNG1-PX-2365-00008-001	1 100%	-20 / 170	60	HC GAS	3094			6977				1
4	281	TUNU /	PF TUNG1-A-2710	TUNG1-K-2713	Centrifugal Compressor	3rd Stage AG Compressor - Train 1	SSG-NG01012401-TUNG1-PX-2365-00011-001	1 100%	-45 / 170	137	HC GAS	987			6977				
2	282	TUNU /	PF TUNG1-A-2710	TUNG1-KT-2711	Driver	AG Compressor GT Drive Package - Train 1	SSG-NG01012401-TUNG1-PX-2365-00013-001	1 100%	N/A	N/A									
4	283	TUNU /	PF TUNG1-A-2720		Package	AG Compressor Package - Train 2	SSG-NG01012401-TUNG1-PX-2365-00016-001									25.4	8.3	17.2	100,000.0
4	284	TUNU /	PF TUNG1-A-2720	TUNG1-K-2721	Centrifugal Compressor	1st Stage AG Compressor - Train 2	SSG-NG01012401-TUNG1-PX-2365-00016-001	1 100%	-20 / 170	60	HC GAS	8677			6977	25.4	8.3	17.2	100,000.0
4	285	TUNU /	PF TUNG1-A-2720	TUNG1-K-2722	Centrifugal Compressor	2nd Stage AG Compressor - Train 2	SSG-NG01012401-TUNG1-PX-2365-00019-001	1 100%	-20 / 170	60	HC GAS	8677			6977				
4	286	TUNU /	PF TUNG1-A-2720	TUNG1-K-2723	Centrifugal Compressor	3rd Stage AG Compressor - Train 2	SSG-NG01012401-TUNG1-PX-2365-00022-001	1 100%	-45 / 170	137	HC GAS	3094			6977				
4	287	TUNU /	PF TUNG1-A-2720	TUNG1-KT-2721	Driver	AG Compressor GT Drive - Train 2	SSG-NG01012401-TUNG1-PX-2365-00024-001	1 100%	N/A	N/A		987			6977				
4	288	TUNU /	PF TUNG1-A-2701		Metering	AG Metering Package	SSG-NG01012401-TUNG1-PX-2365-00025-001	1 100%	-45 / 125	137	HC GAS					7.0	1.5	1.5	8,500.0
6	289	TUNU /	:PF TUNG1-E-2714		Air Cooler	1st Stage AG Compressor Suction Cooler - Train 1	SSG-NG01012401-TUNG1-PX-2365-00003-001	1 100%	-20 / 170	30/FV	HC GAS					6.5	5.4	3.80	10,640.0
5	290	TUNU /	:PF TUNG1-E-2714	TUNG1-EM-2714A	Electric Motor	1st Stage AG Compressor Suction Cooler Electric Motor A - Train 1	SSG-NG01012401-TUNG1-PX-2365-00003-001							1	8.50	826.00	364.00	539.00	271.0
5	291	TUNU /	PF TUNG1-E-2714	TUNG1-EM-2714B	Electric Motor	1st Stage AG Compressor Suction Cooler Electric Motor B - Train 1	SSG-NG01012401-TUNG1-PX-2365-00003-001							1	8.50	826.00	364.00	539.00	271.0
6	292	TUNU /	PF TUNG1-E-2724		Air Cooler	1st Stage AG Compressor Suction Cooler - Train 2	SSG-NG01012401-TUNG1-PX-2365-00014-001	1 100%	-20 / 170	30/FV	HC GAS					6.5	5.4	3.80	10,640.0
5	293	TUNU /	PF TUNG1-E-2724	TUNG1-EM-2724A	Electric Motor	1st Stage AG Compressor Suction Cooler Electric Motor A - Train 2	SSG-NG01012401-TUNG1-PX-2365-00014-001							1	8.50	826.00	364.00	539.00	271.0
5	294	TUNU /	PF TUNG1-E-2724	TUNG1-EM-2724B	Electric Motor	1st Stage AG Compressor Suction Cooler Electric Motor B - Train 2	SSG-NG01012401-TUNG1-PX-2365-00014-001							1	8.50	826.00	364.00	539.00	271.0
6	295	TUNU /	PF TUNG1-E-2711		Air Cooler	1st Stage AG Compressor Discharge Cooler - Train 1	SSG-NG01012401-TUNG1-PX-2365-00006-001	1 100%	-20 / 170	30/FV	HC GAS					8.4	5.7	3.60	11,375.0
5	296	TUNU /	:PF TUNG1-E-2711	TUNG1-EM-2711A	Electric Motor	1st Stage AG Compressor Discharge Cooler Electric Motor A - Train 1	SSG-NG01012401-TUNG1-PX-2365-00006-001							3	7.00	871.00	430.00	583.00	355.0
5	297	TUNU /	PF TUNG1-E-2711	TUNG1-EM-2711B	Electric Motor	1st Stage AG Compressor Discharge Cooler Electric Motor B - Train 1	SSG-NG01012401-TUNG1-PX-2365-00006-001							3	7.00	871.00	430.00	583.00	355.0
6	298	TUNU /	PF TUNG1-E-2721		Air Cooler	1st Stage AG Compressor Discharge Cooler - Train 2	SSG-NG01012401-TUNG1-PX-2365-00017-001	1 100%	-20 / 170	30/FV	HC GAS					8.4	5.7	3.60	11,375.0
5	299	TUNU /	PF TUNG1-E-2721	TUNG1-EM-2721A	Electric Motor	1st Stage AG Compressor Discharge Cooler Electric Motor A - Train 2	SSG-NG01012401-TUNG1-PX-2365-00017-001							3	7.00	871.00	430.00	583.00	355.0
5	300	TUNU /	PF TUNG1-E-2721	TUNG1-EM-2721B	Electric Motor	1st Stage AG Compressor Discharge Cooler Electric Motor B - Train 2	SSG-NG01012401-TUNG1-PX-2365-00017-001							3	7.00	871.00	430.00	583.00	355.0
6	301	TUNU /	:PF TUNG1-E-2712		Air Cooler	2nd Stage AG Compressor Discharge Cooler - Train 1	SSG-NG01012401-TUNG1-PX-2365-00009-001	1 100%	-45 / 170	137/FV	HC GAS					13.3	6.3	3.80	16,500.0
5	302	TUNU /	PF TUNG1-E-2712	TUNG1-EM-2712A	Electric Motor	2nd Stage AG Compressor Discharge Cooler Electric Motor A - Train 1	SSG-NG01012401-TUNG1-PX-2365-00009-001							3	7.00	875.00	480.00	646.00	420.0
5	303	TUNU /	PF TUNG1-E-2712	TUNG1-EM-2712B	Electric Motor	2nd Stage AG Compressor Discharge Cooler Electric Motor B - Train 1	SSG-NG01012401-TUNG1-PX-2365-00009-001							3	7.00	875.00	480.00	646.00	420.0
6	304	TUNU /	PF TUNG1-E-2722		Air Cooler	2nd Stage AG Compressor Discharge Cooler - Train 2	SSG-NG01012401-TUNG1-PX-2365-00020-001	1 100%	-45 / 170	137/FV	HC GAS					13.3	6.3	3.80	16,500.0
5	305	TUNU /	PF TUNG1-E-2722	TUNG1-EM-2722A	Electric Motor	2nd Stage AG Compressor Discharge Cooler Electric Motor A - Train 2	SSG-NG01012401-TUNG1-PX-2365-00020-001							3	7.00	875.00	480.00	646.00	420.0
5	306	TUNU /	PF TUNG1-E-2722	TUNG1-EM-2722B	Electric Motor	2nd Stage AG Compressor Discharge Cooler Electric Motor B - Train 2	SSG-NG01012401-TUNG1-PX-2365-00020-001							3	7.00	875.00	480.00	646.00	420.0
6	307	TUNU /	PF TUNG1-E-2713		Air Cooler	3rd Stage AG Compressor Discharge Cooler - Train 1	SSG-NG01012401-TUNG1-PX-2365-00013-001	1 100%	-45 / 170	137/FV	HC GAS					13.3	6.6	3.80	18,750.0
5	308	TUNU /	PF TUNG1-E-2713	TUNG1-EM-2713A	Electric Motor	3rd Stage AG Compressor Discharge Cooler Electric Motor A - Train 1	SSG-NG01012401-TUNG1-PX-2365-00013-001							3	7/10	871.00	430.00	583.00	370.0
5	309	TUNU /	PF TUNG1-E-2713	TUNG1-EM-2713B	Electric Motor	3rd Stage AG Compressor Discharge Cooler Electric Motor B - Train 1	SSG-NG01012401-TUNG1-PX-2365-00013-001							3	7/10	871.00	430.00	583.00	370.0
6	310	TUNU /	PF TUNG1-E-2723		Air Cooler	3rd Stage AG Compressor Discharge Cooler - Train 2	SSG-NG01012401-TUNG1-PX-2365-00023-001	1 100%	-45 / 170	137/FV	HC GAS					13.3	6.6	3.80	18,750.0
5	311	TUNU /	:PF TUNG1-E-2723	TUNG1-EM-2723A	Electric Motor	3rd Stage AG Compressor Discharge Cooler Electric Motor A - Train 2	SSG-NG01012401-TUNG1-PX-2365-00023-001							3	7/10	871.00	430.00	583.00	370.0
5	312	TUNU /	PF TUNG1-E-2723	TUNG1-EM-2723B	Electric Motor	3rd Stage AG Compressor Discharge Cooler Electric Motor B - Train 2	SSG-NG01012401-TUNG1-PX-2365-00023-001							3	7/10	871.00	430.00	583.00	370.0
4	313	TUNU /	PF TUNG1-V-2711		Vessel	1st Stage AG Compressor Suction KO Vessel - Train 1	SSG-NG01012401-TUNG1-PX-2365-00004-001	1 100%	-20 / 160	30 / FV	HC GAS / CONDENSATE	40					1.2	4.00	6,000.0
2	314	TUNU /	PF TUNG1-V-2711	TUNG1-V-2711-INT	Internal	svs	SSG-NG01012401-TUNG1-PX-2365-00004-001												1,100.0
4	315	TUNU /	PF TUNG1-V-2721		Vessel	1st Stage AG Compressor Suction KO Vessel - Train 2	SSG-NG01012401-TUNG1-PX-2365-00015-001	1 100%	-20 / 160	30 / FV	HC GAS / CONDENSATE	40					1.2	4.00	6,000.0
2	316	TUNU /	:PF TUNG1-V-2721	TUNG1-V-2721-INT	Internal	svs	SSG-NG01012401-TUNG1-PX-2365-00015-001												1,100.0
4	317	TUNU /	:PF TUNG1-V-2712		Vessel	2nd Stage AG Compressor Suction KO Vessel - Train 1	SSG-NG01012401-TUNG1-PX-2365-00007-001	1 100%	-20 / 160	30 / FV	HC GAS / CONDENSATE	40					1.2	4.00	5,900.0
			*	•	•	*					•								

							EQUIPMENT LIST												
				p Associated Gas Solution															
Rev.	Item		AIN EQUIPMENT FAG NUMBER	SUB EQUIPMENT TAG NUMBER	Equipment Type	DESCRIPTION	PEFS Number	N° Units	Design Temperature	Design Pressure	Process Fluid	Ratin	g / Duty (Not	e 1)		Р	Physical Size (	(each) (Note	1)
2	318	TUNU/CPF TUNG1	1-V-2712	TUNG1-V-2712-INT	Internal	svs	SSG-NG01012401-TUNG1-PX-2365-00007-001												1,100.0
4	319	TUNU/CPF TUNG1	1-V-2722		Vessel	2nd Stage AG Compressor Suction KO Vessel - Train 2	SSG-NG01012401-TUNG1-PX-2365-00018-001	1 100%	-20 / 160	30 / FV	HC GAS / CONDENSATE	46.66					1.2	4.00	5,900.0
2	320	TUNU / CPF TUNG1	1-V-2722	TUNG1-V-2722-INT	Internal	svs	SSG-NG01012401-TUNG1-PX-2365-00018-001												1,100.0
4	321	TUNU / CPF TUNG1	1-V-2713		Vessel	3rd Stage AG Compressor Suction KO Vessel - Train 1	SSG-NG01012401-TUNG1-PX-2365-00010-001	1 100%	-45 / 160	137 / FV	HC GAS / CONDENSATE	40					1.2	4.30	23,000.0
2	322	TUNU/CPF TUNG1	1-V-2713	TUNG1-V-2713-INT	Internal	svs	SSG-NG01012401-TUNG1-PX-2365-00010-001												1,150.0
4	323	TUNU / CPF TUNG1	1-V-2723		Vessel	3rd Stage AG Compressor Suction KO Vessel - Train 2	SSG-NG01012401-TUNG1-PX-2365-00021-001	1 100%	-45 / 160	137 / FV	HC GAS / CONDENSATE	45.5					1.2	4.30	23,000.0
4	324	TUNU / CPF TUNG1	1-V-2723	TUNG1-V-2723-INT	Internal	svs	SSG-NG01012401-TUNG1-PX-2365-00021-001												1,150.0
3	325	TUNU / CPF TUNG1	1-A-2801		Metering	Export Gas Metering Package	SSG-NG01012401-TUNG1-PX-2365-00064-001	1 100%	-25 / 100	156	HC GAS					9.5	1.5	1.5	10,000.0
4	326	TUNU / CPF TUNG1	1-A-2810		Package	Export Gas Compressor Package - Train 1	SSG-NG01012401-TUNG1-PX-2365-00051-001					1256			2820	18.4	7.7	11.2	45,000.0
4	327	TUNU / CPF TUNG1	1-A-2810	TUNG1-K-2811	Centrifugal Compressor	Export Gas Compressor - Train 1	SSG-NG01012401-TUNG1-PX-2365-00051-001	1 100%	-25 / 125	156	HC GAS	1256			2820				
2	328	TUNU / CPF TUNG1	1-A-2810	TUNG1-KT-2811	Driver	Export Gas Compressor GT Driver - Train 1	SSG-NG01012401-TUNG1-PX-2365-00056-001	1 100%	VTA	VTA									
4	329	TUNU / CPF TUNG1	G1-A-2820		Package	Export Gas Compressor Package - Train 2	SSG-NG01012401-TUNG1-PX-2365-00058-001					1256			2820	18.4	7.7	11.2	45,000.0
4	330	TUNU/CPF TUNG1	1-A-2820	TUNG1-K-2821	Centrifugal Compressor	Export Gas Compressor - Train 2	SSG-NG01012401-TUNG1-PX-2365-00058-001	1 100%	-25 / 125	156	HC GAS	1256			2820				
4	331	TUNU/CPF TUNG1	1-A-2820	TUNG1-KT-2821	Driver	Export Gas Compressor GT Driver - Train 2	SSG-NG01012401-TUNG1-PX-2365-00063-001	1 100%	VTA	VTA									
6	332	TUNU/CPF TUNG1	1-E-2812		Air Cooler	2nd Stage Export Compressor Recycle Cooler - Train 1	SSG-NG01012401-TUNG1-PX-2365-00052-001	1 100%	-25 / 125	137/FV	HC GAS					9.5	4.6	3.35	10,875.0
5	333	TUNU/CPF TUNG1	1-E-2812	TUNG1-EM-2812A	Electric Motor	2nd Stage Export Compressor Recycle Cooler Electric Motor A - Train 1	SSG-NG01012401-TUNG1-PX-2365-00052-001								30.00	774.00	390.00	536.00	305.0
5	334	TUNU/CPF TUNG1	1-E-2812	TUNG1-EM-2812B	Electric Motor	2nd Stage Export Compressor Recycle Cooler Electric Motor B - Train 1	SSG-NG01012401-TUNG1-PX-2365-00052-001								30.00	774.00	390.00	536.00	305.0
6	335	TUNU/CPF TUNG1	1-E-2822		Air Cooler	2nd Stage Export Compressor Recycle Cooler - Train 2	SSG-NG01012401-TUNG1-PX-2365-00059-001	1 100%	-25 / 125	137/FV	HC GAS					9.5	4.6	3.35	10,875.0
5	336	TUNU/CPF TUNG1	1-E-2822	TUNG1-EM-2822A	Electric Motor	2nd Stage Export Compressor Recycle Cooler Electric Motor A - Train 2	SSG-NG01012401-TUNG1-PX-2365-00059-001								30.00	774.00	390.00	536.00	305.0
5	337	TUNU/CPF TUNG1	1-E-2822	TUNG1-EM-2822B	Electric Motor	2nd Stage Export Compressor Recycle Cooler Electric Motor B - Train 2	SSG-NG01012401-TUNG1-PX-2365-00059-001								30.00	774.00	390.00	536.00	305.0
6	338	TUNU/CPF TUNG1	1-E-2813		Air Cooler	1st Stage Export Compressor Recycle Cooler -Train 1	SSG-NG01012401-TUNG1-PX-2365-00055-001	1 100%	-25 / 125	137/FV	HC GAS					8.5	4.1	3.75	15,375.0
5	339	TUNU/CPF TUNG1	1-E-2813	TUNG1-EM-2813A	Electric Motor	1st Stage Export Compressor Recycle Cooler Electric Motor A -Train 1	SSG-NG01012401-TUNG1-PX-2365-00055-001								22.00	826.00	364.00	539.00	290.0
5	340	TUNU/CPF TUNG1	1-E-2813	TUNG1-EM-2813B	Electric Motor	1st Stage Export Compressor Recycle Cooler Electric Motor B -Train 1	SSG-NG01012401-TUNG1-PX-2365-00055-001								22.00	826.00	364.00	539.00	290.0
6	341	TUNU/CPF TUNG1	1-E-2823		Air Cooler	1st Stage Export Compressor Recycle Cooler -Train 2	SSG-NG01012401-TUNG1-PX-2365-00062-001	1 100%	-25 / 125	137/FV	HC GAS					8.5	4.1	3.75	15,375.0
5	342	TUNU/CPF TUNG1	1-E-2823	TUNG1-EM-2823A	Electric Motor	1st Stage Export Compressor Recycle Cooler Electric Motor A -Train 2	SSG-NG01012401-TUNG1-PX-2365-00062-001								22.00	826.00	364.00	539.00	290.0
5	343	TUNU/CPF TUNG1	1-E-2823	TUNG1-EM-2823B	Electric Motor	1st Stage Export Compressor Recycle Cooler Electric Motor B -Train 2	SSG-NG01012401-TUNG1-PX-2365-00062-001								22.00	826.00	364.00	539.00	290.0
6	344	TUNU/CPF TUNG1	1-E-2811		Air Cooler	Export Compressor Discharge Cooler - Train 1	SSG-NG01012401-TUNG1-PX-2365-00053-001	1 100%	-25 / 125	156/FV	HC GAS					13.3	5.3	3.75	15,775.0
5	345	TUNU/CPF TUNG1	1-E-2811	TUNG1-EM-2811A	Electric Motor	Export Compressor Discharge Cooler Electric Motor A - Train 1	SSG-NG01012401-TUNG1-PX-2365-00053-001								37.00	871.00	430.00	583.00	355.0
5	346	TUNU/CPF TUNG1	1-E-2811	TUNG1-EM-2811B	Electric Motor	Export Compressor Discharge Cooler Electric Motor B - Train 1	SSG-NG01012401-TUNG1-PX-2365-00053-001								37.00	871.00	430.00	583.00	355.0
6	347	TUNU/CPF TUNG1	1-E-2821		Air Cooler	Export Compressor Discharge Cooler - Train 2	SSG-NG01012401-TUNG1-PX-2365-00060-001	1 100%	-25 / 125	156/FV	HC GAS					13.3	5.3	3.75	15,775.0
5	348	TUNU/CPF TUNG1	1-E-2821	TUNG1-EM-2821A	Electric Motor	Export Compressor Discharge Cooler Electric Motor A - Train 2	SSG-NG01012401-TUNG1-PX-2365-00060-001								37.00	871.00	430.00	583.00	355.0
5	349	TUNU/CPF TUNG1	1-E-2821	TUNG1-EM-2821B	Electric Motor	Export Compressor Discharge Cooler Electric Motor B - Train 2	SSG-NG01012401-TUNG1-PX-2365-00060-001								37.00	871.00	430.00	583.00	355.0
4	350	TUNU/CPF TUNG1	1-V-2811		Vessel	1st Stage Export Compressor Suction KO Vessel - Train 1	SSG-NG01012401-TUNG1-PX-2365-00050-001	1 100%	-25 / 125	137 / FV	HC GAS	50.3					1.5	4.0	28,000.0
2	351	TUNU/CPF TUNG1	1-V-2811	TUNG1-V-2811-INT	Internal	Schoepentoeter, Demister	SSG-NG01012401-TUNG1-PX-2365-00050-001												560.0
4	352	TUNU/CPF TUNG1	1-V-2821		Vessel	1st Stage Export Compressor Suction KO Vessel - Train 2	2 SSG-NG01012401-TUNG1-PX-2365-00057-001	1 100%	-25 / 125	137 / FV	HC GAS	50.3					1.5	4.0	28,000.0
2	353	TUNU/CPF TUNG1	1-V-2821	TUNG1-V-2821-INT	Internal	Schoepentoeter, Demister	SSG-NG01012401-TUNG1-PX-2365-00057-001												560.0
4	354	TUNU/CPF TUNG1	1-V-2812		Vessel	2nd Stage Export Compressor Suction KO Vessel - Train	SSG-NG01012401-TUNG1-PX-2365-00054-001	1 100%	-25 / 125	137 / FV	HC GAS	60					1.5	4.0	28,000.0
2	355	TUNU/CPF TUNG1	1-V-2812	TUNG1-V-2812-INT	Internal	Schoepentoeter, Demister	SSG-NG01012401-TUNG1-PX-2365-00054-001				1								560.0
4	356	TUNU/CPF TUNG1	1-V-2822		Vessel	2nd Stage Export Compressor Suction KO Vessel - Train	SSG-NG01012401-TUNG1-PX-2365-00061-001	1 100%	-25 / 125	137 / FV	HC GAS	60					1.5	4.0	28,000.0
4	357	TUNU/CPF TUNG1		TUNG1-V-2822-INT	Internal	Schoepentoeter, Demister	SSG-NG01012401-TUNG1-PX-2365-00061-001												560.0
3	358	TUNU/CPF TUNG1			Package	Hydrate Inhibitor Package	SSG-NG01012401-TUNG1-PX-2365-00073-001									5.0	2.4	2.6	1,500.0
	330	TONO / CIT TONO	1-A-4201		1 ackage	Trydrate minutor rackage	33G-NG01012401-10NG1-1 X-2303-00073-001									3.0	2.4	2.0	1,0

							EQUIPMENT LIST												-
		Project	Southern Swan	np Associated Gas Solutio	n														T
Rev.	Item	WBS LOCATION	MAIN EQUIPMENT TAG NUMBER	SUB EQUIPMENT TAG NUMBER	Equipment Type	DESCRIPTION	PEFS Number	N° Units	Design Temperature	Design Pressure	Process Fluid	Rating	/ Duty (No	ote 1)		-	hysical Size	(each) (Note	e 1)
3	359	TUNU / CPF	TUNG1-A-4201	TUNG1-T-4201	Tank	Hydrate Inhibitor Storage Tank	SSG-NG01012401-TUNG1-PX-2365-00073-001	1 100%		0.06 + full of liquid / -0.0085	MEG								
3	360	TUNU / CPF	TUNG1-A-4201	TUNG1-P-4201 A/B	Pump	Normal Operation Hydrate Inhibitor Pumps	SSG-NG01012401-TUNG1-PX-2365-00073-001	2 100%	0 / 80	137	MEG								1
3	361	TUNU / CPF	TUNG1-A-4201	TUNG1-P-4205 A/B	Pump	Start-up Hydrate Inhibitor Pumps	SSG-NG01012401-TUNG1-PX-2365-00073-001	2 100%	0 / 80	137	MEG								1
3	362	TUNU / CPF	TUNG1-A-4201	TUNG1-S-4201 A/B	Strainer	Hydrate Inhibitor Filters	SSG-NG01012401-TUNG1-PX-2365-00074-001	2 100%	0 / 80	137 / FV	MEG								1
3	363	TUNU / CPF	TUNG1-A-4201	TUNG1-V-4201 A/B	Vessel	Hydrate Inhibitor Accumulator	SSG-NG01012401-TUNG1-PX-2365-00074-001	2 100%	0 / 80	137 / FV	MEG								+
2	364	TUNU / CPF	TUNG1-A-4202		Package	Mobile Hydrate Inhibitor Package	SSG-NG01012401-TUNG1-PX-2365-00072-001									2.5	2.4	2.0	500.0
3	365	TUNU / CPF	TUNG1-A-4202	TUNG1-T-4202	Tank	Mobile Hydrate Inhibitor Storage Tank	SSG-NG01012401-TUNG1-PX-2365-00072-001	1 100%	0 / 80	0,06 + full of	MEG								+
4	366	TUNU / CPF		TUNG1-P-4202 A/B	Pump	Mobile Hydrate Inhibitor Injection Pump	SSG-NG01012401-TUNG1-PX-2365-00072-001	2 100%	0 / 80	263.0	MEG								+
4	367	TUNU / CPF	TUNG1-H-4501 A		Electric Heater	HP Fuel Gas Superheater	SSG-NG01012401-TUNG1-PX-2365-00067-001	1 100%	-25 / 80	34.5 / FV	HC GAS					3.86	0.32		2,050
4	368	TUNU / CPF	TUNG1-H-4501 B		Electric Heater	HP Fuel Gas Superheater	SSG-NG01012401-TUNG1-PX-2365-00067-001	1 100%	-25 / 80	34.5 / FV	HC GAS					3.86	0.32		2,050
4	369	TUNU / CPF	TUNG1-H-4503		Electric Heater	Fuel Gas Import Preheater	SSG-NG01012401-TUNG1-PX-2365-00065-001	1 100%	-25 / 100	156 / FV	HC GAS					3.66	0.51		8,100
4	370	TUNU / CPF	TUNG1-S-4501 A		Filter	HP Fuel Gas Filters	SSG-NG01012401-TUNG1-PX-2365-00067-001	1 100%	-25 / 80	34.5 / FV	HC GAS	625.7					0.5	3.5	500.0
4	371	TUNU / CPF	TUNG1-S-4501 B		Filter	HP Fuel Gas Filters	SSG-NG01012401-TUNG1-PX-2365-00067-001	1 100%	-25 / 80	34.5 / FV	HC GAS	625.7					0.5	3.5	500.0
4	372		TUNG1-V-4501		Vessel	HP Fuel Gas Separator	SSG-NG01012401-TUNG1-PX-2365-00066-001	1 100%	-25 / 80	34.5 / FV	HC GAS	14					1	3	5,100.0
2	373	TUNU / CPF	TUNG1-V-4501	TUNG1-V-4501-INT	Internal	svs	SSG-NG01012401-TUNG1-PX-2365-00066-001												140.0
4	374	TUNU / CPF	TUNG1-V-4502		Vessel	LP Fuel Gas Separator	SSG-NG01012401-TUNG1-PX-2365-00068-001	1 100%	0 / 80	16 / FV	HC GAS	1.7					0.6	2.4	1,550.0
4	375	TUNU / CPF	TUNG1-V-4502	TUNG1-V-4502-INT	Internal	Half-Open Pipe / Demister	SSG-NG01012401-TUNG1-PX-2365-00068-001												80.0
6	376		TUNG1-P-5501 A	10101114002111	Pump	Condensate Booster Pump	SSG-NG01012401-TUNG1-PX-2365-00070-001	1 100%	0 / 80	18	CONDENSATE	85	89		24	0.8	0.6	1.5	736.0
4	377		TUNG1-P-5501 A	TUNG1-PM-5501 A	Electric Motor	Condensate Booster Pump Electric Motor	SSG-NG01012401-TUNG1-PX-2365-00070-001	1 10070	0,00	10			00		37	0.0	0.0		700.0
6	378		TUNG1-P-5501 B	10101111100017	Pump	Condensate Booster Pump	SSG-NG01012401-TUNG1-PX-2365-00070-001	1 100%	0 / 80	18	CONDENSATE	85	89		24	0.8	0.6	1.5	736.0
4	379		TUNG1-P-5501 B	TUNG1-PM-5501 B	Electric Motor	Condensate Booster Pump Electric Motor	SSG-NG01012401-TUNG1-PX-2365-00070-001	1 10070	0,00	10			00		37	0.0	0.0		700.0
6	380		TUNG1-P-5502 A	10.001 1 111 0001 5	Pump	Condensate Export Pump	SSG-NG01012401-TUNG1-PX-2365-00071-001	1 100%	0 / 80	85	CONDENSATE	85	535		187	4.68	2.3	2.67	6,500.0
	381		TUNG1-P-5502 A	TUNG1-PM-5502 A	Electric Motor	Condensate Export Pump Electric Motor	SSG-NG01012401-TUNG1-PX-2365-00071-001	1 10070	0,00				000		225.0	4.00	2.0	2.07	0,000.0
6	382		TUNG1-P-5502 B	10NO1-7 M-3302 A	Pump	Condensate Export Pump	SSG-NG01012401-TUNG1-PX-2365-00071-001	1 100%	0 / 80	85	CONDENSATE	85	535		187	4.68	2.3	2.67	6,500.0
4	383		TUNG1-P-5502 B	TUNG1-PM-5502 B	Electric Motor	Condensate Export Pump Electric Motor	SSG-NG01012401-TUNG1-PX-2365-00071-001	1 100%	0780	65	CONDENSATE	65	535		225.0	4.00	2.3	2.07	6,500.0
6	384		TUNG1-Y-5501	10NG1-FM-3302 B	Vessel	Condensate Export Fump Electric Motor	SSG-NG01012401-TUNG1-PX-2365-00069-001	1 100%	0 / 80	7 / FV	HC GAS /	1.49			225.0	4.95	1.90		6.900.0
-	385		TUNG1-V-5501	TUNG1-V-5501-INT	Internal	Schoepentoeter, Demister	SSG-NG01012401-TUNG1-PX-2365-00069-001	1 100%	0780	7/FV	CONDENSATE	1.49				4.95	1.90	<del></del>	230.0
2	386		TUNG1-4-5801	10001-4-3301-101	Package	Corrosion Inhibitor Package	SSG-NG01012401-TUNG1-PX-2365-00069-001									4.5	2.4	2.2	1.000.0
2	387		TUNG1-A-5801	TUNG1-T-5801A/B	Tank	Corrosion Inhibitor Package  Corrosion Inhibitor Storage Tank	SSG-NG01012401-TUNG1-PX-2365-00075-001	2 100%	0 / 80	0,06 + full of	CORROSION					4.5	2.4	2.2	1,000.0
2	388		TUNG1-A-5801	TUNG1-1-5801A/B	Pump	Corrosion Inhibitor Storage Lank  Corrosion Inhibitor Injection Pump	SSG-NG01012401-TUNG1-PX-2365-00075-001 SSG-NG01012401-TUNG1-PX-2365-00075-001	2 100%		liquid / -0,0085	INHIBITOR							<del></del>	+
			TUNG1-A-5801	TUNG1-P-5801A/B	Filter	Corrosion Inhibitor Injection Pump  Corrosion Inhibitor Filters	SSG-NG01012401-TUNG1-PX-2365-00075-001 SSG-NG01012401-TUNG1-PX-2365-00075-001			263 / FV	INHIBITOR							<del></del>	+
2	389		TUNG1-A-5801	10NG1-5-3801A/B	Filter Package	Mobile Corrosion Inhibitor Package	SSG-NG01012401-TUNG1-PX-2365-00075-001 SSG-NG01012401-TUNG1-PX-2365-00076-001	2 100%	0/80	203/FV	INHIBITOR					3	2.4	2.2	1,000.0
2	390	TUNU / CPF		TUNG1-T-5802	Tank	Mobile Corrosion Inhibitor Package  Mobile Corrosion Inhibitor Storage Tank	SSG-NG01012401-TUNG1-PX-2365-00076-001 SSG-NG01012401-TUNG1-PX-2365-00076-001	1 100%	0 / 80	0,06 + full of	CORROSION					3	2.4	2.2	1,000.0
4	391		TUNG1-A-5802	TUNG1-1-5802 TUNG1-P-5802A/B	Pump	Mobile Corrosion Inhibitor Storage Tank  Mobile Corrosion Inhibitor Injection Pump	SSG-NG01012401-TUNG1-PX-2365-00076-001	2 100%	0/80	liquid / -0,0085 263	INHIBITOR								+
6	392		TUNG1-A-5802	15.1517 -3002A/D	Hoist	Hoist	N/A	4 25%	0/00	203	INHIBITOR								100.0
-	393		TUNG1-X-0001	<u> </u>	Bridge Crane		N/A	1 100%	1		<del>                                     </del>				11.00	10850.0	2472	1422.5	6.500.0
6	394		TUNG1-X-2711	<u> </u>	Bridge Crane	Bridge Crane Bridge Crane	N/A	1 100%	1		<del>                                     </del>				11.00	10850.0	2472	1422.5	6,500.0
6	395		TUNG1-X-2721	<u> </u>	Bridge Crane Bridge Crane	Bridge Crane Bridge Crane	N/A	1 100%	1		<del>                                     </del>				11.00	9850.0	2472	1390.5	5,500.0
6	396		TUNG1-X-2811	<u> </u>	Bridge Crane		N/A	1 100%	1		<del>                                     </del>				11.00	9850.0	2272	1390.5	5,500.0
2	679		TUNG1-X-2821	<u> </u>	Package	Bridge Crane Oxygen Scavenger Injection Pkg	SSG-NG01012401-TUNG1-PX-2395-00001-001	1 100%	1		<del>                                     </del>				11.00	9850.0	2	1390.5	5,500.0
2	680		TUNG1-A-4203	TUNG1-T-4203	Tank		SSG-NG01012401-TUNG1-PX-2395-00001-001 SSG-NG01012401-TUNG1-PX-2395-00001-001	1 100%	0/80	0.056 /	Chemical					3			0.000
6	681		TUNG1-A-4203	TUNG1-1-4203 TUNG1-P-4203 A/B	Pump	Oxygen Scavenger Storage Tank	SSG-NG01012401-TUNG1-PX-2395-00001-001	2 100%		-0.0085 7	Chemical								+
2	682		TUNG1-A-4203	10NG1-7-42U3 A/B		Oxygen Scavenger Injection Pump	SSG-NG01012401-TUNG1-PX-2395-00001-001 SSG-NG01012401-TUNG1-PX-2395-00001-001	1 100%		,	Cnemical					2	2	2	500.0
F-					Package	Biocide Injection Package				0.056 /	Ob a series i					3	2	2	0.000
2	683		TUNG1-A-4204	TUNG1-T-4204	Tank	Biocide Storage Tank	SSG-NG01012401-TUNG1-PX-2395-00001-001	1 100%		-0.0085	Chemical								+
6	684		TUNG1-A-4204	TUNG1-P-4204 A/B	Pump	Biocide Injection Pump	SSG-NG01012401-TUNG1-PX-2395-00002-002	2 100%		7	Chemical								-
4	685	TUNU / CPF	TUNG1-A-4300		Package	Flare System Package	SSG-NG01012401-TUNG1-PX-2395-00002-004	1 100%	1										90,000.0

							EQUIPMENT LIST												
		Project:		p Associated Gas Solution	n														
Rev.	Item	WBS LOCATION	MAIN EQUIPMENT TAG NUMBER	SUB EQUIPMENT TAG NUMBER	Equipment Type	DESCRIPTION	PEFS Number	N° Units	Design Temperature	Design Pressure	Process Fluid	Rating	/ Duty (Not	te 1)		Р	hysical Size (	each) (Note	1)
2	686	TUNU / CPF	TUNG1-A-4300	TUNG1-A-4301	Miscellaneous	Flare Ignition Panel	SSG-NG01012401-TUNG1-PX-2395-00002-004	1 100%			Air / Fuel Gas								
4	687	TUNU / CPF	TUNG1-A-4300	TUNG1-F-4302	Miscellaneous	Tunu Flow Station LP Flare Tip	SSG-NG01012401-TUNG1-PX-2395-00002-004	1 100%	0 / 150	7	Gas								
4	688	TUNU / CPF	TUNG1-A-4300	TUNG1-F-4301	Miscellaneous	CPF Flare Tip	SSG-NG01012401-TUNG1-PX-2395-00002-004	1 100%	-100 / 150	7	Gas								
4	689	TUNU / CPF	TUNG1-A-4300	TUNG1-F-4303	Miscellaneous	Tunu Flow Station SV Flare Tip	SSG-NG01012401-TUNG1-PX-2395-00002-004	1 100%	0 / 120	7	Gas								
6	690	TUNU / CPF	TUNG1-P-4301 A		Pump	Tunu FS LP Flare KO Drum Pump	SSG-NG01012401-TUNG1-PX-2395-00002-002	1 100%	0 / 150	7	Condensate	10.0	37.6		2.2	2.3	0.8	3.6	1,300.0
7	691A	TUNU / CPF	TUNG1-P-4301 A	TUNG1-PM-4301 A	Electric Motor	Tunu FS LP Flare KO Drum Pump Motor	SSG-NG01012401-TUNG1-PX-2395-00002-002	1 100%											
7	691B	TUNU / CPF	TUNG1-P-4301 A	TUNG1-EM-4301 A	Electric Motor	LP Flare KO Drum Pumps Seal System Air Cooler Electric Motor	SSG-NG01012401-TUNG1-PX-2395-00002-002								0.25	307.00	140.00	218.00	
6	692	TUNU / CPF	TUNG1-P-4301 B		Pump	Tunu FS LP Flare KO Drum Pump	SSG-NG01012401-TUNG1-PX-2395-00002-002	1 100%	0 / 150	7	Condensate	10.0	37.6		2.2	2.3	0.8	3.6	1,300.0
7	693A	TUNU / CPF	TUNG1-P-4301 B	TUNG1-PM-4301 B	Electric Motor	Tunu FS LP Flare KO Drum Pump Motor	SSG-NG01012401-TUNG1-PX-2395-00002-002	1 100%											
7	693B	TUNU / CPF	TUNG1-P-4301 B	TUNG1-EM-4301 B	Electric Motor	LP Flare KO Drum Pumps Seal System Air Cooler Electric Motor	SSG-NG01012401-TUNG1-PX-2395-00002-002								0.25	307.00	140.00	218.00	
6	694	TUNU / CPF	TUNG1-P-4302 A		Pump	CPF Flare KO Drum Pump	SSG-NG01012401-TUNG1-PX-2395-00002-001	1 100%	-20 / 150	7	Condensate	10.0	37.5		2.2	2.3	0.8	3.6	1,300.0
7	695A	TUNU / CPF	TUNG1-P-4302 A	TUNG1-PM-4302 A	Electric Motor	CPF Flare KO Drum Pump Motor	SSG-NG01012401-TUNG1-PX-2395-00002-001	1 100%											
7	695B	TUNU / CPF	TUNG1-P-4302 A	TUNG1-EM-4302 A	Electric Motor	CPF Flare KO Drum Pumps Seal system Air Cooler Electric Motor	SSG-NG01012401-TUNG1-PX-2395-00002-001								0.25	307.00	140.00	218.00	
6	696	TUNU / CPF	TUNG1-P-4302 B		Pump	CPF Flare KO Drum Pump	SSG-NG01012401-TUNG1-PX-2395-00002-001	1 100%	-20 / 150	7	Condensate	10.0	37.5		2.2	2.3	0.8	3.6	1,300.0
7	697A	TUNU / CPF	TUNG1-P-4302 B	TUNG1-PM-4302 B	Electric Motor	CPF Flare KO Drum Pump Motor	SSG-NG01012401-TUNG1-PX-2395-00002-001	1 100%											
7	697B	TUNU / CPF	TUNG1-P-4302 B	TUNG1-EM-4302 B	Electric Motor	CPF Flare KO Drum Pumps Seal system Air Cooler Electric Motor	SSG-NG01012401-TUNG1-PX-2395-00002-001								0.25	307.00	140.00	218.00	
6	698	TUNU / CPF	TUNG1-P-4303 A		Pump	SV Flare KO Drum Pump	SSG-NG01012401-TUNG1-PX-2395-00002-003	1 100%	0 / 120	7	Condensate	10.0	37.5		2.2	2.3	0.8	3.6	1,300.0
4	699	TUNU / CPF	TUNG1-P-4303 A	TUNG1-PM-4303 A	Electric Motor	SV Flare KO Drum Pump Motor	SSG-NG01012401-TUNG1-PX-2395-00002-003	1 100%											
6	700	TUNU / CPF	TUNG1-P-4303 B		Pump	SV Flare KO Drum Pump	SSG-NG01012401-TUNG1-PX-2395-00002-003	1 100%	0 / 120	7	Condensate	10.0	37.5		2.2	2.3	0.8	3.6	1,300.0
4	701	TUNU / CPF	TUNG1-P-4303 B	TUNG1-PM-4303 B	Electric Motor	SV Flare KO Drum Pump Motor	SSG-NG01012401-TUNG1-PX-2395-00002-003	1 100%											
6	702	TUNU / CPF	TUNG1-V-4301		Vessel	Tunu FS LP Flare KO Drum	SSG-NG01012401-TUNG1-PX-2395-00002-002	1 100%	0 / 150	7	Gas/Liquid					5	2.2		6,850.0
2	703	TUNU / CPF	TUNG1-V-4301	TUNG1-V-4301-INT	Internal		SSG-NG01012401-TUNG1-PX-2395-00002-002												280.0
4	704	TUNU / CPF	TUNG1-V-4302		Vessel	CPF Flare KO Drum	SSG-NG01012401-TUNG1-PX-2395-00002-001	1 100%	-100 / 150	7	Gas/Liquid					12	3.5		27,700.0
2	705	TUNU / CPF	TUNG1-V-4302	TUNG1-V-4302-INT	Internal		SSG-NG01012401-TUNG1-PX-2395-00002-001												1,060.0
4	706	TUNU / CPF	TUNG1-V-4303		Vessel	Tunu FS SV Flare KO Drum	SSG-NG01012401-TUNG1-PX-2395-00002-003	1 100%	0 / 120	7	Gas/Liquid					5.5	2.35		8,750.0
4	707	TUNU / CPF	TUNG1-V-4303	TUNG1-V-4303-INT	Internal		SSG-NG01012401-TUNG1-PX-2395-00002-003												500.0
4	708	TUNU / CPF	TUNG1-A-4601		Package	Instrument Air Package	SSG-NG01012401-TUNG1-PX-2395-00003-001	1 100%	0 / 80	11	Air	2370 Nm3/h at			153.0	13	14	11	40,000.0
4	709	TUNU / CPF	TUNG1-A-4601	TUNG1-K-4611 TUNG1-K-4621	Compressor	Air Compressors	SSG-NG01012401-TUNG1-PX-2395-00003-001	4 33%	0 / 80	11	Air	915 Nm3/h			153.0				
4	710	TUNU/CPF		TUNG1-K-4631 TUNG1-E-4611/TUNG1-E-4631 TUNG1-E-4621/TUNG1-E-4641	Air Cooler	After Cooler	SSG-NG01012401-TUNG1-PX-2395-00003-001	4 33%	0/80	11	Air	915 Nm3/h							+
	711	TUNU/CPF	TUNG1-A-4601	TUNG1-8-4621	Filter	Air Intake Filter	SSG-NG01012401-TUNG1-PX-2395-00003-001	4 22%	0/80	44	Air								+
4	712	TUNU/CPF		TUNG1-S-4612 A/B	Filter	Air Dryer Pre-Filters	SSG-NG01012401-TUNG1-PX-2395-00003-001	4 125%	0/80	11	Air	2740 Nm3/h							+
	712		TUNG1-A-4601	TUNG1-S-4622 A/B TUNG1-D-4611 A/B	Dryer	Air Dryers	SSG-NG01012401-TUNG1-PX-2395-00003-001	4 100%	0/80	11	Air	2740 Nm3/h							+
4	714	TUNU / CPF	TUNG1-A-4601	TUNG1-D-4621 A/B TUNG1-S-4613 A/B	Filter	Air Dryer After Filters	SSG-NG01012401-T0NG1-PX-2395-00003-001	4 125%	0/80	11	Air	2370 Nm3/h		-					+
4	715		TUNG1-V-4611	TUNG1-S-4623 A/B	Vessel	Instrument Air Receiver	SSG-NG01012401-TUNG1-PX-2395-00003-001	1 50%	0/80	11	Air	2370 Nm3/h		-			3.1	9.3	22,250.0
4	716	TUNU / CPF	TUNG1-V-4621		Vessel	Instrument Air Receiver	SSG-NG01012401-TUNG1-PX-2395-00003-001	1 50%	0/80	11	Air	2370 Nm3/h					3.1	9.3	22,250.0
4	717		TUNG1-A-5701	T-5702	Sump	Open Drains Basin	SSG-NG01012401-TUNG1-PX-2395-00003-001	1 100%	0/80	ATM	Oily water	2370 14113/11				3	2.8	2.4	22,230.0
3	717	TUNU / CPF			Package	Open Drains Basin	SSG-NG01012401-T0NG1-PX-2395-00004-002	1 100%	0/80	ATM	Oily water					3	2.0	2.4	600.0
	719		TUNG1-S-5701 A		Filter	Open Drains Flate Fackage	SSG-NG01012401-TUNG1-PX-2395-00004-002	1 100%	0/80	7	Hydrocarbon	10.0				2	0.2		500.0
4	719		TUNG1-S-5701 A		Filter	Open Drains Return Filter Open Drains Return Filter	SSG-NG01012401-TUNG1-PX-2395-00004-002 SSG-NG01012401-TUNG1-PX-2395-00004-002	1 100%	0/80	7	Condensate Hydrocarbon	10.0				2	0.2		500.0
4	720		TUNG1-S-5701 B		Sump	Open Drains Return Filter  Controlled Discharge Basin	SSG-NG01012401-TUNG1-PX-2395-00004-002 SSG-NG01012401-TUNG1-PX-2395-00004-002	1 100%	0/80	ATM	Condensate Drainage /	10.0		-		28.6	22	5.2	500.0
"	721		TUNG1-1-5703		Vessel	Closed Drain Vessel	SSG-NG01012401-TUNG1-PX-2395-00004-002 SSG-NG01012401-TUNG1-PX-2395-00004-001	1 100%	0 / 80	7 AIM	Storm water Hydrocarbon			<del>                                     </del>		6.2	1.8	5.2	8.900.0
-	722		TUNG1-V-5701 TUNG1-P-5701 A		Pump	Closed Drain Vessel Closed Drain Pump	SSG-NG01012401-TUNG1-PX-2395-00004-001 SSG-NG01012401-TUNG1-PX-2395-00004-001	1 100%	0 / 150	7	Condensate Hydrocarbon	10.0	33.2	3.16	1.5	5.3	1.8	4	1,200.0
•	723		TUNG1-P-5701 A	TUNG1-PM-5701 A	Electric Motor		SSG-NG01012401-TUNG1-PX-2395-00004-001 SSG-NG01012401-TUNG1-PX-2395-00004-001	1 100%	0 / 80	- /	Condensate	10.0	33.2	3.10	1.5	5.3	1.2	4	1,200.0
4				10NG1-PM-3/U1 A		Closed Drain Pump Motor			0./22	-	Hydrocarbon	100	20.0	2.10	1.5	E 0	4.0		1 000 0
6	725		TUNG1-P-5701 B	TUNG1-PM-5701 B	Pump Electric Motor	Closed Drain Pump	SSG-NG01012401-TUNG1-PX-2395-00004-001	1 100%	0 / 80	7	Condensate	10.0	33.2	3.16	1.5	5.3	1.2	4	1,200.0
4	726		TUNG1-P-5701 B	TUNG1-PM-5/01 B		Closed Drain Pump Motor	SSG-NG01012401-TUNG1-PX-2395-00004-001	1 100%	0./22	-	Oilumater	100	40.5		0.00	4.0	4.0	4	1,200.0
4	727	IUNU / CPF	TUNG1-P-5704 A		Pump	NAG Pig Receiver Skid Open Drains Tank Pump	SSG-NG01012401-TUNG1-PX-2395-00004-003	1 100%	0 / 80	7	Oily water	10.0	13.5		0.82	1.2	1.2	- 4	1,200.0

								EQUIPMENT LIST												
		Proj	ect: Southe	ern Swam	p Associated Gas Solution	n														
Rev.	Item	WBS LOCA		QUIPMENT NUMBER	SUB EQUIPMENT TAG NUMBER	Equipment Type	DESCRIPTION	PEFS Number	N° Units	Design Temperature	Design Pressure	Process Fluid	Rating	/ Duty (Note	e 1)		Р	hysical Size (e	ach) (Note	· 1)
4	728	TUNU			TUNG1-PM-5704 A	Electric Motor	NAG Pig Receiver Skid Open Drains Tank Pump Motor	SSG-NG01012401-TUNG1-PX-2395-00004-003	1 100%											
4	729	TUNU	CPF TUNG1-P-5	5704 B		Pump	NAG Pig Receiver Skid Open Drains Tank Pump	SSG-NG01012401-TUNG1-PX-2395-00004-003	1 100%	0 / 80	7	Oily water	10.0	13.5		0.82	1.2	1.2	4	1,200.0
4	730	TUNU	CPF TUNG1-P-5	5704 B	TUNG1-PM-5704 B	Electric Motor	NAG Pig Receiver Skid Open Drains Tank Pump Motor	SSG-NG01012401-TUNG1-PX-2395-00004-003	1 100%											
4	731	TUNU	CPF TUNG1-P-5	5705 A		Pump	AG Slug Catcher Module Open Drains Tank Pump	SSG-NG01012401-TUNG1-PX-2395-00004-003	1 100%	0 / 80	7	Oily water	10.0	13.5		0.82	1.2	1.2	4	1,200.0
4	732	TUNU	CPF TUNG1-P-5	5705 A	TUNG1-PM-5705 A	Electric Motor	AG Slug Catcher Module Open Drains Tank Pump Motor	SSG-NG01012401-TUNG1-PX-2395-00004-003	1 100%											1
4	733	TUNU	CPF TUNG1-P-5	5705 B		Pump	AG Slug Catcher Module Open Drains Tank Pump	SSG-NG01012401-TUNG1-PX-2395-00004-003	1 100%	0 / 80	7	Oily water	10.0	13.5		0.82	1.2	1.2	4	1,200.0
4	734	TUNU	CPF TUNG1-P-5	5705 B	TUNG1-PM-5705 B	Electric Motor	AG Slug Catcher Module Open Drains Tank Pump Motor	SSG-NG01012401-TUNG1-PX-2395-00004-003	1 100%											<u> </u>
4	735	TUNU	CPF TUNG1-P-5	5711 A		Pump	AG Compression Module Open Drains Tank Pump (Train	SSG-NG01012401-TUNG1-PX-2395-00004-003	1 100%	0/80	7	Oily water	10.0	13.5		0.82	1.2	1.2	4	1,200.0
4	736	TUNU	CPF TUNG1-P-5	5711 A	TUNG1-PM-5711 A	Electric Motor	AG Compression Module Open Drains Tank Pump (Train	SSG-NG01012401-TUNG1-PX-2395-00004-003	1 100%											
4	737	TUNU	CPF TUNG1-P-5	5711 B		Pump	AG Compression Module Open Drains Tank Pump (Train	SSG-NG01012401-TUNG1-PX-2395-00004-003	1 100%	0 / 80	7	Oily water	10.0	13.5		0.82	1.2	1.2	4	1,200.0
4	738	TUNU	CPF TUNG1-P-5	5711 B	TUNG1-PM-5711 B	Electric Motor	AG Compression Module Open Drains Tank Pump (Train 1) Motor	SSG-NG01012401-TUNG1-PX-2395-00004-003	1 100%											
4	739	TUNU	CPF TUNG1-P-5	5721 A		Pump	AG Compression Module Open Drains Tank Pump (Train	SSG-NG01012401-TUNG1-PX-2395-00004-003	1 100%	0/80	7	Oily water	10.0	13.5		0.82	1.2	1.2	4	1,200.0
4	740		CPF TUNG1-P-5		TUNG1-PM-5721 A	Electric Motor	AG Compression Module Open Drains Tank Pump (Train 2) Motor	SSG-NG01012401-TUNG1-PX-2395-00004-003	1 100%			-								
4	741	TUNU	CPF TUNG1-P-5	5721 B		Pump	AG Compression Module Open Drains Tank Pump (Train	SSG-NG01012401-TUNG1-PX-2395-00004-003	1 100%	0/80	7	Oily water	10.0	13.5		0.82	1.2	1.2	4	1,200.0
4	742	TUNU	CPF TUNG1-P-5	5721 B	TUNG1-PM-5721 B	Electric Motor	AG Compression Module Open Drains Tank Pump (Train	SSG-NG01012401-TUNG1-PX-2395-00004-003	1 100%											
4	743		CPF TUNG1-P-5			Pump	2) Motor Twister Pre-Treatment Module Open Drains Tank Pump	SSG-NG01012401-TUNG1-PX-2395-00004-003	1 100%	0/80	7	Oily water	10.0	13.5		0.82	1.2	1.2	4	1,200.0
4	744	TUNU			TUNG1-PM-5706 A	Electric Motor	Twister Pre-Treatment Module Open Drains Tank Pump	SSG-NG01012401-TUNG1-PX-2395-00004-003	1 100%		· ·	,								- 1,0000
1	745		CPF TUNG1-P-5		101101111107007	Pump	Motor Twister Pre-Treatment Module Open Drains Tank Pump	SSG-NG01012401-TUNG1-PX-2395-00004-003	1 100%	0/80	7	Oily water	10.0	13.5		0.82	1.2	1.2	4	1,200.0
1	746	TUNU			TUNG1-PM-5706 B	Electric Motor	Twister Pre-Treatment Module Open Drains Tank Pump	SSG-NG01012401-TUNG1-PX-2395-00004-003	1 100%	0700		Olly Water	10.0	13.5		0.02	1.2	1.2		1,200.0
-	747		CPF TUNG1-P-5		10NG1-1 M-5700 B	Pump	Motor CPI Oil Pump	SSG-NG01012401-TUNG1-PX-2395-00004-002	1 100%	0/80	7	Oily water	10	37.2	2.96	2.0	4.8	1.2	5	1,200.0
1	748		CPF TUNG1-P-5		TUNG1-PM-5702 A	Electric Motor	CPI Oil Pump Motor	SSG-NG01012401-TUNG1-PX-2395-00004-002	1 100%	0700	,	Oily water	10	37.2	2.50	2.0	4.0	1.2		1,200.0
	749		CPF TUNG1-P-5		101101-1 III-3702 X	Pump	CPI Oil Pump	SSG-NG01012401-TUNG1-PX-2395-00004-002	1 100%	0 / 80	7	Oily water	10.0	37.2	2.96	2.0	4.8	1.2	5	1,200.0
L.	750		CPF TUNG1-P-5		TUNG1-PM-5702 B		CPI Oil Pump Motor	SSG-NG01012401-TUNG1-PX-2395-00004-002	1 100%	0700	,	Oily water	10.0	37.2	2.50	2.0	4.0	1.2		1,200.0
-	751		CPF TUNG1-P-5		10NG1-FM-5/02 B	Pump	Controlled Discharge Basin Pump	SSG-NG01012401-TUNG1-PX-2395-00004-002	1 100%	0 / 80	7	Water	50.0	8.9	2.69	1.8	6.2	0.8	4.5	1,200.0
-	751		CPF TUNG1-P-5		TUNG1-PM-5703 A	Electric Motor		SSG-NG01012401-TUNG1-PX-2395-00004-002 SSG-NG01012401-TUNG1-PX-2395-00004-002	1 100%	0780	,	vvater	50.0	8.9	2.69	1.8	6.2	0.8	4.5	1,200.0
4	752		CPF TUNG1-P-5		TUNG1-PM-5/03 A	Pump	Controlled Discharge Basin Pump Motor  Controlled Discharge Basin Pump	SSG-NG01012401-TUNG1-PX-2395-00004-002 SSG-NG01012401-TUNG1-PX-2395-00004-002	1 100%	0 / 80	7	Water	50.0	8.9	2.69	1.8	6.2	0.8	4.5	1,200.0
6	754		CPF TUNG1-P-5		TUNG1-PM-5703 B	Electric Motor	Controlled Discharge Basin Pump  Controlled Discharge Basin Pump Motor	SSG-NG01012401-TUNG1-PX-2395-00004-002 SSG-NG01012401-TUNG1-PX-2395-00004-002	1 100%	0780		vvater	50.0	8.9	2.69	1.8	6.2	0.8	4.5	1,200.0
1	755		CPF TUNG1-P-5		TUNG1-PM-5/03 B	Pump	Export Compression Module Open Drains Tank Pump	SSG-NG01012401-TUNG1-PX-2395-00004-002 SSG-NG01012401-TUNG1-PX-2395-00004-003	1 100%	0/80	7	Oily water	10.0	13.5		0.82	1.2	1.2	4	1,200.0
4						1	(Train 1) Export Compression Module Open Drains Tank Pump			0780		Olly water	10.0	13.5		0.82	1.2	1.2	4	1,200.0
4	756		CPF TUNG1-P-5		TUNG1-PM-5712 A	Electric Motor	(Train 1) Motor Export Compression Module Open Drains Tank Pump	SSG-NG01012401-TUNG1-PX-2395-00004-003	1 100%											
4	757		CPF TUNG1-P-5			Pump	(Train 1) Export Compression Module Open Drains Tank Pump	SSG-NG01012401-TUNG1-PX-2395-00004-003	1 100%	0 / 80	7	Oily water	10.0	13.5		0.82	1.2	1.2	4	1,200.0
4	758		CPF TUNG1-P-5		TUNG1-PM-5712 B	Electric Motor	(Train 1) Motor  Export Compression Module Open Drains Tank Pump	SSG-NG01012401-TUNG1-PX-2395-00004-003	1 100%											
4	759		CPF TUNG1-P-5			Pump	(Train 2) Export Compression Module Open Drains Tank Pump	SSG-NG01012401-TUNG1-PX-2395-00004-003	1 100%	0 / 80	7	Oily water	10.0	13.5		0.82	1.2	1.2	4	1,200.0
4	760		CPF TUNG1-P-5		TUNG1-PM-5722 A	Electric Motor	(Train 2) Motor  Export Compression Module Open Drains Tank Pump	SSG-NG01012401-TUNG1-PX-2395-00004-003	1 100%		_	-								-
4	761		CPF TUNG1-P-5			Pump	(Train 2) Export Compression Module Open Drains Tank Pump	SSG-NG01012401-TUNG1-PX-2395-00004-003	1 100%	0 / 80	7	Oily water	10.0	13.5		0.82	1.2	1.2	4	1,200.0
4	762		CPF TUNG1-P-5		TUNG1-PM-5722 B	Electric Motor	(Train 2) Motor	SSG-NG01012401-TUNG1-PX-2395-00004-003	1 100%		_	-								
4	763		CPF TUNG1-P-5			Pump	Utilities Module Open Drains Tank Pump	SSG-NG01012401-TUNG1-PX-2395-00004-003	1 100%	0 / 80	7	Oily water	10.0	13.5		0.82	1.2	1.2	4	1,200.0
4	764		CPF TUNG1-P-5		TUNG1-PM-5707 A	Electric Motor	Utilities Module Open Drains Tank Pump Motor	SSG-NG01012401-TUNG1-PX-2395-00004-003	1 100%											-
4	765		CPF TUNG1-P-5			Pump	Utilities Module Open Drains Tank Pump	SSG-NG01012401-TUNG1-PX-2395-00004-003	1 100%	0 / 80	7	Oily water	10.0	13.5		0.82	1.2	1.2	4	1,200.0
4	766		CPF TUNG1-P-5		TUNG1-PM-5707 B		Utilities Module Open Drains Tank Pump Motor	SSG-NG01012401-TUNG1-PX-2395-00004-003	1 100%											-
4	767		CPF TUNG1-P-5			Pump	Flash Gas Compressor Open Drains Tank Pump	SSG-NG01012401-TUNG1-PX-2395-00004-003	1 100%	0 / 80	7	Oily water	10.0	13.5		0.82	1.2	1.2	4	1,200.0
4	768		CPF TUNG1-P-5		TUNG1-PM-5708 A		Flash Gas Compressor Open Drains Tank Pump Motor	SSG-NG01012401-TUNG1-PX-2395-00004-003	1 100%											
4	769	TUNU	CPF TUNG1-P-5			Pump	Flash Gas Compressor Open Drains Tank Pump	SSG-NG01012401-TUNG1-PX-2395-00004-003	1 100%	0 / 80	7	Oily water	10.0	13.5		0.82	1.2	1.2	4	1,200.0
4	770		CPF TUNG1-P-5		TUNG1-PM-5708 B		Flash Gas Compressor Open Drains Tank Pump Motor	SSG-NG01012401-TUNG1-PX-2395-00004-003	1 100%		0.050 /									
6	771	TUNU	CPF TUNG1-T-5	5704		Tank	NAG Pig Receiver Skid Open Drains Tank	SSG-NG01012401-TUNG1-PX-2395-00004-003	1 100%	0 / 80	0.056 / -0.0085	Oily water					4	2	4	7,525.0
6	772	TUNU	CPF TUNG1-T-5	5705		Tank	AG Slug Catcher Module Open Drains Tank	SSG-NG01012401-TUNG1-PX-2395-00004-003	1 100%	0 / 80	0.056 / -0.0085	Oily water					4	2	4	7,525.0
6	773	TUNU	CPF TUNG1-T-5	5711		Tank	AG Compression Module Open Drains Tank (TRAIN 1)	SSG-NG01012401-TUNG1-PX-2395-00004-003	1 100%	0 / 80	0.056 / -0.0085	Oily water					4	2	4	7,525.0

							EQUIPMENT LIST												
		Project:	Southern Swan	np Associated Gas Solution	on												T		$\top$
Rev.	Item	WBS LOCATION	MAIN EQUIPMENT TAG NUMBER	SUB EQUIPMENT TAG NUMBER	Equipment Type	DESCRIPTION	PEFS Number	N° Units	Design Temperature	Design Pressure	Process Fluid	Ratin	g / Duty (No	ote 1)			Physical Size	(each) (No	te 1)
6	774	TUNU / CPF	TUNG1-T-5721	TAG NUMBER	Tank	AG Compression Module Open Drains Tank (train 2)	SSG-NG01012401-TUNG1-PX-2395-00004-003	1 100%	0 / 80	0.056 /	Oily water					4	2	4	7,525.0
6	775	TUNU/CPF	TUNG1-T-5706		Tank	Twister Pre-Treatment Module Open Drains Tank	SSG-NG01012401-TUNG1-PX-2395-00004-003	1 100%	0 / 80	0.056 /	Oily water					4	2	4	7.525.0
6	776		TUNG1-T-5712		Tank	Export Compression Module Open Drains Tank (TRAIN		1 100%	0/80	-0.0085 0.056 /	Oily water					4	2	4	7,525.0
6	777	TUNU / CPF	TUNG1-T-5722		Tank	Export Compression Module Open Drains Tank (TRAIN:		1 100%	0 / 80	-0.0085 0.056 /	Oily water					4	2	4	7,525.0
6	778	TUNU / CPF	TUNG1-T-5707		Tank	Utilities Module Open Drains Tank	SSG-NG01012401-TUNG1-PX-2395-00004-003	1 100%	0/80	-0.0085 0.056 /	Oily water					4	2	4	7,525.0
6	779	TUNU / CPF	TUNG1-T-5708		Tank	Flash gas Compressor Open Drains Tank	SSG-NG01012401-TUNG1-PX-2395-00004-003	1 100%	0/80	-0.0085 0.056 /	Oily water					4	2	4	7.525.0
4	780	TUNU / CPF	TUNG1-T-5709		Sump	Sanitary Water Sump	SSG-NG01012401-TUNG1-PX-2395-00004-004	1 100%	0/80	-0.0085 ATM	Sanitary					1.5	1.5	4	+
6	781	TUNU/CPF	TUNG1-P-5709		Pump	Sanitary Water Pump	SSG-NG01012401-TUNG1-PX-2395-00004-004	1 100%	0/80	7	water Sanitary	10	38.2		1.23	1	1	1.5	500.0
4	782		TUNG1-V-6101		Vessel	Heating Medium Expansion Vessel	SSG-NG01012401-TUNG1-PX-2395-00005-002	1 100%	0 / 100	10 / FV	water Glycol/water					2	1.6		2,500.0
4	783		TUNG1-P-6101 A		Pump	Heating Medium Pump	SSG-NG01012401-TUNG1-PX-2395-00005-002	1 100%	0 / 100	16.5 / FV	Glycol/water	86.4	58.8		22.5	1	1	1.5	700.0
4	784		TUNG1-P-6101 A	TUNG1-PM-6101 A	Electric Motor	Heating Medium Pump Motor	SSG-NG01012401-TUNG1-PX-2395-00005-002	1 100%	27.00		-,				30.0		+		-
4	785		TUNG1-P-6101 B		Pump	Heating Medium Pump	SSG-NG01012401-TUNG1-PX-2395-00005-002	1 100%	0 / 100	16.5 / FV	Glycol/water	86.4	58.8		22.5	1	1	1.5	700.0
4	786		TUNG1-P-6101 B	TUNG1-PM-6101 B	Electric Motor	Heating Medium Pump Motor	SSG-NG01012401-TUNG1-PX-2395-00005-002	1 100%			. ,				-		+	<u> </u>	+
4	787		TUNG1-H-6101 A		Electric Heater	Heating Medium System Electric Heater	SSG-NG01012401-TUNG1-PX-2395-00005-001	1 50%	0 / 100	17/ FV	Glycol/water				370	3.69	0.29	<del>                                     </del>	2.100
4	788		TUNG1-H-6101 B		Electric Heater	Heating Medium System Electric Heater	SSG-NG01012401-TUNG1-PX-2395-00005-001	1 50%	0 / 100	17/FV	Glycol/water				370	3.69	0.29		2,100
4	789		TUNG1-H-6101 C		Electric Heater	Heating Medium System Electric Heater	SSG-NG01012401-TUNG1-PX-2395-00005-001	1 50%	0 / 100	17/ FV	Glycol/water				370	3.69	0.29	<del>                                     </del>	2,100
4	790		TUNG1-P-6201 A		Pump	Diesel Transfer Pump	SSG-NG01012401-TUNG1-PX-2395-00006-001	1 100%	0/80	7	Diesel	2.0	22.4		0.5	1	1	0.4	1,000.0
4	791		TUNG1-P-6201 A	TUNG1-PM-6201 A	Electric Motor	Diesel Transfer Pump Motor	SSG-NG01012401-TUNG1-PX-2395-00006-001	1 100%	0700	•	Diooci	2.0	LL.9		0.0		+	0.4	1,000.0
4	792	TUNU / CPF	TUNG1-P-6201 B	10101111102017	Pump	Diesel Transfer Pump	SSG-NG01012401-TUNG1-PX-2395-00006-001	1 100%	0 / 80	7	Diesel	2.0	22.4		0.5	1	1	0.4	1,000.0
4	793	TUNU / CPF	TUNG1-P-6201 B	TUNG1-PM-6201 B	Electric Motor	Diesel Transfer Pump Motor	SSG-NG01012401-TUNG1-PX-2395-00006-001	1 100%	0,00								+	-	-
4	794		TUNG1-P-6202	101101111102012	Pump	Diesel Bund <del>Clean-up-</del> Pump	SSG-NG01012401-TUNG1-PX-2395-00006-001	1 100%	0 / 80	8.0	Diesel	1.0	3.6			0.7	0.5	0.4	200.0
4	795		TUNG1-S-6201		Filter	Diesel Filter	SSG-NG01012401-TUNG1-PX-2395-00006-001	1 100%	0/80	7	Diesel	2	0.0			2.8	1.5	2.7	1,300.0
4	796	TUNU/CPF	TUNG1-V-6201		Vessel	Diesel Storage Vessel	SSG-NG01012401-TUNG1-PX-2395-00006-001	1 100%	0/80	3.5	Diesel	-				5	1.7		5 000 0
4	797		TUNG1-V-6401		Vessel	Nitrogen Receiver	SSG-NG01012401-TUNG1-PX-2395-00007-001	1 100%	0 / 80	11	Nitrogen	410					2.2	6.6	8.300.0
4	798		TUNG1-A-6401		Package	Nitrogen Generation Package	SSG-NG01012401-TUNG1-PX-2395-00007-001	1 100%	0 / 80	11	Nitrogen	Nm3/h 410				5.5	3.5	2.5	7,000.0
4	799		TUNG1-A-6401	TUNG1-S-6401 A/B	Filter	Prefilter	SSG-NG01012401-TUNG1-PX-2395-00007-001	2 100%	-10/80	11	Nitrogen	Nm3/h 1243 Nm3/h						2.0	7,000.0
4	800		TUNG1-A-6401	TUNG1-C-6411A/B/C/D TUNG1-C-	Membrane	Nitrogen Membrane Module	SSG-NG01012401-TUNG1-PX-2395-00007-001	2 100%	0 / 80	11	Nitrogen	248.5/102.5					+	<u> </u>	-
2	801		TUNG1-A-8112	6421 A/B/C/D	Package	Power generator Package	SSG-NG01012401-TUNG1-PX-2395-00008-001	1 50%	0700		remogen	Nm3/h				10	2.5	3.2	40,000.0
2	802		TUNG1-A-8112	TUNG1-G-8112	Generator	Main Generation	SSG-NG01012401-TUNG1-PX-2395-00008-001	1 50%								10	2.5	3.2	40,000.0
2	803		TUNG1-A-8112	TUNG1-GT-8112	Driver	Main Generator driver	SSG-NG01012401-TUNG1-PX-2395-00008-001	1 50%	NA NA	NA	FG						+	-	+
2	803		TUNG1-A-8112 TUNG1-A-8122	. 551-01-0112	Package	Power generator Package	SSG-NG01012401-TUNG1-PX-2395-00008-001	1 50%	1444	INM						10	2.5	3.2	40.000.0
2	805		TUNG1-A-8122	TUNG1-G-8122	Generator	Main Generation	SSG-NG01012401-TUNG1-PX-2395-00008-001	1 50%									2.5	3.2	40,000.0
2	806		TUNG1-A-8122	TUNG1-G-8122 TUNG1-GT-8122	Driver	Main Generation  Main Generator driver	SSG-NG01012401-TUNG1-PX-2395-00008-001	1 50%	NA NA	NA.	FG						+	_	+
2	806		TUNG1-A-8122 TUNG1-A-8132	10101-31-0122	Package	Power generator Package	SSG-NG01012401-TUNG1-PX-2395-00008-001 SSG-NG01012401-TUNG1-PX-2395-00008-001	1 50%	INA	INA	FG					10	2.5	3.2	40,000.0
2	808	TUNU / CPF	TUNG1-A-8132	TUNG1-G-8132	Generator	Main Generation	SSG-NG01012401-TUNG1-PX-2395-00008-001 SSG-NG01012401-TUNG1-PX-2395-00008-001	1 50%					-			10	2.5	3.2	40,000.0
4	808	TUNU/CPF		TUNG1-GT-8132	Driver	Main Generation  Main Generator driver	SSG-NG01012401-TUNG1-PX-2395-00008-001 SSG-NG01012401-TUNG1-PX-2395-00008-001	1 50%	NA	NA	FG						+	<del> </del>	+
4	810		TUNG1-A-8132 TUNG1-T-8301	. 551-01-0132	Tank	Diesel Day Tank	SSG-NG01012401-TUNG1-PX-2395-00008-001	1 100%	0 / 80	0.056/-0.0085	Diesel	2				3	2.3	2	3.350.0
4	810	TUNU / CPF	TUNG1-1-8301 TUNG1-A-8301		Package		SSG-NG01012401-TUNG1-PX-2395-00009-001	1 100%	0700	0.000/-0.0085	Diezel	2					+		-,
4	811			TUNCA C 9204	Package Generator	Emergency Diesel Generator Package		1 100%	NA NA	NA						10	3.5	3.5	15,000.0
4	812		TUNG1-A-8301 TUNG1-A-8301	TUNG1-G-8301 TUNG1-GD-8301	Generator	Emergency Diesel Generator	SSG-NG01012401-TUNG1-PX-2395-00009-001 SSG-NG01012401-TUNG1-PX-2395-00009-001	1 100%	NA NA		D'I						+	<u> </u>	+-
4	813	IUNU / CPF	I UNG1-A-8301	TUNG1-GD-8301	Driver	Emergency Generator Driver	55G-NGU1U124U1-TUNG1-PX-2395-00009-001	1 100%	NA	NA	Diesel						+	₩	+
		Notes:	All data shall be undated	//confirmed during detail development													1-		1
		3	Items in Lee Enginering	scope of Work rured in Electrical Equipment List (ref doc) SSG-No	: SSG-NG0101240 G01012401-OGBC G01012401-OPUC	1-EA-6612-00001,													
					G01012401-BENC													<u> </u>	
		Abbreviation	1														1		_
		N/A - NOT A T/T - TANGE	PPLICABLE NT TO TANGENT		1												+	$\vdash$	+

									EQUIPMENT LIST											
				Project:	Southern Swam	p Associated Gas Solution	on													
Re	v. It	ltem	WBS	LOCATION	MAIN EQUIPMENT TAG NUMBER	SUB EQUIPMENT TAG NUMBER	Equipment Type	DESCRIPTION	PEFS Number	N° Units	Design Temperature	Design Pressure	Process Fluid	Ratin	g / Duty (Not	e 1)	P	hysical Size	each) (Note 1)	
				I.D INTERN	AL DIAMETER															
				VTA - VENDO	R TO ADVISE															
					R TO CONFIRM															
				TBD - TO BE D	DEFINED															
Г								<u> </u>												