



ENGINEERING & CONSTRUCTION
 Montgomery, TX 77356
 BUS: (832) 317-2872
 FAX:

Master Equipment List

Client:
 Project:
 Location:
 Job No:
 File: ENG-StarBase-002
 Revision: A
 Date: 06/13/21

TAG NO.	DESCRIPTION	P&ID	SIZE/CAPACITY/MAT'L	DUTY	DESIGN TEMP °F	DESIGN PRESS. PSIG	SKID	VENDOR	PURCHASE ORDER	SHIP	Print Rec'd	COMMENTS
V-121	Inlet Slug Catcher	P04-101	TBD		150	1100						Finger-type slug catcher
V-123	Inlet Separator	P04-102	96" ID x 20'-0" S/S		150	1100						Horizontal vessel
C-101	Residue Compressor	P04-104		4500 HP; 44 MMSCFD								Electric motor driven
A-1011	Residue Cooler - Interstage	P04-104		6.706 MMBTU/hr	350	845						Provided by SEC?
A-1012	Residue Cooler - Discharge	P04-104		7.248 MMBTU/hr	350	1440						Provided by SEC?
TK-101	Lube Oil Day Tank	P04-104A										
C-102	Residue Compressor	P04-105		4500 HP; 44 MMSCFD								Electric motor driven
A-1021	Residue Cooler - Interstage	P04-105		6.706 MMBTU/hr	350	845						Provided by SEC?
A-1022	Residue Cooler - Discharge	P04-105		7.248 MMBTU/hr	350	1440						Provided by SEC?
TK-102	Lube Oil Day Tank	P04-105A										
C-103	Residue Compressor	P04-106		4500 HP; 44 MMSCFD								Electric motor driven
A-1031	Residue Cooler - Interstage	P04-106		6.706 MMBTU/hr	350	845						Provided by SEC?
A-1032	Residue Cooler - Discharge	P04-106		7.248 MMBTU/hr	350	1440						Provided by SEC?
TK-103	Lube Oil Day Tank	P04-106A										
C-104	Residue Compressor	P04-107		4500 HP; 44 MMSCFD								Electric motor driven
A-1041	Residue Cooler - Interstage	P04-107		6.706 MMBTU/hr	350	845						Provided by SEC?
A-1042	Residue Cooler - Discharge	P04-107		7.248 MMBTU/hr	350	1440						Provided by SEC?
TK-104	Lube Oil Day Tank	P04-107A										
C-105	Residue Compressor	P04-108		4500 HP; 44 MMSCFD								Electric motor driven
A-1051	Residue Cooler - Interstage	P04-108		6.706 MMBTU/hr	350	845						Provided by SEC?
A-1052	Residue Cooler - Discharge	P04-108		7.248 MMBTU/hr	350	1440						Provided by SEC?
TK-105	Lube Oil Day Tank	P04-108A										
E-2001/3001	Pipeline Liquids Heater	P04-201		0.256 MMBTU/hr	350(S) / 150(T)	950(S) / 1440(T)						25% extra design duty; HOLD duty for slug analysis
V-2050/3050	Condensate Flash Tank	P04-203	72" ID x 30'-0" S/S		150	350						Horizontal Vessel w/ Boot
P-2100/3100	Fractionator Feed Pump	P04-203		225 GPM @ 35 PSID								100% pump
P-2150/3150	Fractionator Feed Pump	P04-203		225 GPM @ 35 PSID								100% pump
C-2200/3200	Recycle Gas Compressor	P04-204		100 HP; 0.917 MMSCFD								50% unit; **Packaged unit?
AC-2250/3250	Recycle Gas Cooler - Interstage	P04-204		0.071 MMBTU/hr								**Packaged unit?
AC-2255/3255	Recycle Gas Cooler - Discharge	P04-204	Common with AC-2250	0.166 MMBTU/hr								**Packaged unit?
C-2225/3225	Recycle Gas Compressor	P04-204		100 HP; 0.917 MMSCFD								50% unit; **Packaged unit?
AC-2270/3270	Recycle Gas Cooler - Interstage	P04-204		0.071 MMBTU/hr								**Packaged unit?
AC-2275/3275	Recycle Gas Cooler - Discharge	P04-204	Common with AC-2270	0.166 MMBTU/hr								**Packaged unit?
E-2300/3300	Feed/Product Exchanger	P04-205		0.869 MMBTU/hr	300(S) / 150(T)	350(S) / 350(T)						20% extra design duty
T-2350/3350	Fractionator	P04-205	36" ID x 60'-0" S/S		300	350						Packed Tower; HOLD ON HEIGHT
E-2400/3400	Fractionator Reboiler	P04-205		3.604 MMBTU/hr	300(S) / 450(T)	350(S) / 300(T)						Kettle reboiler; 15% extras design duty
E-2450/3450	Fractionator Side Heater	P04-205		2.530 MMBTU/hr	300(S) / 300(T)	350(S) / 350(T)						15% extra design duty
E-2500/3500	Stabilizer Feed Heater	P04-206		1.206 MMBTU/hr	350(S) / 300(T)	150(S) / 350(T)						20% extra design duty
T-2550/3550	Condensate Stabilizer	P04-206	42" ID x 50'-0" S/S		350	150						Packed Tower; HOLD ON HEIGHT
E-2600/3600	Stabilizer Reboiler	P04-206		3.989 MMBTU/hr	350(S) / 450(T)	150(S) / 300(T)						Kettle reboiler; 15% extras design duty
AC-2650/3650	Stabilizer Reflux Condenser	P04-207		1.372 MMBTU/hr	350	150						Aerial cooler; 15% extra design duty
V-2700/3700	Stabilizer Reflux Accumulator	P04-207	48" ID x 10'-0" S/S		200	150						Horizontal Vessel
P-2750/3750	Stabilizer Reflux Pump	P04-207		30 GPM @ 30 PSID								100% pump
P-2800/3800	Stabilizer Reflux Pump	P04-207		30 GPM @ 30 PSID								100% pump
C-2850/3850	Y-Grade Compressor	P04-208		350 HP; 4.078 MMSCFD								
AC-2900/3900	Y-Grade Condenser	P04-208		4.703 MMBTU/hr	350	400						Aerial cooler; 10% extra design duty; 10 deg F appr.
V-2950/3950	Y-Grade Surge Drum(s)	P04-211	TBD									ON HOLD FOR NOW
P-2960/3960	Y-Grade Pipeline Pump	P04-211		100 GPM @ 1000 PSID								100% pump
P-2970/3970	Y-Grade Pipeline Pump	P04-211		100 GPM @ 1000 PSID								100% pump
TK-4000	Condensate Storage Tank	P04-209	12'-0" OD x 20'-0" OAH			16 oz						400 BBL capacity
TK-4100	Condensate Storage Tank	P04-209	12'-0" OD x 20'-0" OAH			16 oz						400 BBL capacity
TK-4200	Condensate Storage Tank	P04-209	12'-0" OD x 20'-0" OAH			16 oz						400 BBL capacity
TK-4300	Condensate Storage Tank	P04-209A	12'-0" OD x 20'-0" OAH			16 oz						400 BBL capacity
TK-4400	Condensate Storage Tank	P04-209A	12'-0" OD x 20'-0" OAH			16 oz						400 BBL capacity
TK-4500	Condensate Storage Tank	P04-209A	12'-0" OD x 20'-0" OAH			16 oz						400 BBL capacity
H-5000/5500	Hot Oil Heater Package	P04-210		9.260 MMBTU/hr								82% efficiency assumed; Will include expansion tank, pumps
FL-6000	Condensate Flare	TBD										
V-501	Flare KO Drum	P04-120	72" ID x 30'-0" S/S		150	50						Horizontal vessel



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FL-501	Plant Flare	P04-120										
P-501	Flare KO Pump	P04-120		30 GPM @ 25 PSID								
TK-601	Slop Tank	P04-602	12'-0" OD x 20'-0" OAH			16 oz.						400 BBL capacity
TK-602	Slop Tank	P04-602	12'-0" OD x 20'-0" OAH			16 oz.						400 BBL capacity
ST-5400	HMO Blowdown Tank	P04-210				ATMOS						
C-401 A/B	Instrument Air Compressors	P04-401										
AD-401	Instrument Air Dryer	P04-401										
V-401	Instrument Air Receiver	P04-401	42" OD x 12'-0" OAH			200						Vertical vessel
F-401 A/B	Instrument Air Filters	P04-401										
V-801	Propane Storage	P04-802	84" OD x 16'-3" OAL		150	250						Horizontal vessel
V-802	Methanol Storage	P04-803			120	ATMOS						
ST-804	Glycol Storage	P04-804	4'-0" OD x 5'-0" OAL			ATMOS						
P-804	Glycol Transfer Pump	P04-804										Wilden Pneumatic
ST-805	Hot Oil Storage	P04-805	4'-0" OD x 5'-0" OAL			ATMOS						
P-805	Hot Oil Transer Pump	P04-805										Wilden Pneumatic
ST-701	Fresh Refrig. Compressor Lube Oil Tank	P04-701	4'-0" OD x 5'-8" OAL									
P-701	Refrig. Lube Oil Transfer Pump	P04-701										Wilden Pneumatic
ST-702	Refrig. Lube Oil Drain Sump	P04-701										Jatco J-5000, 10 gallon capacity
TK-703	Used Refrig. Lube Oil Storage Tank	P04-701	9'-6" OD x 8'-0" OAH			ATMOS						100 BBL capacity
TK-720	Fresh Compressor Lube Oil Storage Tank	P04-702	10'-0" OD x 15'-0" OAH			ATMOS						210 BBL capacity
P-720	Fresh Compressor Lube Oil Pump	P04-702										
TK-730	Used Compressor Lube Oil Storage Tank	P04-702	10'-0" OD x 15'-0" OAH			ATMOS						210 BBL capacity
P-730	Used Compressor Lube Oil Pump	P04-702										
ST-601	Compressor Drain Sump	P04-601										Jatco J-7000; 30 Gallon capacity
F-601	Drain Filter	P04-601										
ST-602	Main Plant Drain Sump	P04-601										Jatco J-7000; 30 Gallon capacity
F-602	Drain Filter	P04-601										
ST-603	Amine Area Sump	P04-601										Jatco J-7000; 30 Gallon capacity
F-603	Drain Filter	P04-601										
TK-801	Amine Storage Tank	P04-801	15'-0" OD x 16'-0" OAH									500 BBL capacity
TK-810	Raw Water Storage Tank	P04-801	10'-0" OD x 12'-5" OAH									6500 Gallon capacity
TK-820	Raw Water Bladder Tank	P04-801										85 Gallon capacity
TK-830	Treated Water Storage Tank	P04-801	10'-0" OD x 12'-5" OAH									6500 Gallon capacity
M-801 A/B/C	R.O. Unit	P04-801										4 GPM
F-801	R.O. Feed Water Pre-Filter	P04-801	8" OD x 36" S/S									
P-801	Water Well Pump	P04-801		20 GPM @ 40 PSID								
P-810	Amine/Water Make-Up Pump	P04-801		20 GPM @ 30 PSID								
P-830	Raw Water Pump	P04-801		15 GPM @ 70 PSID								
	200 MMSCFD Cryo Plant w/ 4500 HP Refrigeration	P04-003						Thomas Russell				
	??? GPM Amine Treating and Reconciliation	P04-003						SouthTex				50% Unit
	??? GPM Amine Treating and Reconciliation	P04-003						SouthTex				50% Unit
	??? MMBTU/hr TEG Dehydration Unit	P04-003						SouthTex				50% Unit
	??? MMBTU/hr TEG Dehydration Unit	P04-003						SouthTex				50% Unit
P-XXX	Pipeline Pump	TBD										50% pump
P-YYY	Pipeline Pump	TBD										50% pump
P-ZZZ	Pipeline Pump	TBD										50% pump
TO-XXX	Thermal Oxidizer	TBD										
B-XXX	BTEX Treating Package											Include condenser and combustor