

SHUAIBA REFINERY ASSETS ANALYSIS



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EXECUTIVE SUMMARY

DISCLAIMER OF SELLING REASON

1

“Now KNPC is executing a mega venture "**Clean Fuel Project**" to revamp, upgrade, and integrate KNPC's Refineries.

Subsequent to this, **some of the Shuaiba Refining Units are retired.**

Retired units are decommissioned & cleaned. All equipment, piping, and related components are preserved & maintained in **a fit-to-use condition.**” -Shuaiba Refinery overview page 9

What is the clean fuels program?

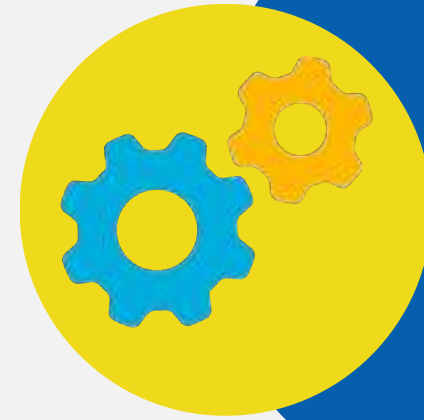
The Clean Fuels Program encourages reductions in carbon intensity by allowing a fuel provider to sell credits they have earned by going beyond the reduction goals for that year.

2

Due to the expansion of the Mina Abdullah and Mina Al-Ahmadi refineries (and space constraints in Shuaiba Refinery for modernization and revamping), KNPC retired the Shuaiba Refinery on 31st March 2017 and decided to dismantle it and utilize the site for the support services of its expansion project. - Shu Refinery Present to Buyer - R1 Page 4

WHY SHUAIBA REFINERY CHEAPER THAN OTHERS?

**New refinery with
the latest tech,
priced around 3-6
million dollars**



Technology last updated in 2012
was commissioned in 1968, In 1975 was revamped to 180,000 BBL/D Crude oil processing capacity, In 2002 Flare gas Recovery Unit and in 2006 Tail gas Treating Unit were added to enhance the environmental performance.



Refinery Capacity still relevant to today's average = 200,000 BBL/D
Refinery sizes range from a few thousand barrels/day up to 1.2 million barrels/day, but most refineries are in the range of 100-250 thousand barrels/day.



Online Presence
We use humanize and personalize approached

COMPARISON FIRST AND LAST STATEMENT

*FIRST STATEMENT SENT BY MR. MUSTAFA AND
THE LAST STATEMENT SENT BY MR. MUHAMMAD

DESCRIPTION HERE PER BLOCK AND FROM THE
SAME STATEMENT TO THE DISCREPANCY



GROUP 1

BLOCK 1





**CLEARANCE
SALE**

**Block 1
UNIT 4**

FIRST STATEMENT

UNIT - 04 (SULPHUR RECOVERY UNIT)										
ELECTRICAL - LT MOTOR LIST										
S.#	Unit	TAG. NO.	SERVICE	VEN.	H.P.	F.L.C.	RPM	PH.	POS.	FRAME NO.
1	04	B-04-01-X1M	BLOWER L. OIL PUMP	New Mann	5	6.7	3000	3	V	213P/EC 1651VB
2	04	B-04-01-X2M	BLOWER L. OIL PUMP	New Mann	5	6.7	3000	3	V	213 P/EX1651VB
3	04	P-04-03A	SULFUR SUMP PUMP	U.S.	20	26	1500	3	V	284VPH2
4	04	P-04-03B	SULFUR SUMP PUMP	U.S.	20	26	1500	3	V	284VPH2
5	04	P-04-04M	OILY CONDENS. PUMP	New Mann	7.5	9.5	3000	3	V	215P/EC1581VB
6	04	P-04-07M	OILY CONDENS. PUMP	New Mann	10	13	1500	3	V	256UP/ED2152VB
7	04	P-04-08M		Siemens	10 KW	18.2	3000	3	H	100 M

UNIT - 04 (SULPHUR RECOVERY UNIT)										
ELECTRICAL - HT MOTOR LIST										
SL.#	Unit	TAG.No	SERVICE	H.P	F.L.C.	R.P.M	MAKE	SERIAL.No	FRAME.No	
1	4	BL-04-01-M	AIR BLOWER	1500	120	1500	AEG	266/169	AVM 1250 B4 MKL	











STATEMENT	AVAILABILITY
FIRST STATEMENT	
LAST STATEMENT	

LATEST STATEMENT

UNIT #	DESCRIPTION	PROCESS LICENSORS (DESIGNER - D)	START UP YEAR	ORIGINAL DESIGN CAPACITY (BPD)	MAX. OPERATING CAP (BPD)	REMARKS
04	SULPHUR RECOVERY UNIT	FOSTER WHEELER (D)	1968	600 LT/D	500 LT/D	Revamp by Parsons in Year 2004

ITEMS COMPARISON

**Block 1
UNIT 4**

ITEMS	FIRST STATEMENT	LATEST STATEMENT
ROTARY EQUIPMENT		
B-04-01-X1M BLOWER L. OIL PUMP and B-04-01-X2M BLOWER L. OIL PUMP	 Yes Unit 4 #1 & 2, ROW 228-229	 Yes Unit 4 #75 & 76, ROW 78-79
P-04-03 A/B SULPHUR PUMP	 Yes Unit 4 #3 & 4, ROW 230-231	 Yes Unit 4 #70 & 71, ROW 73-74
P-04-04 K.O. DRUM PUMP P-04-07 SUMP PUMP	 Yes Unit 4 #5 & 6, ROW 232-233	 Yes Unit 4 #72 & 73, ROW 75-76
P-04-08 NEW OILY CONDENSATE PUMP	 Yes Unit 4 #7, ROW 234	 Yes Unit 4 #74, ROW 77
BL-04-01 X1 LO PUMP BL-04-01 X2 LO PUMP (AIR BLOWER)	 Yes Unit 4 #1, ROW 234	 Yes Unit 4 #75 & 76, ROW 78-78

ADDITIONAL OF THE LATEST: STATIC AND PIPING

**Block 1
UNIT 4**

UNIT	Equipment Tag #	Description
4	B-04-01	Waste heat Boiler, S&T
4	H-04-01 (820 Tubes, 28' L)	Heat Exchanger, S&T
4	H-04-02 (1420 Tubes, 20' L)	Heat Exchanger, S&T
4	H-04-03 (1300 Tubes, 26' L)	Heat Exchanger, S&T
4	E-04-04	LO cooler
4	H-04-01	Furnace
4	V-04-01	Vessel
4	V-04-02	Vessel
4	V-04-04	Vessel
4	V-04-05	Vessel
4	V-04-06	Drum
4	V-04-07	Drum
4	V-04-08	Incinerator
4	V-04-09	Drum
4	V-04-10	Drum
4	TK-04-04	Tank
4	F-04-01	Blower Filter
4	F-04-02	Filter
4	F-04-03	Blower Filter
4	F-04-04 A/B	LO Filter
4	F-04-05	Filter
4	F-04-06	Filter

UNIT	Equipment Tag #	Description
4	ST-04-02	Incinerator cum stack
4	BR-04-01	Burner
4	BR-04-02	Burner
4	BR-04-03	Burner
4	BR-04-04	Burner
4	H-04-01, 01S, 02, 03, 04 & 5	Sulfur Condensers
4	SC-04-01	Sample cooler, S&T
4	SC-04-02	Sample cooler, S&T
4	SC-04-03	Sample cooler, S&T
4	SC-04-04	Sample cooler, S&T
4	EJ-04-03	Ejector
4	MU-04-01	Silencer
4	MU-04-02	Silencer
4	PSV	
4	Other Auxiliary Equipment	



**Block 1
UNIT 74**

FIRST STATEMENT

UNIT - 74 (SULPHUR RECOVERY UNIT)									
ELECTRICAL - HT MOTOR LIST									
SL.#	Unit	TAG.No	SERVICE	H.P	F.L.C.	R.P.M	MAKE	SERIAL.No	FRAME.No
1	74	BL-74-01-M	AIR BLOWER	1230 KW	136	1500	SIE	BESCH21362	ILA3354

STATEMENT

AVAILABILITY

FIRST STATEMENT



LAST STATEMENT



LATEST STATEMENT

UNIT #	DESCRIPTION	PROCESS LICENSORS (DESIGNER - D)	START UP YEAR	ORIGINAL DESIGN CAPACITY (BPD)	MAX. OPERATING CAP (BPD)	REMARKS
74	SULPHUR RECOVERY UNIT	R.M.PARSONS	1978	600 LT/D	500 LT/D	Revamp by Parsons in Year 2004



ITEMS COMPARISON

**Block 1
UNIT 74**

ITEMS

FIRST STATEMENT

LATEST STATEMENT

ROTARY EQUIPMENT

BL-74-01 AIR BLOWER
MAIN LO PP - P-74-04
AUX. LO PP - P-74-05



Yes Unit 74 #1, ROW 1558



Yes Unit 74 #781, ROW 784

ADDITIONAL OF THE LATEST: STATIC AND PIPING

UNIT	Equipment Tag #	Description
74	B-74-01	Waste heat boiler
74	E-74-01	Heat Exchanger. S&T
74	E-74-02	Heat Exchanger. S&T
74	E-74-03	Heat Exchanger. S&T
74	V-74-01	Coalescer
74	V-74-02	Coalescer
74	V-74-03	Coalescer
74	V-74-04	Vessel
74	V-74-05	Drum
74	V-74-06	Drum
74	V-74-07 A/B	Reactor

UNIT	Equipment Tag #	Description
74	V-74-08	Vessel
74	V-74-09	Vessel
74	V-74-10	Vessel
74	V-74-11	Vessel
74	TK-74-04	Tank
74	H-74-01	Furnace
74	BR-74-01	Burner
74	BR-74-02	Burner
74	BR-74-03	Burner
74	BR-74-04	Burner
74	E-74-04	Cooler
74	SC-74-04	Cooler

ADDITIONAL OF THE LATEST: STATIC AND PIPING

UNIT	Equipment Tag #	Description
74	SC-74-03	Cooler
74	SC-74-02	Cooler
74	SC-74-05	Cooler
74	MU-74-03	Silencer
74	MU-74-02	Silencer
74	MU-74-01	Silencer
74	F-74-01/03	Filter
74	F-74-02 A/B	Filter
74	F-74-05 (IA Filter)	Filter
74	F-74-06	Filter
74	F-74-07	Filter
74	F-74-08	Filter
74	SP-74-01 to 11, seal pots sizes 10" x 14" &	
74	PSVs= 15 nos	
74	Other Auxiliary Equipment	

**Block 1
UNIT 74**

ROTARY EQUIPMENT

UNIT	Equipment Tag #	Description
74	P-74-01 A	ACID GAS K.O. DRUM PUMP
74	P-74-01 B	ACID GAS K.O. DRUM PUMP
74	P-74-02 A	LIQUID SULPHUR PUMP
74	P-74-02 B	LIQUID SULPHUR PUMP
74	P-74-03	AREA SUMP PUMP
74	P-74-05	AUX. LO PUMP



FIRST STATEMENT

**Block 1
UNIT 75**

**UNIT - 75 (TAIL GAS TREATING UNIT)
ELECTRICAL - LT MOTOR LIST**

S.#	Unit	TAG. NO.	SERVICE	VEN.	H.P.	F.L.C.	RPM	PH.	POS.	FRAME NO.
1	75	P-75-02-A	CATALYST MAKE UP PUMP	CEMP	0.55 KW	1.34	1420	3	V	113 G N-80,B4 TYPE FLANGE
2	75	P-75-02-B	CATALYST MAKE UP PUMP	CEMP	0.55 KW	1.34	1420	3	V	N-80B ,B4 TYPE FLANGE
3	75	P-75-03	ORGANIC PHASE PUMP	LOHER	3 KW	5.30	1435	3	V	AMGK-112 MB - 04C
4	75	P-75-04	BLOW DOWN PUMP	ABB	15 KW	26.50	1469	3	V	M3GP180MLF4
5	75	P-75-05A	SULPHUR PUMP	ABB	5.5 KW	9.50	2863	3	V	M2KA132SB2
6	75	P-75-05B	SULPHUR PUMP	ABB	5.5 KW	9.50	2863	3	V	M2KA132SB2
7	75	P-75-06-A	WATER CIRCULATION PUMP	LOHER	45 KW	72.00	1485	3	H	AMGK-250ME-04A
8	75	P-75-06-B	WATER CIRCULATION PUMP	LOHER	45 KW	72.00	1485	3	H	AMGK-250ME-04A
9	75	P-75-07-A	CAUSTIC PUMP	LOHER	3 KW	5.30	1430	3	V	AMGK-112 MB-04A
10	75	P-75-07-B	CAUSTIC PUMP	LOHER	3 KW	5.30	1430	3	V	AMGK-112 MB-04A
11	75	P-75-08	SUMP PUMP	ABB	5		2891			M2KA132SA2 (FLANGE)
12	75	BL-75-01-BM	BLOWER FOR INCINERATOR	LOHER	200		1490			ANGK-315 LB-04A IMB-3
13	75	EA-75-01M	TEMPERED WATER AIR COOLER	CEMP	15	20.00	1470	3	H	160L,IMV6
14	75	EA-75-02M	TEMPERED WATER AIR COOLER	CEMP	15	20.00	1470	3	H	160L,IMV6
15	75	U-75-01-M1	ROOT BLOWER VACUUM CONVEYING SYSTEM	BALDER	8		1460			215T,B3
16	75	U-75-01-M2	ROTARY VALVE FOR PENUMATIC CONVAYING SYSTEM	BALDER	.5		1425			56C, VI
17	75	MX-75-01M	AGITATOR (MIXER)	-	10		980			FN160 L6 B6
18	75	F-75-02-A	BLOWER INLET AIR FILTER SCREEN	-	.5		-			-
19	75	F-75-02-B	BLOWER INLET AIR FILTER SCREEN	-	.5		-			-

**UNIT - 75 (TAIL GAS TREATING UNIT)
ELECTRICAL - HT MOTOR LIST**

SL.#	Unit	TAG.No	SERVICE	H.P	F.L.C.	R.P.M	MAKE	SERIAL.No	FRAME.No
1	75	P-75-01-A	SOLVENT RECYCLE PUMP	938	73.00	1491	ABB	8805000191.01/1	AMD450LRBABM
2	75	P-75-01-B	SOLVENT RECYCLE PUMP	938	73.00	1491	ABB	8805000191.01/2	AMD450LRBABM
3	75	P-75-01-C	SOLVENT RECYCLE PUMP	938	73.00	1491	ABB	8805000191.01/3	AMD450LRBABM

STATEMENT

AVAILABILITY

FIRST STATEMENT



LAST STATEMENT



LATEST STATEMENT

UNIT #	DESCRIPTION	PROCESS LICENSORS (DESIGNER - D)	START UP YEAR	ORIGINAL DESIGN CAPACITY (BPD)	MAX. OPERATING CAP (BPD)	REMARKS
75	TAIL GAS TREATING UNIT	AXENS	2006	2578 KSCFH	2578 KSCFH	

ITEMS COMPARISON

**Block 1
UNIT 75**

ITEMS

FIRST STATEMENT

LATEST STATEMENT

ROTARY EQUIPMENT

P-75-02 A CATALYST
MAKEUP PUMP
P-75-02 B CATALYST
MAKEUP PUMP



Yes Unit 75 #1 & 2, ROW 1562-1563



Yes Unit 75 #791 & 792, ROW 794 -795

P-75-03 ORGANIC PHASE
PUMP



Yes Unit 75 #3, ROW 1564



Yes Unit 75 #793, ROW 796

P-75-04 BLOW DOWN PUMP



Yes Unit 75 #4, ROW 1565



Yes Unit 75 #794, ROW 797

P-75-05A SULPHUR PUMP
P-75-05B SULPHUR PUMP



Yes Unit 75 #5&6 ROW 1566 & 1567



NOT FOUND

P-75-06-A WATER
CIRCULATION PUMP
P-75-06-B WATER
CIRCULATION PUMP













Yes Unit 75 #7&8 ROW 1568 & 1569



Yes Unit 75 #795&796 ROW 798 & 799







ITEMS COMPARISON

**Block 1
UNIT 75**

ITEMS	FIRST STATEMENT	LATEST STATEMENT
ROTARY EQUIPMENT		
P-75-07-A CAUSTIC PUMP P-75-07-B CAUSTIC PUMP	 Yes Unit 75 #9&10, ROW 1570-1571	 Yes Unit 75 #797 & 798, ROW 800-801
P-75-08 SUMP PUMP	 Yes Unit 75 #9&10, ROW 1570-1571	 Yes Unit 75 #797 & 798, ROW 800-801
75 BL-75-01 A BLOWER 75 BL-75-01 B BLOWER BL- 75-01 AT TURBINE	 Yes Unit 75 #12, ROW 1573	 Yes Unit 75 #800, 801, 802 , ROW 803-804, 805
EA-75-01M TEMPERED WATER AIR COOLER EA-75-02M TEMPERED WATER AIR COOLER	 Yes Unit 75 #13 & 14, ROW 1574-1575	 Yes Unit 75 #806, ROW 803
U 75-01 PI ROOT BLOWER U 75-01 P2 ROTARY VALVE FOIR PNEUMATIC SYSTEM	 Yes Unit 75 #15 &16, ROW 1576-1577	 Yes Unit 75 #805 & 806, ROW 808-809

ITEMS COMPARISON

Block 1

ITEMS	FIRST STATEMENT	LATEST STATEMENT
ROTARY EQUIPMENT		
MX-75-01M AGITATOR (MIXER)	 Yes Unit 75 #17, ROW 1578	 Yes Unit 75 #804, ROW 807
P-75-01 A SOLVENT RECYCLE PUMP P-75-01 B SOLVENT RECYCLE PUMP P-75-01 C SOLVENT RECYCLE PUMP	 Yes Unit 75 #1-3, ROW 1584-1586	 Yes Unit 75 #788-890 ROW 791-793
STATIC EQUIPMENT		
F-75-02-A BLOWER INLET AIR FILTER SCREEN F-75-02-B BLOWER INLET AIR FILTER SCREEN	 Yes Unit 75 #18 & 19, ROW 1579-1580	 Yes Unit 75 #790, ROW 793

ADDITIONAL FROM THE LATEST ROTARY EQUIPMENT

UNIT	Equipment Tag #	Description
75	BL-75-02 A/B	INLET AIRFILTER SCREEN

STATIC AND PIPING

UNIT	Equipment Tag #	Description
75	H-75-01	Heater
75	ST-75-01	Chimney
75	V-75-12	Inhibitor Pot
75	V-75-09	Drum
75	V-75-10	Drum
75	V-75-11	Reactor/Vessel
75	V-75-01	Reactor
75	V-75-02	Drum
75	V-75-03	Drum
75	V-75-04	Drum
75	V-75-06	Reactor/Vessel
75	V-75-07	Steam Drum
75	V-75-08	Mud Drum

STATIC AND PIPING

UNIT	Equipment Tag #	Description
75	E-75-03	Exchanger
75	E-75-04	Exchanger
75	E-75-05	Exchanger
75	DS-75-01	Desuperheater
75	E-75-01	Heat Exchanger
75	E-75-06	Sample Cooler
75	E-75-07	Sample Cooler
75	E-75-08	Sample Cooler
75	E-75-09	Other Equipment
75	E-75-10	Other Equipment
75	E-75-11	Other Equipment
75	E-75-02	Air cooler
75	TK-75-01	Tank
75	TK-75-02	Tank
75	TK-75-03	Tank
75	FL-75-01	Filter
75	BR-75-01/02	Burner
75	U-75-01	Pneumatic conveying system
75	SL-75-03 A/B	Silencer
75	SI-75-04/05/06	Silencer
75	DS-75-02	De-Super Heater

**Block 1
UNIT 75**

ADDITIONAL FROM THE LATEST STATIC AND PIPING

Block 1
UNIT 75

UNIT	Equipment Tag #	Description
75	TK-75-01	Tank
75	TK-75-02	Tank
75	TK-75-03	Tank
75	FL-75-01	Filter
75	BR-75-01/02	Burner
75	U-75-01	Pneumatic conveying system
75	SL-75-03 A/B	Silencer
75	SI-75- 04/05/06	Silencer
75	DS-75-02	De-Super Heater
75	FA-75-01	Flame arrestor
75	PSV	For over pressure Protection = 31 nos



FIRST STATEMENT NOT STATED

STATEMENT

AVAILABILITY

FIRST STATEMENT



LAST STATEMENT



LATEST STATEMENT

UNIT #	DESCRIPTION	PROCESS LICENSORS (DESIGNER - D)	START UP YEAR	ORIGINAL DESIGN CAPACITY (BPD)	MAX. OPERATING CAP (BPD)	REMARKS
35	SULPHUR DEGASSING UNIT	FLUOR	1968	591 LT/D	---	

ADDITIONAL FROM THE LATEST STATIC AND PIPING

UNIT	Equipment Tag #	Description
35	V-35-02	Vessel
35	TK-35-271	Tank
35	TK-35-272	Tank
35	TK-35-273	Tank
35	FL-35-01	Flasher
35	EJ-35-001	Ejector
35	LMX-35-001	
35	PSV	For overpressure protection = 2 nos

GROUP 1

BLOCK 2





**Block 2
UNIT 19**

FIRST STATEMENT

STATEMENT

AVAILABILITY

FIRST
STATEMENT



LAST
STATEMENT



UNIT - 19 (DIMINERALIZING UNIT)										
ELECTRICAL - LT MOTOR LIST										
S.#	Unit	TAG. NO.	SERVICE	VEN.	H.P.	F.L.C.	RPM	PH.	POS.	FRAME NO.
1	19	P-19-01-AM	H2S04 INJECT PUMP	AEG	1 KW	2.3	1500	3	V	143T
2	19	P-19-01-BM	H2S04 INJECT PUMP	AEG	1 KW	2.3	1500	3	V	143T
3	19	P-19-02-AM	NACH INJECT PUMP	AEG	1.1KW		1500	3	H	143T
4	19	P-19-02-BM	NACH INJECT PUMP	AEG	1 KW	2.3	1500	3	V	143T
5	19	P-19-03-M	DEMINERALIZER PUMP	New Mann	10	13.4	3000	3	H	215TED1891BB
6	19	P-19-04-M		Westing House	3	5.9	3000	3	V	184 TCV
7	19	P-19-05AM		CEMP	0.55KW	1.34	1420	3	V	80 B
8	19	P-19-05BM		CEMP	0.55KW	1.34	1420	3	V	80 B
9	19	BL-19-01			20					

LATEST STATEMENT

Block 2

UNIT #	DESCRIPTION	PROCESS LICENSORS (DESIGNER - D)	START UP YEAR	ORIGINAL DESIGN CAPACITY (BPD)	MAX. OPERATING CAP (BPD)	REMARKS
19	DEMINERALIZING UNIT	FOSTER WHEELER	1978	1450 GPM	1450 GPM	



ITEMS COMPARISON

Block 2
UNIT 19

ITEMS

FIRST STATEMENT

LATEST STATEMENT

ROTARY EQUIPMENT

P-19-01 A CAUSTIC PUMPS/H2S04 INJECT PUMP
P-19-01 B CAUSTIC PUMPS/H2S04 INJECT PUMP
P-19-02 A CAUSTIC PUMPS/NACH INJECT PUMP
P-19-02 B CAUSTIC PUMPS/NACH INJECT PUMP



Yes Unit 19 #1,2,3,4
ROW 1163, 1164, 1165, 1166



Yes Unit 75 #579, 580, 581, 582,
ROW 582, 583, 584,585

P-19-03 SULPHURIC ACID TRANSFER PUMP/ DEMINERALIZER PUMP



Yes Unit 19 #5 ROW 1167



Yes Unit 19 #583 ROW 586

P-19-04 DRAIN PUMP



Yes Unit 19 #6 ROW 1168



Yes Unit 19 #584 ROW 587

P-19-05 A CAUSTIC SODA PUMP
P-19-05 B CAUSTIC SODA PUMP



Yes Unit 19 #7&8 ROW 1169 & 1170



Yes Unit 19 #586 & 587 ROW 589 & 590

ITEMS COMPARISON

Block 2

UNIT 19

ITEMS

FIRST STATEMENT

LATEST STATEMENT

ROTARY EQUIPMENT

BL-19-01 AIR BLOWER



Yes Unit 19 #7&8 ROW 1169 & 1170



Yes Unit 19 #588 ROW 585

STATIC AND PIPING

19	<u>TK-19-01</u>	Drum/Tank
19	<u>TK-19-02</u>	Drum/Tank
19	V-19-01 / 02 / 03	<u>Demineraliser</u>
19	V-19-04	Drum/Tank (Acid)
19	V-19-05	Drum/Tank (Caustic)
19	E-19-01	Heat <u>exchanger</u>
19	F-19-03	Resin trap
19	<u>PSV</u>	

CLEARANCE SALE

**Block 2
22 (PART)**

FIRST STATEMENT

UNIT - 22 (COOLING WATER SYSTEM)										
ELECTRICAL - LT MOTOR LIST										
S.#	Unit	TAG. NO.	SERVICE	VEN.	H.P.	F.L.C.	RPM	PH.	POS.	FRAME NO.
1	22	P-22-01-BM	STANDBY LUBE OIL	WH	1.5	2.4	3000	3	H	143 T
2	22	P-22-01-CM	STANDBY LUBE OIL	WH	1.5	2.4	3000	3	H	143 T
3	22	CT-22-01-M1	COOLING TOWER FAN	New Mann	75	89	1500	3	H	404T/ED34K2BB
4	22	CT-22-01-M2	COOLING TOWER FAN	New Mann	75	89	1500	3	H	404T/ED34K2BB
5	22	CT-22-01-M3	COOLING TOWER FAN	New Mann	75	89	1500	3	H	404T/ED34K2BB
6	22	CT-22-01-M4	COOLING TOWER FAN	New Mann	75	89	1500	3	H	404T/ED34K2BB
7	22	CT-22-01-M5	COOLING TOWER FAN	New Mann	75	89	1500	3	H	404T/ED34K2BB
8	22	CT-22-01-M6	COOLING TOWER FAN	New Mann	75	89	1500	3	H	404T/ED34K2BB
9	22	CT-22-01-M7	COOLING TOWER FAN	New Mann	75	89	1500	3	H	404T/ED34K2BB
10	22	CT-22-01-M8	COOLING TOWER FAN	New Mann	75	89	1500	3	H	404T/ED34K2BB
UNIT - 22 (COOLING WATER SYSTEM)										
ELECTRICAL - HT MOTOR LIST										
SL.#	Unit	TAG.No	SERVICE	H.P	F.L.C.	R.P.M	MAKE	SERIAL.No	FRAME.No	
1	22	P-22-04-AM	DE-MINERALIZING PUMP	261KW	28	1490	Laurence Scott	B 618 R01/1	D 355/ 900	

STATEMENT

AVAILABILITY

FIRST STATEMENT



LAST STATEMENT



LATEST STATEMENT



Block 2



UNIT #	DESCRIPTION	PROCESS LICENSORS (DESIGNER - D)	START UP YEAR	ORIGINAL DESIGN CAPACITY (BPD)	MAX. OPERATING CAP (BPD)	REMARKS
22 (PART)	COOLING WATER SYSTEM (cooling tower, Pumps and associated piping)	FLUOR PRODUCTS	1968	40,000 GPM	30,000 GPM	Drinking water system and Eyewash & Safety Shower System are to be retained. (P-22-01A, P-22-02A/B, P-22-03A/B, Chilled water Pumps - P-22-PP1, P-22-PP2, P-22-SP1 & P-22-SP2, RE-22-01, TK-22-ST1 and associated piping to be retained.)



ITEMS COMPARISON

ITEMS	FIRST STATEMENT	LATEST STATEMENT
-------	-----------------	------------------

ROTARY EQUIPMENT

<p>P-22-01 B COOLING WATER PUMP P-22-01 C COOLING WATER PUMP P-22-01 BT/CT COOLING WATER PUMP P-22-01B LO LO PUMP P-22-01C LO LO PUMP</p>	<p> Yes Unit 22 #1,2 ROW 1198, 1199</p>	<p> Yes Unit 22 #611, 612, 613,614,615 ROW 614, 615, 616, 617, 618</p>
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<p>CT-22-01-M1 COOLING TOWER FAN CT-22-01-M2 COOLING TOWER FAN CT-22-01-M3 COOLING TOWER FAN CT-22-01-M4 COOLING TOWER FAN CT-22-01-M5 COOLING TOWER FAN CT-22-01-M6 COOLING TOWER FAN CT-22-01-M7 COOLING TOWER FAN CT-22-01-M8 COOLING TOWER FAN</p>	<p> Yes Unit 22 #3, 4, 5, 6, 7, 8, 9, 10 ROW 1200,1201, 1202, 1203, 1204, 1205, 1206, 1207</p>	<p> Yes Unit 22 #855 ROW 857 (Static) and Rotary - Unit 22 #618 ROW 621</p>
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<p>P-22-04 A D M WATER PUMP P-22-04 B D M WATER PUMP</p>	<p> Yes Unit 22 #1 ROW 1211</p>	<p> Yes Unit 22 #616, 617 ROW 619, 620</p>
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ADDITIONAL FROM THE LATEST STATIC AND PIPING

UNIT	Equipment Tag #	Description
22	V-29-05	Vessel
22	E-22-01/02	Plate type Ht Ex
22	F-22-02/03	Filter
22	E-22-M1	Model Exchanger
22	Other Auxiliary Equipment	

CLEARANCE SALE

**Block 2
UNIT 61**

FIRST STATEMENT

UNIT - 61 (ACID GAS REMOVAL UNIT)

ELECTRICAL - LT MOTOR LIST

S.#	Unit	TAG. NO.	SERVICE	VEN.	H.P.	F.L.C.	RPM	PH.	POS.	FRAME NO.	YEAR OF MOTOR REPLACEMENT
1	61	P-61-01-AM	ABSORBER FEED PUMP	HEEMAF	7.5	9.5	2870	3	H	0UK1325 DJ-2	-
2	61	P-61-01-BM	SPARE FOR ABS.F.P.	HEEMAF	7.5		2870	3	H	0UK1325 DJ-2	-
3	61	P-61-03-AM	REGENERATION REFLUX	HEEMAF	18.5 KW	31.5	2920	3	H	000160L	-
4	61	P-61-03-BM	SPARE FOR REGN. REFL.	HEEMAF	25		2920	3	H	000160L	-
5	61	P-61-04-M	SUMP PUMP	HEEMAF	7.5(5.5KW)	10.2	1440	3	V	00UK132SDJ-4	-
6	61	P-61-06-AM	SWEET HYDROCAR COND	HEEMAF	7.5(5.5KW)	9.5	2870	3	H	00NS/77/149	-
7	61	P-61-06-BM	SPARE FOR SW.HYDCON.	HEEMAF	5.5KW	9.5	2870	3	H	00NS/77/149	-
8	61	P-61-08-M	BENFIELD SLIPSTREAM	HEEMAF	15		2920	3	H	00UKL5.70-2	-
9	61	P-61-09-M	BENFIELD MAKE-UP	HEEMAF	7.5		2870	3	H	00UK1325DJ-2	-
10	61	P-61-012-M	CONDENSATE PUMP	HEEMAF	50	59	2940	3	H	00000200L	-
11	61	P-61-013-M	SPARE FOR COND.PUMP	HEEMAF	50		2940	3	H	00000200L	-
12	61	P-61-016-M	OILY WATER SUMP PUMP	HEEMAF	20	26	1500	3	V	160M	-
13	61	P-61-017-M	SOUR EFFLUENT PUMP	HEEMAF	15		2920	3	H	000NS/77/150	-
14	61	P-61-018-M	SPARE FOR SOUR EFF.	HEEMAF	15	19.5	2920	3	H	000NS/77/150	-
15	61	P-61-019-M	FLUSHING PUMP	HEEMAF	20		1460	3	H	000NS/77/171	-
16	61	P-61-020-M	SPARE FOR FLUSH.PUMP	HEEMAF	20		1460	3	H	000NS/77/171	-
17	61	P-61-021-M	DRAINAGE SUMP PUMP	Reliance Elec.	4 KW	8.8	1440	3	V	UK 112 MD G4	-
18	61	P-61-022-A	CONDENSATE PUMP	LOHER	15		3000	3	H		-
19	61	P-61-022-B	CONDENSATE PUMP	LOHER	15		3000	3	H		-
20	61	P-61-051-M	SEAL OIL PUMP	LOHER	10	13.3	1445	3	H	00D3A132M-4	-
21	61	P-61-052-M	AUX SEAL OIL	LOHER	10		1445	3	H	00D3A132M-4	-
22	61	P-61-053-M	AUX SEAL OIL	LOHER	30 KW	49	1470	3	H	d 3A 200 L - 4	-
23	61	P-61-055-M	INJECTION PUMP	AEG	4.6KW	8.6	2925	3	V	FAM160 MS202	-
24	61	P-61-056-M	INJECTION PUMP	AEG	6.5		3000	3	V	DAM 132SV 2d3	-
25	61	MX-61-01-M	MIXER FOR TK-52	AEG	0.75 KW		690	3	V	08AM1325V2DE	-
26	61	MX-61-004-M	STIRRER	Newmann	3	4.5	1430	3	V	0D1001VEC1482C	-
27	61	E-61-04 - 051	INTER-COOLER	HEEMAF	25	31	1470	3	V	UK M5.61 - 4	-
28	61	E-61-04 -052	INTER-COOLER	HEEMAF	25	31	1470	3	V	UK M5.61 - 4	-
29	61	E-61-04 -053	INTER-COOLER	HEEMAF	25	31	1470	3	V	UK M5.61 - 4	-
30	61	E-61-04 - 054	INTER-COOLER	HEEMAF	18.5 KW	31	1470	3	V	UK M5.61 - 4	-
31	61	E-61-04-055	REGENERATOR	HEEMAF	25	31	1470	3	V	UK M5.61 - 4	-
32	61	E-61-04-056	REGENERATOR COND.	HEEMAF	25	31	1470	3	V	UK M5.61 - 4	-
33	61	E-61-04-057	REGENERATOR COND.	HEEMAF	25	31	1470	3	V	UK M5.61 - 4	-
34	61	E-61-04-058	REGENERATOR COND.	HEEMAF	25	31	1470	3	V	UK M5.61 - 4	-
35	61	E-61-04-059	REGENERATOR COND.	HEEMAF	25	31	1470	3	V	UK M5.61 - 4	-

STATEMENT

AVAILABILITY

FIRST
STATEMENT



LAST
STATEMENT



CLEARANCE SALE

**Block 2
UNIT 61**

FIRST STATEMENT

UNIT - 61 (ACID GAS REMOVAL UNIT)											
ELECTRICAL - LT MOTOR LIST											
35	61	E-61-04-059-M	REGENERATOR COND.	HEEMAF	25	31	1470	3	V	UK M5.61 - 4	-
36	61	E-61-04-060-M	REGENERATOR COND.	HEEMAF	25	31	1470	3	V	UK M5.61 - 4	-
37	61	E-61-04-061-M	REGENERATOR COND.	HEEMAF	25	31	1470	3	V	UK M5.61 - 4	-
38	61	E-61-04-062-M	REGENERATOR COND.	HEEMAF	18.5KW	31	1470	3	V	UK M5.61 - 4	-
39	61	E-61-04-063-M	REGENERATOR COND.	HEEMAF	25	31	1470	3	V	UK M5.61 - 4	-
40	61	E-61-04-064-M	REGENERATOR COND.	HEEMAF	25	31	1470	3	V	UK M5.61 - 4	-
41	61	E-61-04-065-M	REGENERATOR COND.	ABB	25	31	1470	3	V	UK M5.61 - 4	2012
42	61	E-61-04-066-M	REGENERATOR COND.	HEEMAF	25	31	1470	3	V	UK M5.61 - 4	-
43	61	E-61-04-067-M	REGENERATOR COND.	HEEMAF	25	31	1470	3	V	UK M5.61 - 4	-
44	61	E-61-04-068-M	REGENERATOR COND.	HEEMAF	25	31	1470	3	V	UK M5.61 - 4	-
45	61	E-61-04-069-M	REGENERATOR COND.	HEEMAF	25	31	1470	3	V	UK M5.61 - 4	-
46	61	E-61-04-070-M	REGENERATOR COND.	HEEMAF	25	31	1470	3	V	UK M5.61 - 4	-
47	61	E-61-04-071-M	LEAN SOLUTION COOL	HEEMAF	25	31	1470	3	V	UK M5.61 - 4	-
48	61	E-61-04-072-M	LEAN SOLUTION COOL	HEEMAF	25	31	1470	3	V	UK M5.61 - 4	-

STATEMENT

AVAILABILITY

FIRST STATEMENT



LAST STATEMENT



UNIT - 61 (ACID GAS REMOVAL UNIT)										
ELECTRICAL - HT MOTOR LIST										
SL.#	Unit#	TAG.No	SERVICE	H.P	F.L.C.	R.P.M	MAKE	SERIAL.No	FRAME.No	YEAR OF MOTOR REPLACEMENT
1	61	C-61-01-M	FEED BOOST COMP	2822KW/3700HP	295	1493	SIE	N 189892	ILA 3379-B3	-
2	61	P-61-014-M	SEA WATER BOOSTER	250	22	1486	AEG	277/186	AR 400 M2/4 KB	-
3	61	P-61-015-M	SPARE FOR WAT BOOST	250	22	1486	ABB	4574613	HXR 355 LB4	2006
4	61	P-61-02-AM	LEAN SOLU PUMP	620	47	2978	AEG	277/183	AR 450 L2/2 KLB	-
5	61	P-61-02B	LEAN SOLU PUMP	463 KW	48	2978	SIE	S611407960100001/2004	IMS4402-2AN70	-
6	61	P-61-02-CM	LEAN SOLU PUMP	620	47	2978	AEG	277/185	AR 450 L2/2 KLB	-

LATEST STATEMENT

Block 2						
UNIT #	DESCRIPTION	PROCESS LICENSORS (DESIGNER - D)	START UP YEAR	ORIGINAL DESIGN CAPACITY (BPD)	MAX. OPERATING CAP (BPD)	REMARKS
61	ACID GAS REMOVAL PLANT	KELLOG - UOP	1978	72.2 MMSCFD	72.2 MMSCFD	



ITEMS COMPARISON

**Block 2
UNIT 61**

ITEMS

FIRST STATEMENT

LATEST STATEMENT

ROTARY EQUIPMENT

C-61-01 FEED BOOSTER COMP.
P-61-01 A ABSORBER FEED PUMP
J/C, 1", 108 B
P-61-01 B ABSORBER FEED PUMP
J/C, 1", 108 B



Yes Unit 61 #1,2 ROW 1246, 1247
and Unit 61 #1 ROW 1297



Yes Unit 61 #651, 652, 653 ROW 654, 655, 656

P-61-03 A REGENERATION REFLUX
PUMP J/C, 2", IMB/Z
P-61-03 B REGENERATION REFLUX
PUMP J/C, 2", IMB/Z



Yes Unit 61 #3,4 ROW 1248, 1249



Yes Unit 61 #657, 658 ROW 660, 661

P-61-04 SUMP PUMP.



Yes Unit 61 #5 ROW 1250



Yes Unit 61 #659 ROW 662

P-61-06 A SWEET HYDRO-CARBON
COND. PUMP J/C, 1 5/8", 108B
P-61-06 B SWEET HYDRO CARBON
COND. PUMP J/C, 1 5/8", 108B



Yes Unit 61 #6, 7 ROW 1251, 1252



Yes Unit 61 #660, 661 ROW 663, 664

P-61-08 CONDENSATE PUMP/
BENFIELD SLIPSTREAM



Yes Unit 61 #8 ROW 1253



Yes Unit 61 #662 ROW 665

ITEMS COMPARISON

**Block 2
UNIT 61**

ITEMS

FIRST STATEMENT

LATEST STATEMENT

ROTARY EQUIPMENT

P-61-09 BENFIELD MAKE-UP PUMP
J/C, 1 3/4", 209 B/P /BENFIELD
MAKE-UP



Yes Unit 61 #9 ROW 1254



Yes Unit 61 #663 ROW 666

P-61-12 CONDENSATE PUMP J/C,
2", IMB/ARICI



Yes Unit 61 #10 ROW 1255



Yes Unit 61 #664 ROW 667

P-61-13 CONDENSATE PUMP J/C,
2", IMB/ARICI



Yes Unit 61 #11 ROW 1256



Yes Unit 61 #665 ROW 668

P-61-16 SUMP PUMP.



Yes Unit 61 #12 ROW 1257



Yes Unit 61 #668 ROW 667

P-61-17 SOUR EFFLUENT PUMP J/C,
2", IMB/Z



Yes Unit 61 #13 ROW 1258



Yes Unit 61 #669 ROW 672

P-61-018-M SPARE FOR SOUR
EFF./SOUR EFFLUENT PUMP J/C, 2",
IMB/Z















Yes Unit 61 #14 ROW 1259



Yes Unit 61 #670 ROW 673

ITEMS COMPARISON

**Block 2
UNIT 61**

ITEMS	FIRST STATEMENT	LATEST STATEMENT
ROTARY EQUIPMENT		
P-61-019-M FLUSHING PUMP/ RAM PUMP	 <p>Yes Unit 61 #15 ROW 1260</p>	 <p>Yes Unit 61 #671 ROW 674</p>
P-61-020-M SPARE FOR FLUSH.PUMP/RAM PUMP	 <p>Yes Unit 61 #16 ROW 1261</p>	 <p>Yes Unit 61 #672 ROW 675</p>
P-61-021-M DRAINAGE SUMP PUMP	 <p>Yes Unit 61 #17 ROW 1262</p>	 <p>Yes Unit 61 #673 ROW 676</p>
P-61-022-A CONDENSATE PUMP/ FEED FILTRATION PUMP P-61-022-B CONDENSATE PUMP/ FEED FILTRATION PUMP	 <p>Yes Unit 61 #18, 19 ROW 1263, 1264</p>	 <p>Yes Unit 61 #674, 675 ROW 677, 678</p>
P-61-51 SEAL OIL PUMP	 <p>Yes Unit 61 #20 ROW 1265</p>	 <p>Yes Unit 61 #683 ROW 686</p>
P-61-052-M AUX.SEAL OIL P-61-053-M AUX.SEAL OIL	 <p>Yes Unit 61 #21, 22 ROW 1266, 1267</p>	 <p>Yes Unit 61 #684, 685 ROW 687, 688</p>

ITEMS COMPARISON

Block 2

UNIT 61

ITEMS

FIRST STATEMENT

LATEST STATEMENT

ROTARY EQUIPMENT

P-61-055-M INJECTION PUMP/
DOSING PUMP.
P-61-056-M INJECTION PUMP/
DOSING PUMP.



Yes Unit 61 #23, 24 ROW 1268, 1269



Yes Unit 61 #676, 677 ROW 679, 680

MX-61-01-M MIXER FOR TANK 52



Yes Unit 61 #25 ROW 1270



Yes Unit 61 #682 ROW 685

MX-61-004-M STIRRER



Yes Unit 61 #26 ROW 1271



Yes Unit 61 #681 ROW 684

E-61-04 - 051-M INTER-COOLER
E-61-04 - 053-M INTER-COOLER
E-61-04 - 054-M INTER-COOLER
E-61-04-055-M REGENERATOR
E-61-04-056-M REGENERATOR COND.
E-61-04-057-M REGENERATOR COND.
E-61-04-058-M REGENERATOR COND.
E-61-04-059-M REGENERATOR COND.
E-61-04-060-M REGENERATOR COND.
E-61-04-061-M REGENERATOR COND.
E-61-04-062-M REGENERATOR COND.
E-61-04-063-M REGENERATOR COND.
E-61-04-064-M REGENERATOR COND.
E-61-04-065-M REGENERATOR COND.
E-61-04-066-M REGENERATOR COND.
E-61-04-067-M REGENERATOR COND.
E-61-04-068-M REGENERATOR COND.
E-61-04-069-M REGENERATOR COND.
E-61-04-070-M REGENERATOR COND.
E-61-04-071-M LEAN SOLUTION COOL
E-61-04-072-M LEAN SOLUTION COOL



Yes Unit 61 #27, 28, 29, 30, 31, 32, 33,34, 35,36,37,38,
39, 40, 41, 42, 43, 44, 45, 46, 47, 48
ROW 1263, 1264




Yes Unit 61 #678, 679, 680
ROW 681, 682, 683

ITEMS COMPARISON

**Block 2
UNIT 61**

ITEMS	FIRST STATEMENT	LATEST STATEMENT
-------	-----------------	------------------

ROTARY EQUIPMENT

P-61-014-M SEA WATER BOOSTER	 <p>Yes Unit 61 #2 ROW 1298</p>	 <p>Yes Unit 61 #666 ROW 669</p>
P-61-015-M SPARE FOR WAT.BOOST	 <p>Yes Unit 61 #3 ROW 1299</p>	 <p>Yes Unit 61 #667 ROW 670</p>
P-61-02-AM LEAN SOLU.PUMP P-61-02B LEAN SOLU.PUMP P-61-02-CM LEAN.SOLU. PUMP	 <p>Yes Unit 61 #4, 5, 6 ROW 1262</p>	 <p>Yes Unit 61 #654, 655, 656 ROW 657, 658, 659</p>

ADDITIONAL FROM THE LATEST STATIC AND PIPING

**Block 2
UNIT 61**

UNIT	Equipment Tag #	Description	UNIT	Equipment Tag #	Description
61	E-61-01	Cooler	61	F-61-02	Filter
61	E-61-02	Heat Exchanger	61	F-61-03	Filter
61	E-61-03 A	Heat Exchanger	61	V-61-01	Drum/Tank
61	E-61-03 B	Heat Exchanger	61	V-61-02	Drum/Tank
61	E-61-03 C	Heat Exchanger	61	V-61-03	Drum/Tank
61	E-61-03 D	Heat Exchanger	61	V-61-04	Reactor/Vessel
61	E-61-04	Condenser	61	V-61-05	Column
61	E-61-05	Heat Exchanger	61	V-61-06	Column
61	E-61-06	Cooler	61	V-61-07	Reactor/Vessel
61	E-61-07	Heat Exchanger	61	V-61-08	Drum/Tank
61	E-61-08	Heat Exchanger	61	V-61-09	Drum
61	E-61-09	Heat Exchanger			
61	E-61-12	Heat Exchanger			
61	F-61-01	Filter			

ADDITIONAL FROM THE LATEST STATIC AND PIPING

**Block 2
UNIT 61**

UNIT	Equipment Tag #	Description	UNIT	Equipment Tag #	Description
61	V-61-10	Drum	61	F-61-05 A/B	Filter
61	V-61-11 A/B/C/D	Drum	61	F-61-06	Filter
61	V-61-13	Vessel	61	Mx -61-51	Mixer
61	V-61-14	Vessel	61	TK -61-01	Tank
61	V-61-15	Vessel	61	DR-29-01	
61	V-61-16	Vessel	61	EJ -61-01	Ejector
61	V-61-17	Drum/Tank	61	PSV	For over pressure Protect
61	V-61-18	Vessel	61	E-61-101 (C-61-01-E1)	LO cooler
61	V-61-19	Vessel	61	E-61-102 (C-61-01-E2)	LO cooler
61	V-61-20	Vessel	61	E-61-103 (C-61-01-E3)	SO cooler
61	V-61-21	Drum	61	E-61-104 (C-61-01-E4)	SO cooler
61	V-61-22 A/B	Vessel			
61	TK -61-52	Tank			
61	F-61-04	Filter			

ADDITIONAL FROM THE LATEST STATIC AND PIPING

UNIT	Equipment Tag #	Description
61	F-61-101	Filters
61	F-61-102	Filters
61	F-61-103	Filters
61	F-61-104	Filters
61	<u>TK-61-101</u>	LO Tank
61	<u>TK-61-102</u>	SO Tank
61	V-61-101	LO trap
61	V-61-102	SO trap
61	V-62-103	SO trap
61	V-62-104	SO trap
61	Other Auxiliary Equipment	

CLEARANCE SALE

**Block 2
UNIT 64**

FIRST STATEMENT

UNIT - 64 (COOLING WATER SYSTEM)										
ELECTRICAL - LT MOTOR LIST										
S.#	Unit	TAG. NO.	SERVICE	VEN.	H.P.	F.L.C.	RPM	PH.	POS.	FRAME NO.
1	64	P-64-01-BM1	AUX LUBE OIL PUMP	GE	5	6.7	3495	3	H	184T
2	64	E-64-01-AM	COOLING TOWER FAN	Siemens	100		1500	3	H	1LA4 283 B3 280M
3	64	E-64-01-BM	COOLING TOWER FAN	Siemens	100		1500	3	H	1LA4 283 B3 280M
4	64	E-64-01-CM	COOLING TOWER FAN	Siemens	100	122	1500	3	H	1LA4 283 B3 280M
UNIT - 64 (COOLING WATER SYSTEM)										
ELECTRICAL - HT MOTOR LIST										
SL.#	Unit	TAG.No	SERVICE	H.P.	F.L.C.	R.P.M	MAKE	SERIAL.No	FRAME.No	
1	64	P-64-01-AM	COOL.WAT.PUMP	930 KW	106	1000	Siemens	213291	IRP5-566 B3	

STATEMENT

AVAILABILITY

FIRST STATEMENT



LAST STATEMENT



LATEST STATEMENT

Block 2

UNIT #	DESCRIPTION	PROCESS LICENSORS (DESIGNER - D)	START UP YEAR	ORIGINAL DESIGN CAPACITY (BPD)	MAX. OPERATING CAP (BPD)	REMARKS
64	COOLING WATER SYSTEM	PAHARPUR - MARLEY	1978	24,000 GPM	20,000 GPM	

ITEMS COMPARISON

Block 2

UNIT 64

ITEMS

FIRST STATEMENT

LATEST STATEMENT

ROTARY EQUIPMENT

P-64-01 B1
AUX LO PUMP/ P-64-01-BM1
AUX LUBE OIL PUMP



Yes Unit 64 #1 ROW 1421



Yes Unit 64 #732 ROW 735

E-64-01-AM / P-64-01 A
COOLING TOWER FAN
E-64-01-BM/ P-64-01 B COOLING
TOWER FAN
E-64-01-CM/ P-64-01 BT COOLING
TOWER FAN



Yes Unit 64 #2, 3, 4 ROW 1422, 1423, 1424



Yes Unit 64 #730, 731, 733 ROW 733, 734, 736

P-64-01-AM/ 64
CT-64-01 F1-F3 COOL.WAT.PUMP-
COOLING TOWAR FAN



Yes Unit 64 #1 ROW 1428



Yes Unit 64 #734 ROW 737

ADDITIONAL FROM THE LATEST STATIC AND PIPING

UNIT	Equipment Tag #	Description
64	F-64-01	Filter
64	CT-64-01	Cooling Tower
64	<u>PSV</u>	For <u>overpressure</u> protection = 6 nos
64	Other Auxiliary Equipment	



FIRST STATEMENT NOT STATED

STATEMENT

AVAILABILITY

FIRST STATEMENT



LAST STATEMENT



LATEST STATEMENT

Block 2

UNIT #	DESCRIPTION	PROCESS LICENSORS (DESIGNER - D)	START UP YEAR	ORIGINAL DESIGN CAPACITY (RPD)	MAX. OPERATING CAP (RPD)	REMARKS
23 (PART)	SEA COOLING WATER SYSTEM (sea cooling water exchangers E-23-01 A/B/C/D , E-29-02 and associated piping)	---	---	---	---	Seawater cooling system (Underground Piping with Valves to be retained for Firewater back-up)

ADDITIONAL FROM THE LATEST STATIC AND PIPING

UNIT <input type="text"/>	Equipment Tag # <input type="text"/>	Description <input type="text"/>
23	E-23-01A	<u>Exchanger</u>
23	E-23-01B	<u>Exchanger</u>
23	E-23-01C	<u>Exchanger</u>
23	E-23-01D	<u>Exchanger</u>
23	Other Auxiliary Equipment	

GROUP 1

BLOCK 8



CLEARANCE SALE

FIRST STATEMENT

**Block 8
UNIT 29**

1212 UNIT - 29 (FLARE GAS RECOVERY UNIT, FUEL GAS SYSTEM & FLARE SYSTEM)												
1213 ELECTRICAL - LT MOTOR LIST												
1214	S.#	Unit	TAG. NO.	SERVICE	VEN.	H.P.	F.L.C.	RPM	PH.	POS.	FRAME NO.	YEAR OF MOTOR REPLACEMENT
1215	1	29	C-29-01-AM	INST AIR COMP.	U.S.	200		600	3	H	Y6807-S	-
1216	2	29	C-29-03-AM	PLANT AIR COMP. A	GE	250		600	3	H	D450SC	-
1217	3	29	C-29-03-BM	PLANT AIR COMP. B	GE	210KW		600	3	H	D450SC	-
1218	4	29	C-29-05-M1	AXILARY LUB OIL PUMP	SIE	2.2 KW	4.2	3000	3	H	ILA5096 2AA97-Z	-
1219	5	29	P-29-02-AM	CONDENSATE PUMP	WEG	100	114	3000	3	V	444/5 T	2014
1220	6	29	P-29-04-M	SULF. CHEM. INJ. PUMP	Newmann	40	49.5	1500	3	H	328U/ED27A2BB	-
1221	7	29	P-29-04-M1	L.OIL FOR P2904	Delco	1	1.7	3000	3	H	A 67	-
1222	8	29	P-29-04-M2	FORCED CONT. CIRC.	Newmann	1	1.75	1500	3	H	143T/EC1262BB	-
1223	9	29	C-29-04-BM-1	ENCLOSURE FAN	BALDOR	0.75	6/1.2	1500	3(220/440)	H	56	-
1224	10	29	C-29-04-AM-1	ENCLOSURE FAN	BALDOR	0.75	1.3	1500	3	H	56	-
1225	11	29	P-29-11A		Siemens	132 KW	210	1500	3	H	315 M	-
1226	12	29	P-29-11B		Siemens	132 KW	210	1500	3	H	315 M	-
1227	13	29	P-29-15-A		Siemens	10	13.5	1500	3	H	215 T	-
1228	14	29	P-29-15-B		Siemens	10	13.5	1500	3	H	215 T	-
1229	15	29	P-29-15-C		SIE	10	13.5	1500	3	H	215 T	-
1230	16	29	P-29-10-A		Reliance	5	6.27	1500	3	H	184 T	-
1231	17	29	P-29-10-B		Reliance	5	6.27	1500	3	H	184 T	-
1232	18	29	P-29-12-B		Siemens	22 KW	39	3000	3	H	180 M	-
1233	19	29	P-29-12-D		Siemens	22 KW	39	3000	3	H	180 M	-
1234	20	29	G-29-03	Cooling Water(UNIT#15 Gen.)	KSB	2.2 KW	4.7	3000	3	V	Name Plate not visible	-
1235	21	29	G-29-03	Lube Oil	KSB	0.25 KW	1.7/1.2	3000	3(380/220)	H	Name Plate not visible	-
1236	22	29	G-29-04	Cooling Water(UNIT # 68Gen.)	KSB	2.2 KW	4.7	3000	3	V	Name Plate not visible	-
1237	23	29	G-29-04	Lube Oil	KSB	0.25 KW	1.7/1.2	3000	3(380/220)	H	Name Plate not visible	-
1238 UNIT - 29 (FLARE GAS RECOVERY UNIT, FUEL GAS SYSTEM & FLARE SYSTEM)												
1239 ELECTRICAL - HT MOTOR LIST												
1240	SL#	Unit	TAG.No	SERVICE	H.P	F.L.C. (A)	R.P.M	MAKE	SERIAL No	FRAME.No		
1241	1	29	C-29-04B	FLARE GASS COMP	1305KW/1750HP	136	1500	SIE	N005267010001/2000	ILA 1 562-4KT 70 -Z		
1242	2	29	C-29-05-M	AIR COMPRESSOR	540	41.4	3000	SIE	E 11806-01-1	708 Z (CGZ)		

STATEMENT

AVAILABILITY

FIRST STATEMENT



LAST STATEMENT



LATEST STATEMENT

Block 8

UNIT #	DESCRIPTION	PROCESS LICENSORS (DESIGNER - D)	START UP YEAR	ORIGINAL DESIGN CAPACITY (BPD)	MAX. OPERATING CAP (BPD)	REMARKS
29 (only FGRU)	FLARE GAS RECOVERY UNIT	---	2002	18.7 MMSCFD	18.7 MMSCFD	

ITEMS COMPARISON

Block 8

UNIT 29

ITEMS

FIRST STATEMENT

LATEST STATEMENT

ROTARY EQUIPMENT

C-29-01 A INST. AIR COMP
C-29-01 B INST. AIR COMP
C-29-01C INST. AIR COMP
C-29-01 BT/CT INST. AIR COMP



Yes Unit 29 #1 ROW 1215



Yes Unit 29 #619, 620, 621, 622
ROW 622, 623, 624, 625

C-29-03-AM PLANT AIR COMP. A
C-29-03-BM PLANT AIR COMP. B



Yes Unit 29 #2, 3 ROW 1216, 1217



Yes Unit 29 #623, 624 ROW 626, 627

C-29-05-M1
AXILARY LUB OIL PUMP



Yes Unit 29 #4 ROW 1218



NOT FOUND

P-29-02 A CONDENSATE PUMP.
P-29-02 B CONDENSATE PUMP
P-29-02 BT CONDENSATE PUMP



Yes Unit 29 #5 ROW 1219



Yes Unit 29 #626, 627, 628 ROW 629, 630, 631

P-29-04 SULPHIDING CHEMICAL
INJECTION PUMP.











Yes Unit 29 #6 ROW 1220



Yes Unit 29 #629 ROW 632

ITEMS COMPARISON

**Block 8
UNIT 29**

ITEMS	FIRST STATEMENT	LATEST STATEMENT
ROTARY EQUIPMENT		
P-29-04-M2 FORCED CONT. CIRC.	 Yes Unit 29 #7 ROW 1221	 NOT FOUND
P-29-01 A FLARE KNOCKOUT DRUM PUMP P-29-01 B FLARE KNOCKOUT DRUM PUMP (P-29-04-M2 FORCED CONT. CIRC).	 Yes Unit 29 #8 ROW 1222	 Yes Unit 29 #638, 639 ROW 641, 642
C-29-04-BM-1/ C-29-04 B P1 ENCLOSURE FAN C-29-04-AM-1/ C-29-04A P1 ENCLOSURE FAN	 Yes Unit 29 #9, 10 ROW 1223, 1224	 Yes Unit 29 #649.650 ROW 652, 653
P-29-11 A SEA WATER PUMP P-29-11 B SEA WATER PUMP	 Yes Unit 29 #11,12 ROW 1225, 1226	 Yes Unit 29 #630, 631 ROW 633, 634

ITEMS COMPARISON

Block 8

UNIT 29

ITEMS

FIRST STATEMENT

LATEST STATEMENT

ROTARY EQUIPMENT

P-29-15-A/ P-29-15 A COND. PUMPS
P-29-15-B/ P-29-15 B COND. PUMPS
P-29-15-C



Yes Unit 29 #13, 14, 15
ROW 1227, 1228, 1229



Yes Unit 29 #647, 648 ROW 650, 651

P-29-10 A SOUR COND. PUMPS
P-29-10 B SOUR COND. PUMPS



Yes Unit 29 #16, 17
ROW 1230, 1231



Yes Unit 29 #640, 641 ROW 643, 644

P-29-12 A L.O. PUMPS FOR C-29-04 A/B
P-29-12 B L.O. PUMPS FOR C-29-04 A/B
P-29-12 C L.O. PUMPS FOR C-29-04 A/B
P-29-12 D L.O. PUMPS FOR C-29-04 A/B
P-29-12 AT/CT L.O. PUMPS FOR C-29-04 A/B



Yes Unit 29 #18,19
ROW 1232, 1233



Yes Unit 29 #642, 643, 644, 645, 646
ROW 645, 646, 647, 648, 649

G-29-03 Cooling Water(UNIT#15 Gen.)
G-29-03 Lube Oil



Yes Unit 29 #20, 21
ROW 1234, 1235



NOT FOUND

G-29-04 Cooling Water(UNIT # 68Gen.)
G-29-04 Lube Oil



Yes Unit 29 #22, 23
ROW 1236, 1237



NOT FOUND

ITEMS COMPARISON

Block 8

UNIT 29

ITEMS

FIRST STATEMENT

LATEST STATEMENT

ROTARY EQUIPMENT

C-29-04 A FLAIR GAS COMP.
C-29-04 B FLAIR GAS COMP.
C-29-04 AT FLAIR GAS COMP.
C-29-04 B-GBX FGC GEAR BOX



Yes Unit 29 #1 ROW 1241



Yes Unit 29 #634, 635, 636, 637
ROW 637, 638, 639, 640

C-29-05-M AIR COMPRESSOR



Yes Unit 29 #2, ROW 1242



Yes Unit 29 #625 ROW 628

ADDITIONAL FROM THE LATEST

STATIC AND PIPING

UNIT	Equipment Tag #	Description
29	E-29-01 A	Exchanger
29	E-29-01 B	Exchanger
29	E-29-01 C	Exchanger
29	E-29-04 A	Cooler
29	E-29-04 B	Cooler
29	V-29-03 A	Vessel
29	V-29-03 B	Vessel
29	V-29-08	Vessel
29	ST-29-01/02	STACK
29	ST-29-03	STACK
29	C-29-05E-1	Intercooler S&T
29	C-29-05E-2	Intercooler S&T
29	C-29-05-E4	Exchanger
29	C-29-05-E5	Exchanger
29	C-29-05-E3	Exchanger

UNIT	Equipment Tag #	Description
29	C-29-03 AE/BE	Intercooler
29	C-29-01-A-E	Cooler
29	C-29-01-B-E	Cooler
29	C-29-01-C-E	Cooler
29	C-29-05-E	Exchanger
29	E-29-02	Condenser
29	F-29-01 A/B	Filters
29	F-29-03 A/B	Filters
29	C-29-05 F1/F2	Filters
29	C-29-05 V	Oil Reservoir
29	SE-29-01 A/B	Separator
29	PSV	For over pressure Protection = 25 nos
29	V-29-01	Vessel
29	V-29-06	Vessel
29	V-29-09	Vessel

ADDITIONAL FROM THE LATEST STATIC AND PIPING

**Block 8
UNIT 29**

UNIT	Equipment Tag #	Description
29	V-29-09 A/B	Vessel
29	Other Auxiliary Equipment (Dryers)	DR-29-01, DR-29-01A & DR-29-02
29-FGRU	E-29-08 A/B	Exchanger
29-FGRU	E-29-09 A/B	Exchanger
29-FGRU	E-29-09 C/D	Exchanger
29-FGRU	E-29-11	Exchanger
29-FGRU	E-29-13	Exchanger
29-FGRU	E-29-14	Exchanger
29-FGRU	E-29-15 A/B	Exchanger
29-FGRU	V-29-10	Vessel
29-FGRU	V-29-12	Vessel
29-FGRU	V-29-13	Vessel
29-FGRU	V-29-14	Vessel
29-FGRU	V-29-15	Vessel
29-FGRU	V-29-16	Vessel

UNIT	Equipment Tag #	Description
29-FGRU	V-29-19	Vessel
29-FGRU	AC-LO-001 A/B	Accumulators
29-FGRU	F-SO-001 A/B/C/D	Filters
29-FGRU	F-LO-001 A/B/C/D	Filters
29-FGRU	29-T-LO-001 A	Oil Reservoir
29-FGRU	29-T-LO-001 B	Tank
29-FGRU	TK-29-01 B	Tank
29-FGRU	TK-29-01 A	Tank
29-FGRU	Other Auxiliary Equipment	

GROUP 2

BLOCK 3



CLEARANCE SALE

FIRST STATEMENT

**Block 3
UNIT 1**

UNIT - 01 (BURGAN GAS UNIT)											
ELECTRICAL - LT MOTOR LIST											
S.#	Unit	TAG. NO.	SERVICE	VEN.	H.P.	F.L.C.	RPM	PH.	POS.	FRAME NO.	
1	01	C-01-01-A-M1	LUBE OIL FOR C-01-01A	New Mann	20	26	3000	3	H	256U/ED21A1BB	
2	01	C-01-01-A-M2	SEAL OIL FOR C-01-01A	New Mann	7.5	10	3000	3	H	213/EC1651BB	
3	01	C-01-01-B-M1	LUBE OIL FOR C-01-01B	New Mann	20	26	3000	3	H	256U/ED21A1BB	
4	01	C-01-01-B-M2	SEAL OIL FOR C-01-01B	New Mann	7.5	10	3000	3	H	213/EC1651BB	
5	01	P-01-01-M	BURGAN GAS COND.	New Mann	3	4.2	3000	3	H	66 / BD 1571 BB	
6	01	P-01-06-M	AREA SUMP PUMP	GE	10	14.2	1500	3	V	254UP/ED2152VB	
GROUP - 1											
7	01	E-01-01-A-M1	COMP. 1ST D. AIR CLR.	New Mann	20	26	1500	3	H	284U/ED2492BB	
8	01	E-01-01-A-M2	COMP. 1ST D. AIR CLR.	New Mann	20		1500	3	H	284U/ED2492BB	
9	01	E-01-01-B-M1	COMP. 1ST D. AIR CLR.	New Mann	20		1500	3	H	284U/ED2492BB	
10	01	E-01-01-B-M2	COMP. 1ST D. AIR CLR.	New Mann	20		1500	3	H	284U/ED2492BB	
GROUP - 3											
11	01	E-01-03-M1	COMP. 2ND RECY. CLR.	New Mann	20		1500	3	H	284U/ED2492BB	
12	01	E-01-03-M2		New Mann	20		1500	3	H	284U/ED2492BB	

STATEMENT

AVAILABILITY

FIRST STATEMENT



LAST STATEMENT



LATEST STATEMENT

Block 3

UNIT #	DESCRIPTION	PROCESS LICENSORS (DESIGNER - D)	START UP YEAR	ORIGINAL DESIGN CAPACITY (BPD)	MAX. OPERATING CAP (BPD)	REMARKS
01	BURGAN GAS UNIT	FOSTER WHEELER (D)	1968	73.3 MMSCFD	73.3 MMSCFD	



ITEMS COMPARISON

Block 3 UNIT 1

ITEMS	FIRST STATEMENT	LATEST STATEMENT
ROTARY EQUIPMENT		
C-01-01-A-M1 LUBE OIL FOR C-01-01A C-01-01-A-M2 SEAL OIL FOR C-01-01A C-01-01-B-M1 LUBE OIL FOR C-01-01B C-01-01-B-M2 SEAL OIL FOR C-01-01B	 Yes Unit 1 #1, 2, 3, 4 ROW 4, 5, 6, 7	 Yes Unit 1 #4, 5, 6, 7 ROW 7, 8, 9, 10
P-01-01/P-01-01-M BURGAN GAS CONDESATE PUMP	 Yes Unit 1 #5 ROW 8	 Yes Unit 1 #8 ROW 11
P-01-06/ P-01-01-M AREA SUMP PUMP	 Yes Unit 1 #6 ROW 9	 Yes Unit 1 #10 ROW 13
E-01-01-A-M1 COMP. 1ST D. AIR CLR. E-01-01-A-M2 COMP. 1ST D. AIR CLR. E-01-01-B-M1 COMP. 1ST D. AIR CLR. E-01-01-B-M2 COMP. 1ST D. AIR CLR. (FINFANS)	 Yes Unit 1 #7, 8, 9, 10 ROW 11, 12, 13, 14	 Yes Unit 1 #11, 12 ROW 14, 15
E-01-03-M1 COMP. 2ND RECY. CLR. E-01-03-M2 (FINFANS)	 Yes Unit 1 #11, 12 ROW 16, 17	 Yes Unit 1 #13 ROW 16

ADDITIONAL FROM THE LATEST STATIC AND PIPING

**Block 3
UNIT 1**

SI #	UNIT	Equipment Tag #	Description
1	1	E-01-02	Heat Exchanger, S&T
2	1	E-01-01A	Air cooler
3	1	E-01-01B	Air cooler
4	1	E-01-03	Air cooler
5	1	V-01-01	Vessel
6	1	V-01-02	Vessel
7	1	V-01-03	Vessel
8	1	V-01-04	Vessel
9	1	V-01-05	Vessel
10	1	V-29-02	Vessel
11	1	V-01/05 A/B/C/D	Inst air vessel
12	1	TK-01-101	Reservoir
13	1	TK-01-201	Reservoir
14	1	TK-01-102	Tank
15	1	TK-01-103	Tank
16	1	TK-01-202	Tank
17	1	TK-01-203	Tank
18	1	E-01-101, SHELL / TUBE	Upper lube oil cooler
19	1	E-01-102, SHELL / TUBE	Lower lube oil cooler
20	1	E-01-103, SHELL / TUBE	Turbine gland condenser
21	1	E-01-201, SHELL / TUBE	Upper lube oil cooler

SI #	UNIT	Equipment Tag #	Description
22	1	E-01-202, SHELL / TUBE	Lower lube oil cooler
23	1	E-01-203, SHELL / TUBE	Turbine gland condenser
24	1	F-01-101 & 102	LO filter
25	1	F-01-103 & 104	SO filter
26	1	F-01-201 & 202	LO filter
27	1	F-01-203 & 204	SO filter
28	1	PSVs	26 nos
29	1	Other Auxiliary Equipment	

CLEARANCE SALE

**Block 3
UNIT 9**

FIRST STATEMENT

UNIT - 09 (NAPHTHA FRACTIONATOR UNIT)												
ELECTRICAL - LT MOTOR LIST												
S.#	Unit	TAG. NO.	SERVICE	VEN.	H.P.	F.L.C.	RPM	PH.	POS.	FRAME NO.	YEAR OF MOTOR REPLACEMENT	
701	1	09	P-09-03-AM	LP ABSORB RICH OIL	New Mann	200		3000	3	H	686S/JC5251BD	-
702	2	09	P-09-03-BM	LP ABSORB RICH OIL	New Mann	200	240	3000	3	H	686S/JC5251BD	-
703	3	09	P-09-06-AM	DEBUT. REFLUX PUMP	New Mann	50	63	3000	3	H	326S/ED27A1BB	-
704	4	09	P-09-06-BM		New Mann	50	63	3000	3	H	326S/ED27A1BB	-
705	5	09	P09-07-AM	NAPH.SPLIT.BTMS	New Mann	200		3000	3	H	686S/JC5251BD	-
706	6	09	P-09-07-BM	NAPH.SPLIT.BTMS	New Mann	200		3000	3	H	686S/JC5251BD	-
707	7	09	P-09-08-M	NAPH.SPLIT.RFLX	New Mann	75		3000	3	H	404US/ED34K 1BB	-
708	8	09	P-09-09-AM1	LUB. OIL PUMP	Westing House	7.5		1500	3	H	215 TC	-
709	9	09	P-09-09-AM2	LUB. OIL PUMP	Westing House	7.5	10.5	1500	3	H	215 TC	-
710	10	09	P-09-09-BM1	LUB. OIL PUMP	Westing House	7.5	10.5	1500	3	H	215 TC	-
711	11	09	P-09-09-BM2	LUB. OIL PUMP	Westing House	7.5		1500	3	H	215 TC	-
712	12	09	P-09-11-M	SPLIT OVHD.PROD.	GE	175(132KW)	203	3000	3	H	315 M	-
713	13	09	P-09-12-AM	SOUR WATER PUMP	New Mann	3	4.7	3000	3	H	66/ BC 1571 BB	-
714	14	09	P-09-12-BM	SOUR WATER PUMP	New Mann	3	4.7	3000	3	H	66/ BC 1571 BB	-
715	15	09	P-09-13-AM	HYDC.COND.PUMP	New Mann	5		3000	3	H	184 EC1481 BB	-
716	16	09	P-09-13-BM	HYDC.COND.PUMP	New Mann	5		3000	3	H	184 EC1481 BB	-
717	17	09	P-09-14-AM	SPARE F/P0908/PO911	New Mann	100	115	3000	3	H	405 US	-
718	18	09	P-09-14-BM	SPARE F/P0908/PO911	GE	132Kw	203	3000	3	H	E 315 MX	-
720			GROUP - 4									
721	19	09	E-09-04-M1	LEAN OIL AIR COOLER	New Mann	20	26	1500	3	H	284U/ED2492BB	-
722	20	09	E-09-04-M2	LEAN OIL AIR COOLER	New Mann	20	26	1500	3	H	284U/ED2492BB	-
723	21	09	E-09-04-M3	LEAN OIL AIR COOLER	New Mann	20	26	1500	3	H	284U/ED2492BB	-
724	22	09	E-09-04-M4	LEAN OIL AIR COOLER	New Mann	20	26	1500	3	H	284U/ED2492BB	-
725	23	09	E-09-04-M5	LEAN OIL AIR COOLER	New Mann	20	26	1500	3	H	284U/ED2492BB	-
726	24	09	E-09-04-M6	LEAN OIL AIR COOLER	New Mann	20	26	1500	3	H	284U/ED2492BB	-
727	25	09	E-09-04-M7	LEAN OIL AIR COOLER	New Mann	20	26	1500	3	H	284U/ED2492BB	-
728	26	09	E-09-04-M8	LEAN OIL AIR COOLER	New Mann	20	26	1500	3	H	284U/ED2492BB	-
729	27	09	E-09-04-M9	LEAN OIL AIR COOLER	New Mann	20	26	1500	3	H	284U/ED2492BB	-
730	28	09	E-09-04-M10	LEAN OIL AIR COOLER	New Mann	20	26	1500	3	H	284U/ED2492BB	-

STATEMENT

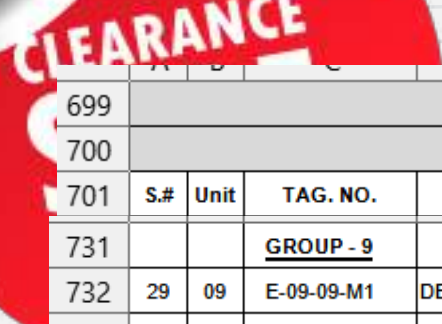
AVAILABILITY

FIRST STATEMENT



LAST STATEMENT





Block 3 UNIT 9

FIRST STATEMENT

STATEMENT

AVAILABILITY

FIRST STATEMENT



LAST STATEMENT



UNIT - 09 (NAPHTHA FRACTIONATOR UNIT)												
ELECTRICAL - LT MOTOR LIST												
S.#	Unit	TAG. NO.	SERVICE	VEN.	H.P.	F.L.C.	RPM	PH.	POS.	FRAME NO.	YEAR OF MOTOR REPLACEMENT	
701												
731			GROUP - 9									
732	29	09	E-09-09-M1	DEBUT. AIR COND.	New Mann	20	26	1500	3	H	284U/ED2492BB	-
733	30	09	E-09-09-M2	DEBUT. AIR COND.	New Mann	20	26	1500	3	H	284U/ED2492BB	-
734	31	09	E-09-09-M3	DEBUT. AIR COND.	SIEMENS	20	26	1500	3	H	284U/ED2492BB	2009
735	32	09	E-09-09-M4	DEBUT. AIR COND.	New Mann	20	26	1500	3	H	284U/ED2492BB	-
736	33	09	E-09-09-M5	DEBUT. AIR COND.	New Mann	20	26	1500	3	H	284U/ED2492BB	-
737	34	09	E-09-09-M6	DEBUT. AIR COND.	New Mann	20	26	1500	3	H	284U/ED2492BB	-
738	35	09	E-09-09-M7	DEBUT. AIR COND.	SIEMENS	20	26	1500	3	H	284U/ED2492BB	2009
739	36	09	E-09-09-M8	DEBUT. AIR COND.	New Mann	20	26	1500	3	H	284U/ED2492BB	-
740	37	09	E-09-09-M9	DEBUT. AIR COND.	SIEMENS	20	26	1500	3	H	284U/ED2492BB	2009
741	38	09	E-09-09-M10	DEBUT. AIR COND.	New Mann	20	26	1500	3	H	284U/ED2492BB	-
742	39	09	E-09-09-M11	DEBUT. AIR COND.	New Mann	20	26	1500	3	H	284U/ED2492BB	-
743	40	09	E-09-09-M12	DEBUT. AIR COND.	New Mann	20	26	1500	3	H	284U/ED2492BB	-
744	41	09	E-09-09-M13	DEBUT. AIR COND.	New Mann	20	26	1500	3	H	284U/ED2492BB	-
745	42	09	E-09-09-M14	DEBUT. AIR COND.	SIEMENS	20	26	1500	3	H	284U/ED2492BB	2009
746			GROUP - 11									
747	43	09	E-09-11-M1	NAP. SPLIT. AIR COND.	New Mann	20	26	1500	3	H	284U/ED2492BB	-
748	44	09	E-09-11-M2	NAP. SPLIT. AIR COND.	New Mann	20	26	1500	3	H	284U/ED2492BB	-
749	45	09	E-09-11-M3	NAP. SPLIT. AIR COND.	New Mann	20	26	1500	3	H	284U/ED2492BB	-
750	46	09	E-09-11-M4	NAP. SPLIT. AIR COND.	New Mann	20	26	1500	3	H	284U/ED2492BB	-
751	47	09	E-09-11-M5	NAP. SPLIT. AIR COND.	New Mann	20	26	1500	3	H	284U/ED2492BB	-
752	48	09	E-09-11-M6	NAP. SPLIT. AIR COND.	New Mann	20	26	1500	3	H	284U/ED2492BB	-
753	49	09	E-09-11-M7	NAP. SPLIT. AIR COND.	New Mann	20	26	1500	3	H	284U/ED2492BB	-
754	50	09	E-09-11-M8	NAP. SPLIT. AIR COND.	New Mann	20	26	1500	3	H	284U/ED2492BB	-
755	51	09	E-09-11-M9	NAP. SPLIT. AIR COND.	New Mann	20	26	1500	3	H	284U/ED2492BB	-
756	52	09	E-09-11-M10	NAP. SPLIT. AIR COND.	New Mann	20	26	1500	3	H	284U/ED2492BB	-
757	53	09	E-09-11-M11	NAP. SPLIT. AIR COND.	New Mann	20	26	1500	3	H	284U/ED2492BB	-
758	54	09	E-09-11-M12	NAP. SPLIT. AIR COND.	New Mann	20	26	1500	3	H	284U/ED2492BB	-
759	55	09	E-09-11-M13	NAP. SPLIT. AIR COND.	New Mann	20	26	1500	3	H	284U/ED2492BB	-
760	56	09	E-09-11-M14	NAP. SPLIT. AIR COND.	New Mann	20	26	1500	3	H	284U/ED2492BB	-
761	57	09	E-09-11-M15	NAP. SPLIT. AIR COND.	New Mann	20	26	1500	3	H	284U/ED2492BB	-
762	58	09	E-09-11-M16	NAP. SPLIT. AIR COND.	New Mann	20	26	1500	3	H	284U/ED2492BB	-
763	59	09	E-09-11-M17	NAP. SPLIT. AIR COND.	New Mann	20	26	1500	3	H	284U/ED2492BB	-
764	60	09	E-09-11-M18	NAP. SPLIT. AIR COND.	New Mann	20	26	1500	3	H	284U/ED2492BB	-
765	61	09	E-09-11-M19	NAP. SPLIT. AIR COND.	New Mann	20	26	1500	3	H	284U/ED2492BB	-
766	62	09	E-09-11-M20	NAP. SPLIT. AIR COND.	New Mann	20	26	1500	3	H	284U/ED2492BB	-
767	63	09	E-09-11-M21	NAP. SPLIT. AIR COND.	New Mann	20	26	1500	3	H	284U/ED2492BB	-
768	64	09	E-09-11-M22	NAP. SPLIT. AIR COND.	New Mann	20	26	1500	3	H	284U/ED2492BB	-
769	65	09	E-09-11-M23	NAP. SPLIT. AIR COND.	New Mann	20	26	1500	3	H	284U/ED2492BB	-
770	66	09	E-09-11-M24	NAP. SPLIT. AIR COND.	New Mann	20	26	1500	3	H	284U/ED2492BB	-





**Block 3
UNIT 9**

FIRST STATEMENT

STATEMENT

AVAILABILITY

FIRST STATEMENT



LAST STATEMENT



UNIT - 09 (NAPHTHA FRACTIONATOR UNIT)												
ELECTRICAL - LT MOTOR LIST												
S.#	Unit	TAG. NO.	SERVICE	VEN.	H.P.	F.L.C.	RPM	PH.	POS.	FRAME NO.	YEAR OF MOTOR REPLACEMENT	
771	67	09	E-09-11-M25	NAP.SPLIT.AIR COND.	New Mann	20	26	1500	3	H	284U/ED2492BB	-
772	68	09	E-09-11-M26	NAP.SPLIT.AIR COND.	New Mann	20	26	1500	3	H	284U/ED2492BB	-
773	69	09	E-09-11-M27	NAP.SPLIT.AIR COND.	New Mann	20	26	1500	3	H	284U/ED2492BB	-
774	70	09	E-09-11-M28	NAP.SPLIT.AIR COND.	New Mann	20	26	1500	3	H	284U/ED2492BB	-
775	71	09	E-09-11-M29	NAP.SPLIT.AIR COND.	New Mann	20	26	1500	3	H	284U/ED2492BB	-
776	72	09	E-09-11-M30	NAP.SPLIT.AIR COND.	New Mann	20	26	1500	3	H	284U/ED2492BB	-
777	73	09	E-09-11-M31	NAP.SPLIT.AIR COND.	New Mann	20	26	1500	3	H	284U/ED2492BB	-
778	74	09	E-09-11-M32	NAP.SPLIT.AIR COND.	New Mann	20	26	1500	3	H	284U/ED2492BB	-
779	75	09	E-09-11-M33	NAP.SPLIT.AIR COND.	New Mann	20	26	1500	3	H	284U/ED2492BB	-
780	76	09	E-09-11-M34	NAP.SPLIT.AIR COND.	New Mann	20	26	1500	3	H	284U/ED2492BB	-
781	77	09	E-09-11-M35	NAP.SPLIT.AIR COND.	New Mann	20	26	1500	3	H	284U/ED2492BB	-
782	78	09	E-09-11-M36	NAP.SPLIT.AIR COND.	New Mann	20	26	1500	3	H	284U/ED2492BB	-
UNIT - 09 (NAPHTHA FRACTIONATOR UNIT)												
ELECTRICAL - HT MOTOR LIST												
SL.#	Unit	TAG.No	SERVICE	H.P	F.L.C.	R.P.M	MAKE	SERIAL.No	FRAME.No	YEAR OF MOTOR REPLACEMENT		
786	1	9	P-09-01 CM	DEBUT. FEED PUMP	300	25	3000	WEG	JP 8410238	5810/11/12TS	2013	
787	2	9	P-09-01-AM	DEBUT FEED PUMP	300	22	3000	ABB	4582512	HXR400 LB2	2006	
788	3	9	P-09-01-BM	DEBUT. FEED PUMP	300	22	3000	ABB	4582513	HXR400 LB2	2006	
789	4	9	P-09-09-AM	DEBUT. REBLR.FD. PUMP	350	28	1500	ABB	4594290	HXR 400 LF4	2008	
790	5	9	P-09-09-BM	DEBUT.REBLR.FD.PUMP	260KW	29	1485	SIEMENS	230988	1 LA5 458 B3	-	

LATEST STATEMENT

Block 3

UNIT #	DESCRIPTION	PROCESS LICENSORS (DESIGNER - D)	START UP YEAR	ORIGINAL DESIGN CAPACITY (BPD)	MAX. OPERATING CAP (BPD)	REMARKS
09	NAPHTHA FRACTIONATOR UNIT	FOSTER WHEELER (D)	1968	65,000	65,000	



ITEMS COMPARISON

Block 3

UNIT 9

ITEMS

FIRST STATEMENT

LATEST STATEMENT

ROTARY EQUIPMENT

P-09-03 A L.B./P-09-03-AM and
P-09-03 B L.B./P-09-03-BM ABSORBER RICH
OIL PUMP



Yes Unit 9 #1,2 ROW 702, 703



Yes Unit 9 #312, 313 ROW 315, 316

P-09-06 A/P-09-06-AM and
P-09-06 B/ P-09-06-BM
DEBUTANIZER REFLUX PUMP



Yes Unit 9 #3,4 ROW 704, 705



Yes Unit 9 #314, 315 ROW 317, 318

P-09-07 A/ P09-07-AM and
P-09-07 B/ P-09-07-BM
NAPTHA SPLITTER BOTTOMS PUMP



Yes Unit 9 #5,6 ROW 706, 707



Yes Unit 9 #316, 317 ROW 319, 320

P-09-08 NAPTHA SPLITTER REFLUX PUMP



Yes Unit 9 #7 ROW 708



Yes Unit 9 #318 ROW 321

P-09-09-AM1, P-09-09-AM2, P-09-09-BM1, and
P-09-09-BM2 LUB. OIL PUMP



Yes Unit 9 #8, 9, 10, 11
ROW 709, 710, 711, 712



Yes Unit 9 #333, 334, 335, 336
ROW 336, 337, 338, 339

ITEMS COMPARISON

Block 3

UNIT 9

ITEMS

FIRST STATEMENT

LATEST STATEMENT

ROTARY EQUIPMENT

P-09-11 SPLITTER O/H. PRODUCT PUMP



Yes Unit 9 #12 ROW 713



Yes Unit 9 #323 ROW 326

P-09-12-AM/P-09-12 A and
P-09-12-BM/ P-09-12 B SOUR WATER PUMP



Yes Unit 9 #13, 14 ROW 714, 715



Yes Unit 9 #324, 325 ROW 327, 328

P-09-13 A / P-09-13-AM and
P-09-13 B/ P-09-13-BM HYDRO-CARBON
CONDENSATE PUMP



Yes Unit 9 #15, 16 ROW 716, 717



Yes Unit 9 #326, 327 ROW 329, 330

P-09-14 A/P-09-14-AM and
P-09-14 B/ P-09-14-BM SPARE PUMP FOR P-
09-08 & P-09-11



Yes Unit 9 #17, 18 ROW 718, 719



Yes Unit 9 #328, 329 ROW 331, 332

E-09-04 M1-M10 LEAN OIL AIR COOLER
(FINFANS)



Yes Unit 9 #19, 20, 21, 22,
23, 24, 25, 26, 27, 28
ROW 721, 722, 723, 724, 725,
726, 727, 728, 729, 730



Yes Unit 9 #330 ROW 333

ITEMS COMPARISON

Block 3

UNIT 9

ITEMS

FIRST STATEMENT

LATEST STATEMENT

ROTARY EQUIPMENT

E-09-09 M1-M14 DEBUT. AIR COND. (FINFANS)



Yes Unit 9 #29, 30, 31, 32, 33, 34, 35,
36, 37, 38, 39, 40, 41, 42
ROW 732, 733, 734, 735, 736,
737, 738, 739, 740, 741, 742, 743, 744, 745



Yes Unit 9 #331 ROW 334

E-09-11 M1-M36 NAP.SPLIT.AIR COND.
(FINFANS)



Yes Unit 9 #43-78 ROW 747-782



Yes Unit 9 #332 ROW 335

P-09-01 A/P-09-01-AM, P-09-01 B/ P-09-01-BM
and P-09-01 C/ P-09-01 CM DEBUTANIZER
FEED PUMP



Yes Unit 9 #1, 2, 3
ROW 786, 787, 788



Yes Unit 9 #309, 310, 311
ROW 312, 313, 314

P-09-09-AM/ P-09-09 A and P-09-09-BM/
P-09-09 B DEBUTANIZER RE- BOILER FEED
PUMP



Yes Unit 9 #4, 5 ROW 789, 790



Yes Unit 9 #319, 320 ROW 322, 323

ADDITIONAL FROM THE LATEST STATIC AND PIPING

**Block 3
UNIT 9**

UNIT	Equipment Tag #	Description
9	E-09-01 A	Heat Exchanger. S&T
9	E-09-01 B	Heat Exchanger. S&T
9	E-09-01 C	Heat Exchanger. S&T
9	E-09-03	Heat Exchanger. S&T
9	E-09-05 A/B	Heat Exchanger S&T(each)
9	E-09-05 C	Heat Exchanger S&T(each)
9	E-09-05 D	Heat Exchanger S&T(each)
9	E-09-10	Heat Exchanger. S&T
9	E-09-12 A/B	Heat Exchanger. S&T
9	E-09-16	Heat Exchanger. S&T
9	E-09-18	Heat Exchanger. S&T
9	E-09-04	Air cooler- 5 banks/10fans
9	E-09-09	Air cooler- 7 banks/14fans
9	E-09-11	Air cooler- 18 banks/36fans
9	E-09-301	Pump SO Cooler
9	E-09-401	Pump LO Cooler

UNIT	Equipment Tag #	Description
9	H-09-01	Heater
9	V-09-01	Vessel
9	V-09-03	Vessel
9	V-09-04	Vessel
9	V-09-06	Vessel
9	V-09-08	Vessel
9	V-09-09	Vessel
9	V-09-10	Vessel
9	V-09-11	Vessel
9	TK-09-301/401	SO reservoirs
9	F-09-301 / 401	SO return filter
9	P-09-09C E1 / E2	SO cooler, S&T
9	PSVs	16 nos
9	Other Auxiliary Equipment	

CLEARANCE SALE

FIRST STATEMENT

**Block 3
UNIT 14**

UNIT - 14 (AMINE TREATING UNIT)												
ELECTRICAL - LT MOTOR LIST												
S.#	Unit	TAG. NO.	SERVICE	VEN.	H.P.	E.L.C.	RPM	PH.	POS.	FRAME NO.	YEAR OF MOTOR REPLACEMENT	
1039												
1040												
1041												
1042	1	14	P-14-01-M	FRESH AMINE S.PUMP	New Mann	3	3000	3	V	184P/EC1621VB	-	
1043	2	14	MX-14-01	AGITATOR (MIXTURE)	GE	0.5	3.5	1500	1	H	5 KHA 3N 72	-
1044	3	14	P-14-03-AM	L.P. AMINE CIRC PUMP	New Mann	200	1500	3	H	686/JC5232BB	-	
1045	4	14	P-14-03-BM	L.P. AMINE CIRC PUMP	New Mann	200	1500	3	H	686/JC5232BB	-	
1046	5	14	P-14-04-AM	FLASH GAS AMINE	New Mann	200	3000	3	H	686/JC5232BB	-	
1047	6	14	P-14-04-CM	FLASH GAS AMINE	GE	200	223	3000	3	H	449 TS	-
1048	7	14	P-14-05-AM	AMINE REGEN. REFX.	New Mann	10	3000	3	H	ECR275	-	
1049	8	14	P-14-05-CM	AMINE REGEN. REFX.	New Mann	10	13.7	3000	3	H	ECR275	-
1050	9	14	P-14-06-AM	AMINE REGEN. FEED	New Mann	250	1000	3	H	184C/EC1482KB	-	
1051	10	14	P-14-07-AM	WASH WATER PUMP	Siemens	3	4.3	1500	3	V	MA 510 74 BA 947	-
1052	11	14	P-14-07-BM	WASH WATER PUMP	Siemens	2.5 KW	4.8	1500	3	V	1MA 510/4 BA94 - Z	-
1053	12	14	P-14-08-M	CHEM INJECT PUMP	New Mann	0.25	1500	1	H	213/EC1481BB	-	
1054	13	14	P-14-09-M	AMINE TRANSFER PUMP	New Mann	7.5	10	3000	3	H	213 EC	-
1055	14	14	P-14-10-AM	BURGAN GAS AMINE P.	New Mann	100	115	3000	3	H	405 S	-
1056	15	14	P-14-11-AM	CONDENSATE PUMP	New Mann	25	31	3000	3	V	286UP/DD2751VBE	-
1057	16	14	P-14-11-CM	CONDENSATE PUMP	New Mann	25	34.6	3000	3	V	248U/ED2492BB	-
1058			<u>GROUP - 1</u>									
1059	17	14	E-14-01-M1	LEAN AMINE AIR CLR.	New Mann	20	1500	3	H	284U/ED2492BB	-	
1060	18	14	E-14-01-M2	LEAN AMINE AIR CLR.	New Mann	20	1500	3	H	284U/ED2492BB	-	
1061	19	14	E-14-01-M3	LEAN AMINE AIR CLR.	New Mann	20	26	1500	3	H	284U/ED2492BB	-
1062	20	14	E14-01-M4	LEAN AMINE AIR CLR.	SIEMENS	20	1500	3	H	284U/ED2492BB	2009	
1063	21	14	E14-01-M5	LEAN AMINE AIR CLR.	New Mann	20	26	1500	3	H	284U/ED2492BB	-
1064	22	14	E-14-01-M6	LEAN AMINE AIR CLR.	New Mann	20	1500	3	H	284U/ED2492BB	-	
1065	23	14	E-14-01-M7	LEAN AMINE AIR CLR.	New Mann	20	1500	3	H	284U/ED2492BB	-	
1066	24	14	E-14-01-M8	LEAN AMINE AIR CLR.	New Mann	20	1500	3	H	284U/ED2492BB	-	
1067	25	14	E-14-01-M9	LEAN AMINE AIR CLR.	New Mann	20	26	1500	3	H	284U/ED2492BB	-
1068	26	14	E-14-01-M10	LEAN AMINE AIR CLR.	SIEMENS	20	1500	3	H	284U/ED2492BB	2009	
1069	27	14	E-14-01-M11	LEAN AMINE AIR CLR.	Siemens	20	26	1500	3	H	284U/ED2492BB	2007
1070	28	14	E-14-01-M12	LEAN AMINE AIR CLR.	Siemens	20	26	1500	3	H	284U/ED2492BB	2007
1071	29	14	E-14-01-M13	LEAN AMINE AIR CLR.	Siemens	20	26	1500	3	H	284U/ED2492BB	2007
1072	30	14	E-14-01-M14	LEAN AMINE AIR CLR.	New Mann	20	26	1500	3	H	284U/ED2492BB	-
1073	31	14	E-14-01-M15	LEAN AMINE AIR CLR.	New Mann	20	1500	3	H	284U/ED2492BB	-	
1074	32	14	E-14-01-M16	LEAN AMINE AIR CLR.	SIEMENS	20	1500	3	H	284U/ED2492BB	2009	
1075	33	14	E-14-01-M17	LEAN AMINE AIR CLR.	SIEMENS	20	1500	3	H	284U/ED2492BB	2009	
1076	34	14	E-14-01-M18	LEAN AMINE AIR CLR.	Siemens	20	26	1500	3	H	284U/ED2492BB	2007
1077	35	14	E-14-01-M19	LEAN AMINE AIR CLR.	SIEMENS	20	1500	3	H	284U/ED2492BB	2009	
1078	36	14	E-14-01-M20	LEAN AMINE AIR CLR.	New Mann	20	1500	3	H	284U/ED2492BB	-	
1079	37	14	E-14-01-M21	LEAN AMINE AIR CLR.	SIEMENS	20	1500	3	H	284U/ED2492BB	2009	

STATEMENT

AVAILABILITY

FIRST STATEMENT



LAST STATEMENT





Block 3 UNIT 14

FIRST STATEMENT

UNIT - 14 (AMINE TREATING UNIT)												
ELECTRICAL - LT MOTOR LIST												
S.#	Unit	TAG. NO.	SERVICE	VEN.	H.P.	F.L.C.	RPM	PH.	POS.	FRAME NO.	YEAR OF MOTOR REPLACEMENT	
1080	38	14	E-14-01-M22	LEAN AMINE AIR CLR.	SIEMENS	20		1500	3	H	284U/ED2492BB	2009
1081	39	14	E-14-01-M23	LEAN AMINE AIR CLR.	New Mann	20	26	1500	3	H	284U/ED2492BB	-
1082	40	14	E-41-01-M24	LEAN AMINE AIR CLR.	Siemens	20	26	1500	3	H	284U/ED2492BB	2007
1083			GROUP - 6									
1084	41	14	E-14-06-AM1	AMINE REGEN. A COND.	New Mann	15	19	1500	3	H	256U/ED21A2BB	-
1085	42	14	E-14-06-AM2	AMINE REGEN. A COND.	New Mann	15	19	1500	3	H	256U/ED21A2BB	-
1086	43	14	E-14-06-AM3	AMINE REGEN. A COND.	New Mann	15	19	1500	3	H	256U/ED21A2BB	-
1087	44	14	E-14-06-AM4	AMINE REGEN. A COND.	New Mann	15	19	1500	3	H	256U/ED21A2BB	-
1088	45	14	E-14-06-AM5	AMINE REGEN. A COND.	New Mann	15	19	1500	3	H	256U/ED21A2BB	-
1089	46	14	E-14-06-AM6	AMINE REGEN. A COND.	New Mann	15	19	1500	3	H	256U/ED21A2BB	-
1090	47	14	E-14-06-AM7	AMINE REGEN. A COND.	New Mann	15	19	1500	3	H	256U/ED21A2BB	-
1091	48	14	E-14-06-AM8	AMINE REGEN. A COND.	New Mann	15	19	1500	3	H	256U/ED21A2BB	-
1092	49	14	E-14-06-AM9	AMINE REGEN. A COND.	New Mann	15	19	1500	3	H	256U/ED21A2BB	-
1093	50	14	E-14-06-AM10	AMINE REGEN. A COND.	New Mann	15	19	1500	3	H	256U/ED21A2BB	-
1094	51	14	E-14-06-BM1	AMINE REGEN. A COND.	New Mann	15	19	1500	3	H	256U/ED21A2BB	-
1095	52	14	E-14-06-BM2	AMINE REGEN. A COND.	New Mann	15	19	1500	3	H	256U/ED21A2BB	-
1096	53	14	E-14-06-BM3	AMINE REGEN. A COND.	New Mann	15	19	1500	3	H	256U/ED21A2BB	-
1097	54	14	E-14-06-BM4	AMINE REGEN. A COND.	New Mann	15	19	1500	3	H	256U/ED21A2BB	-
1098	55	14	E-14-06-BM5	AMINE REGEN. A COND.	New Mann	15	19	1500	3	H	256U/ED21A2BB	-
1099	56	14	E-14-06-BM6	AMINE REGEN. A COND.	New Mann	15	19	1500	3	H	256U/ED21A2BB	-
1100	57	14	E-14-06-BM7	AMINE REGEN. A COND.	New Mann	15	19	1500	3	H	256U/ED21A2BB	-
1101	58	14	E-14-06-BM8	AMINE REGEN. A COND.	New Mann	15	19	1500	3	H	256U/ED21A2BB	-
1102	59	14	E-14-06-BM9	AMINE REGEN. A COND.	New Mann	15	19	1500	3	H	256U/ED21A2BB	-
1103	60	14	E-14-06-BM10	AMINE REGEN. A COND.	New Mann	15	19	1500	3	H	256U/ED21A2BB	-

STATEMENT

AVAILABILITY

FIRST STATEMENT



LAST STATEMENT



LATEST STATEMENT

Block 3

UNIT #	DESCRIPTION	PROCESS LICENSORS (DESIGNER - D)	START UP YEAR	ORIGINAL DESIGN CAPACITY (BPD)	MAX. OPERATING CAP (BPD)	REMARKS
14	AMINE TREATING UNIT	FOSTER WHEELER (D)	1968	124.2 MMSCFD	124 MMSCFD	



ITEMS COMPARISON

Block 3

UNIT 14

ITEMS

FIRST STATEMENT

LATEST STATEMENT

ROTARY EQUIPMENT

P-14-01-M FRESH AMINE SUMP PUMP



Yes Unit 14 #1 ROW 1042



Yes Unit 14 #506 ROW 509

MX -14-01 AGITATOR (MIXTURE)



Yes Unit 14 #2 ROW 1043



Yes Unit 14 #538 ROW 541

P-14-03-AM/P-14-03 A, P-14-03-BM/ P-14-03 B
and P-14-03 C LP. AMINE CIRCULATING PUMP
+ P-14-03 CT TURBINE



Yes Unit 14 #3, 4 ROW 1044, 1045



Yes Unit 14 #507, 508, 509, 510
ROW 510, 511, 512, 513

P-14-04 A/P-14-04-AM, P-14-04 B, and
P-14-04 C/ P-14-04-CM FLASH GAS AMINE
PUMP + P-14-04 BT TURBINE



Yes Unit 14 #5, 6 ROW 1046, 1047



Yes Unit 14 #511, 512, 513, 514
ROW 514, 515, 516, 517

P-14-05 A/P-14-05-AM, P-14-05 B, and
P-14-05 C/ P-14-05-CM AMINE RE-GEN.
REFLUX PUMP + P-14-05 BT TURBINE



Yes Unit 14 #7,8 ROW 1048, 1049



Yes Unit 14 #515, 516, 517, 518
ROW 518, 519, 520, 521

P-14-06 A/ P-14-06-AM and P-14-06 B
AMINE REGEN FEED PUMP + P-14-06 B/BT
TURBINE



Yes Unit 14 #9 ROW 1050



Yes Unit 14 #519, 520 , 521
ROW 522, 523, 524

ITEMS COMPARISON

Block 3

UNIT 14

ITEMS

FIRST STATEMENT

LATEST STATEMENT

ROTARY EQUIPMENT

P-14-07 A/ P-14-07-AM and P-14-07 B/
P-14-07-BM WASH WATER FEED PUMP



Yes Unit 14 #10, 11 ROW 1051, 1052



Yes Unit 14 #522, 523 ROW 525, 526

P-14-08 A and P-14-08 B (P-14-08-M)
INHIBITOR INJECTION PUMP/
CHEM.INJECT.PUMP



Yes Unit 14 #12 ROW 1053



Yes Unit 14 #524, 525 ROW 527, 528

P-14-09/P-14-09-M AMINE TRANSFER PUMP



Yes Unit 14 #13 ROW 1054



Yes Unit 14 #526 ROW 529

P-14-10 A/ P-14-10-AM and P-14-10 B
BURGAN GAS AMINE PUMP (**Severe damage to
the shims,coupling& fan cover,bolts due to high
vibration**) +P-14-10 B/BT TURBINE



Yes Unit 14 #14 ROW 1055



Yes Unit 14 #527, 528, 529
ROW 530,531, 532

P-14-11 A/P-14-11-AM, P-14-11 B, P-14-11 C/ P-
14-11-CM and P-14-11 D CONDENSATE PUMP
+ P-14-11 BT/DT TURBINE



Yes Unit 14 #15,16 ROW 1056, 1057



Yes Unit 14 #530, 531, 532, 533, 534
ROW 533, 534, 535, 536, 537

ITEMS COMPARISON

Block 3

UNIT 14

ITEMS

FIRST STATEMENT

LATEST STATEMENT

ROTARY EQUIPMENT

E-14-01-M1-M24 FINFANS (LEAN AMINE AIR CLR.)



Yes Unit 14 #17-40 ROW 1059-1082



Yes Unit 14 #535 ROW 538

E-14-06A M1-M10 and E-14-06B M1-M10 (FINFANS) AMINE REGEN. A COND.



Yes Unit 14 #41-60 ROW 1084-1103



Yes Unit 14 #536, 537 ROW 539, 540

ADDITIONAL FROM THE LATEST STATIC AND PIPING

**Block 3
UNIT 14**

UNIT	Equipment Tag #	Description
14	E-14-02 A/B	Heat Exchanger
14	E-14-03 A/C	Heat Exchanger
14	E-14-03 B/D	Heat Exchanger
14	E-14-04 A/B	Heat Exchanger
14	E-14-04 C/D	Heat Exchanger
14	E-14-05	Heat Exchanger
14	E-14-07	Heat Exchanger
14	E-14-08	Heat Exchanger
14	E-14-09	Heat Exchanger
14	E-14-10 A/B	Heat Exchanger
14	E-14-01	Air cooler
14	E-14-06A	Air cooler
14	E-14-06B	Air cooler
14	E-29-03	Gas Cooler
14	E-14-101 (At site E-14-01A)	Lube Oil Cooler
14	E-14-102 (At site E-14-01B)	Lube Oil Cooler
14	E-14-103	Gland Leak Condenser

UNIT	Equipment Tag #	Description
14	V-14-01	Vessel
14	V-14-02	Vessel
14	V-14-03	Vessel
14	V-14-04 A	Vessel
14	V-14-04 B	Vessel
14	V-14-05	Vessel
14	V-14-06 A	Vessel
14	V-14-06 B	Vessel
14	V-14-07	Vessel
14	V-14-08	Vessel
14	V-14-09	Vessel
14	V-29-04	Vessel
14	V-14-10	Vessel
14	V-14-11	Vessel
14	TK-14-02	Tank
14	TK-14-101	Tank
14	TK-14-102	Tank
14	TK-14-473	Tank

ADDITIONAL FROM THE LATEST STATIC AND PIPING

**Block 3
UNIT 14**

UNIT	Equipment Tag #	Description
14	F-14-01	Filter
14	F-14-02 A&B	Charcoal Filter
14	F-14-03 A&B	Charcoal Filter
14	F-14-04	Guard filter
14	F-14-101 / 102	LO Filter
14	F-14-103/104/105/106	Seal gas filters
14	F-14-107/108	Filter
14	C-14-01 E 01 A/B	LO cooler S&T
14	C-14-01 E-02	Gland steam Condenser
14	C-14-01- EJ 01	Gland steam ejector
14	<u>DS-14-01</u>	<u>Desuperheater</u>
14	V-14-01 V1	Flash pot
14	<u>PSV</u>	50 nos
14	Other Auxiliary Equipment	



Block 3 UNIT 17 (PART)

FIRST STATEMENT

UNIT - 17 (KEROSENE MEROX UNIT)											
ELECTRICAL - LT MOTOR LIST											
1143	S.#	Unit	TAG. NO.	SERVICE	VEN.	H.P.	F.L.C.	RPM	PH.	POS.	FRAME NO.
1144	1	17	C-17-01-M	Air Compressor	W.H	25	31	1500	3	H	NC180L-4
1146	2	17	C-17-01-M	Air Compressor	CEMP	22 KW	37	1500	3	H	AB30 200L B4
1147	2	17	C-17-01B-M (No	Air Compressor	Siemens	22 KW	37	1500	3	H	
1148	3	17	C-17-01 P	Cooling water pump	SIEMENS	0.37 W	0.85	3000	3	V	IMA 70702 B A91
1149	4	17	C-17-01-P3 A	Lube oil pump	HEW	0.18KW	0.66	1396	3	V	DEX 63L / 4K
1150	5	17	C-17-01-P3 B	Lube oil pump	HEW	0.18KW	0.66	1398	3	V	
1151	6	17	P-17-01-AM		Westing House	11 KW	18	3000	3	H	NC-160M2-2
1152	7	17	P-17-01BM		Westing House	15	19	3000	3	H	NG-160M2-2
1153	8	17	P-17-02-BM		Westing House	40	49	3000	3	H	UM-200L2-2
1154	9	17	P-17-03-AM		Westing House	30	37.5	3000	3	H	UM-200L-2
1155	10	17	P-17-03-BM		Westing House	30	40	3000	3	H	UM-200L-2
1156	11	17	P-17-04-AM		Siemens	0.37 KW	0.93	3000	3	H	IMA 5070
1157	12	17	P-17-04-BM		Siemens	0.37 KW	0.93	3000	3	H	IMA 5070
1158	13	17	P-17-05		Fuji	25	29	3000	3	H	180 L

STATEMENT	AVAILABILITY
FIRST STATEMENT	
LAST STATEMENT	

LATEST STATEMENT

Block 3

UNIT #	DESCRIPTION	PROCESS LICENSORS (DESIGNER - D)	START UP YEAR	ORIGINAL DESIGN CAPACITY (BPD)	MAX. OPERATING CAP (BPD)	REMARKS
17 (PART)	KEROSENE MEROX UNIT	UOP	1968	15,000	20,000	P-17-02A – Kerosene feed Pump to be retained.



ITEMS COMPARISON

Block 3

UNIT 17

(PART)

ITEMS

FIRST STATEMENT

LATEST STATEMENT

ROTARY EQUIPMENT

C-17-01 (OLD)/ C-17-01-M and C-17-01(NEW)/
C-17-01B-M (New) AIR COMPRESSOR



Yes Unit 17 #1, 2 ROW 1146, 1147, 1148



Yes Unit 17 #566, 567 ROW 569, 570

C-17-01 P COOLING WATER PUMP



Yes Unit 17 #3 ROW 1149



Yes Unit 17 #576 ROW 579

C-17-01 P3A and C-17-01 P3B LUBE OIL PUMP



Yes Unit 17 #4,5 ROW 1150, 1151



Yes Unit 17 #577, 578 ROW 580, 581

P-17-01 A/P-17-01-AM, P-17-01 B/ P-17-01BM,
P-17-02 B/ P-17-02-BM, P-17-03 A/ P-17-03-AM,
and P-17-03 B/ P-17-03-BM MEROX UNIT
PUMP



Yes Unit 17 #6, 7, 8, 9, 10
ROW 1151, 1153, 1154, 1155, 1156



Yes Unit 17 #568, 569, 570, 571, 572
ROW 571, 572, 573, 574, 575

P-17-04 A/P-17-04-AM and P-17-04 B/
P-17-04-BM CAUSTIC INJECTION PUMP.



Yes Unit 17 #11, 12 ROW 1157, 1158



Yes Unit 17 #573, 574 ROW 576, 577

P-17-05 WASH WATER PUMP



Yes Unit 17 #13 ROW 1159



Yes Unit 17 #575 ROW 578

ADDITIONAL FROM THE LATEST STATIC AND PIPING

**Block 3
UNIT 14**

UNIT	Equipment Tag #	Description
17	TK-17-02	Drum/Tank
17	TK-17-03	Drum/Tank
17	TK-17-04	Tank
17	TK-17-05	Drum/Tank
17	V-17-01	Vessel
17	V-17-02	Vessel
17	V-17-03 A	Reactor
17	V-17-03 B	Reactor
17	V-17-04	Vessel
17	V-17-05	Vessel
17	V-17-06 A	Vessel
17	V-17-06 B/C	Vessel
17	V-17-07	Drum/Tank
17	V-17-08	Vessel
17	V-17-09	Vessel
17	V-17-10	Vessel
17	F-17-01	Filter
17	F-17-02	Filter

UNIT	Equipment Tag #	Description
17	EJ-17-01 A/B	Ejectors
17	PSVs = 20 nos	
17	C-17-01- E1	Cooler
17	C-17-01- E2	Cooler
17	C-17-01- D1	Traps
17	C-17-01- D2	Traps
17	C-17-01- D3	Traps
17	C-17-01- 03	Traps
17	V-17-09	LO Tanks
17	Other Auxiliary Equipment	

GROUP 2

BLOCK 4



ANY QUESTION?





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————— *Lifting the limits* —————