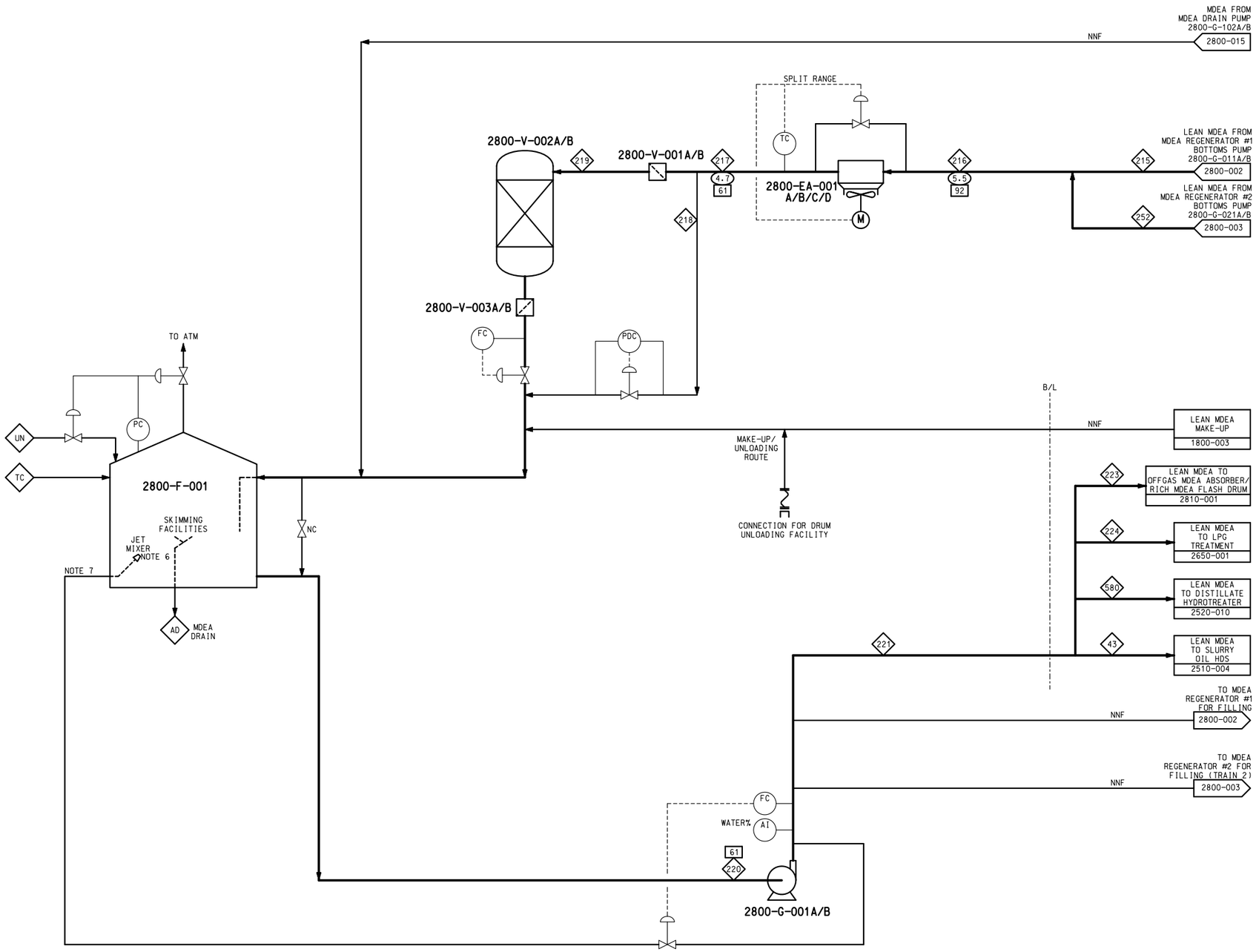
PUMPS	2800-G-001A/B LEAN MDEA CIRCULATION PUMP
FLOW (m3/h)	288
RATED (m3/h)	335
RATED ΔP kg/cm2	21.1

EXCHANGER	2800-EA-001A/B/C/D LEAN MDEA AIR COOLER
DUTY (MMkcal/h)	8.45
DESIGN	10.23
TOTAL AREA m2	1055
SHELLS	

FILTER	2800-V-001A/B LEAN MDEA MECHANICAL PRE-FILTER	2800-V-002A/B LEAN MDEA CARBON FILTER	2800-V-003A/B LEAN MDEA MECHANICAL AFTER FILTER
FLOW (m3/h)	77	46	77

TANKS	2800-F-001 LEAN MDEA STORAGE TANK
DIA x HEIGHT (mm)	12500 X 15000
GROSS VOL. m3	1840
WORKING VOL. m3	1595



STREAM NUMBER	43	215	216	217	218	219	220	221	223	224	252	580
DESCRIPTION	LEAN MDEA TO SLURRY OIL HDS LIQUID	LEAN MDEA FROM REGEN TRAIN 1 TO AIR COOLER	COMBINED LEAN MDEA TO AIR COOLER	LEAN MDEA FROM LEAN MDEA AIR COOLER	LEAN MDEA FILTER BYPASS	LEAN MDEA TO CARBON FILTER	LEAN MDEA TO LEAN MDEA CIR. PUMP	LEAN MDEA FROM UNIT 2800 TO PROCESS UNITS	LEAN MDEA TO OFF-GAS ABSORBER	LEAN MDEA TO LPG TREATMENT LIQUID	LEAN MDEA FROM REGEN TRAIN 2 TO AIR COOLER	LEAN MDEA TO DISTILLATE HYDROTREATER LIQUID
PHASE	LIQUID	LIQUID	LIQUID	LIQUID	LIQUID	LIQUID	LIQUID	LIQUID	LIQUID	LIQUID	LIQUID	LIQUID
BPSD DRY												
STD. FLOW m3/h (LIQ)/Nm3/h (VAP)	59	144	289	289	217	72	289	289	53	22.5	144	160
FLOW kg/h	59700	146753	293507	293507	220130	73377	293507	293507	54000	23500	146753	162387
SP GR (LIQ) OR MW (VAP)	1.02	0.997	0.997	1.02	1.02	1.02	1.02	1.02	1.02	1.02	0.997	1.02
FLOW @ COND m3/h	59	147	294	288	216	72	288	288	53	23	147	159
DENSITY @ COND kg/m3	1019	997	997	1019	1019	1019	1019	1020	1020	1020	997	1020
VISCOSITY cP	1.9	0.96	0.96	1.9	1.9	1.9	1.9	1.9	1.9	1.9	0.96	1.9
WATER kg/h												

GENERAL NOTES:

1. FOR LEGENDS REFER TO DRAWING No.5636-9000-PRP-D-001 PROCESS FLOW DIAGRAM LEGEND SHEET.
2. REFER TO HEAT AND MATERIAL BALANCE, DOC. NO. 5636-2800-PRP-002 FOR DETAIL DATA STREAM.

NOTES:

3. DELETED.
4. STREAM DATA IS FOR NORMAL OPERATING CASE. DESIGN FLOW RATE IS 308m3/h (STD/VOL) FOR ALL COMMON SYSTEM AND 168m3/h (STD/VOL) FOR EACH REGENERATOR TRAIN.
5. DELETED.
6. SKIMMING FACILITIES ARE INSTALLED FOR MINIMIZATION OF HYDROCARBON LIQUID PRESENCE IN LEAN MDEA.
7. PUMP 2800-G-001A/B SPILL BACK WILL BE USED FOR PREPARING MDEA SOLUTION DURING START-UP JET MIXER MINIMUM DESIGN FLOW SHALL BE CONSIDERED WHILE DESIGNING THE PUMP SPILL BACK LINE.
8. DELETED.

HOLD LIST:

1. DELETED.

PROCESS DATA SYMBOLS

- PRESSURE, Kg/cm2g
- TEMPERATURE, ?C
- STREAM NUMBER

REV.	DATE	DESCRIPTION	PRED	CHKD	REVD	APPRD	COMPANY
1	28/05/18	ISSUED FOR AS-BUILT	JWL	SRK	WGK	JYL	
0	16/05/13	ISSUED FOR CONSTRUCTION	JGJ	MHL	WGK	WIK	
C	19/04/13	ISSUED FOR APPROVAL	JGJ	MHL	WGK	WIK	
B	14/12/12	ISSUED FOR APPROVAL	JGJ	MHL	WGK	WIK	
A	28/09/12	ISSUED FOR REVIEW AND COMMENT	JGJ	MHL	WGK/LJJ	WIK	

DRAWN: CHECKED: SCALE:

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ABU DHABI OIL REFINING COMPANY — شركة أبوظبي لتكرير النفط

SAMSUNG ENGINEERING CO., LTD. — SAMSUNG ENGINEERING

SAMSUNG JOB No. : S02542

PROJECT No. : 5636
AGREEMENT No. : 11-5636-E-1

PROJECT TITLE: CARBON BLACK AND DELAYED COKER PROJECT

DRAWING TITLE: PROCESS FLOW DIAGRAM
MDEA REGENERATION UNIT
LEAN MDEA STORAGE - NORMAL CASE

DRAWING NO. 5636-2800-PRP-D-001

SHEET NO. 1 OF 1 | REVISION 1 | SHEET SIZE A1