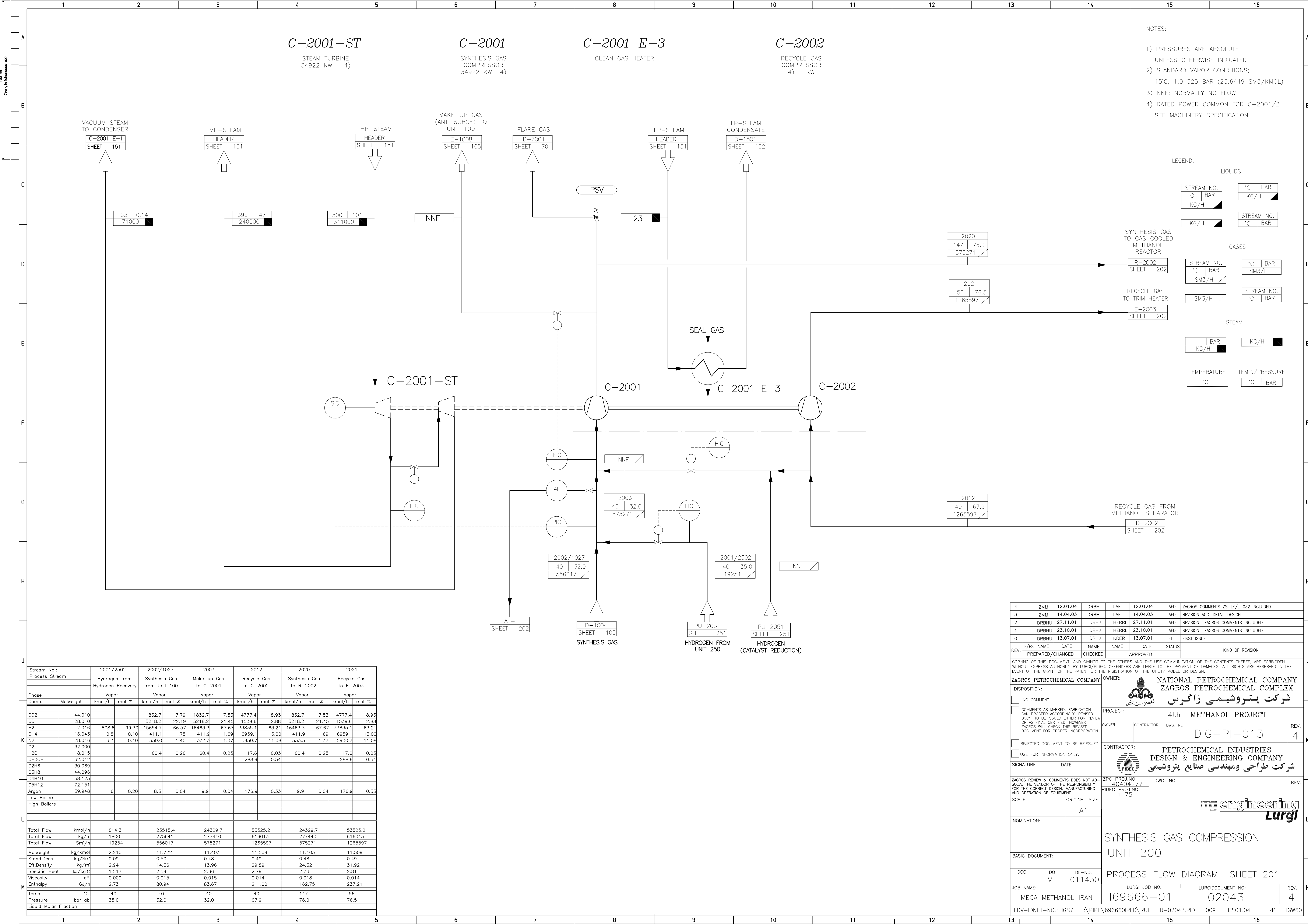




- NOTES:
- 1) PRESSURES ARE ABSOLUTE
UNLESS OTHERWISE INDICATED
 - 2) STANDARD VAPOR CONDITIONS:
15°C, 1.01325 BAR (23.6449 SM3/KMOL)
 - 3) NNF: NORMALLY NO FLOW
 - 4) RATED POWER COMMON FOR C-2001/2
SEE MACHINERY SPECIFICATION

LEGEND;

LIQUIDS

STREAM NO.	°C	BAR
°C	BAR	
KG/H		

GASES

STREAM NO.	°C	BAR
°C	BAR	
SM3/H		

STEAM

BAR	KG/H
KG/H	

TEMPERATURE

°C

TEMP./PRESSURE

°C	BAR
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Stream No.:	2001/2502		2002/1027		2003		2012		2020		2021				
Process Stream	Hydrogen from Hydrogen Recovery				Synthesis Gas from Unit 100		Make-up Gas to C-2001		Recycle Gas to C-2002		Synthesis Gas to R-2002		Recycle Gas to E-2003		
Phase	Vapor				Vapor		Vapor		Vapor		Vapor		Vapor		
Comp.	Molweight	kmol/h	mol %	kmol/h	mol %	kmol/h	mol %	kmol/h	mol %	kmol/h	mol %	kmol/h	mol %	kmol/h	mol %
C02	44.010			1832.7	7.79	1832.7	7.53	4777.4	8.93	1832.7	7.53	4777.4	8.93		
C0	28.010			5218.2	22.19	5218.2	21.45	1539.6	2.88	5218.2	21.45	1539.6	2.88		
H2	2.016	808.6	99.30	15654.7	66.57	16463.3	67.67	33835.1	63.21	16463.3	67.67	33835.1	63.21		
CH4	16.043	0.8	0.10	411.1	1.75	411.9	1.69	6959.1	13.00	411.9	1.69	6959.1	13.00		
N2	28.016	3.3	0.40	330.0	1.40	333.3	1.37	5930.7	11.08	333.3	1.37	5930.7	11.08		
O2	32.000														
H2O	18.015			60.4	0.26	60.4	0.25	17.6	0.03	60.4	0.25	17.6	0.03		
CH3OH	32.042							288.9	0.54			288.9	0.54		
C2H6	30.069														
C3H8	44.096														
C4H10	58.123														
C5H12	72.151														
Argon	39.948	1.6	0.20	8.3	0.04	9.9	0.04	176.9	0.33	9.9	0.04	176.9	0.33		
Low Boilers															
High Boilers															
Total Flow	kmol/h	814.3		23515.4		24329.7		53525.2		24329.7		53525.2			
Total Flow	kg/h	1800		275641		277440		616013		277440		616013			
Total Flow	Sm³/h	19254		556017		575271		1265597		575271		1265597			
Molweight	kg/kmol	2.210		11.722		11.403		11.509		11.403		11.509			
Stand.Dens.	kg/Sm³	0.09		0.50		0.48		0.49		0.48		0.49			
Eff.Density	kg/m³	2.94		14.36		13.96		29.89		24.32		31.92			
Specific Heat	kJ/kg°C	13.17		2.59		2.66		2.79		2.73		2.81			
Viscosity	cP	0.009		0.015		0.015		0.014		0.018		0.014			
Enthalpy	GJ/h	2.73		80.94		83.67		211.00		162.75		237.21			
Temp.	°C	40		40		40		40		147		56			
Pressure	bar ab	35.0		32.0		32.0		67.9		76.0		76.5			
Liquid Molar Fraction															

4	ZMM	12.01.04	DRBHU	LAE	12.01.04	AFD	ZAGROS COMMENTS ZS-LF/L-032 INCLUDED
3	ZMM	14.04.03	DRBHU	LAE	14.04.03	AFD	REVISION ACC. DETAIL DESIGN
2	DRBHU	27.11.01	DRHJ	HERRL	27.11.01	AFD	REVISION ZAGROS COMMENTS INCLUDED
1	DRBHU	23.10.01	DRHJ	HERRL	23.10.01	AFD	REVISION ZAGROS COMMENTS INCLUDED
0	DRBHU	13.07.01	DRHJ	KRER	13.07.01	FI	FIRST ISSUE
REV.	LF/PS	NAME	DATE	NAME	DATE	STATUS	KIND OF REVISION
		PREPARED/CHANGED	CHECKED		APPROVED		
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SCALE: ORIGINAL SIZE: A1				engineering Lurgi			
NOMINATION:				SYNTHESIS GAS COMPRESSION UNIT 200			
BASIC DOCUMENT:				PROCESS FLOW DIAGRAM SHEET 201			
DCC DG DL-NO. VT 011430				LURGI JOB NO. 169666-01 LURGI DOCUMENT NO. 02043 REV. 4			
JOB NAME: MEGA METHANOL IRAN				EDV-IDNET-NO.: IGS7 E:\PIPE\696660\PFDF\RU D-02043.PID 009 12.01.04 RP IGW60			