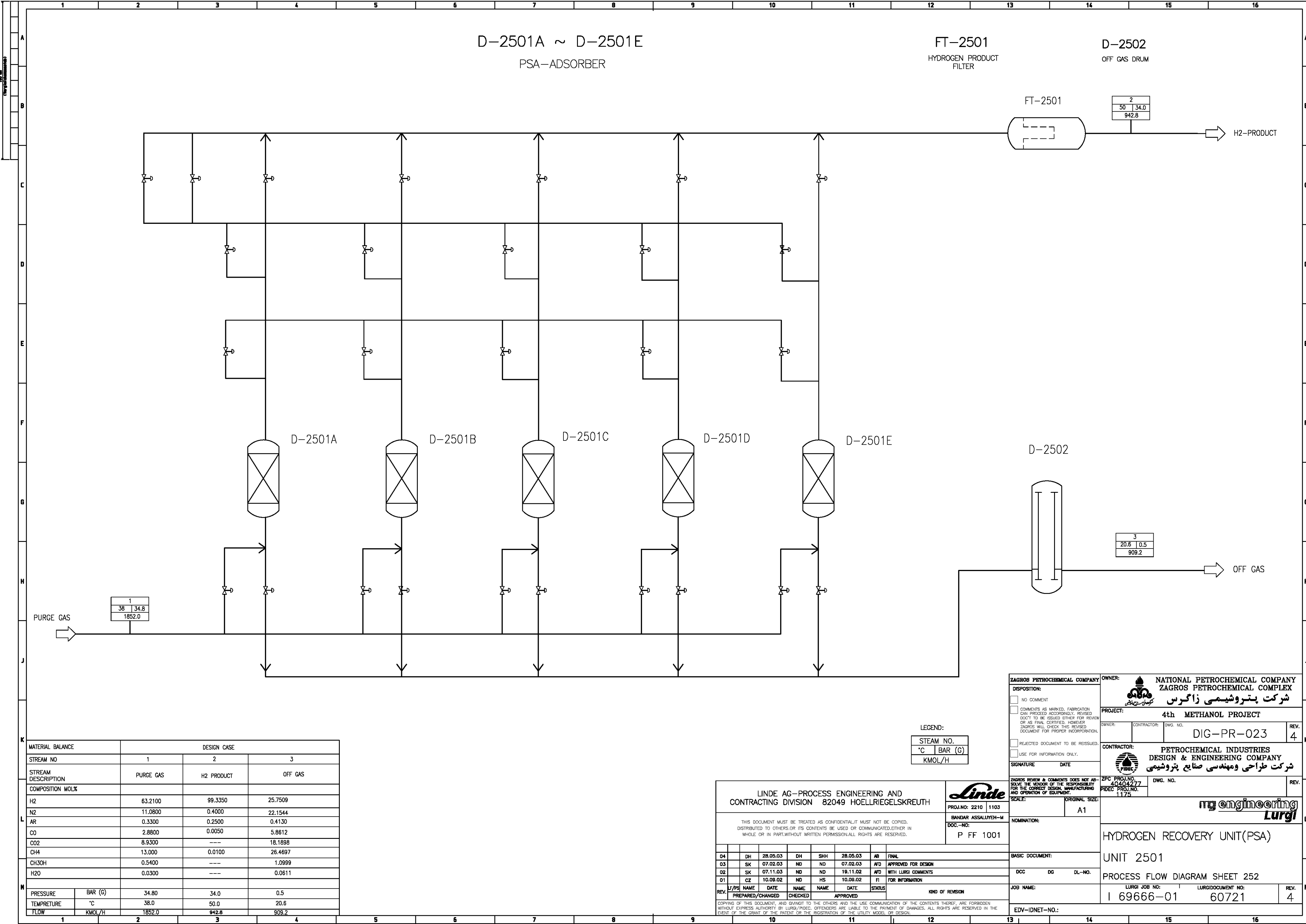




D-2501A ~ D-2501E

PSA-ADSORBER

FT-2501

HYDROGEN PRODUCT
FILTER

D-2502

OFF GAS DRUM

FT-2501

2
50 34.0
942.8

H2-PRODUCT

D-2501A

D-2501B

D-2501C

D-2501D

D-2501E

D-2502

3
20.6 0.5
909.2

OFF GAS

PURGE GAS

1
38 34.8
1852.0

LEGEND:

STEAM NO.
°C BAR (G)
KMOL/H

MATERIAL BALANCE		DESIGN CASE		
STREAM NO		1	2	3
STREAM DESCRIPTION		PURGE GAS	H2 PRODUCT	OFF GAS
COMPOSITION MOL%				
H2		63.2100	99.3350	25.7509
N2		11.0800	0.4000	22.1544
AR		0.3300	0.2500	0.4130
CO		2.8800	0.0050	5.8612
CO2		8.9300	---	18.1898
CH4		13.000	0.0100	26.4697
CH3OH		0.5400	---	1.0999
H2O		0.0300	---	0.0611
W				
PRESSURE	BAR (G)	34.80	34.0	0.5
TEMPRETURE	°C	38.0	50.0	20.6
FLOW	KMOL/H	1852.0	942.8	909.2

LINDE AG-PROCESS ENGINEERING AND CONTRACTING DIVISION 82049 HOELLRIEGELSKREUTH								
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							BANDAR ASSALUYEH-M	
							DOC.-NO:	
							P FF 1001	
04	DH	28.05.03	DH	SHH	28.05.03	AB	FINAL	
03	SK	07.02.03	ND	ND	07.02.03	AFD	APPROVED FOR DESIGN	
02	SK	07.11.03	ND	ND	19.11.02	AFD	WITH LURGI COMMENTS	
01	CZ	10.09.02	ND	HS	10.09.02	FI	FOR INFORMATION	
REV.	LF/PS	NAME	DATE	NAME	DATE	STATUS	KIND OF REVISION	
	PREPARED/CHANGED		CHECKED	APPROVED				
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DISPOSITION:		PROJECT: 4th METHANOL PROJECT	
☐ NO COMMENT		OWNER: CONTRACTOR: DWG. NO. DIG-PR-023	
☐ COMMENTS AS MARKED. FABRICATION CAN PROCEED ACCORDINGLY. REVISED "DOC" TO BE ISSUED EITHER FOR REVIEW OR AS FINAL CERTIFIED. HOWEVER ZAGROS WILL CHECK THIS REVISED DOCUMENT FOR PROPER INCORPORATION.		CONTRACTOR: PETROCHEMICAL INDUSTRIES DESIGN & ENGINEERING COMPANY	
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NOMINATION:		HYDROGEN RECOVERY UNIT(PSA)	
BASIC DOCUMENT:		UNIT 2501	
DCC DG DL-NO.		PROCESS FLOW DIAGRAM SHEET 252	
JOB NAME:		LURGI JOB NO: I 69666-01	
EDV-IDNET-NO.:		LURGI DOCUMENT NO: 60721	
		REV. 4	