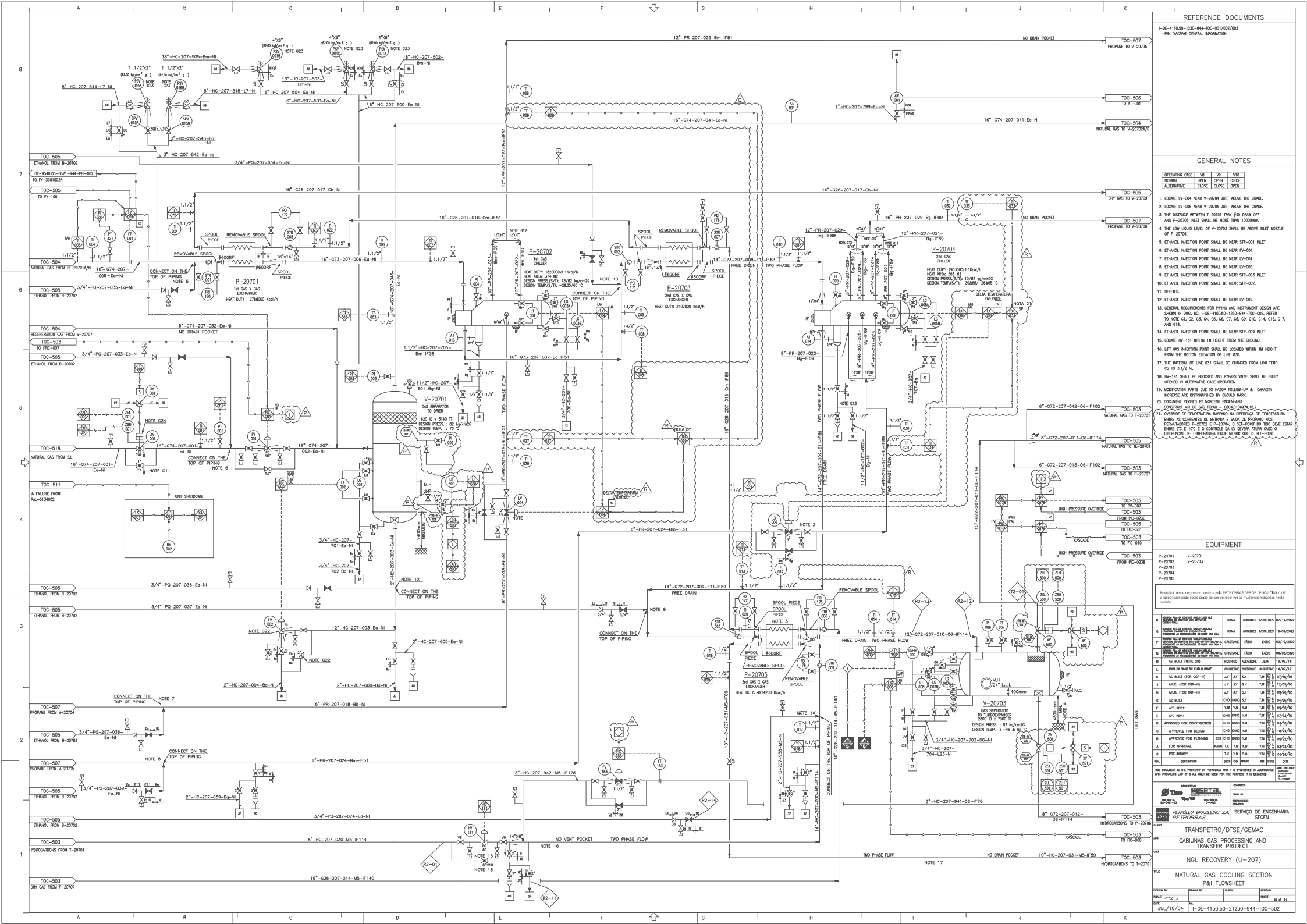

REFERENCE DOCUMENTS

I-DE-4150.50-1230-944-TOC-001/002/003
-P&I DIAGRAM-GENERAL INFORMATION

GENERAL NOTES

OPERATING CASE	V8	V9	V10
NORMAL	OPEN	OPEN	CLOSE
ALTERNATIVE	CLOSE	CLOSE	OPEN

1. LOCATE LV-004 NEAR V-20704 JUST ABOVE THE GRADE.
2. LOCATE LV-006 NEAR V-20705 JUST ABOVE THE GRADE.
3. THE DISTANCE BETWEEN T-20701 TRAY #40 DRAW OFF AND P-20705 INLET SHALL BE MORE THAN 10000mm.
4. THE LOW LIQUID LEVEL OF V-20703 SHALL BE ABOVE INLET NOZZLE OF P-20706.
5. ETHANOL INJECTION POINT SHALL BE NEAR STR-001 INLET.
6. ETHANOL INJECTION POINT SHALL BE NEAR FV-001.
7. ETHANOL INJECTION POINT SHALL BE NEAR LV-004.
8. ETHANOL INJECTION POINT SHALL BE NEAR LV-006.
9. ETHANOL INJECTION POINT SHALL BE NEAR STR-003 INLET.
10. ETHANOL INJECTION POINT SHALL BE NEAR STR-002.
11. DELETED.
12. ETHANOL INJECTION POINT SHALL BE NEAR LV-002.
13. GENERAL REQUIREMENTS FOR PIPING AND INSTRUMENT DESIGN ARE SHOWN IN DWG. NO. I-DE-4150.50-1230-944-TOC-002. REFER TO NOTE G1, G2, G3, G4, G5, G6, G7, G8, G9, G10, G14, G16, G17, AND G18.
14. ETHANOL INJECTION POINT SHALL BE NEAR STR-009 INLET.
15. LOCATE HV-181 WITHIN 1M HEIGHT FROM THE GROUND.
16. LIFT GAS INJECTION POINT SHALL BE LOCATED WITHIN 1M HEIGHT FROM THE BOTTOM ELEVATION OF LINE 030.
17. THE MATERIAL OF LINE 031 SHALL BE CHANGED FROM LOW TEMP. CS TO 3.1/2 Ni.
18. HV-181 SHALL BE BLOCKED AND BYPASS VALVE SHALL BE FULLY OPENED IN ALTERNATIVE CASE OPERATION.
19. MODIFICATION PARTS DUE TO HAZOP FOLLOW-UP & CAPACITY INCREASE ARE DISTINGUISHED BY CLOUD MARK.
20. DOCUMENT REVISED BY NORTENG ENGENHARIA CONSTRUCT MOI DE GÁS TEZAU – 0804.0110874.18.2
21. OVERRIDE DE TEMPERATURA BASEADO NA DIFERENÇA DE TEMPERATURA ENTRE AS CORRENTES DE ENTRADA E SAÍDA DE PROPANO NOS PERMUTADORES P- 20702 E P-20704. O SET-POINT DO TDIC DEVE ESTAR ENTRE 2°C E 10°C E O CONTROLE DA LV DEVERÁ ATUAR CASO O DIFERENCIAL DE TEMPERATURA FIQUE MENOR QUE O SET-POINT.

EQUIPMENT

P-20701 V-20701
P-20702 V-20703
P-20703
P-20704
P-20705

Revisão I, deste documento emitida pela PETROBRAS / PPGE / ENG / CUT / DT. A responsabilidade desse órgão revisor se restringe às mudanças indicadas nesta revisão.

REV.	DESCRIPTION	DESIGN	CHK	APPROV.	PM	ISSUE	DATE
R	REVISADO PELA OP CONFORME SOLICITAÇÃO FAX CONFORME DE-4150/2021 2001-427/2021RE. CONFORME TABELA		ERIANA	IVONILDES	IVONILDES	07/11/2022
Q	REVISADO PELA OP CONFORME SOLICITAÇÃO FAX CONFORME DE-4150/2021 2001-427/2021RE. ATENDENDO AO RECOMENDAÇÃO DO HAZOP 0804		ERIANA	IVONILDES	IVONILDES	19/09/2022
P	REVISADO PELA OP CONFORME SOLICITAÇÃO DE-PE-4150/0214 2001-PEC-PEC-001/2020/001, ATENDENDO AO RECOMENDAÇÃO DO HAZOP 0804		CRISTIANE	FABIO	FABIO	02/10/2020
N	REVISADO PELA OP CONFORME SOLICITAÇÃO FAX CONFORME DE-4150/2019 2001-426-427-PEC-001/2019/001, ATENDENDO AO RECOMENDAÇÃO DO HAZOP 0804		CRISTIANE	FABIO	FABIO	04/08/2020
M	AS BUILT (NOTE 20)		RODRIGO	ALEXANDRE	JEAN	19/09/18
L	REMOVIDA NOTA "DRE AS-BUILT"		GUILHERME	CHENRIQUE	GUILHERME	14/07/17
K	AS BUILT (FOR CGP-H)		J.Y	J.Y	S.Y	07/16/04
J	A.F.C. (FOR CGP-H)		J.Y	J.Y	S.Y	12/08/03
H	A.F.D. (FOR CGP-H)		J.Y	J.Y	S.Y	09/06/03
G	AS BUILT		CHO	KANG	S.Y	04/05/03
F	AFC REV.2		Y.M	Y.M	T.M	09/03/02
E	AFC REV.1		CHO	KANG	Y.M	07/02/02
D	APPROVED FOR CONSTRUCTION		CHO	KANG	Y.M	03/05/01
C	APPROVED FOR DESIGN		CHO	KANG	Y.M	10/31/00
B	APPROVED FOR PLANNING		SSS	CHO	KANG	Y.M	09/22/00
A	FOR APPROVAL		KANG	T.K	Y.M	Y.W	03/31/00
0	PRELIMINARY			T.K	Y.M	S.O	01/28/00

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CONSORTIUM: SERGEN – SERVIÇO DE ENGENHARIA SEGEN LTDA. – RIO DE JANEIRO – RJ – BRASIL
CONTRACTS: 1000 HP1
RESPONSIBLE/RESPONSÁVEL:
CLIENT: PETRÓLEO BRASILEIRO S.A. PETROBRAS
SERVIÇO DE ENGENHARIA SEGEN
JOB: TRANSPETRO/DTSE/GEMAC
CABIUNAS GAS PROCESSING AND TRANSFER PROJECT
UNIT: NGL RECOVERY (U-207)
TITLE: NATURAL GAS COOLING SECTION P&I FLOWSHEET

DESIGN BY	DRAWN BY	CHECK	APPROVAL

SCALE: —
SHEET: 01 of 01
DATE: JUL/16/04
No.: I-DE-4150.50-21230-944-TOC-502