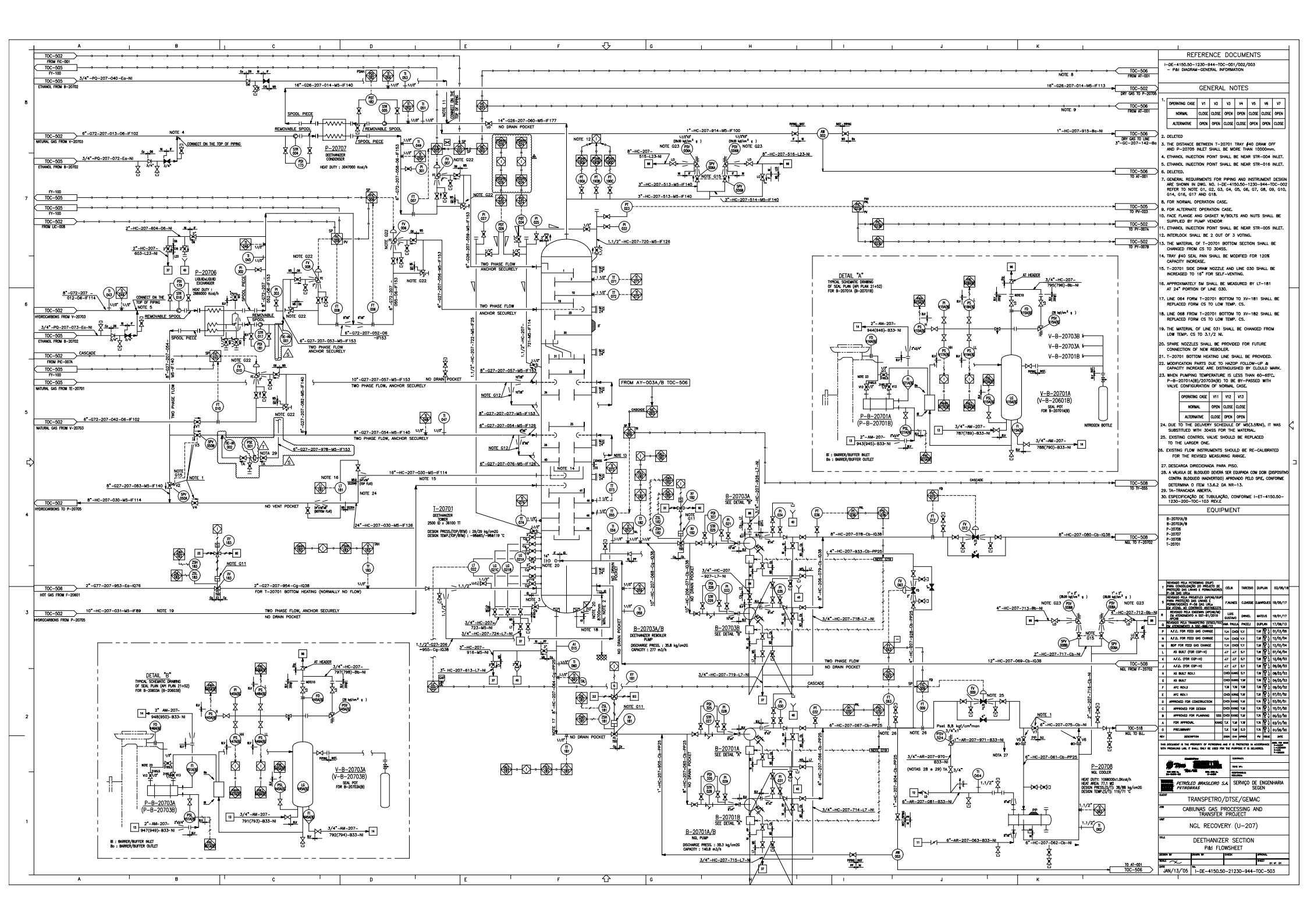

REFERENCE DOCUMENTS

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

GENERAL NOTES

1.

OPERATING CASE	V1	V2	V3	V4	V5	V6	V7
NORMAL	CLOSE	CLOSE	OPEN	OPEN	CLOSE	CLOSE	OPEN
ALTERNATIVE	OPEN	OPEN	CLOSE	CLOSE	OPEN	OPEN	CLOSE

2. DELETED
3. THE DISTANCE BETWEEN T-20701 TRAY #40 DRAW OFF AND P-20705 INLET SHALL BE MORE THAN 10000mm.
4. ETHANOL INJECTION POINT SHALL BE NEAR STR-004 INLET.
5. ETHANOL INJECTION POINT SHALL BE NEAR STR-016 INLET.
6. DELETED.
7. GENERAL REQUIRMENTS 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.
8. FOR NORMAL OPERATION CASE.
9. FOR ALTERNATE OPERATION CASE.
10. FACE FLANGE ANG GASKET W/BOLTS AND NUTS SHALL BE SUPPLIED BY PUMP VENDOR
11. ETHANOL INJECTION POINT SHALL BE NEAR STR-005 INLET.
12. INTERLOCK SHALL BE 2 OUT OF 3 VOTING.
13. THE MATERIAL OF T-20701 BOTTOM SECTION SHALL BE CHANGED FROM CS TO 304SS.
14. TRAY #40 SEAL PAN SHALL BE MODIFIED FOR 120% CAPACITY INCREASE.
15. T-20701 SIDE DRAW NOZZLE AND LINE 030 SHALL BE INCREASED TO 16" FOR SELF-VENTING.
16. APPROXIMATELY 5M SHALL BE MEASURED BY LT-181 AT 24" PORTION OF LINE 030.
17. LINE 064 FORM T-20701 BOTTOM TO XV-181 SHALL BE REPLACED FORM CS TO LOW TEMP. CS.
18. LINE 068 FROM T-20701 BOTTOM TO XV-182 SHALL BE REPLACED FORM CS TO LOW TEMP. CS.
19. THE MATERIAL OF LINE 031 SHALL BE CHANGED FROM LOW TEMP. CS TO 3.1/2 Ni.
20. SPARE NOZZLES SHALL BE PROVIDED FOR FUTURE CONNECTION OF NEW REBOILER.
21. T-20701 BOTTOM HEATING LINE SHALL BE PROVIDED.
22. MODIFICATION PARTS DUE TO HAZOP FOLLOW-UP & CAPACITY INCREASE ARE DISTINGUISHED BY CLOULD MARK.
23. WHEN PUMPING TEMPERATURE IS LESS THAN 60~65°C, P-B-20701A(B)/20703A(B) TO BE BY-PASSED WITH VALVE CONFIGURATION OF NORMAL CASE.

OPERATING CASE	V11	V12	V13
NORMAL	OPEN	CLOSE	CLOSE
ALTERNATIVE	CLOSE	OPEN	OPEN

24. DUE TO THE DELIVERY SCHEDULE OF MS(3.5MM), IT WAS SUBSTITUED WITH 304SS FOR THE MATERIAL.
25. EXISTING CONTROL VALVE SHOULD BE REPLACED TO THE LARGER ONE.
26. EXISTING FLOW INSTRUMENTS SHOULD BE RE-CALIBRATED FOR THE REVISED MEASURING RANGE.
27. DESCARGA DIRECIONADA PARA PISO.
28. A VÁLVULA DE BLOQUEIO DEVERÁ SER EQUIPADA COM DOR (DISPOSITIVO CONTRA BLOQUEIO INADVERTIDO) APROVADO PELO SPIE, CONFORME DETERMINA O ITEM 13.6.2 DA NR-13.
29. TA-TRANCADA ABERTA.
30. ESPECIFICAÇÃO DE TUBULAÇÃO, CONFORME I-ET-4150.50-1230-200-TOC-103 REV.E

EQUIPMENT

B-20701A/B
B-20703A/B
P-20706
P-20707
P-20708
T-20701

REV	DESCRIPTION	DSGN	CHK	APPRV	PR	ISSUE	DATE
T	REVISADO PELA PETROBRAS (DSUP) PARA CONSOLIDAÇÃO DO PROJETO DE PROTEÇÃO DAS LINHAS E PERMUTADORES P-08 DAS UGNs	CELIA	TARCISIO	DUPLIM	03/06/18
S	REVISADO PELA PROJEFLEX (APCHA/DSUP) PARA INCLUSÃO DAS LINHAS E PERMUTADORES P-08 DAS UGNs EM ATENDIMENTO AO CONTRATO 4507/803335.	F.NUNES	C.JASSIE	G.MARQUES	18/05/17
R	REVISADO PELA EXCELSIOR (APCHA/NE) EM ATENDIMENTO A RET-01/2016	LUIS GUSTAVO	DANIEL	MATEUS	19/01/17
Q	REVISADO PELA TRANSPETRO (STDEC/TEC) EM ATENDIMENTO A SEI-080/13	ANA PAULA	PADEL	DUPLIM	17/09/13
P	A.F.C. FOR FEED GAS CHANGE				01/11/05
N	A.F.C. FOR FEED GAS CHANGE				12/10/04
M	BDP FOR FEED GAS CHANGE				12/10/04
L	AS BUILT (FOR COP-H)				07/10/04
K	A.F.C. (FOR COP-H)				12/08/03
J	A.F.C. (FOR COP-H)				09/06/03
H	AS BUILT REV.1				08/03/03
G	AS BUILT				04/03/03
F	AFC REV.2				09/05/02
E	AFC REV.1				07/01/02
D	APPROVED FOR CONSTRUCTION				03/01/01
C	APPROVED FOR DESIGN				10/01/00
B	APPROVED FOR PLANNING				05/01/00
A	FOR APPROVAL				03/01/00
0	PRELIMINARY				01/08/00

THIS DOCUMENT IS THE PROPERTY OF PETROBRAS AND IT IS PROTECTED IN ACCORDANCE WITH PREVAILING LAW. IT SHALL ONLY BE USED FOR THE PURPOSE IT IS DELIVERED.

CONTRACT	
PETRÓLEO BRASILEIRO S.A. PETROBRAS	SERVIÇO DE ENGENHARIA SEGEN
CLIENT	TRANSPETRO/DTSE/GEMAC
JOB	CABIUNAS GAS PROCESSING AND TRANSFER PROJECT
UNIT	NGL RECOVERY (U-027)
TITLE	DEETHANIZER SECTION P&I FLOWSHEET
DESIGN BY	T.K.
DRAWN BY	T.J.M.
CHECK	S.O.
APPROVAL	Y.H.
SCALE	NONE
SHEET	01 of 01
DATE	JAN/13/'05
No.	I-DE-4150.50-21230-944-TOC-503