

50-X-101
FEED EFFLUENT
EXCHANGER

50-X-102
FEED HEATER

50-V-110
FEED HEATER
CONDENSATE POT

50-W-101A/B
DRYER VESSEL

50-X-103
REGENERATION COOLER

50-V-103
REGENERATION
SEPARATOR

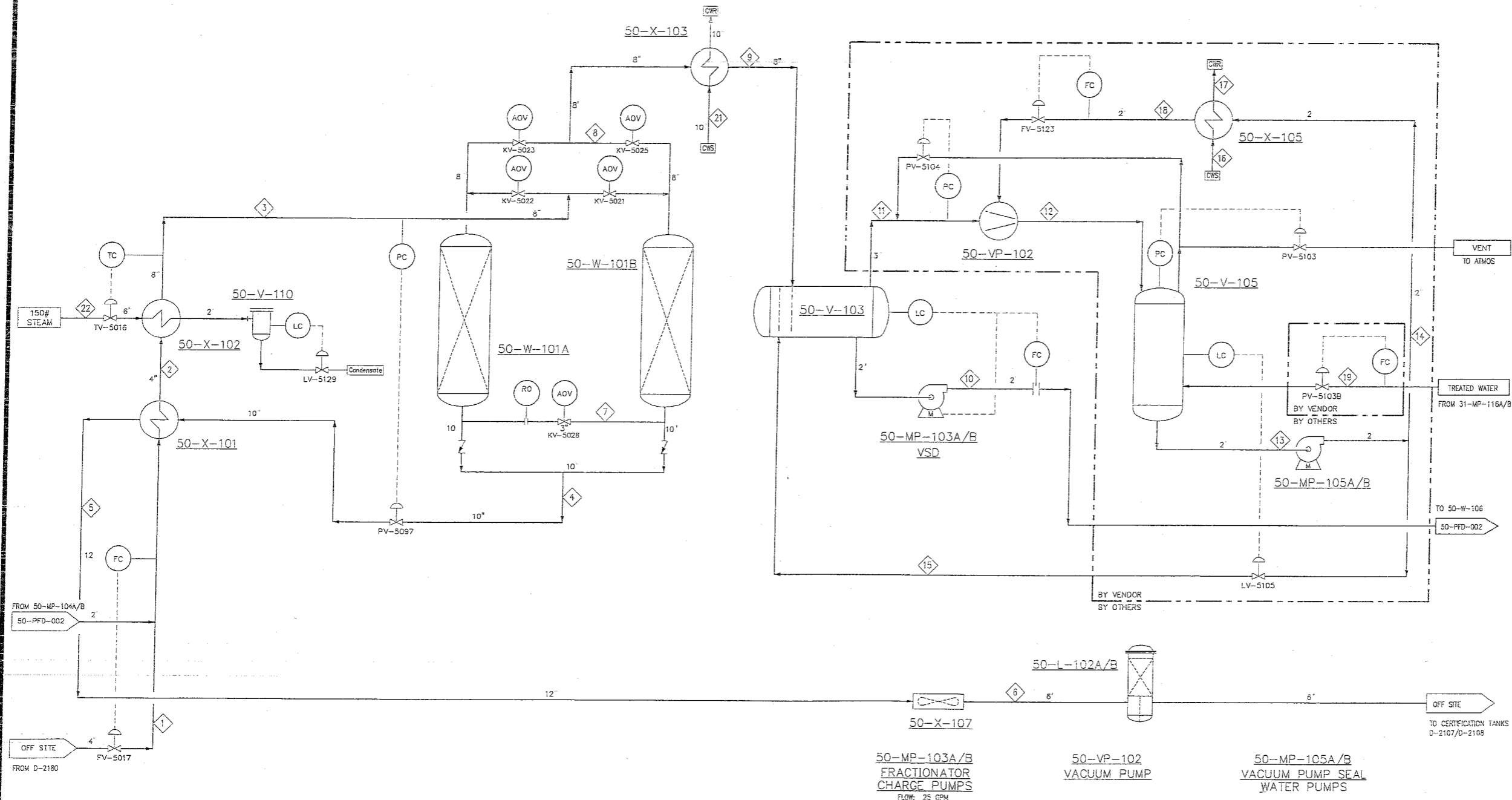
50-X-107
DRY ETHANOL
CONDENSER

50-L-102A/B
DRY ETHANOL
FILTER

50-V-105
VACUUM PUMP
SEPARATOR

50-X-105
VACUUM PUMP SEAL
FLUID COOLER

GENERAL NOTES



REFERENCE NOTES

A	ISSUED FOR DESIGN	5-17-04	BDS	MAG	ROG
NO.	REVISIONS	DATE	BY	ICH'D	APP'D
CHEVRONTExACO REFINERIA PANAMA S.A. PENINSULA PAYARDI, COLON, PANAMA					
PROCESS FLOW DIAGRAM ETHANOL DEHYDRATION UNIT VAPOR PHASE					
DRAWN BY: B.SMITH			DATE: 4/05/04		
FILE: 0050PFD001.dwg			SCALE: NONE		
DWG NO. 50-PFD-001					REV. A

DISCIPLINE: PFD
SERVICE: ETHANOL
EQUIPMENT:
COMMENTS:

50-V-111
ETHANOL FEED VAPOR
CONDENSATE POT

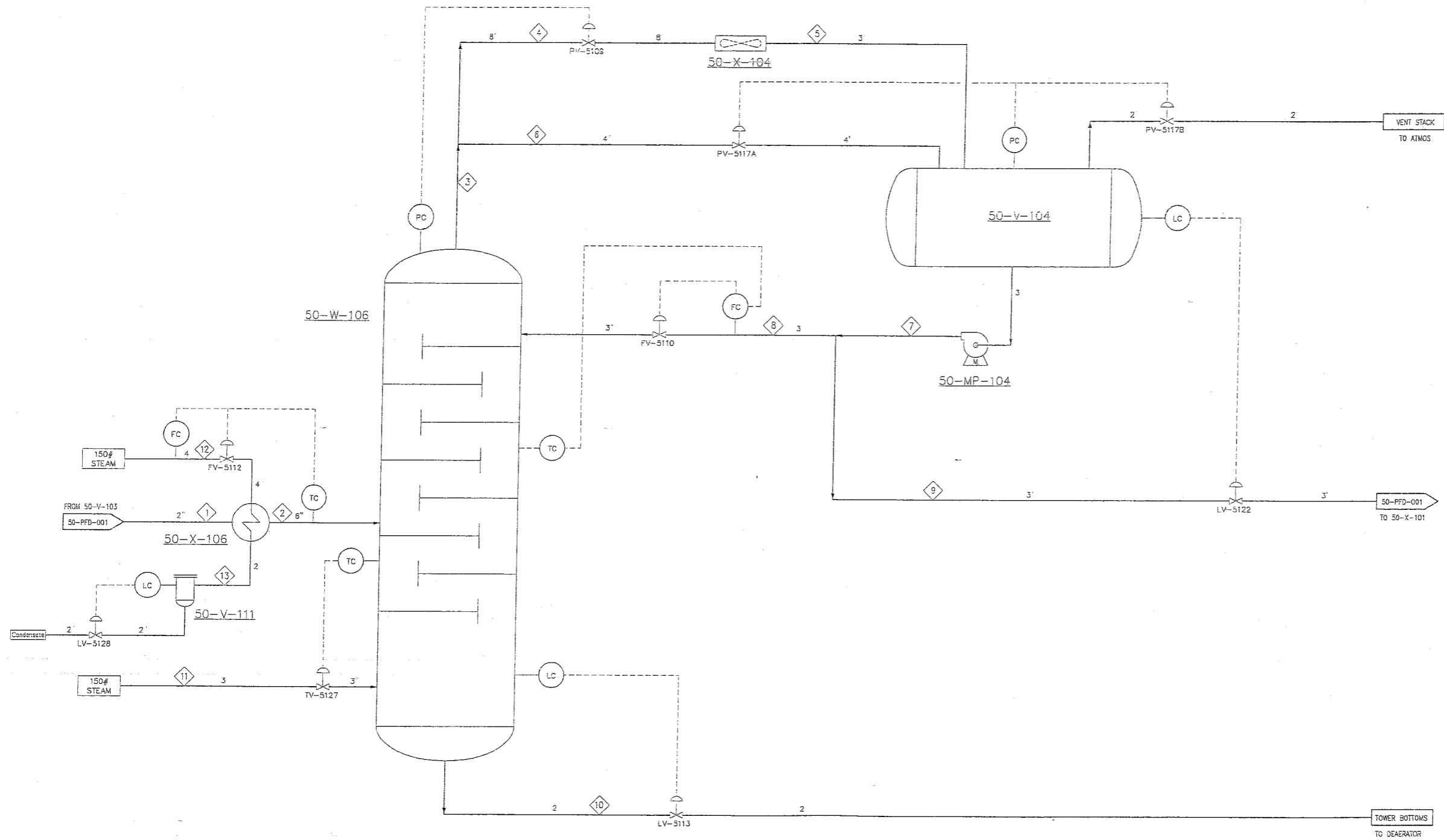
50-X-106
ETHANOL FEED
VAPORIZER

50-W-106
FRACTIONATOR

50-X-104
FRACTIONATOR OVHD
CONDENSER

50-V-104
FRACTIONATOR OVHD
ACCUMULATOR

GENERAL NOTES



50-MP-104
FRACTIONATOR OVHD
PUMP

REFERENCE NOTES

A ISSUED FOR DESIGN 5-17-04 BDS | MAG | RDG
NO. REVISIONS DATE BY ICH'DJAPP'D

CHEVRONTXACO
REFINERIA PANAMA S.A.
PENINSULA PAYARDI, COLON, PANAMA

PROCESS FLOW DIAGRAM
ETHANOL DEHYDRATION UNIT
VAPOR PHASE

DRAWN BY: B.SMITH DATE: 4/05/04
FILE: 0050PFD002.dwg SCALE: NONE

DWG NO. 50-PFD-002 REV A

DISCIPLINE Piping
SERVICE Ethanol
EQUIPMENT
COMMENTS