

50034819



CONFIDENTIAL AND PROPRIETARY DATA:

[illegible]

PRIMARY PROCESS LINE

GENERAL CONTROL SIGNAL

HEAT AND MASS BALANCE POINT

TERMINATION OR TIE-IN POINT

PIPE CONTINUES ON ANOTHER SHEET OF THIS DRAWING

PIPE CONTINUES ON ANOTHER DRAWING (CLIENT/VENDOR)

HOSE FITTING

GENERAL VALVE

CHECK VALVE

CONTROL VALVE

SELF-CONTAINED CONTROL VALVE

OPEN/SHUT AUTO VALVES

BELLOWS VALVE

FOUR WAY MANUAL VALVE

FOUR WAY CONTROL VALVE

FOUR WAY ON/OFF VALVE

THREE WAY MANUAL VALVE

THREE WAY CONTROL VALVE

THREE WAY ON/OFF VALVE

INLET GUIDE VANE

DESIGN CIRCUIT CHANGE DEMARCATION

ANALYSER SAMPLE POINT

INSTRUMENTS

LOW SELECTOR RELAY

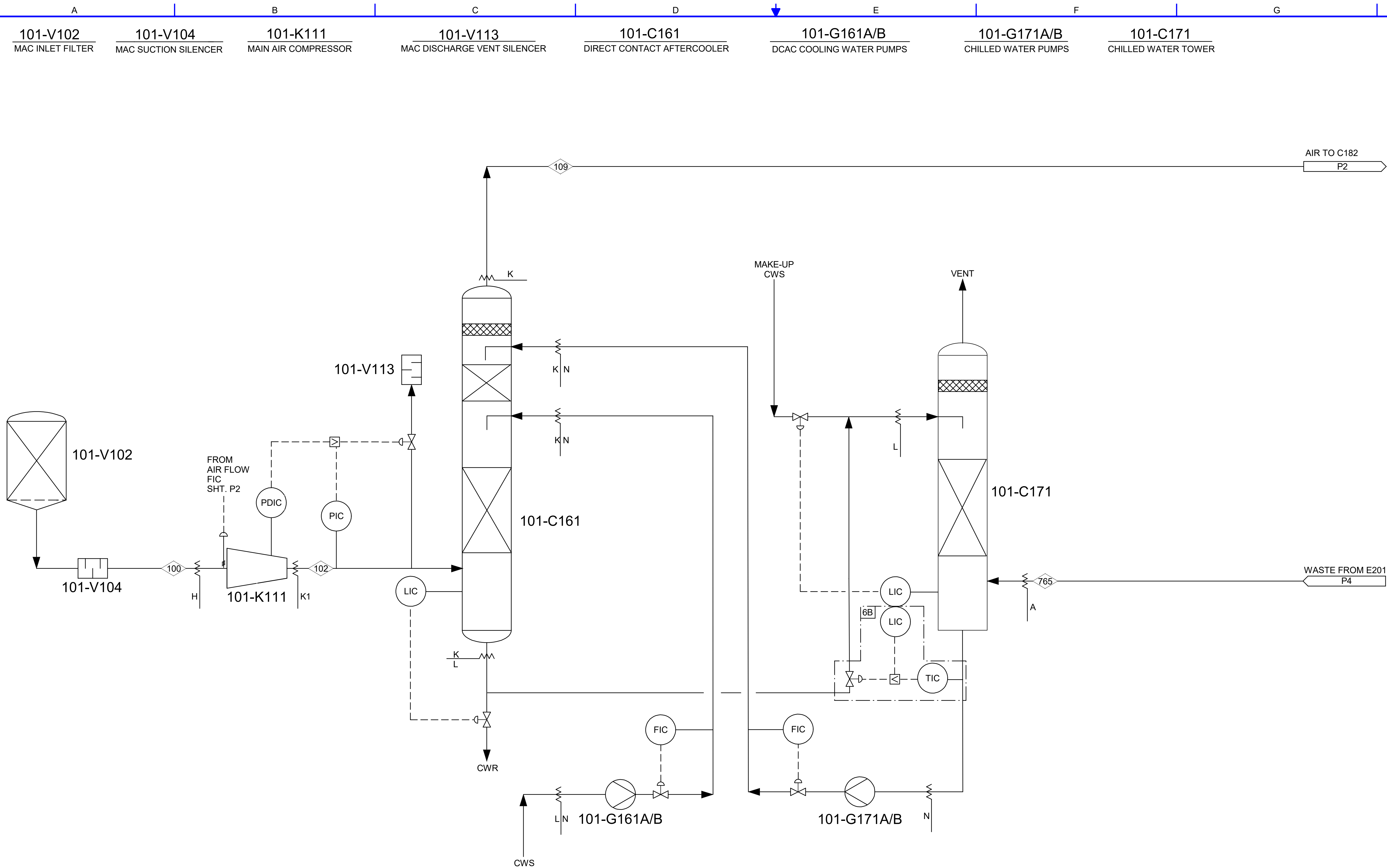
HIGH SELECTOR RELAY

OPERATING CONDITIONS

INSTRUMENT LETTERS	
C	CONTROLLER
F	FLOW
H	HAND INPUT
I	INDICATION
L	LEVEL
P	PRESSURE
Q	QUALITY
T	TEMPERATURE

AM	USED ON PFD	
	OWNER GROUP	PROCESS
	RELEASE PURPOSE	BID/ESTIMATE
	REFERENCE	
	DOC No 50034819-PCS-AP1-00002	
	SCALE	SHEET 1

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NOTES

FRONTEND SYSTEMS: FE30B, FE36A

OPTIONS:
06A MANUAL CONTROL OF HOT WATER FLOW TO C161.
06B AUTO CONTROL OF HOT WATER FLOW TO C161.

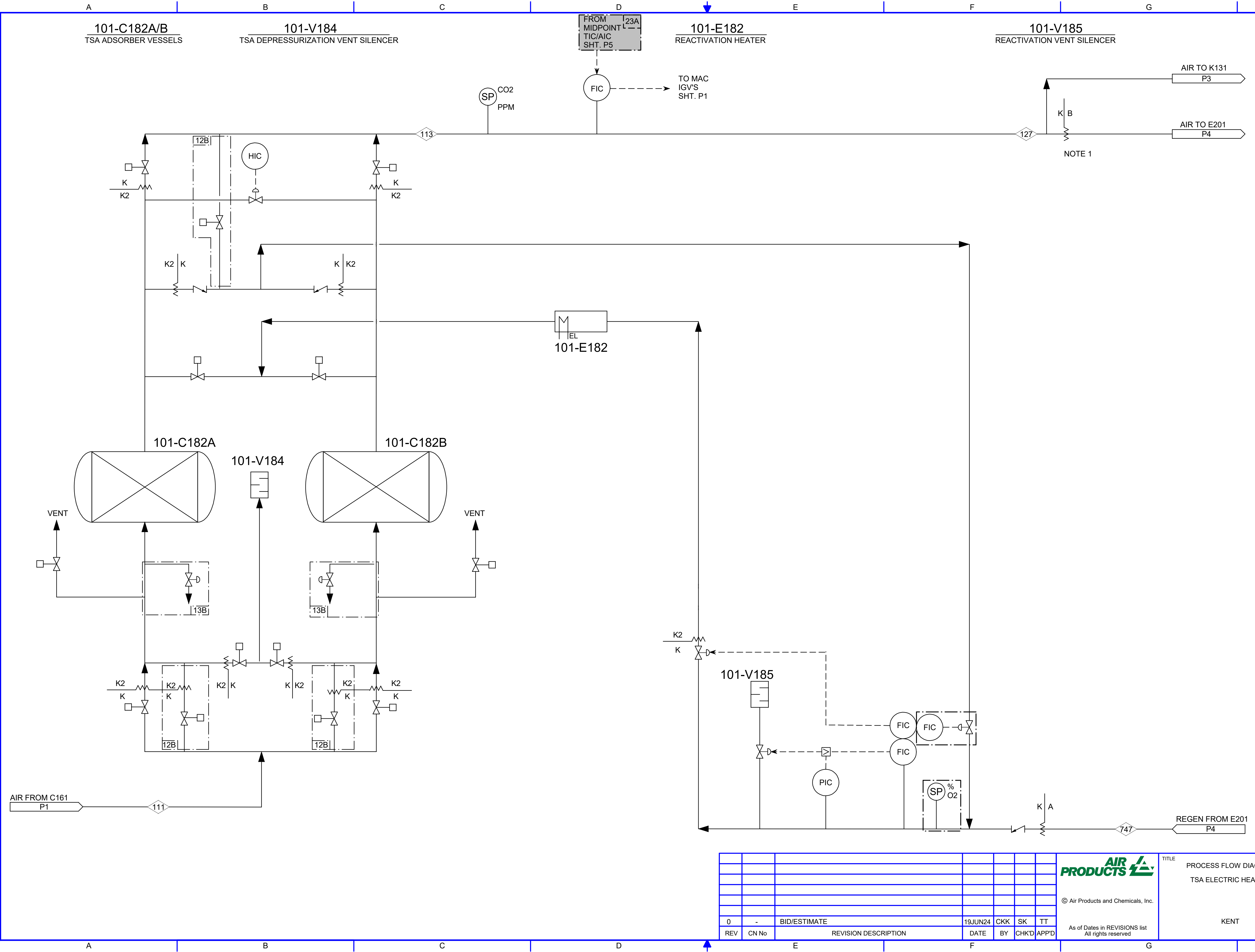
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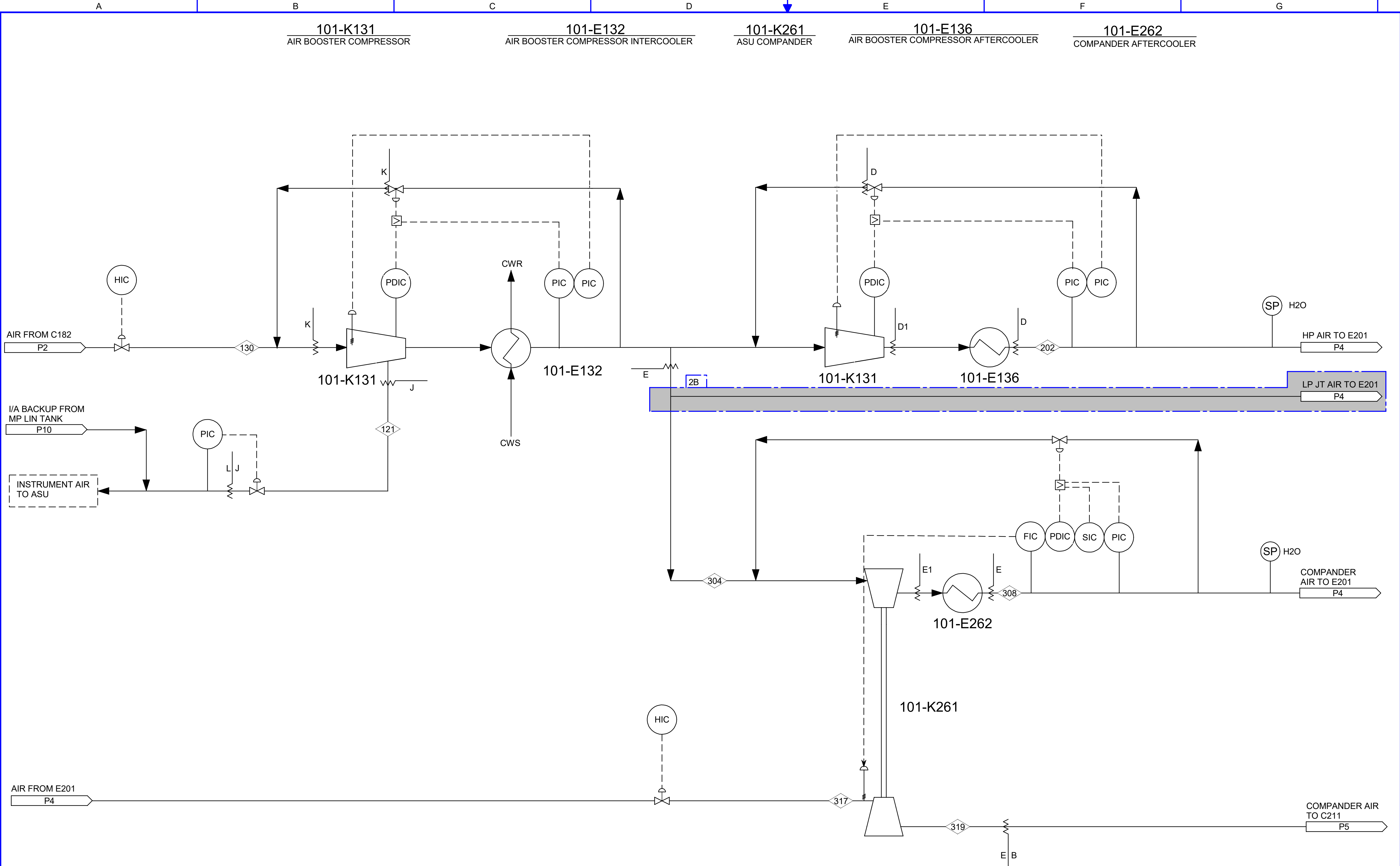
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TITLE	PROCESS FLOW DIAGRAM MAC CHILL TOWER	USED ON	PFD
		OWNER GROUP	PROCESS
		RELEASE PURPOSE	BID/ESTIMATE
		REFERENCE	
		DOC No	50034819-PCS-AP1-00002
		SCALE	SHEET P1

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NOTES

CRYO AREA SYSTEMS: OA20_01, OA30_01, OA50_01, ON20_01, ON20_02, ON30_01, ON50_01

OPTIONS:
14B AIR COMPANDER.
15A HP AIR FROM BAC DISCHARGE.
COMPANDER COMPRESSOR FEED FROM BAC INTERSTAGE AND EXPAIR FROM COMPANDER COMPRESSOR.

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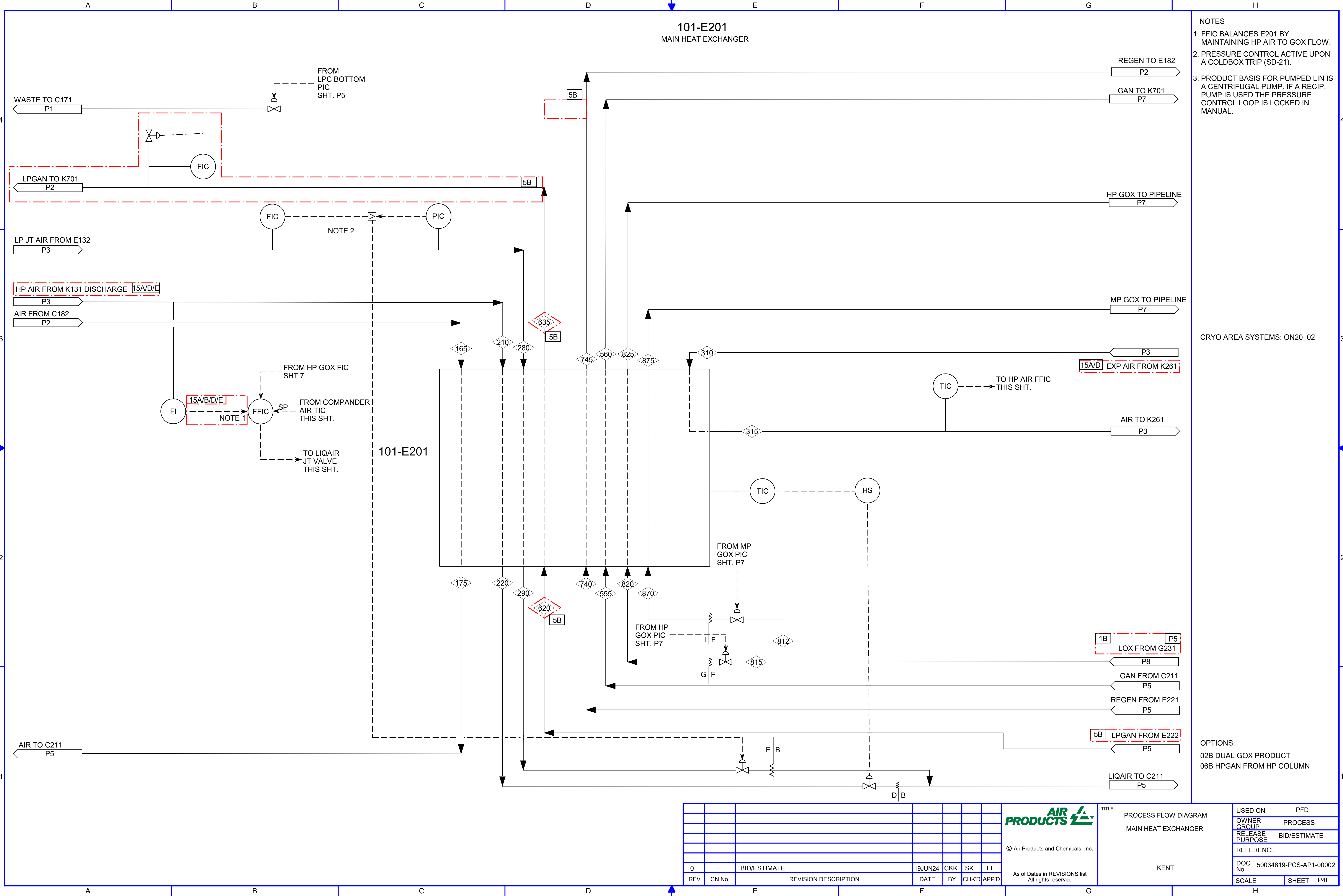


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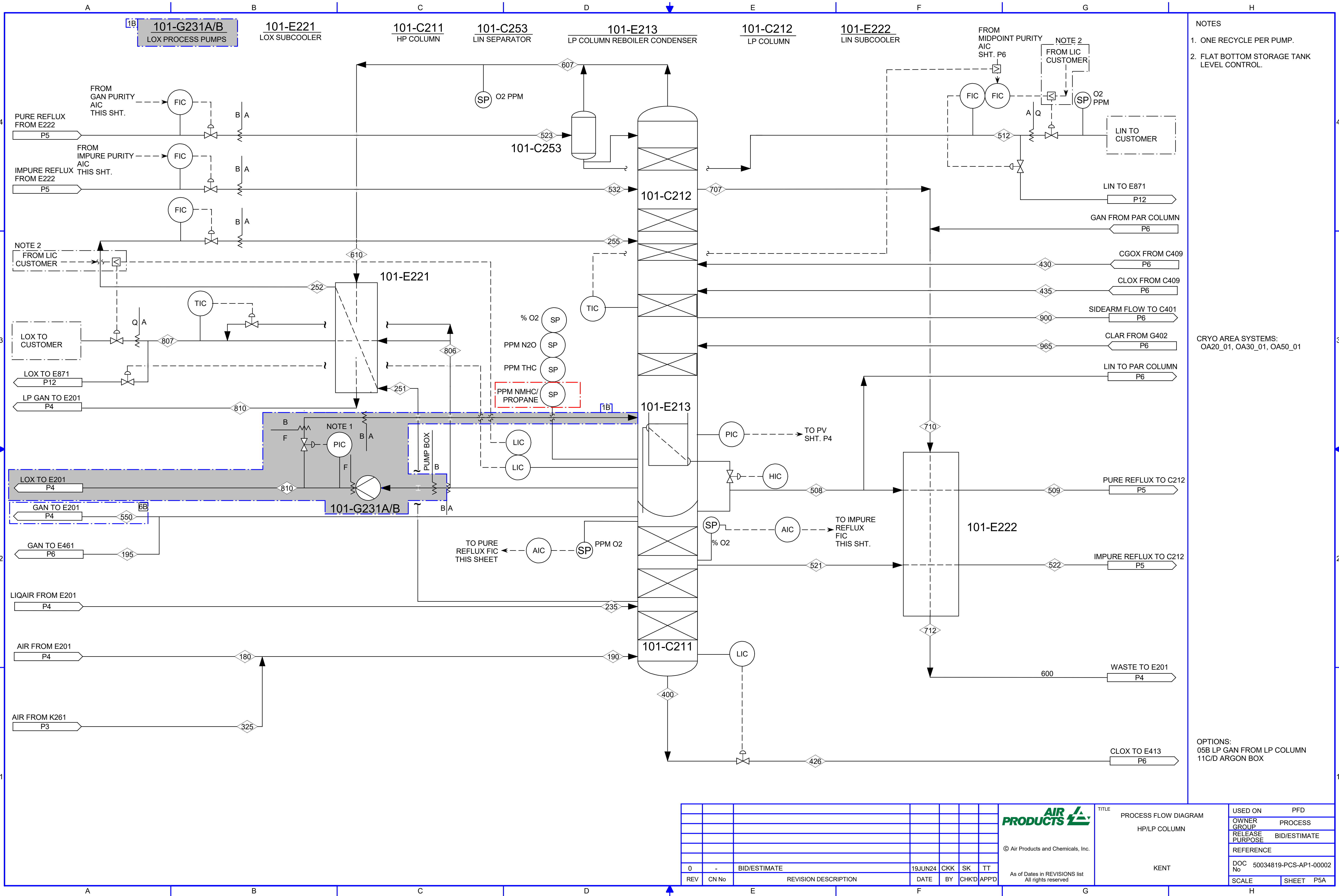
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TITLE	PROCESS FLOW DIAGRAM BAC/COMPANDER	USED ON	PFD
		OWNER GROUP	PROCESS
		RELEASE PURPOSE	BID/ESTIMATE
		REFERENCE	
		DOC No	50034819-PCS-AP1-00002
		SCALE	SHEET P3

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NOTES

- ONE RECYCLE PER PUMP.
- FLAT BOTTOM STORAGE TANK LEVEL CONTROL.

CRYO AREA SYSTEMS:
OA20_01, OA30_01, OA50_01

OPTIONS:
05B LP GAN FROM LP COLUMN
11C/D ARGON BOX

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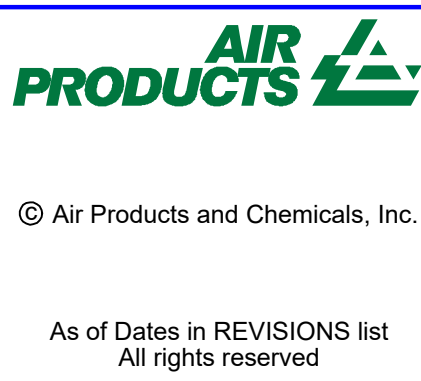
AIR PRODUCTS

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TITLE	PROCESS FLOW DIAGRAM HP/LP COLUMN	USED ON	PFD
OWNER GROUP		PROCESS	
RELEASE PURPOSE		BID/ESTIMATE	
REFERENCE			
DOC No	50034819-PCS-AP1-00002		
SCALE		SHEET	P5A

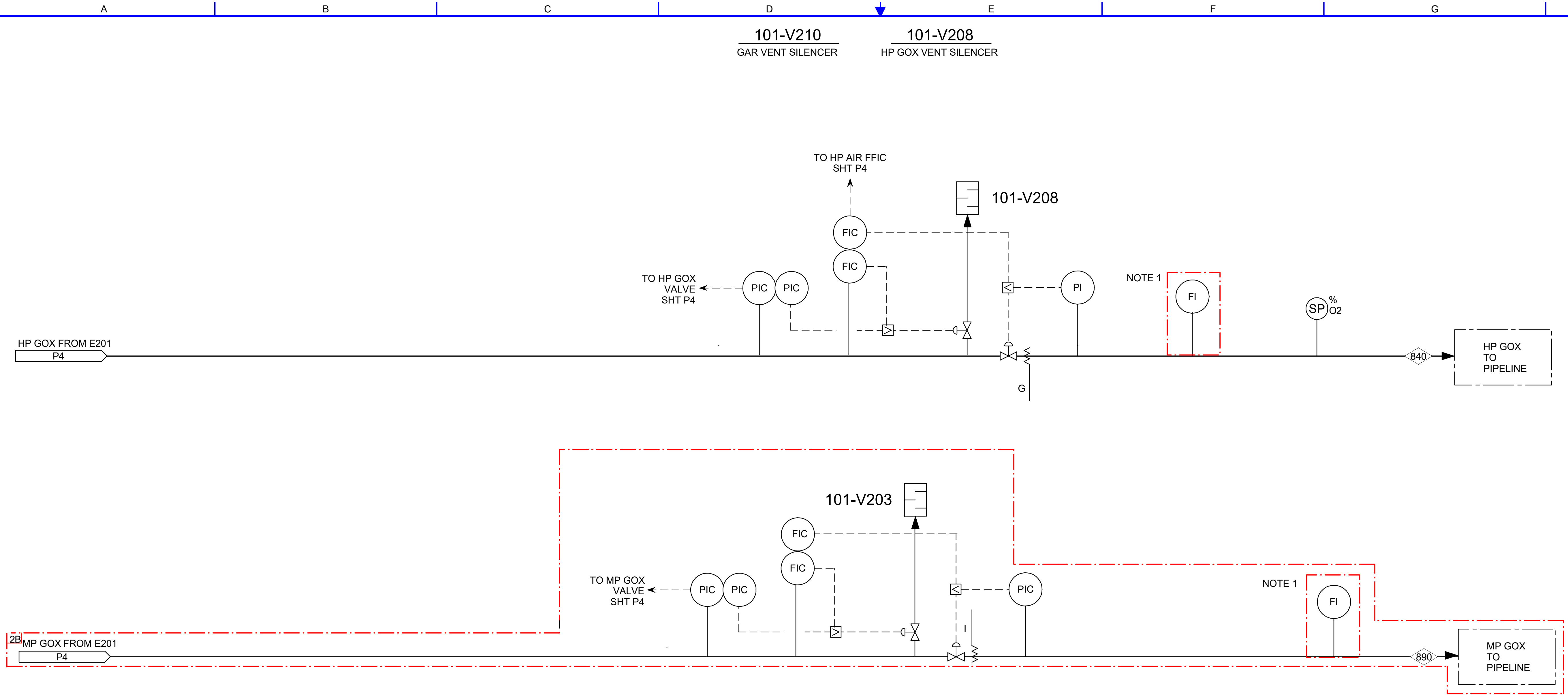
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NOTES
1. BASE CASE IS STANDARD FLOWMETER, NO PAYMETER

OPTIONS:
02B DUAL GOX PRODUCT
10B PLAR FROM STORAGE

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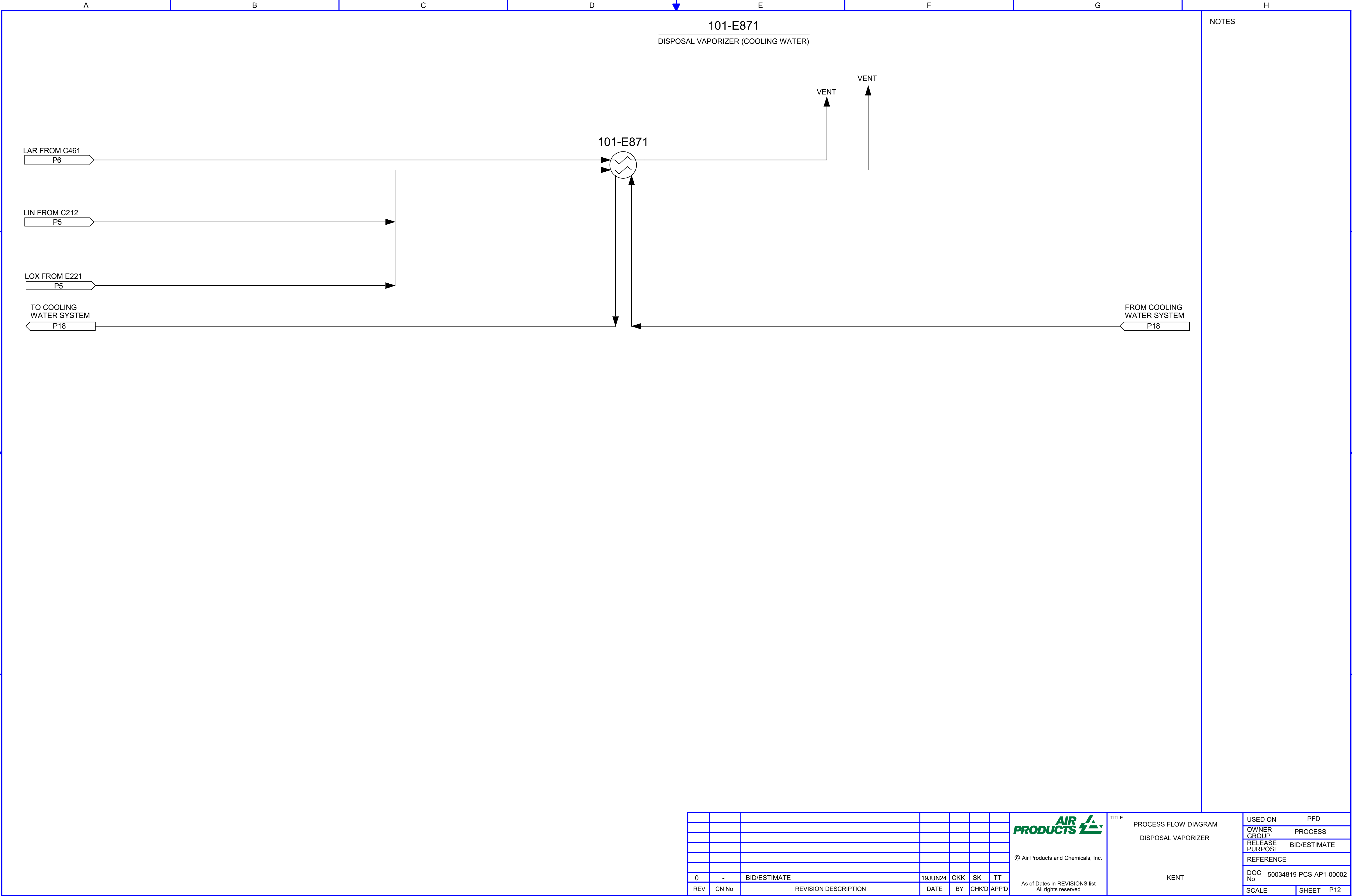
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TITLE
PROCESS FLOW DIAGRAM
OXYGEN & ARGON PIPELINE

KENT


USED ON	PFD
OWNER GROUP	PROCESS
RELEASE PURPOSE	BID/ESTIMATE
REFERENCE	
DOC No	50034819-PCS-AP1-00002
SCALE	SHEET P7_02

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NOTES

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TITLE	PROCESS FLOW DIAGRAM DISPOSAL VAPORIZER
	KENT

USED ON	PF
OWNER GROUP	PROCESS
RELEASE PURPOSE	BID/ESTIMATE
REFERENCE	
DOC No	50034819-PCS-AP1-00002
SCALE	SHEET P12