
COX

Research and Technology, Inc.

DUPLEX PUMP CONTROL PANEL

AS BUILTS

DECEMBER 13, 2017

Cox Research and Technology, Inc.
14697 S. Harrells Ferry Road
Baton Rouge, LA. 70816
(225) 756-3271 Fax (225) 755-1030

SOLD TO: Delta Process - Denham Springs, LA

TAG:

SHIP TO: Delta Process

SPECIAL NOTES:

Panel Type	Duplex
Voltage	277/480V
Phase/HZ	3/60
No. Motors	2
HP	3
FLA	4.8
Pump Manufacturer	
Type of Pump	Submersible
Catalog Number	SPGH300
Capacitors	No
Control Voltage	120V
Control Power Transformer VA =150	Yes
Enclosure NEMA Rating	4X
Enclosure Material	Stainless Steel
Enclosure Size	24x20x10
Inner Swing Panel	No
Control Sensor	Float
UL508A Labeling	No
UL698A Labeling	No

Alarm Light - Panel Door Mount

Alarm Light - Panel Top Mount

X

Alarm Light - Remote

X

Alarm Test Switch

X

Alarm Silence Switch

Alarm Acknowledge Switch

X

Alternator with Lead Pump Selector Switch

X

Audible Alarm - Bell

Audible Alarm - Horn

Audible Alarm - Piezzo

Cycle Counters

Cox® Research Opti-Float® Pts.

Cox® CAMO® System

Economy Version

Elapsed Time Meters

Flasher

X

Green Run Lights vs. Red

Ground Fault Receptacle

High Temp Lights

High Temp Pump Shutdown - Auto Reset

X

High Temp Pump Shutdown - Manual Reset

Intrinsically Safe Relays Pts

Lightning Arrestor

Main Disconnect with door Mt. Handle

Panel Heater/Thermostat W =

Phase Monitor

Pole, Box, Seal

Seal Fail Lights

X

Seal Fail Relay - Fixed

Seal Fail Relay - Adjustable

X

Seal Fail Shutdown

Starters - IEC

Starters - NEMA (ABB)

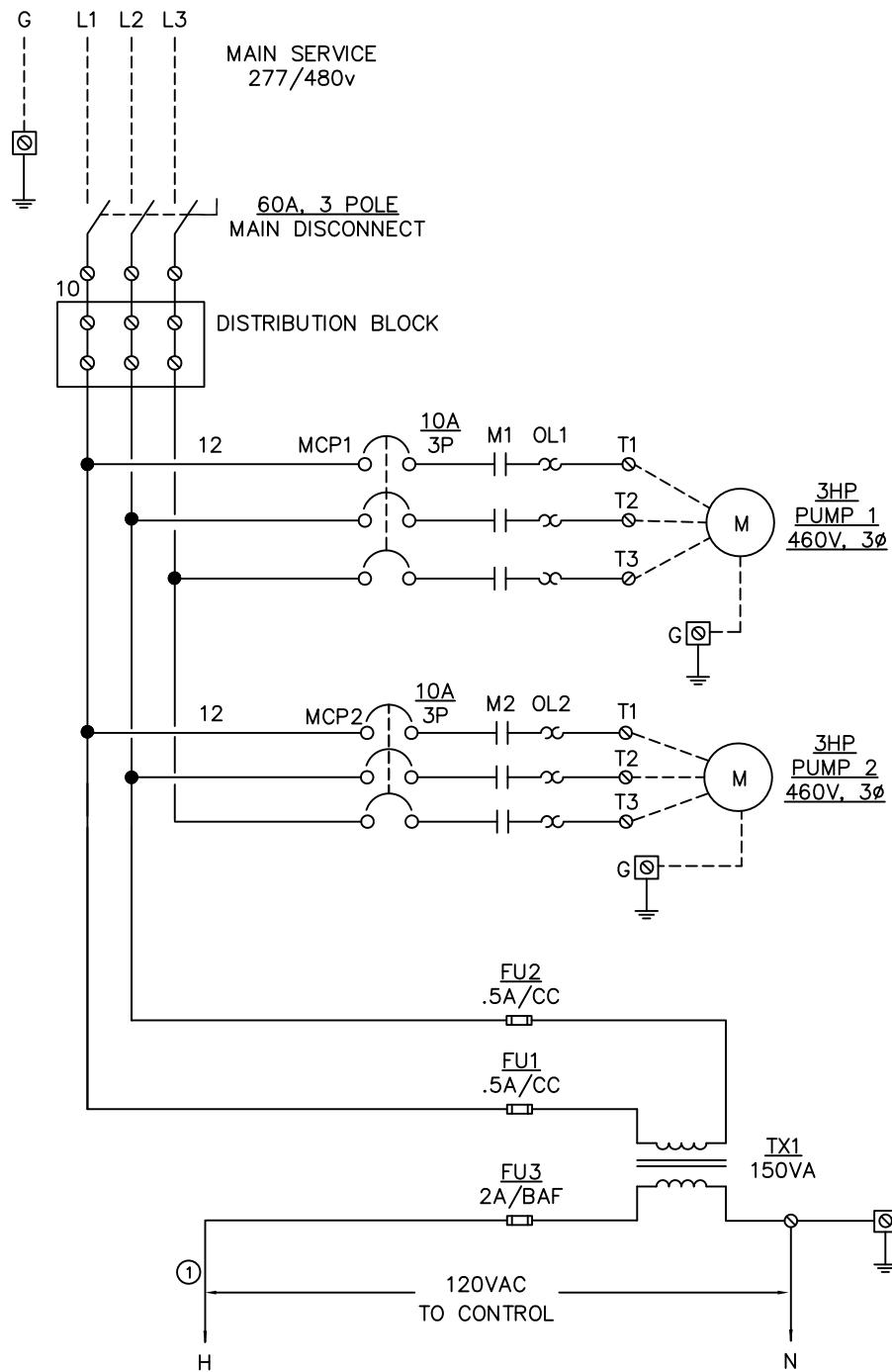
X

Unpowered Alarm Circuits #

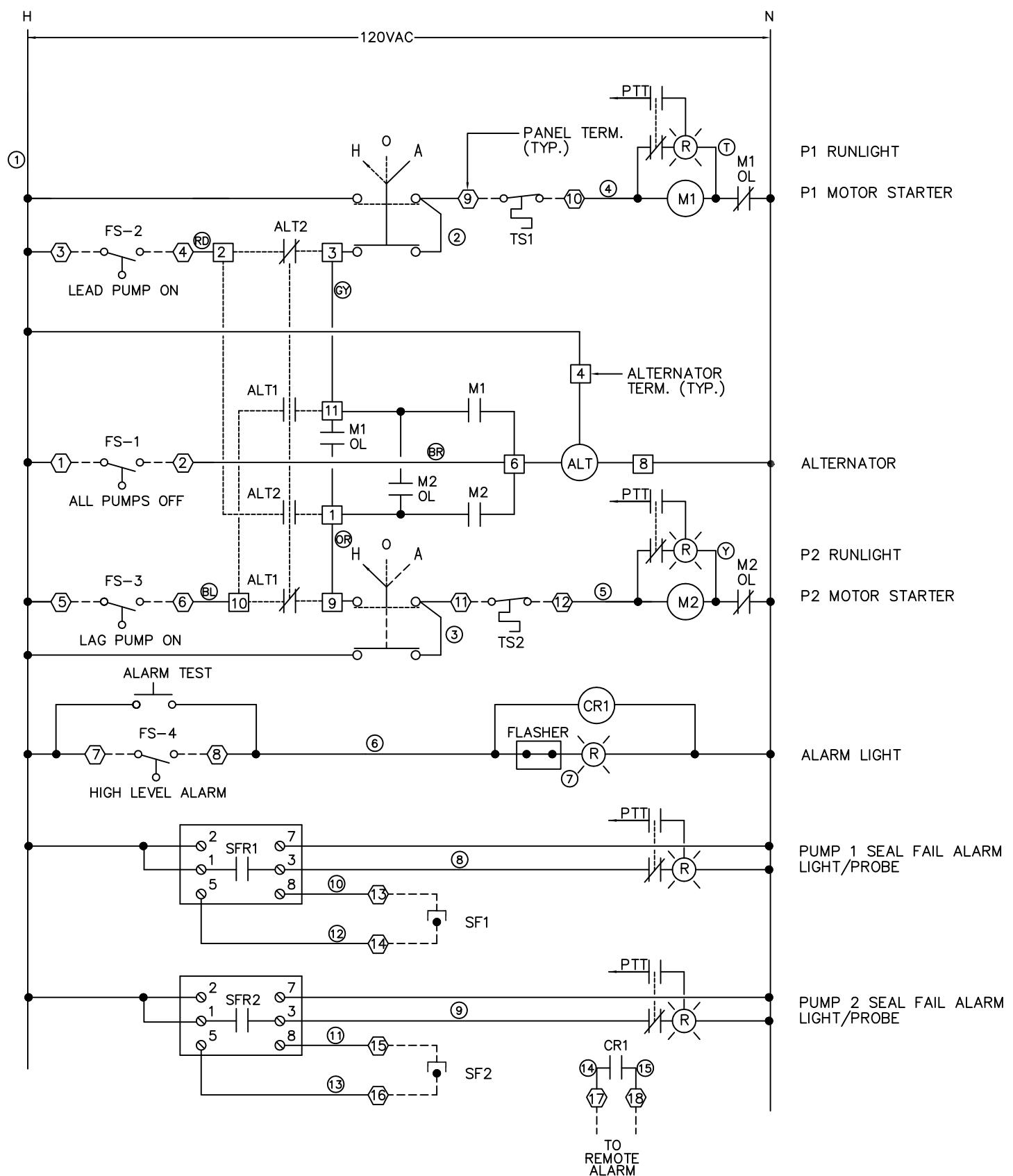
X

OTHER:

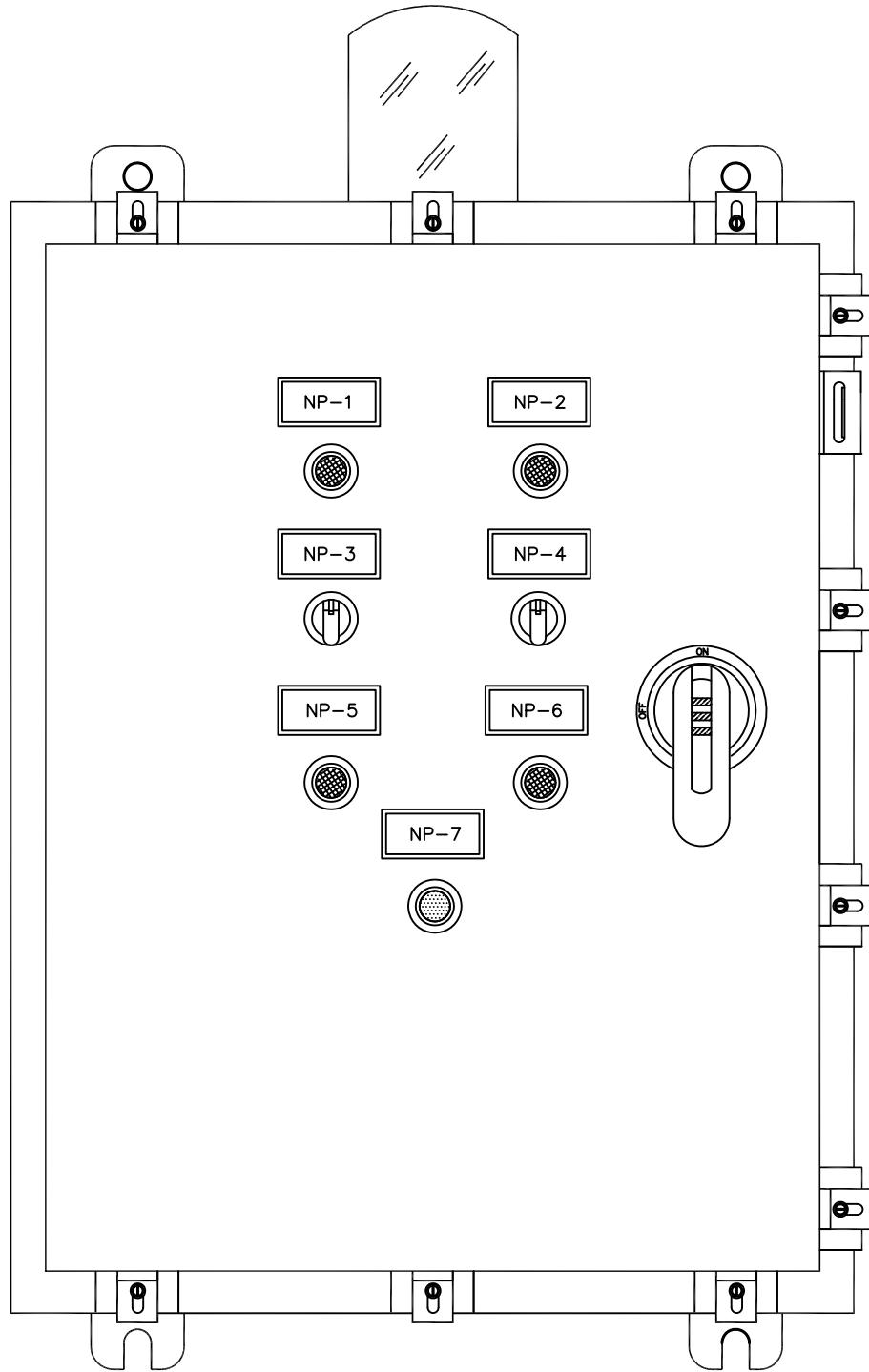
	Drawing Title								
	PANEL DESCRIPTION								
			REFERENCE DRAWING	NO.	REVISION-LOCATION		ECN	DATE	BY
DATE 12/13/17			S/N	Sales Engineer	Application Engineer	DRAWN BY C.L. CUTRER / BMF	APPROVED BY		
	C.C.		R.C.						
	Project Title		COX		P.O. Box 77808 Baton Rouge, LA 70879 Ph. (225)756-3271 Fax (225)755-1030		PURCHASE ORDER NUMBER		
	DUPLEX PUMP CONTROL PANEL		Research and Technology, Inc.				DRAWING NUMBER CP-1253		
							SHEET NUMBER 1		



	Drawing Title POWER DIAGRAM			
		REFERENCE DRAWING S/N	NO. Sales Engineer C.C.	REVISION-LOCATION DRAWN BY C.L. CUTRER / BMF
		Application Engineer R.C.		ECN APPROVED BY DATE
DATE 12/13/17	Project Title DUPLEX PUMP CONTROL PANEL	COX Research and Technology, Inc.	P.O. Box 77808 Baton Rouge, LA 70809 Ph. (225)756-3271 Fax (225)755-1030	PURCHASE ORDER NUMBER DRAWING NUMBER CP-1253 SHEET NUMBER 2



	Drawing Title CONTROL DIAGRAM							
DATE 12/13/17		REFERENCE DRAWING		NO.	REVISION-LOCATION		ECN	DATE
	S/N	Sales Engineer C.C.	Application Engineer R.C.	DRAWN BY	APPROVED C.L. CUTRER / BMF		BY	DATE
	Project Title DUPLEX PUMP CONTROL PANEL	<hr/> <hr/> COX <hr/> <hr/> Research and Technology, Inc.			P.O. Box 77808 Baton Rouge, LA 70809		PURCHASE ORDER NUMBER	
					Ph. (225)756-3271 Fax (225)755-1030		DRAWING NUMBER CP-1253	
							SHEET NUMBER 3	



VIEW OF FRONT OF ENCLOSURE

NAMEPLATE SCHEDULE

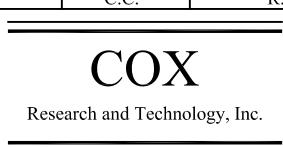
NP-1	PUMP 1 RUN
NP-2	PUMP 2 RUN
NP-3	HOA
NP-4	HOA
NP-5	SEAL FAIL
NP-6	SEAL FAIL
NP-7	ALARM TEST

NOTE:
SEWER GASSES WILL DESTROY COMPONENTS IN PANEL.
PROPER SEALS MUST BE INSTALLED EXTERNAL TO THE
PANEL TO PREVENT ENTRY OF GASSES.

	Drawing Title ENCLOSURE DATE 12/13/17						
		REFERENCE DRAWING	NO.	REVISION-LOCATION	ECN	DATE	BY
		S/N	Sales Engineer C.C.	Application Engineer R.C.	DRAWN BY C.L.CUTRER / BMF	APPROVED BY	DATE
		Project Title DUPLEX PUMP CONTROL PANEL		P.O. Box 77808 Baton Rouge, LA 70809	PURCHASE ORDER NUMBER		
			COX	Research and Technology, Inc.	DRAWING NUMBER CP-1253		
					Fax (225)755-1030	SHEET NUMBER	4

BILL OF MATERIAL

ITEM	QTY	MANUFACTURER	PART NO.	DESCRIPTION
1	1	C&I	I-242010ST4X	ENCLOSURE
1a	1	C&I	CI-2420P	BACKPLATE
2	2	ABB	A16NO-30-10-84	MOTOR STARTER
3	2	ABB	TA25DU5.0	O.L. RELAY (3.5-5.0A)
4	2	ABB	XT2HU3015MAF000XXX	CB1, CB2
5	1	ABB	OT63F3	DISCONNECT SWITCH
6	2	SIEMENS	52SX2CABA1	HOA SWITCH
7	1	ABB	OHB65J6	HANDLE
8	4	SIEMENS	52PX6B2A	RED PILOT LIGHT
9	1	SIEMENS	52PX8A1A	PUSH BUTTON
10	1	SSAC	FS126RC	FLASHER
11	1	IDECA	RY2SULAC120	CONTROL RELAY
12	1	MARATHON	1323580	DISTRIBUTION BLOCK
13	2	SSAC	LLC54AA	SEAL FAIL RELAYS
14	1	ABB	X4150PSF1	TRANSFORMER
15	1	TIMEMARK	261DT120	ALTERNATOR
16	4	ABB	K3TA	LUG KIT
17	1	SIEMENS	52BJK	CONTACT BLOCK
18	1	ABB	OXP6X290	SHAFT
19	1	CONERY	R40-XLS-25	ALARM LIGHT
20	3	BUSSMANN	LPCC1/2	FU1,2,SPARE
21	2	BUSSMANN	BAF2	FU3,SPARE
22	2	BUSSMANN	SAMI-7N	FUSE COVER
23				
24				
25				

	Drawing Title								
	BILL OF MATERIALS								
			REFERENCE DRAWING		NO.	REVISION-LOCATION	ECN	DATE	BY
DATE 12/13/17			S/N	Sales Engineer	Application Engineer	DRAWN	APPROVED		
				C.C.	R.C.	BY C.L. CUTRER / BMF	BY	DATE	
	Project Title		 COX Research and Technology, Inc.			PURCHASE ORDER NUMBER DRAWING NUMBER CP-1253 SHEET NUMBER			
	DUPLEX PUMP CONTROL PANEL								