
COX

Research and Technology, Inc.

BARKSDALE AIRFORCE BASE

DUPLEX PUMP
CONTROL PANEL
FAA LIFT STATION

PROJECT SUBMITTAL

*PLEASE REVIEW THOROUGHLY. THESE DRAWINGS ARE OUR
INTERPRETATION OF THE PROJECT'S REQUIREMENTS. ANY
CHANGES AFTER FABRICATION WILL BE DONE AT EXTRA COST.*

NOVEMBER 8, 2022

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 - Bossier City, LA

TAG: Barksdale Airforce Base Duplex Pump

Control Panel FAA Lift Station

SHIP TO:

-

-

SPECIAL NOTES:

Panel Type	Duplex
Voltage	120/208
Phase/HZ	1/60
No. Motors	2
HP	2
FLA	17
Pump Manufacturer	Barnes
Type of Pump	-
Catalog Number	SGVF2002L
Capacitors	Yes
Control Voltage	120
Control Power Transformer VA=	No
Enclosure NEMA Rating	4X
Enclosure Material	Fiberglass
Enclosure Size	18x16x10
Inner Swing Panel	Yes
Conrol Sensor	FLOATS
UL508A Labeling	No
UL698A Labeling	No

Alarm Light - Panel Door Mount

X

Alarm Light - Panel Top Mount

Alarm Light - Remote

Alarm Test Switch

Alarm Silence Switch

X

Alarm Acknowledge Switch

X

Alternator with Lead Pump Selector Switch

X

Audible Alarm - Bell

Audible Alarm - Horn

X

Audible Alarm - Piezo

COX™ CAMO™ System

Cycle Counters

Economy Version

X

Elapsed Time Meter

Flasher

Green Run Lights vs. Red

X

Ground Fault Receptacle

High Temp Lights

X

High Temp Pump Shutdown - Auto Reset

High Temp Pump Shutdown - Manual Reset

Intrinsically Safe Relays Pts.

Lightning Arrestor

X

Main Disconnect without Door Mt. Handle

X

Opti-Float® Level Dectector Pts.

Panel Heater / Thermostat W=

Phase Monitor (VOLTAGE)

X

Pole, Box, Seal

X

Seal Fail Lights

Seal Fail Relay - Fixed

Seal Fail Relay - Adjustable

X

Seal Fail Shutdown

Starters - IEC

X

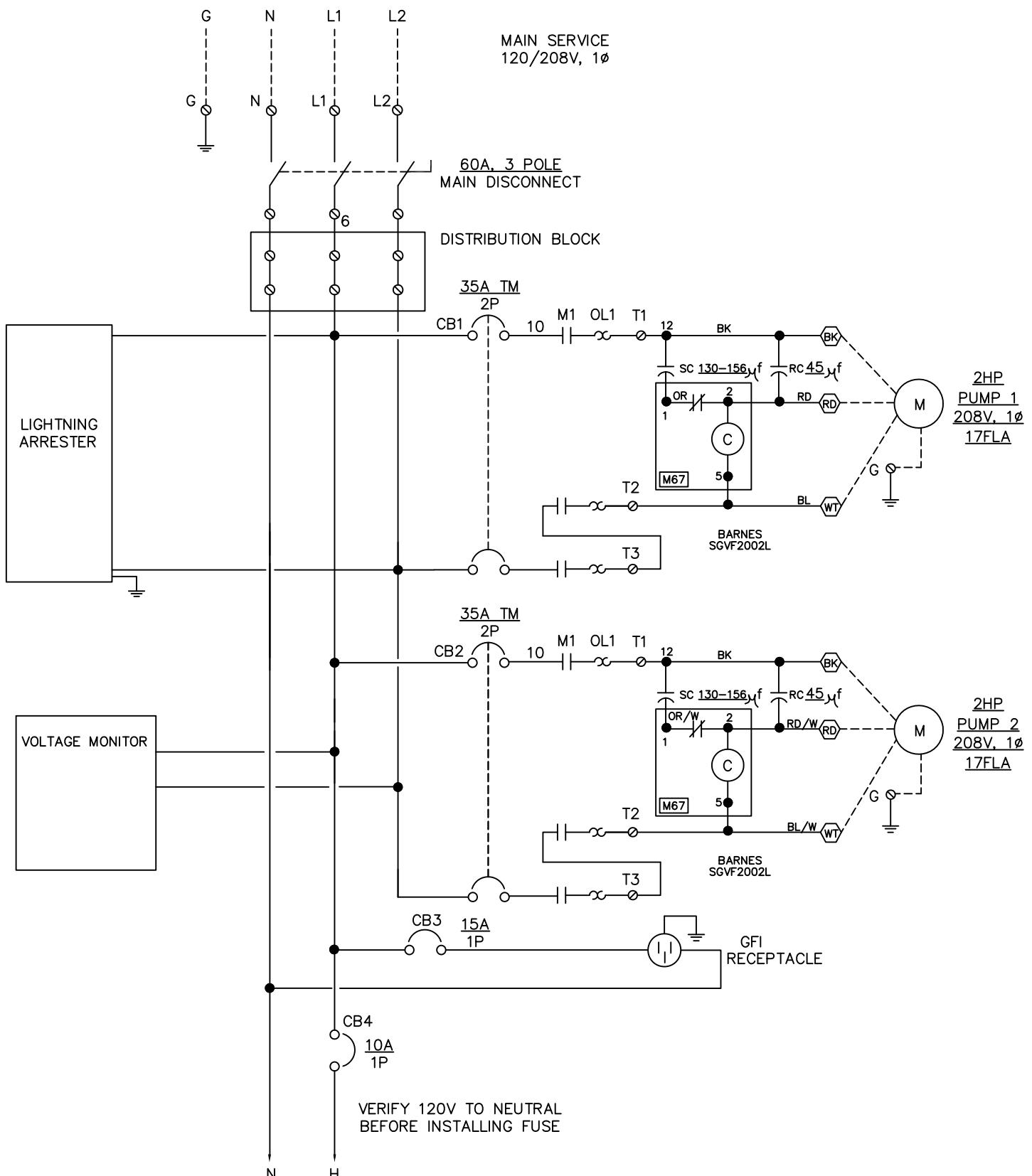
Starters - NEMA

Unpowered Alarm Circuits #1

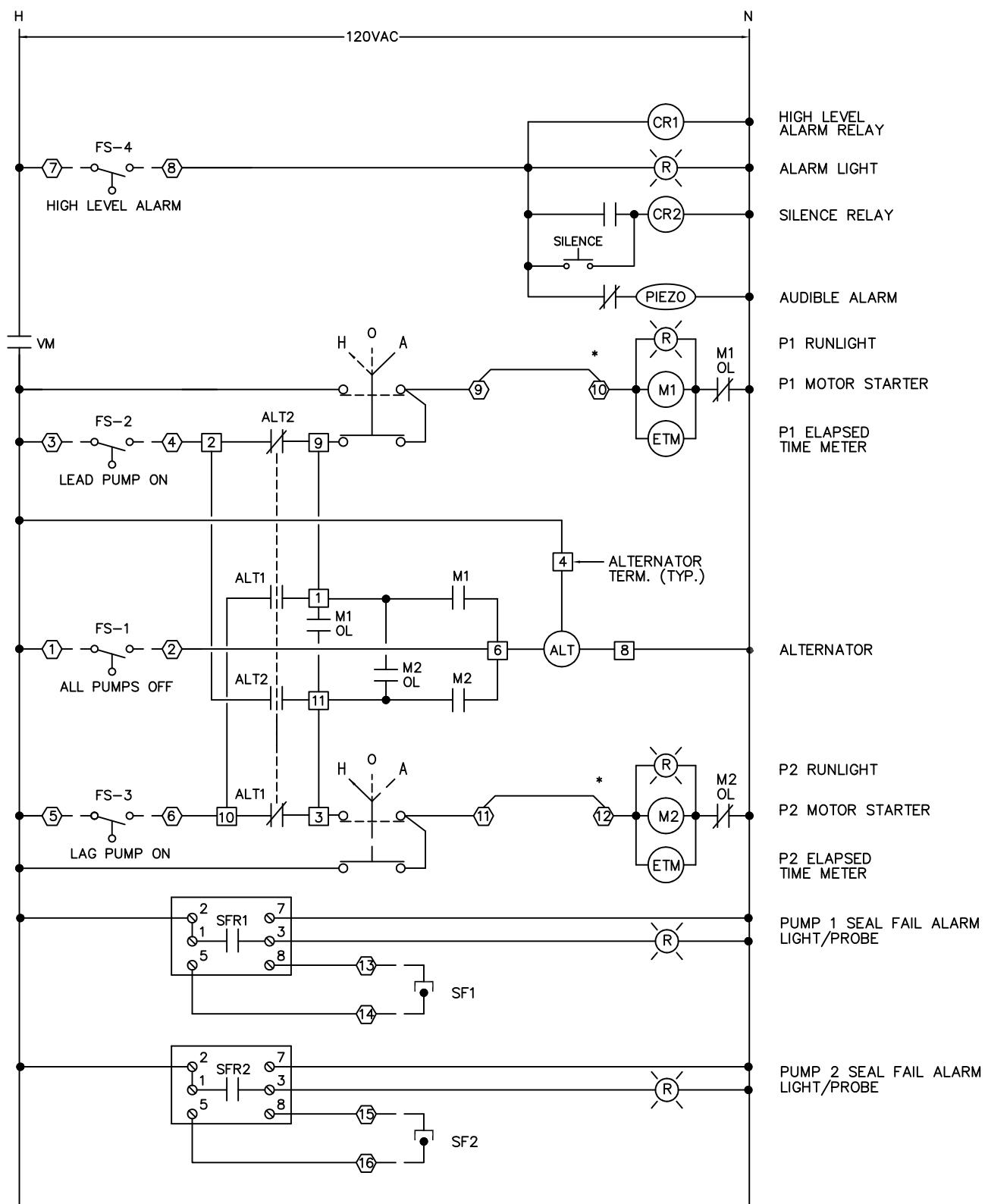
X

OTHER:

	Drawing Title PANEL DESCRIPTION						
		REFERENCE S/N	DRAWING Sales Engineer T.L.	NO. Application Engineer T.L.	REVISION-LOCATION DRAWN BY NCR	ECN	DATE APPROVED BY DATE
DATE 11/08/22							
	Project Title DUPLEX PUMP CONTROL PANEL	COX Research and Technology, Inc.			P.O. Box 77808 Baton Rouge, LA 70809	PURCHASE ORDER NUMBER	
					Ph. (225)756-3271 Fax (225)756-1030	DRAWING NUMBER CP-1843R1	
						SHEET NUMBER 1	

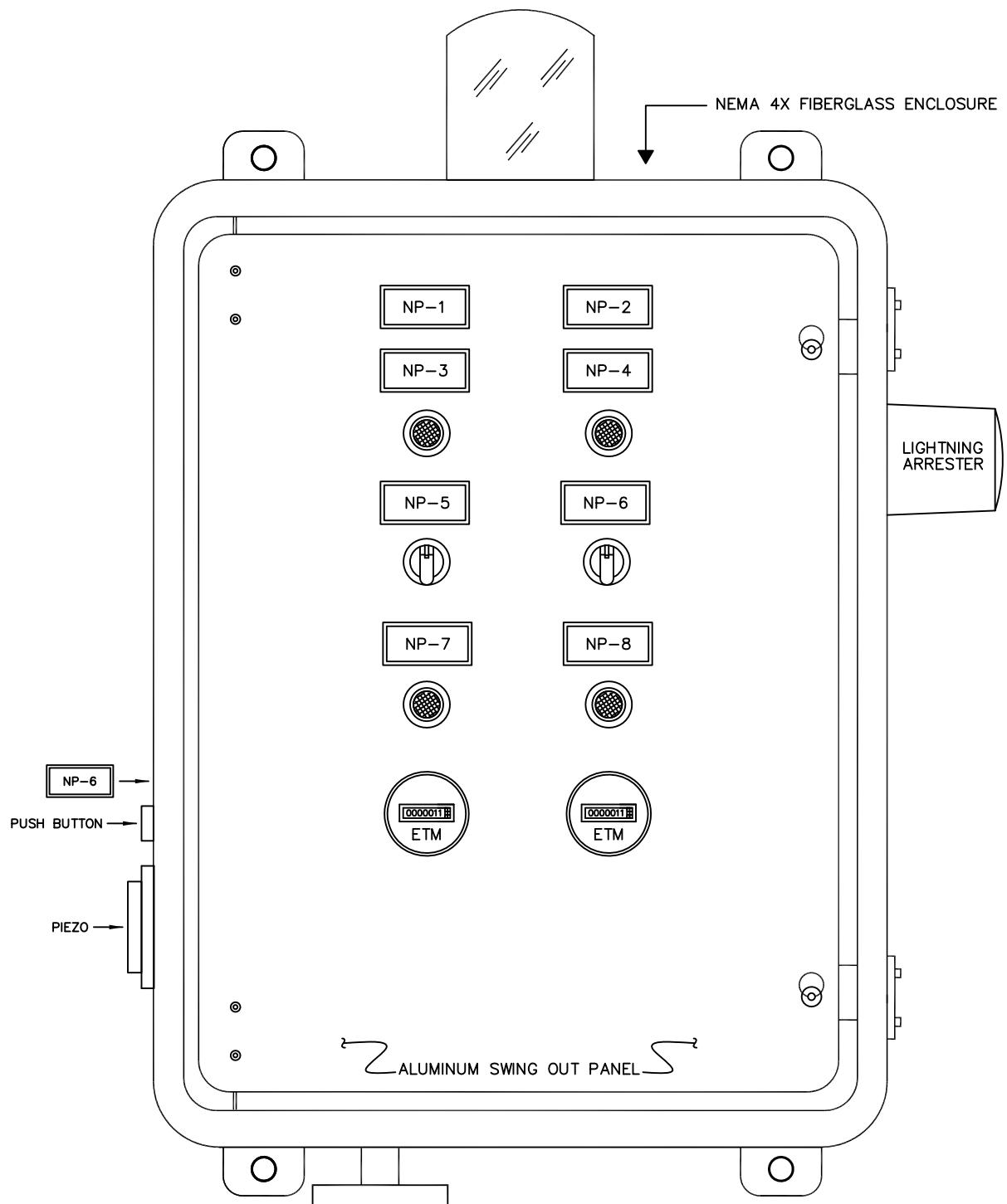


	Drawing Title					
	POWER DIAGRAM					
DATE 11/08/22		REFERENCE DRAWING S/N	NO. Sales Engineer T.L.	REVISION-LOCATION Application Engineer T.L.	ECN DRAWN BY NCR	DATE APPROVED BY DATE
	Project Title DUPLEX PUMP CONTROL PANEL	COX Research and Technology, Inc.	P.O. Box 77808 Baton Rouge, LA 70809 Ph. (225)756-3271 Fax (225)756-1030	PURCHASE ORDER NUMBER DRAWING NUMBER CP-1843R1 SHEET NUMBER 2		



* REMOVE JUMPERS AND INSTALL LOCKOUT DEVICES IF REQUIRED

	Drawing Title CONTROL DIAGRAM						
		REFERENCE DRAWING	NO.	REVISION-LOCATION	ECN	DATE	BY
DATE 11/08/22		S/N	Sales Engineer T.L.	Application Engineer T.L.	DRAWN BY NCR	APPROVED BY	DATE
	Project Title DUPLEX PUMP CONTROL PANEL		COX Research and Technology, Inc.	P.O. Box 77808 Baton Rouge, LA 70809	PURCHASE ORDER NUMBER DRAWING NUMBER CP-1843R1		
				Ph. (225)756-3271 Fax (225)756-1030	SHEET NUMBER 3		



VIEW OF SWING OUT PANEL

NAMEPLATE SCHEDULE

NP-1	PUMP 1
NP-2	PUMP 2
NP-3	RUN
NP-4	RUN
NP-5	HOA
NP-6	HOA
NP-7	SEAL FAIL
NP-8	SEAL FAIL
NP-9	SILENCE

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

	Drawing Title					
	ENCLOSURE					
DATE 11/08/22		REFERENCE S/N	DRAWING Sales Engineer T.L.	NO. Application Engineer T.L.	REVISION-LOCATION DRAWN BY NCR	ECN APPROVED BY DATE
	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)756-1030	PURCHASE ORDER NUMBER DRAWING NUMBER CP-1843R1 SHEET NUMBER 4

BILL OF MATERIALS

ITEM	QTY	MANUFACTURER	PART NO.	DESCRIPTION
1	1	ATTABOX	M2420HPL	ENCLOSURE
1a	1	ATTABOX	CAMOM2420HPL	BACKPLATE
2	1	ABB	OT63F3	MAIN DISC. SWITCH
3	2	ABB	AF26N1-30-00-13	MOTOR STARTER
4	2	ABB	TF42-20	O.L. (16-20A)
5	2	SQUARE D	QOU235	CB1, CB2
6	1	SQUARE D	QOU115	CB3
7	1	DIVERSION	ARD-120-ADA	ALTERNATING RELAY
8	4	ABB	CL513R	RED PILOT LIGHT
9	2	ABB	C3SS110B-20	HOA SWITCH
10	1	CDI	R40-XLS	ALARM LIGHT
11	1	MARATHON	1323580	DISTRIBUTION BLOCK
12	2	ENM	T50B	ELAPSED TIME METER
13	2	SSAC	LLC54AA	SEAL FAIL RELAY
14	1	SQUARE D	SDSA1175	LIGHTNING ARRESTER
15	1	HUBBELL	GF15GYL	GFI
16	2	DAYTON	2MET2	130-156mf/250V CAPACITOR
17	2	DAYTON	2MEH6	45mf/450V CAPACITOR
18	2	MARS	MARS-67(19006)	START RELAY
19	1	MACROMATIC	VWKPU	VOLTAGE MONITOR
20	1	ABB	QOU110	CB4
21	2	FINDER	45.52.8.120.0054	CR1,2
22	1	INGRAM	PW120B	PIEZ0
23	1	ABB	CP110B-11	PUSH BUTTON
24				
25				

	Drawing Title							
	BILL OF MATERIALS							
			REFERENCE S/N	DRAWING Sales Engineer T.L.	NO. Application Engineer T.L.	REVISION-LOCATION DRAWN BY NCR	ECN	DATE APPROVED BY DATE
DATE 11/08/22								
	Project Title		COX Research and Technology, Inc.		P.O. Box 77808 Baton Rouge, LA 70809 Ph. (225)756-3271 Fax (225)756-1030	PURCHASE ORDER NUMBER DRAWING NUMBER CP-1843R1 SHEET NUMBER 5		
	DUPLEX PUMP CONTROL PANEL							