
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

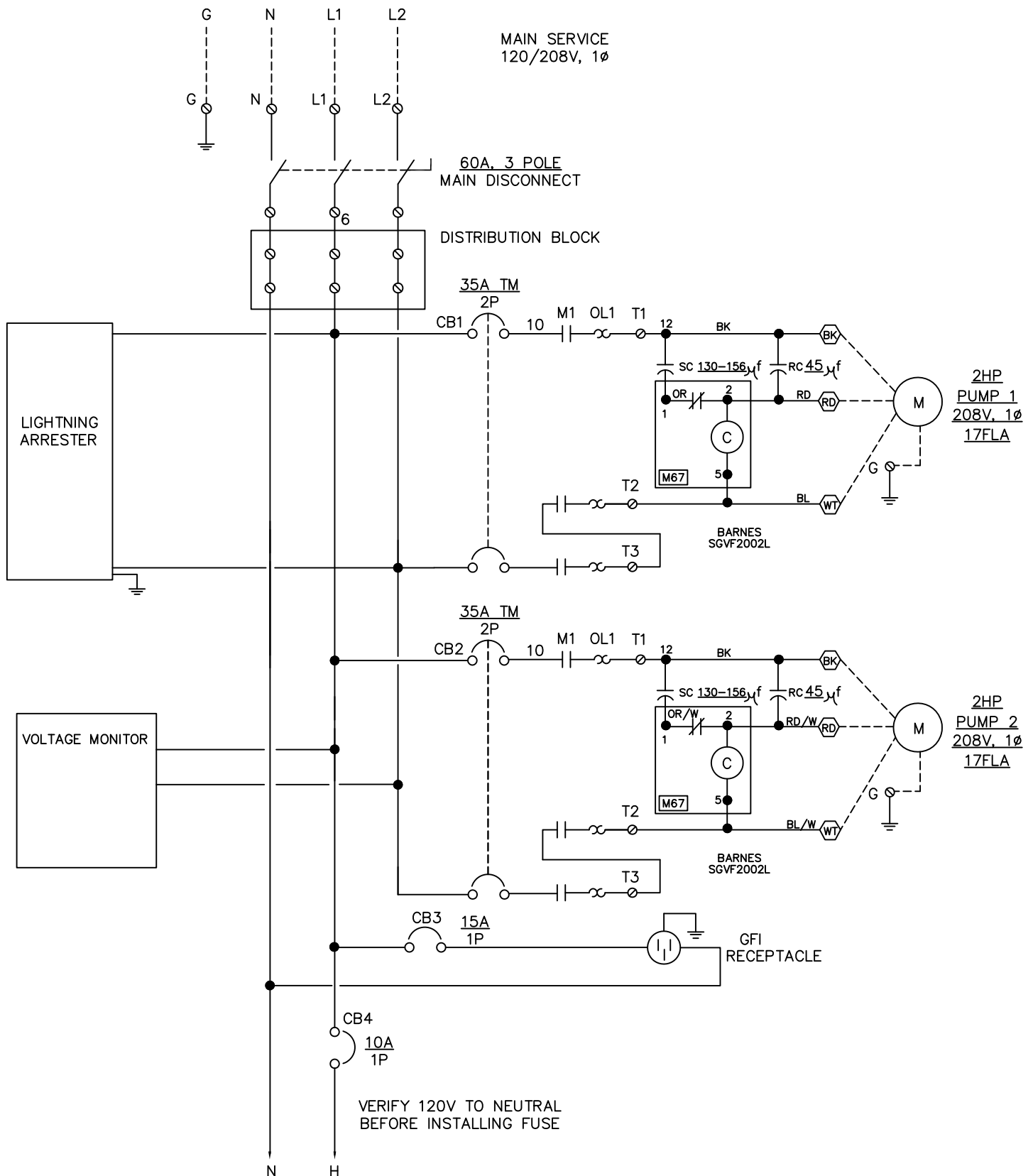
SHIP TO:
-
-

SPECIAL NOTES:

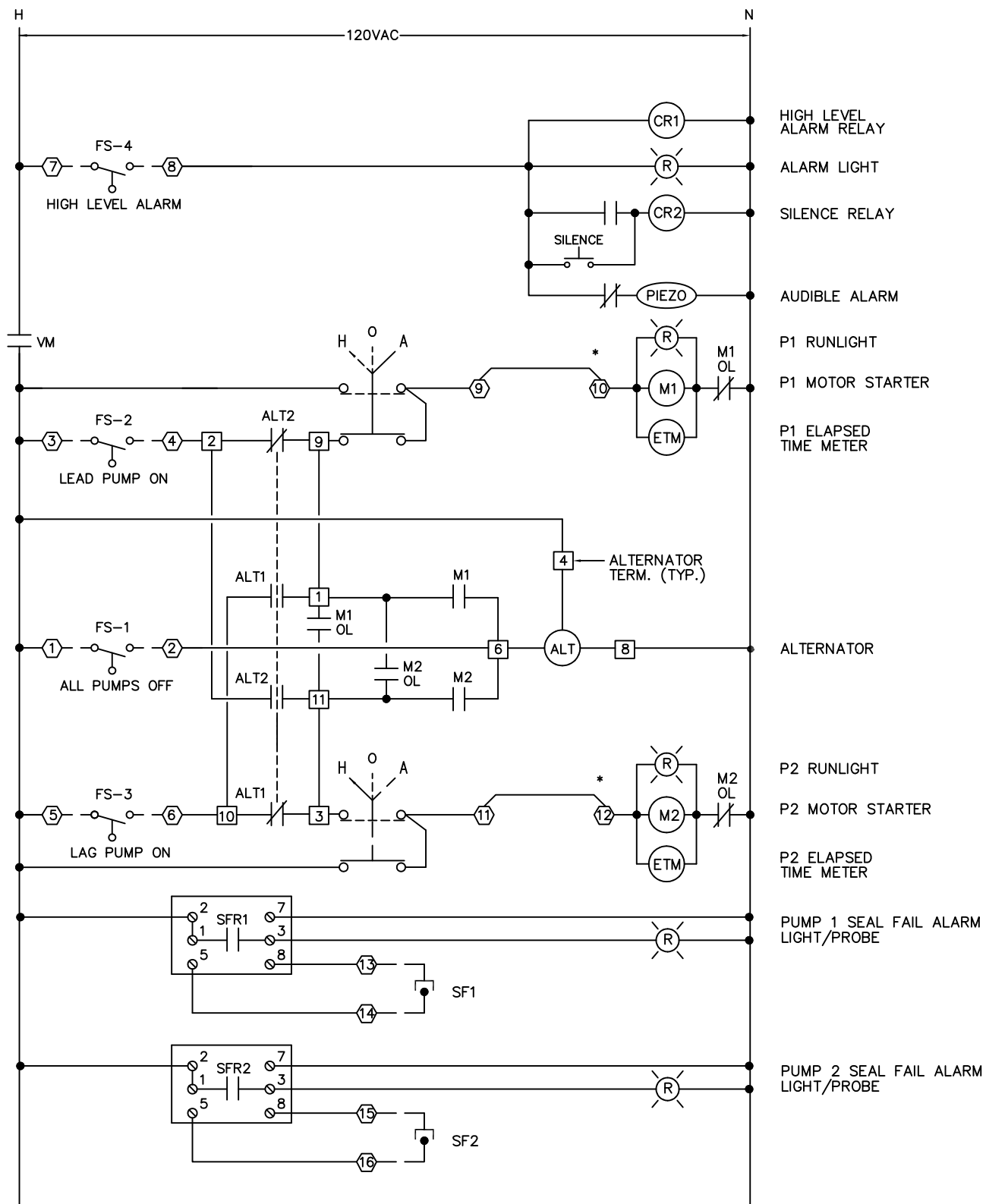
Panel Type	Duplex
Voltage	120/208
Phase/HZ	1/60
No. Motors	2
HP	2
FLA	17
Pump Manufacturer	Barnes
Type of Pump	-
Catalog Number	SGVF2002L
Capacitors	Yes
Control Voltage	120
Control Power Transformer VA=	No
Enclosure NEMA Rating	4X
Enclosure Material	Fiberglass
Enclosure Size	18x16x10
Inner Swing Panel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

Alarm Light - Panel Door Mount	
Alarm Light - Panel Top Mount	X
Alarm Light - Remote	
Alarm Test Switch	
Alarm Silence Switch	
Alarm Acknowledge Switch	X
Alternator with Lead Pump Selector Switch	X
Audible Alarm - Bell	
Audible Alarm - Horn	
Audible Alarm - Piezo	X
COX™ CAMO™ System	
Cycle Counters	
Economy Version	
Elapsed Time Meter	X
Flasher	
Green Run Lights vs. Red	
Ground Fault Receptacle	X
High Temp Lights	
High Temp Pump Shutdown - Auto Reset	X
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	
Seal Fail Lights	X
Seal Fail Relay - Fixed	
Seal Fail Relay - Adjustable	X
Seal Fail Shutdown	
Starters - IEC	
Starters - NEMA	X
Unpowered Alarm Circuits #1	X
OTHER:	

	Drawing Title PANEL DESCRIPTION								
DATE 11/08/22		REFERENCE DRAWING S/N	NO. Sales Engineer T.L.	REVISION-LOCATION Application Engineer T.L.	ECN	DATE	BY		
				DRAWN BY NCR	APPROVED BY DATE				
	Project Title DUPLEX PUMP CONTROL PANEL	<div>COX</div> <div>Research and Technology, Inc.</div>			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		

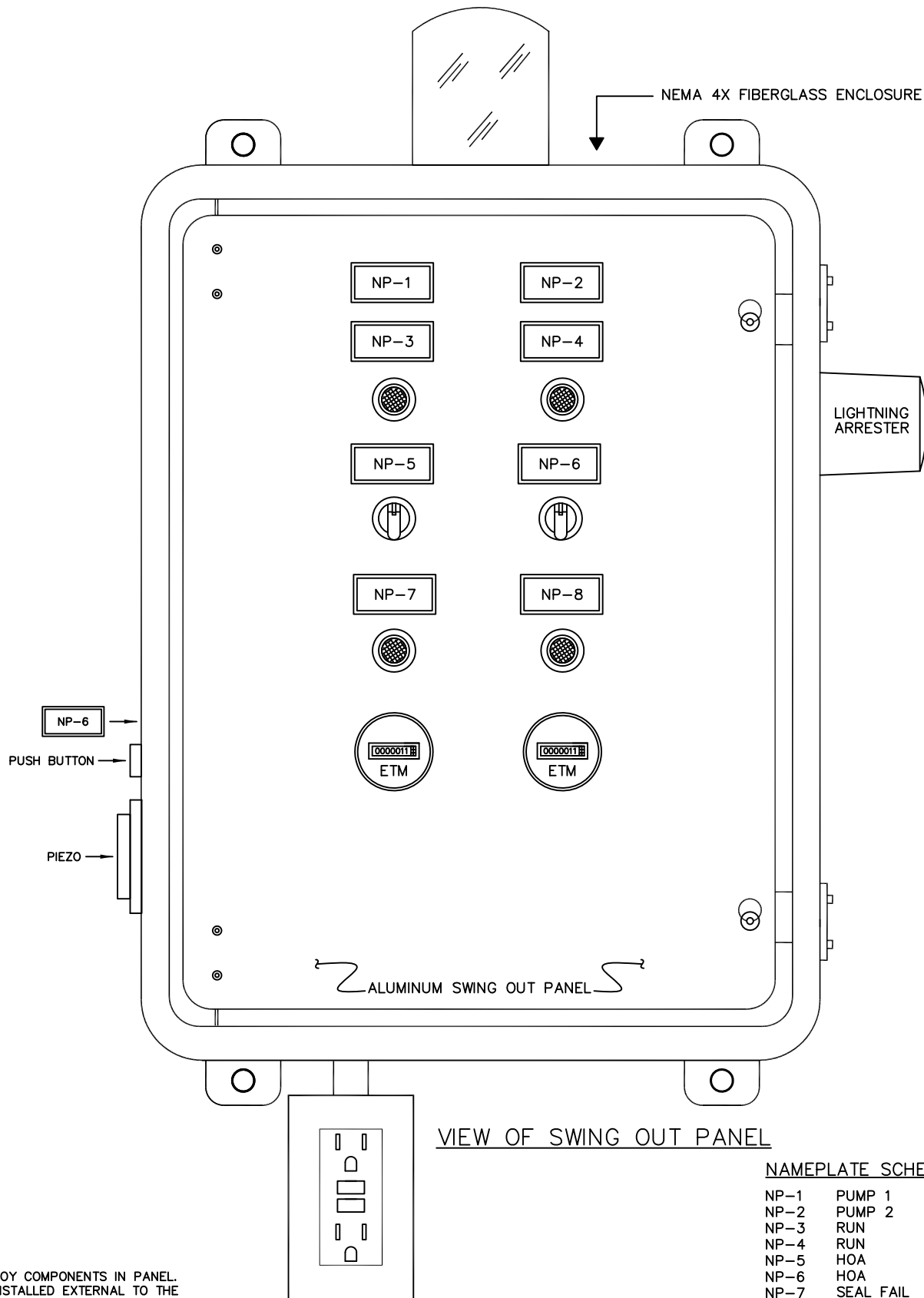


	Drawing Title								
	POWER DIAGRAM								
DATE 11/08/22		REFERENCE DRAWING S/N	NO. Sales Engineer T.L.	REVISION-LOCATION Application Engineer T.L.	DRAWN	ECN	DATE	BY	APPROVED
	Project Title	COX Research and Technology, Inc.			P.O. Box 77808 Baton Rouge, LA 70809	PURCHASE ORDER NUMBER			
	DUPLEX PUMP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



* REMOVE JUMPERS AND INSTALL LOCKOUT DEVICES IF REQUIRED

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



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

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

	Drawing Title ENCLOSURE								
DATE 11/08/22			REFERENCE DRAWING S/N		NO. Sales Engineer T.L.	REVISION-LOCATION Application Engineer T.L.		DRAWN BY NCR	ECN BY
	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		

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	PIEZO
23	1	ABB	CP110B-11	PUSH BUTTON
24				
25				

	Drawing Title							
	BILL OF MATERIALS							
DATE 11/08/22		REFERENCE DRAWING S/N	NO. Sales Engineer T.L.	REVISION-LOCATION Application Engineer T.L.	DRAWN BY NCR	ECN	DATE	BY
						APPROVED BY	DATE	
	Project Title	<div style="border: 1px solid black; padding: 5px; margin: 0 auto; width: 150px;"> COX </div> 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							