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# COX

Research and Technology, Inc.

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## DUPLEX PUMP CONTROL PANEL

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

CP-2037

SOLD TO: Delta Process - Ruston, LA	SHIP TO: Delta Process - Ruston, LA
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TAG:	
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SPECIAL NOTES:	
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Panel Type	Duplex
Voltage	120/240V
Phase/HZ	1/60
No. Motors	2
HP	2
FLA	15
Pump Manufacturer	Barnes
Type of Pump	Submersible
Catalog Number	SGVF2022L
Capacitors	Yes
Control Voltage	120V
Control Power Transformer VA =	No
Enclosure NEMA Rating	4X
Enclosure Material	Fiberglass
Enclosure Size	16x14x8
Inner Swing Panel	No
Control Sensor	Floats
UL508A Labeling	No
UL698A Labeling	No

Alarm Light - Panel Door Mount	
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Alarm Light - Panel Top Mount	X
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Alarm Light - Remote	
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Alarm Test Switch	
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Alarm Silence Switch	
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Alarm Acknowledge Switch	
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Alternator with Lead Pump Selector Switch	
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Audible Alarm - Bell	
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Audible Alarm - Horn	
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Audible Alarm - Piezzo	
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Cycle Counters	
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Economy Version	X
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Elapsed Time Meters	
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Flasher	
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Green Run Lights vs. Red	
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Ground Fault Receptacle	
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High Temp Lights	
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High Temp Pump Shutdown - Auto Reset	
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High Temp Pump Shutdown - Manual Reset	
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Intrinsically Safe Relays Pts	
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Lightning Arrestor	
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Main Disconnect with door Mt. Handle	
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Panel Heater/Thermostat W =	
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Phase Monitor	
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Pole, Box, Seal	
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Seal Fail Lights	X
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Seal Fail Relay - Fixed	
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Seal Fail Relay - Adjustable	
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Seal Fail Shutdown	
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Starters - IEC	
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Starters - NEMA	X
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Unpowered Alarm Circuits #	
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OTHER:	
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Drawing Title	
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PANEL DESCRIPTION	
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DATE 05/01/07	
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S/N	REFERENCE DRAWING		NO. C.C.	REVISION-LOCATION		ECN DRAWN BY	DATE APPROVED BY	BY
	Sales Engineer	Application Engineer		DRAWN BY	COREYC			

Project Title	
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DUPLEX PUMP CONTROL PANEL	
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COX
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Research and Technology, Inc.
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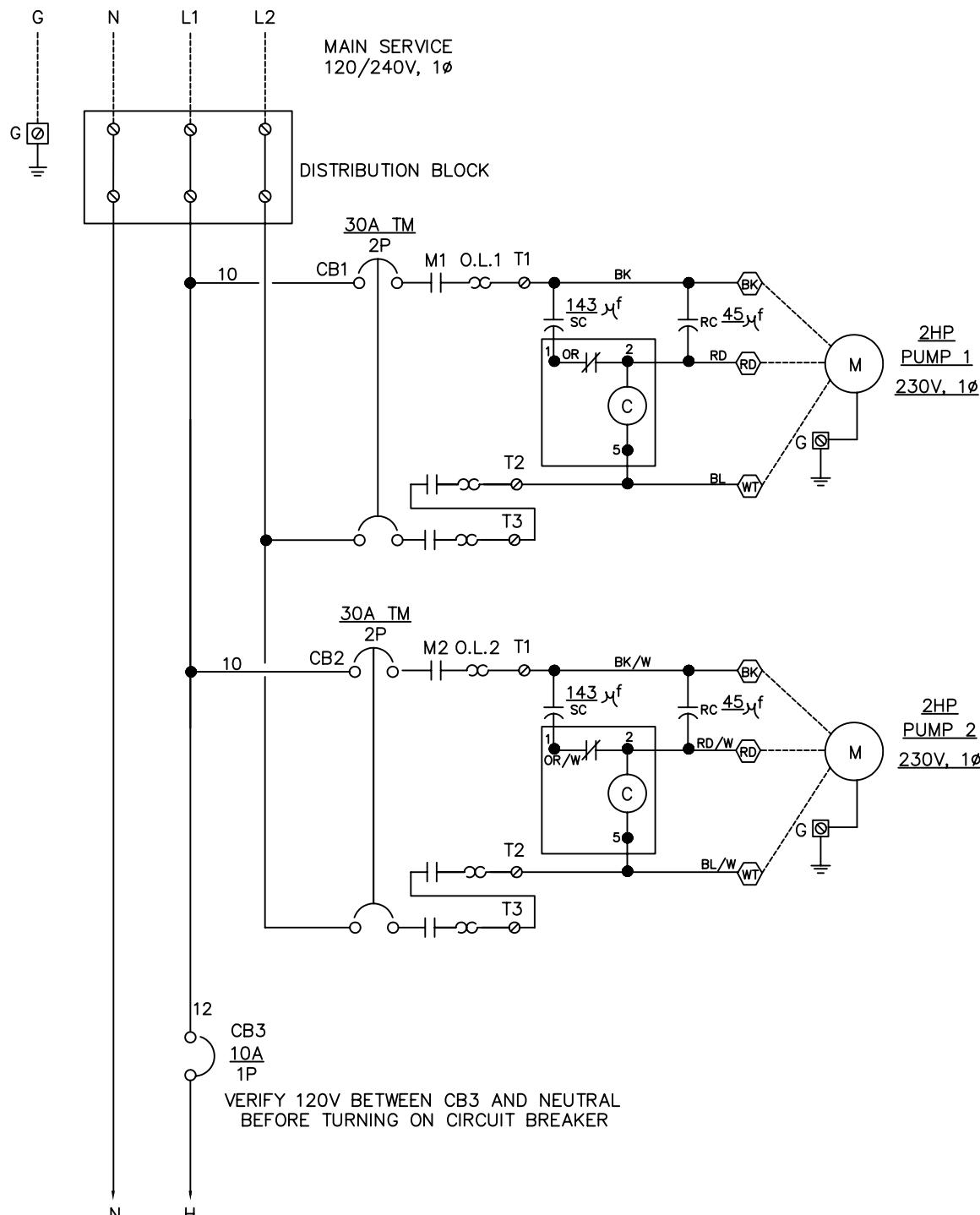
P.O. Box 77808 Baton Rouge, LA 70809
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Ph. (225)756-3271 Fax (225)755-1030
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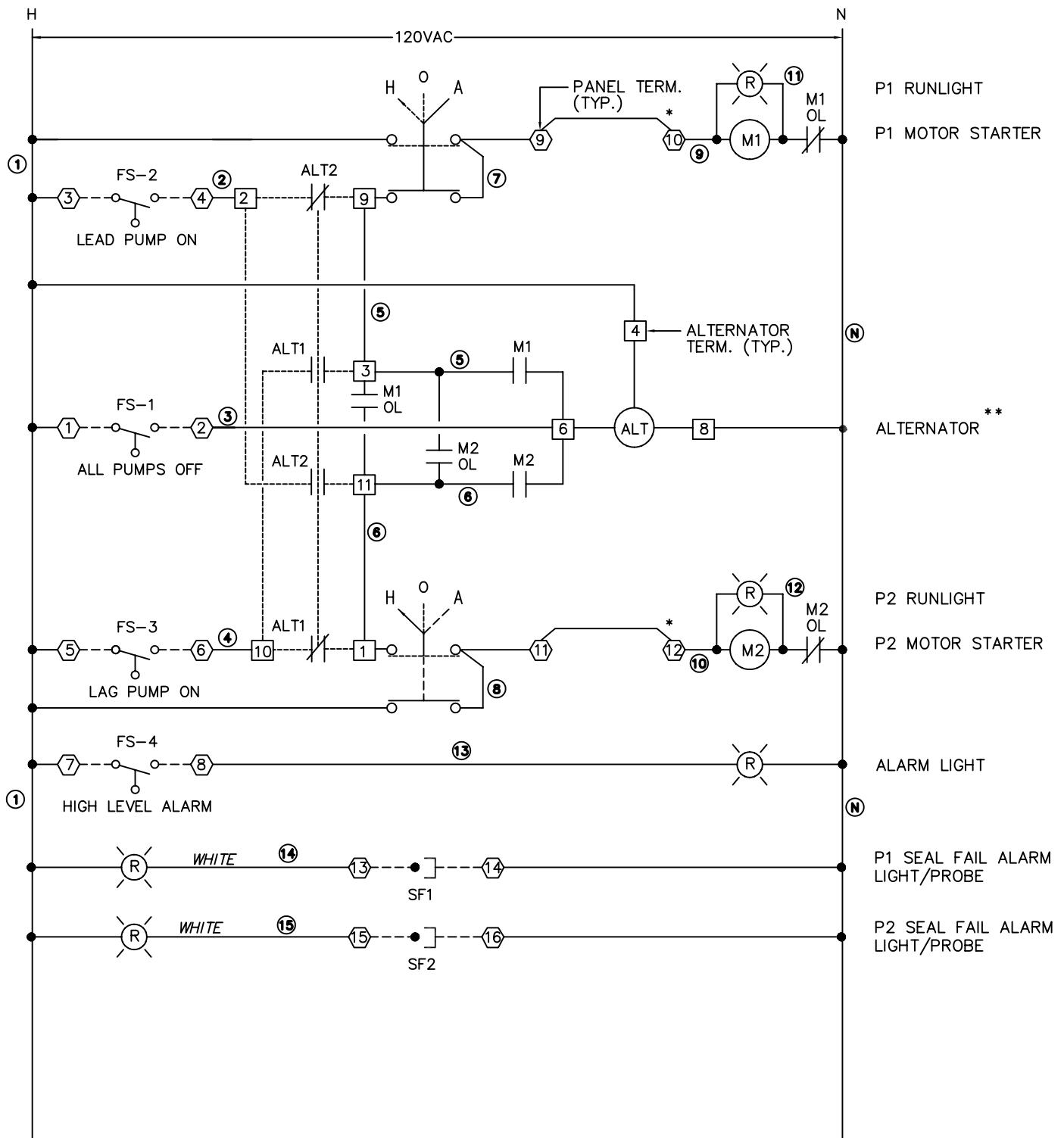
PURCHASE ORDER NUMBER
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DRAWING NUMBER CP-2037
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SHEET NUMBER 1
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	Drawing Title  POWER DIAGRAM			
		REFERENCE DRAWING S/N	NO. Sales Engineer C.C.	REVISION-LOCATION DRAWN BY COREYC
DATE 05/01/07		Application Engineer R.C.		ECN APPROVED BY DATE
	Project Title  DUPLEX PUMP CONTROL PANEL	<hr/> <hr/> <b>COX</b> <hr/> <hr/> 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-2037  SHEET NUMBER 2



Drawing Title  
**CONTROL DIAGRAM**

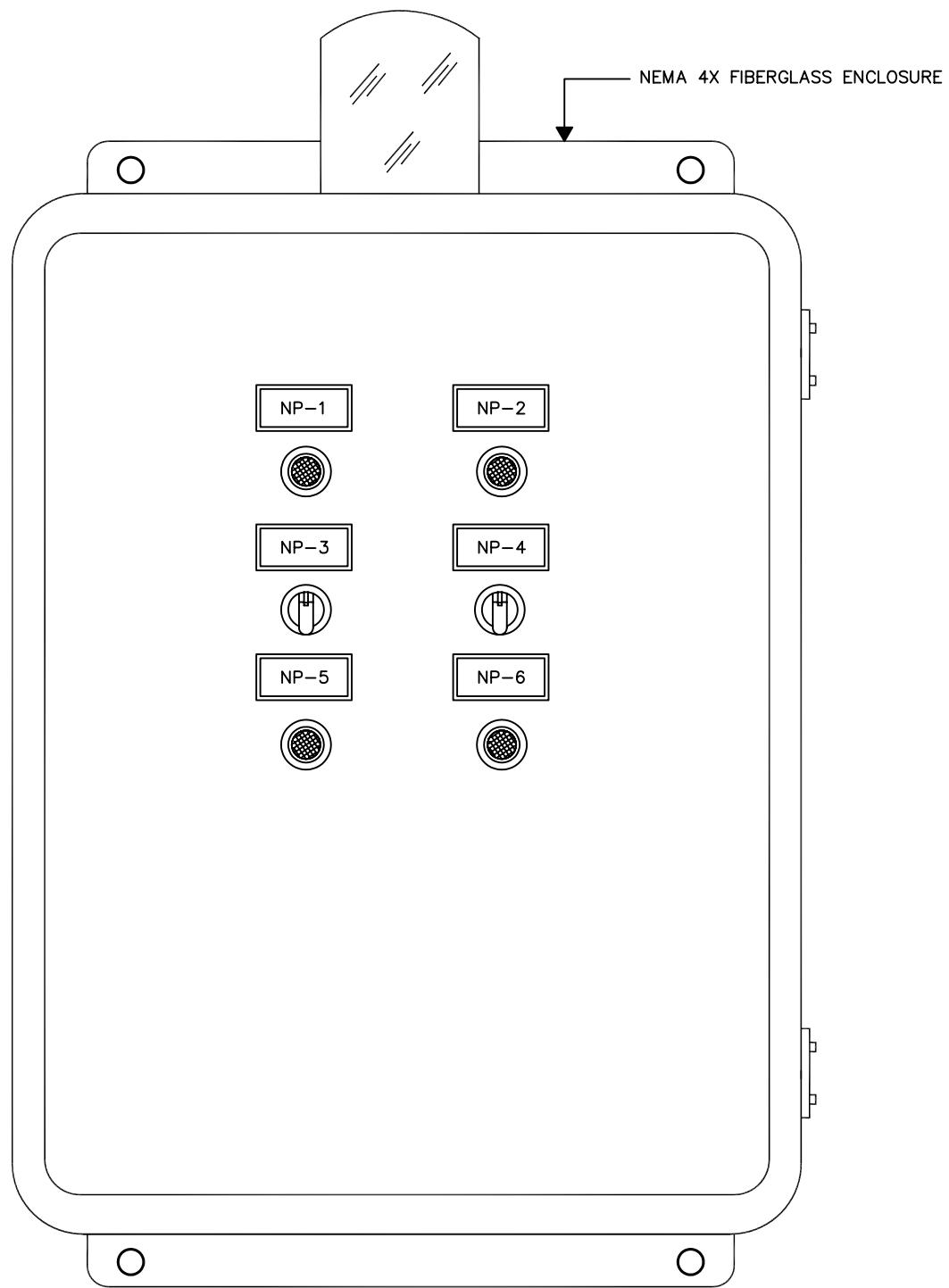
DATE  
05/01/07

Project Title  
**DUPLEX PUMP  
CONTROL PANEL**

**COX**  
Research and Technology, Inc.

P.O. Box 77808  
Baton Rouge, LA  
70809  
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Fax (225)755-1030

PURCHASE ORDER NUMBER	
DRAWING NUMBER CP-2037	
SHEET NUMBER 3	



VIEW OF FRONT OF PANEL

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

NOTE:

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

Drawing Title  <b>ENCLOSURE</b>  DATE 05/01/07						
	REFERENCE DRAWING S/N	NO. Sales Engineer C.C.	REVISION-LOCATION Application Engineer R.C.	ECN DRAWN BY COREYC	DATE APPROVED BY	BY
Project Title  <b>DUPLEX PUMP CONTROL PANEL</b>	<hr/> <b>COX</b> <hr/> Research and Technology, Inc. <hr/>			P.O. Box 77808 Baton Rouge, LA 70809  Ph. (225)756-3271 Fax (225)755-1030	PURCHASE ORDER NUMBER  DRAWING NUMBER CP-2037  SHEET NUMBER 4	

# BILL OF MATERIALS

ITEM	QTY	MANUFACTURER	PART NO.	DESCRIPTION
1	1	STAHLIN	RJ1614HPL	ENCLOSURE
1a	1	STAHLIN	BP1614AL	BACKPLATE
2	1	MARATHON	1323580	DISTRIBUTION BLOCK
3	2	ABB	A16-30-10-84	MOTOR STARTER
4	2	ABB	TA25DU19	O.L. RELAY (13-19A)
5	2	SQUARE D	QOU230	CB1, CB2
6	1	DIVERSIFIED	ARB-120-ADA	ALTERNATING RELAY
7	4	ABB	CL100R	RED PILOT LIGHT
8	2	ABB	C3SS1-10B-20	HOA SWITCH
9	1	CONERY	R15-XLS	ALARM LIGHT
10	2	CGE	4CU54	START CAPACITOR $143\mu F$
11	2	DAYTON	2GU20	RUN CAPACITOR $45\mu F$
12	2	GE	6X559	START RELAY
13	1	SQUARE D	QOU110	CB3
14				
15				
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	Drawing Title								
	BILL OF MATERIALS								
			REFERENCE DRAWING		NO.	REVISION-LOCATION	ECN	DATE	BY
DATE 05/01/07			S/N	Sales Engineer	Application Engineer	DRAWN	APPROVED		
				C.C.	R.C.	BY COREYC	BY	DATE	
	Project Title		 COX <small>Research and Technology, Inc.</small>			P.O. Box 77808 Baton Rouge, LA 70809  Ph. (225)756-3271 Fax (225)755-1030			
	DUPLEX PUMP CONTROL PANEL								
				PURCHASE ORDER NUMBER					
				DRAWING NUMBER					
				CP-2037					
				SHEET NUMBER					
				5					