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# COX

Research and Technology, Inc.

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## DUPLEX PUMP CONTROL PANEL CENTER TEXAS

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

VOLTAGE	120/240V	(480V, 277/480V, 240V, 120/240V, 208V, 120/208V)
PHASE/HZ	3/60	
NO. MOTORS	2	
HP	10	
FLA	27	
TYPE OF PUMP	Submersible	(Self-Priming, Submersible)
MANUFACTURER	BARNES	
CATALOG NUMBER	4XSE10034HA	
CONTROL VOLTAGE	120V	(120V, Other)
ENCLOSURE	NEMA 4X	(NEMA 1, NEMA 3R, NEMA 4, NEMA 4X)
ENCLOSURE MATERIAL	Fiberglass	(Painted Steel, Stainless Steel, Fiberglass)
CONTROL SENSOR	Floats	(Floats, Bubbler, Other)
CAPACITORS	No	(Yes, No)
CAPACITOR WIRING FIGURE	N/A	
THERM. & SEAL FAIL WIRING FIGURE		

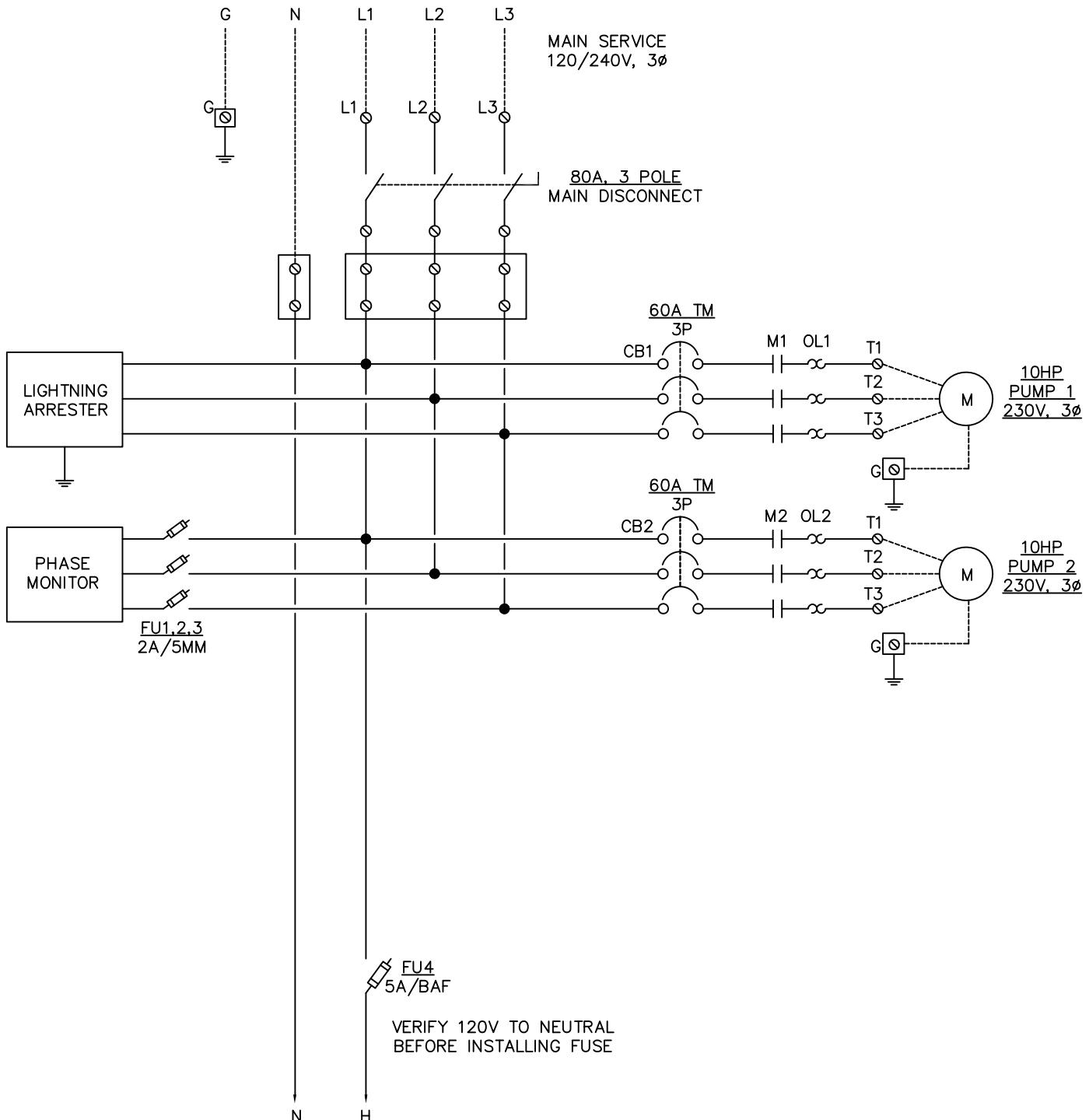
OPTIONS:

SEAL FAIL LIGHTS	X	(Submersible Only)
SEAL FAIL RELAYS	X	(Submersible Only)
SEAL FAIL PUMP SHUTDOWN		(Submersible Only)
HT PUMP SHUTDOWN	X	(Self-Primer, Submersible)
ALARM HORN		
ALARM LIGHT	X	
LIGHT PANEL MTD	X	
LIGHT REMOTE MTD		
LIGHT FLASHER		
LIGHTNING ARRESTER	X	
ELAPSED TIME METER	X	
PHASE MONITOR	X	
NEMA RATED STARTERS		
GROUND FAULT RECPT.		
GREEN RUN LIGHTS VS. RED	X	
POLE, BOX, SEAL		
INTRINSICALLY SAFE RELAYS		
HIGH TEMP. LOCKOUT, MANUAL RESET		
ECONOMY VERSION		

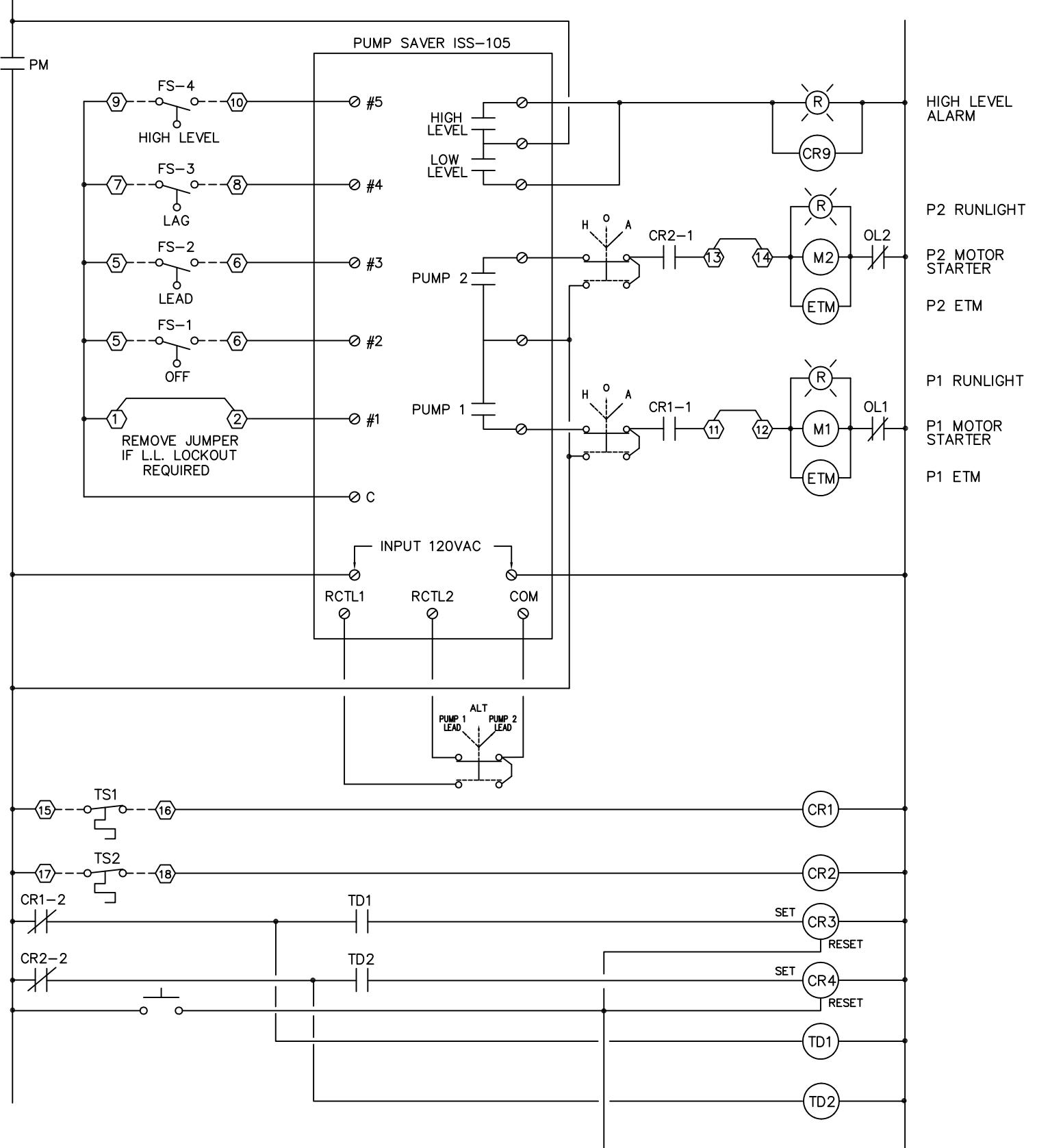
SOLD TO: Delta Process - Bossier City, LA  
TAG : Center, Texas

SHIP TO: Delta Process - Ruston, LA

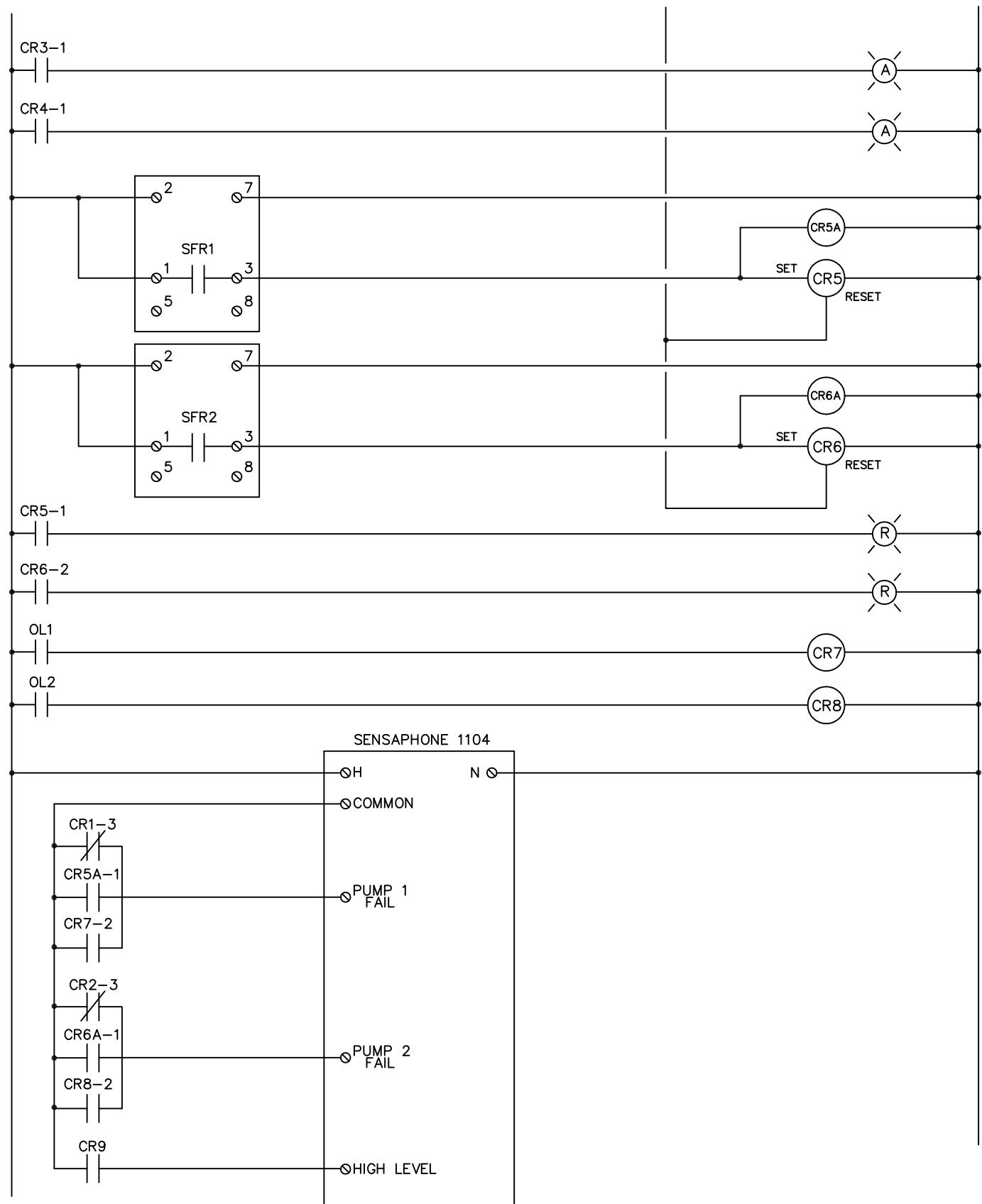
	Drawing Title  <b>PANEL DESCRIPTION</b>					
DATE 10/21/04	REFERENCE DRAWING S/N	NO. Sales Engineer C.C.	REVISION-LOCATION DRAWN BY C. RACHAL	ECN	DATE	BY
	Project Title  <b>DUPLEX PUMP CONTROL PANEL</b>	<b>COX</b> Research and Technology, Inc.	P.O. Box 77808 Baton Rouge, LA 70809  Ph. (225)756-3271 Fax (225)755-1030	PURCHASE ORDER NUMBER  DRAWING NUMBER CP-1934  SHEET NUMBER 1		



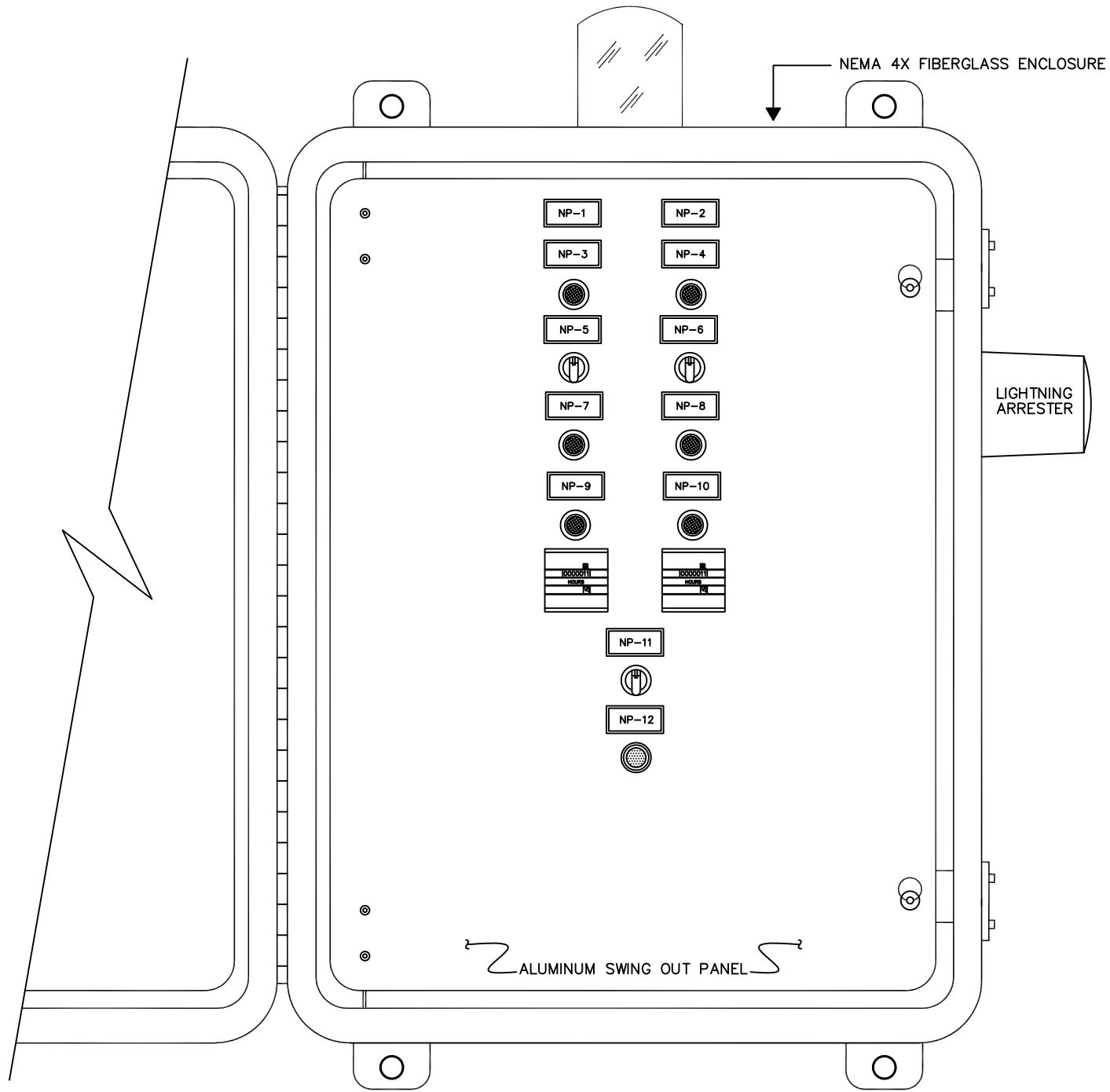
	Drawing Title					
	POWER DIAGRAM					
DATE 10/21/04	REFERENCE DRAWING S/N	NO. Sales Engineer C.C.	REVISION-LOCATION Application Engineer R.C.	ECN DRAWN BY C. RACHAL	DATE APPROVED BY DATE	BY
Project Title DUPLEX PUMP CONTROL PANEL	<u>COX</u> Research and Technology, Inc.			P.O. Box 77808 Baton Rouge, LA 70809 Ph. (225)756-3271 Fax (225)755-1030	PURCHASE ORDER NUMBER DRAWING NUMBER CP-1934 SHEET NUMBER 2	



	Drawing Title  CONTROL DIAGRAM					
		REFERENCE DRAWING S/N	NO. Sales Engineer C.C.	REVISION-LOCATION DRAWN BY C. RACHAL	ECN	DATE APPROVED BY DATE
DATE 10/21/04		Application Engineer R.C.				
	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-1934  SHEET NUMBER 3	



	Drawing Title						
	CONTROL DIAGRAM						
DATE 10/21/04	REFERENCE DRAWING S/N	NO. Sales Engineer C.C.	REVISION-LOCATION DRAWN BY C. RACHAL	ECN	DATE	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)755-1030	PURCHASE ORDER NUMBER DRAWING NUMBER CP-1934 SHEET NUMBER 4	



### VIEW OF SWING OUT PANEL

#### NAMEPLATE SCHEDULE

NP-1	PUMP 1	NP-9	SEAL FAIL
NP-2	PUMP 2	NP-10	SEAL FAIL
NP-3	RUN	NP-11	PUMP 1 LEAD ALT PUMP 2 LEAD
NP-4	RUN	NP-12	ALARM RESET
NP-5	HOA	NP-12	
NP-6	HOA		
NP-7	HIGH TEMP		
NP-8	HIGH TEMP		

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					
	REFERENCE DRAWING	NO.	REVISION-LOCATION	ECN	DATE	BY
DATE 10/21/04	S/N	Sales Engineer	Application Engineer	DRAWN	APPROVED	
		C.C.	R.C.	BY C. RACHAL	BY	DATE
	Project Title					
	DUPLEX PUMP CONTROL PANEL		COX Research and Technology, Inc.		PURCHASE ORDER NUMBER	
					DRAWING NUMBER	CP-1934
					SHEET NUMBER	5

# BILL OF MATERIALS

ITEM	QTY	MANUFACTURER	PART NO.	DESCRIPTION
1	1	ALLIED	AM30240RLDF	ENCLOSURE
1a	1	ALLIED	MP3024A	BACKPLATE
2	1	ABB	OT63E3	MAIN DISC. SWITCH
3	2	ABB	A40-30-10-84	MOTOR STARTER
4	2	ABB	TA42DU32	O.L. RELAY (22-32A)
5	2	SQUARE D	QOU360	CB1, CB2
6	2	ACI	JR22FR	RED PILOT LIGHT
7	3	ACI	JR22P3M20B	HOA SWITCH
8	1	AC/DC	BL5-R-120	ALARM LIGHT
9	1	DELTA	LA603	LIGHTNING ARRESTER
10	1	SSAC	PLMU-11	PHASE MONITOR
11	2	REDINGTON	711-0190	ELAPSED TIME METER
12	2	SSAC	LLC54AA	SEAL FAIL RELAY
13	2	ACI	JR22FG	GREEN PILOT LIGHT
14	2	ACI	JR22FY	AMBER PILOT LIGHT
15	1	SYMCOM	PUMP SAVER ISS-105	PUMP CONTROLLER
16	1	MARATHON	1323580	DISTRIBUTION BLOCK
17	1	MARATHON	1321580	NEUTRAL BLOCK
18	2	IDECA	RU4S-A110	CR1,2
19	4	MAGNECRAFT	W388AMLCPX-9	CR3,4,5,6
20	5	IDECA	RU2S-A110	CR5A,6A,7,8,9
21	2	OMRON	H3YNAC120	TIME DELAY 1,2
22	1	SENSAPHONE	1104	TELEPHONE DIALER
23	1	ACI	JR22AN11B	PUSH BUTTON
24				
25				

	Drawing Title  <b>BILL OF MATERIALS</b>						
		REFERENCE DRAWING S/N	NO. Sales Engineer C.C.	REVISION-LOCATION DRAWN BY C. RACHAL	ECN	DATE	BY APPROVED DATE
DATE 10/21/04		Application Engineer R.C.					
	Project Title  <b>DUPLEX PUMP CONTROL PANEL</b>	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-1934 SHEET NUMBER 6	