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# COX

Research and Technology, Inc.

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DUPLEX PUMP  
CONTROL PANEL  
HARBOR CENTER S.T.P. GOV

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	1/60	
NO. MOTORS	2	
HP	5	
FLA	25	
TYPE OF PUMP	Submersible	(Self-Priming, Submersible)
MANUFACTURER	Hydromatic	
CATALOG NUMBER		
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	Yes	(Yes, No)
CAPACITOR WIRING FIGURE		
THERM. & SEAL FAIL WIRING FIGURE		

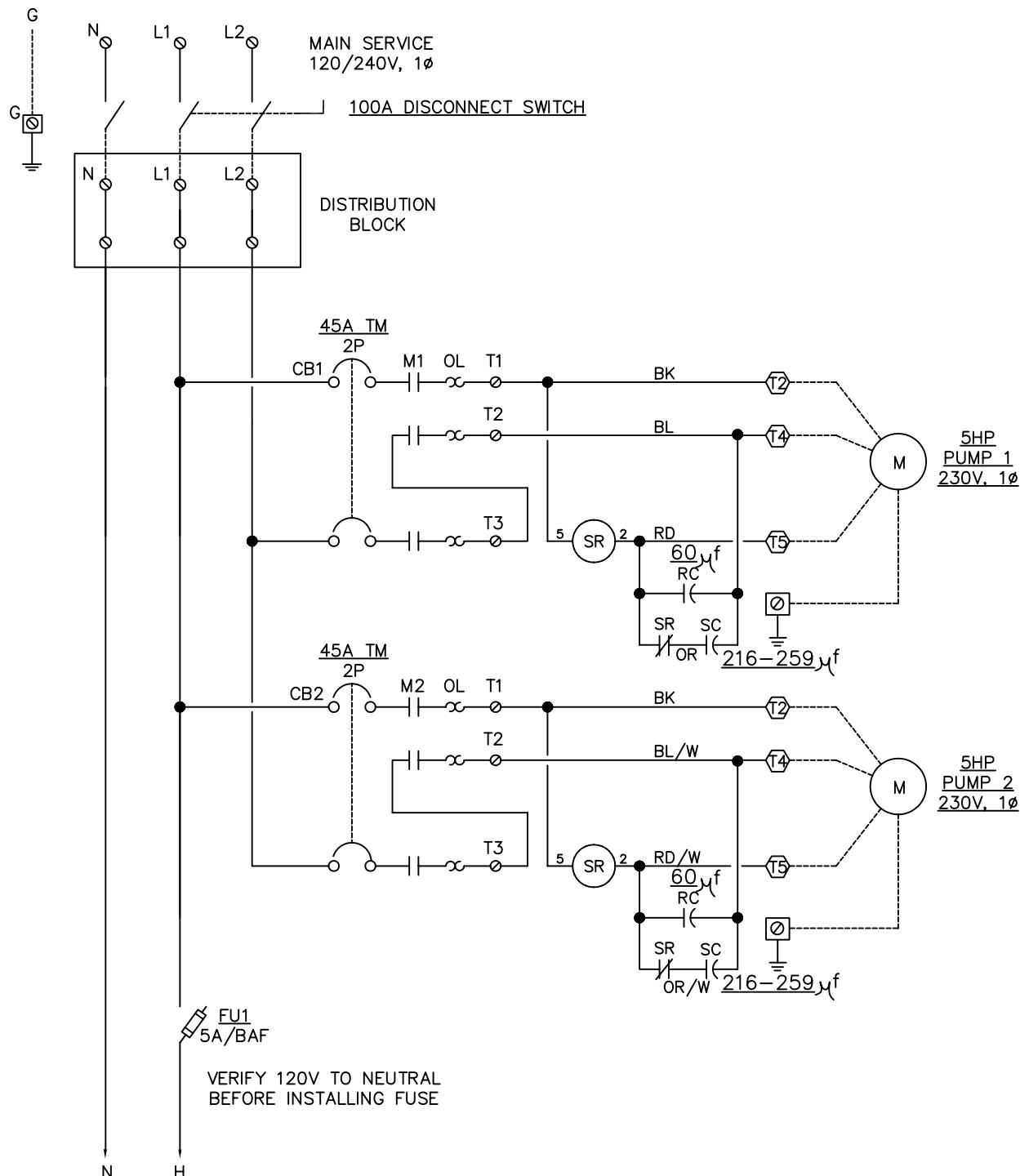
OPTIONS:

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

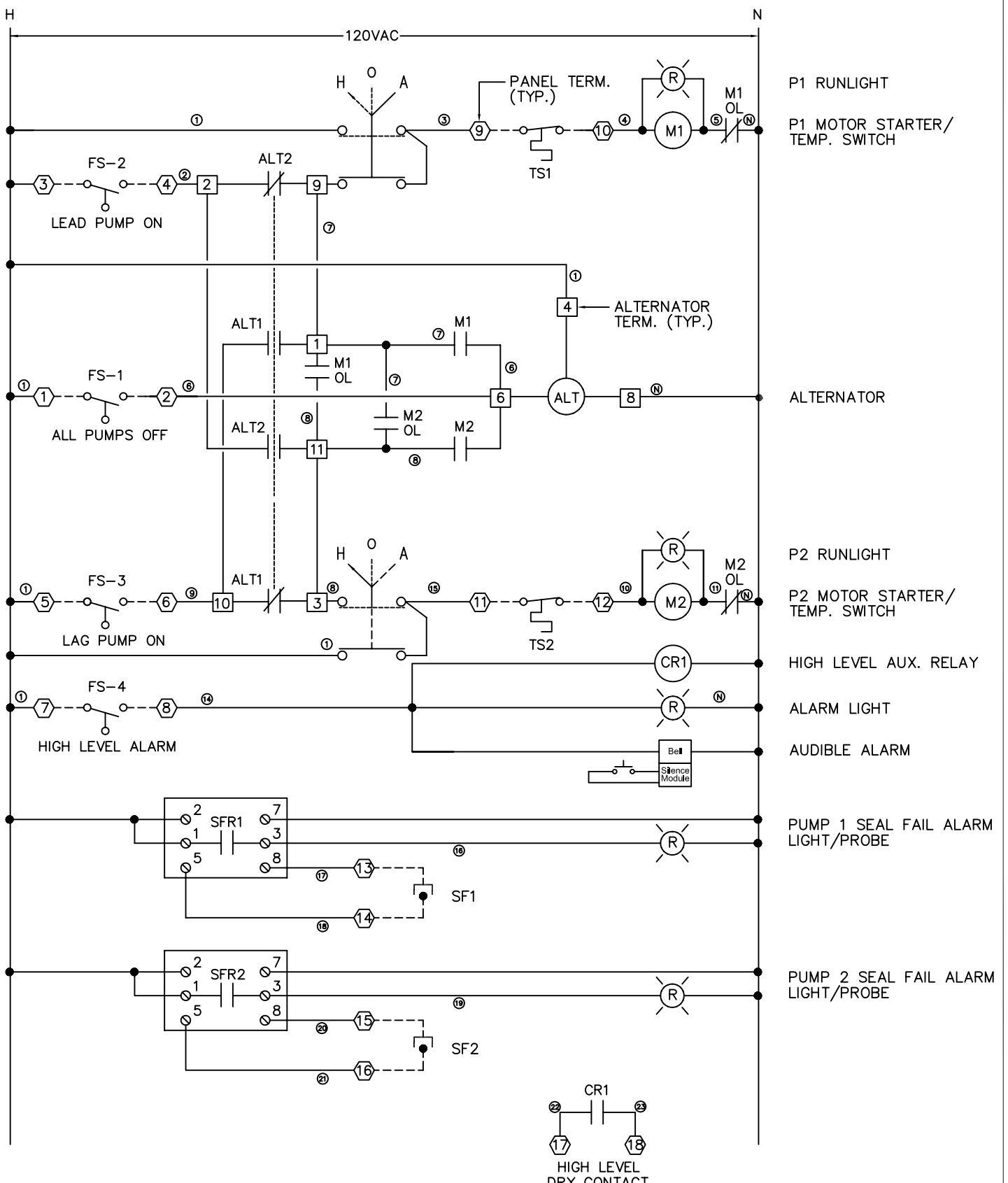
SOLD TO: Delta Process - Denham Springs, LA  
TAG : HARBOR CENTER S.T.P. GOV

SHIP TO: Delta Process - Ruston, LA

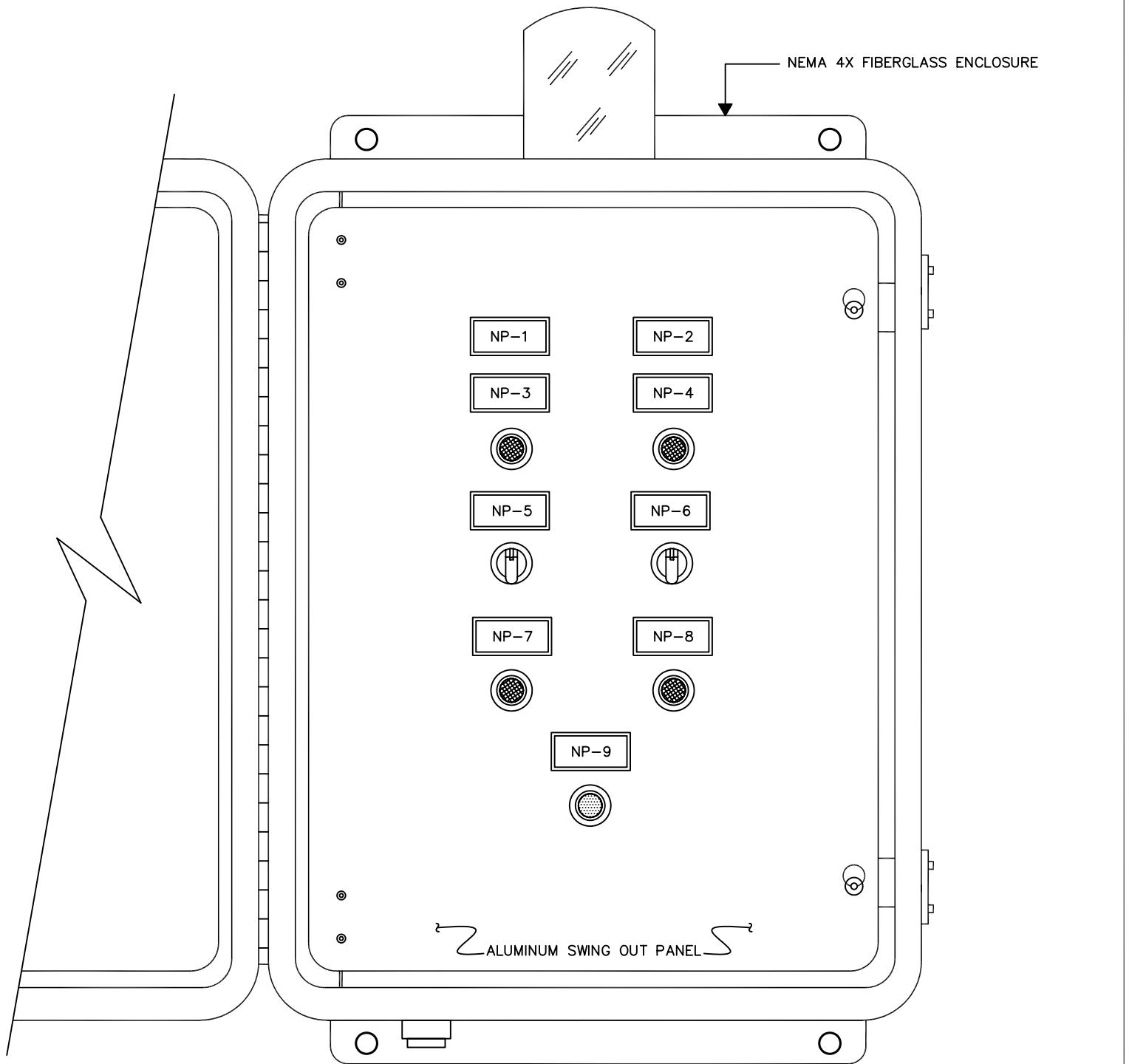
DATE 10/11/05	Drawing Title  PANEL DESCRIPTION								
		REFERENCE DRAWING S/N	DRAWING NO. Sales Engineer C.C.	REVISION-LOCATION DRAWN Application Engineer R.C.	ECN	DATE	BY	APPROVED	
	Project Title  DUPLEX PUMP CONTROL PANEL			P.O. Box 77808 Baton Rouge, LA 70809				PURCHASE ORDER NUMBER	
				Ph. (225)756-3271 Fax (225)755-1030				DRAWING NUMBER	CP-2176
								SHEET NUMBER	1



	Drawing Title  POWER DIAGRAM			
DATE 10/11/05	REFERENCE DRAWING S/N	NO. Sales Engineer C.C.	REVISION-LOCATION DRAWN Application Engineer R.C.	ECN APPROVED BY C. RACHAL BY DATE
	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-2176 SHEET NUMBER 2



	Drawing Title				
<b>CONTROL DIAGRAM</b>					
DATE 10/11/05	REFERENCE DRAWING S/N	NO. Sales Engineer C.C.	REVISION-LOCATION Application Engineer R.C.	ECN DRAWN BY C. RACHAL	DATE APPROVED BY DATE
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-2176 SHEET NUMBER 3



### VIEW OF SWING OUT PANEL

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  <b>ENCLOSURE</b>				
	REFERENCE DRAWING S/N	NO. Sales Engineer C.C.	REVISION-LOCATION Application Engineer R.C.	ECN DRAWN BY C. RACHAL
				DATE APPROVED BY DATE
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-2176  SHEET NUMBER 4

# BILL OF MATERIALS

ITEM	QTY	MANUFACTURER	PART NO.	DESCRIPTION
1	1	STAHLIN	RJ1816HWPLDF	ENCLOSURE
1a	1	STAHLIN	BP1816AL	BACKPLATE
	1	MARATHON	1323580	DIST. BLOCK
2	2	ABB	A26-30-10-84	MOTOR STARTER
3	2	ABB	TA25DU25	O.L. RELAY (18-25A)
4	2	SQUARE D	QOU245	CB1, CB2
5	1	TIMEMARK	261DT120	ALTERNATING RELAY
6	4	ACI	JR22FR	RED PILOT LIGHT
7	2	ACI	JR22P3M20B	HOA SWITCH
8	1	AC/DC	BL5-R-120	ALARM LIGHT
9	1	ACI	JR22AN11B	PUSH BUTTON
10	1	ABB	OT100E3	DISCONNECT SWITCH
11	1	INGRAM	PW120AB	ALARM
12	1	INGRAM	SM120A	SILENCE MODULE
13	2	FRANKLIN ELECTRIC	279322122	RUN CAP 60μf @370V
14	2	FRANKLIN ELECTRIC	275468118	START CAP 216-259μf @330V
15	2	FRANKLIN ELECTRIC	155031102	START RELAY
16	2	ABB	LLC54AA	SEAL FAIL RELAY
17	1	IDEC	RH1BUAC110	CR1
18				
19				
20				
21				
22				
23				
24				

	Drawing Title  BILL OF MATERIALS						
DATE 10/11/05	REFERENCE DRAWING		NO.	REVISION-LOCATION	ECN	DATE	BY
	S/N	Sales Engineer C.C.	Application Engineer R.C.	DRAWN BY C. RACHAL	APPROVED BY	DATE BY	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-2176	
						SHEET NUMBER 5	