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# COX

Research and Technology, Inc.

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DUPLEX SELF PRIMING PUMP  
CONTROL PANEL  
MANDEVILLE, LA

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

CP-1643

VOLTAGE	120/240V	(480V, 277/480V, 240V, 120/240V, 208V, 120/208V)
PHASE/HZ	3/60	
NO. MOTORS	2	
HP	3	
FLA	8.1	
TYPE OF PUMP	Self-Priming	(Self-Priming, Submersible)
MANUFACTURER	GR	
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	No	(Yes, No)
CAPACITOR WIRING FIGURE		
THERM. & SEAL FAIL WIRING FIGURE		

## OPTIONS:

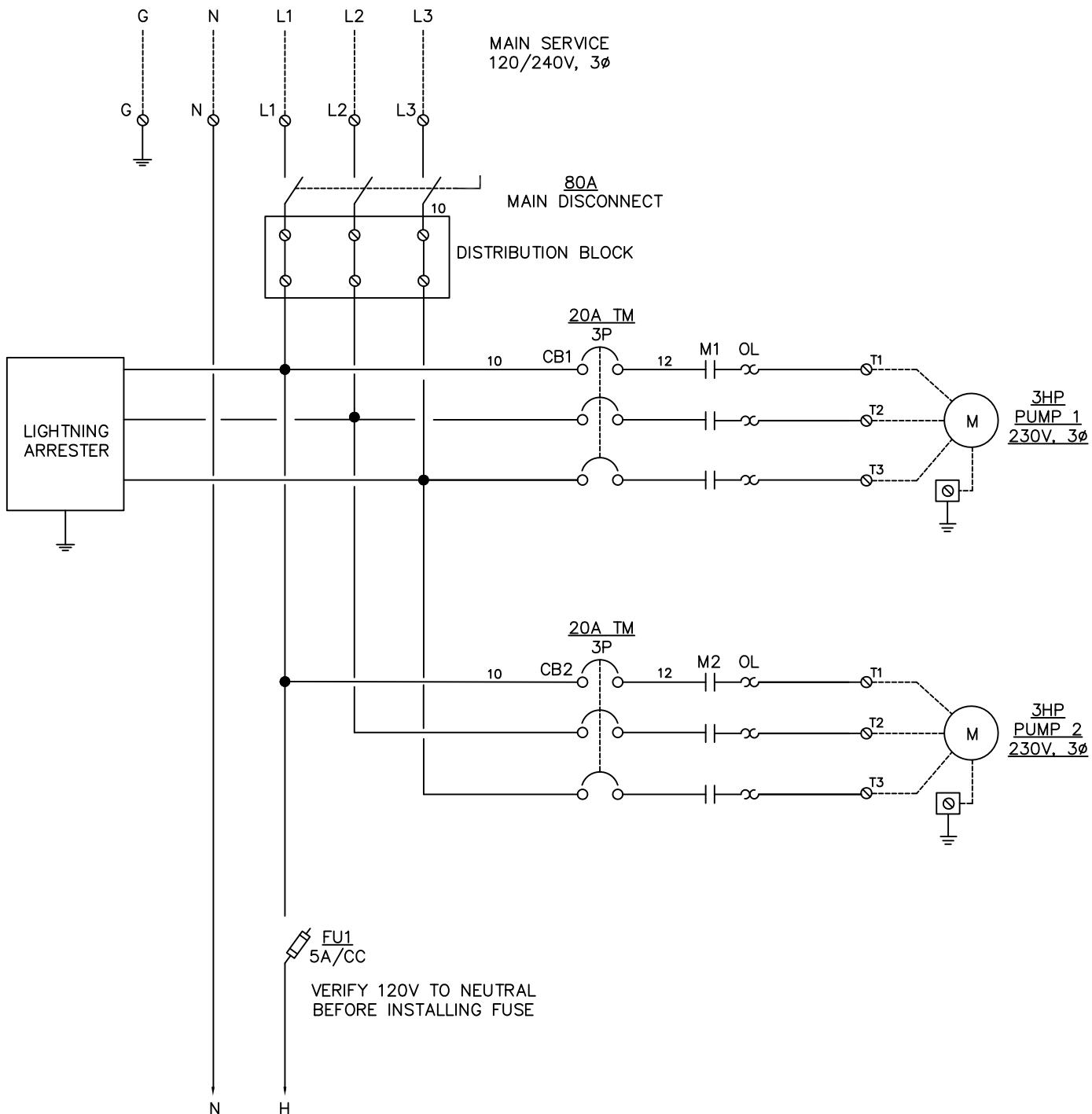
SEAL FAIL LIGHTS	<u>                  </u>	(Submersible Only)
SEAL FAIL RELAYS	<u>                  </u>	(Submersible Only)
SEAL FAIL PUMP SHUTDOWN	<u>                  </u>	(Submersible Only)
HT PUMP SHUTDOWN	<u>X</u>	(Self-Primer, Submersible)
ALARM HORN	<u>                  </u>	
ALARM LIGHT	<u>X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

SOLD TO: Delta Process - New Orleans, LA  
TAG : Duplex S.P. Pump Control Panel  
Mandeville, LA

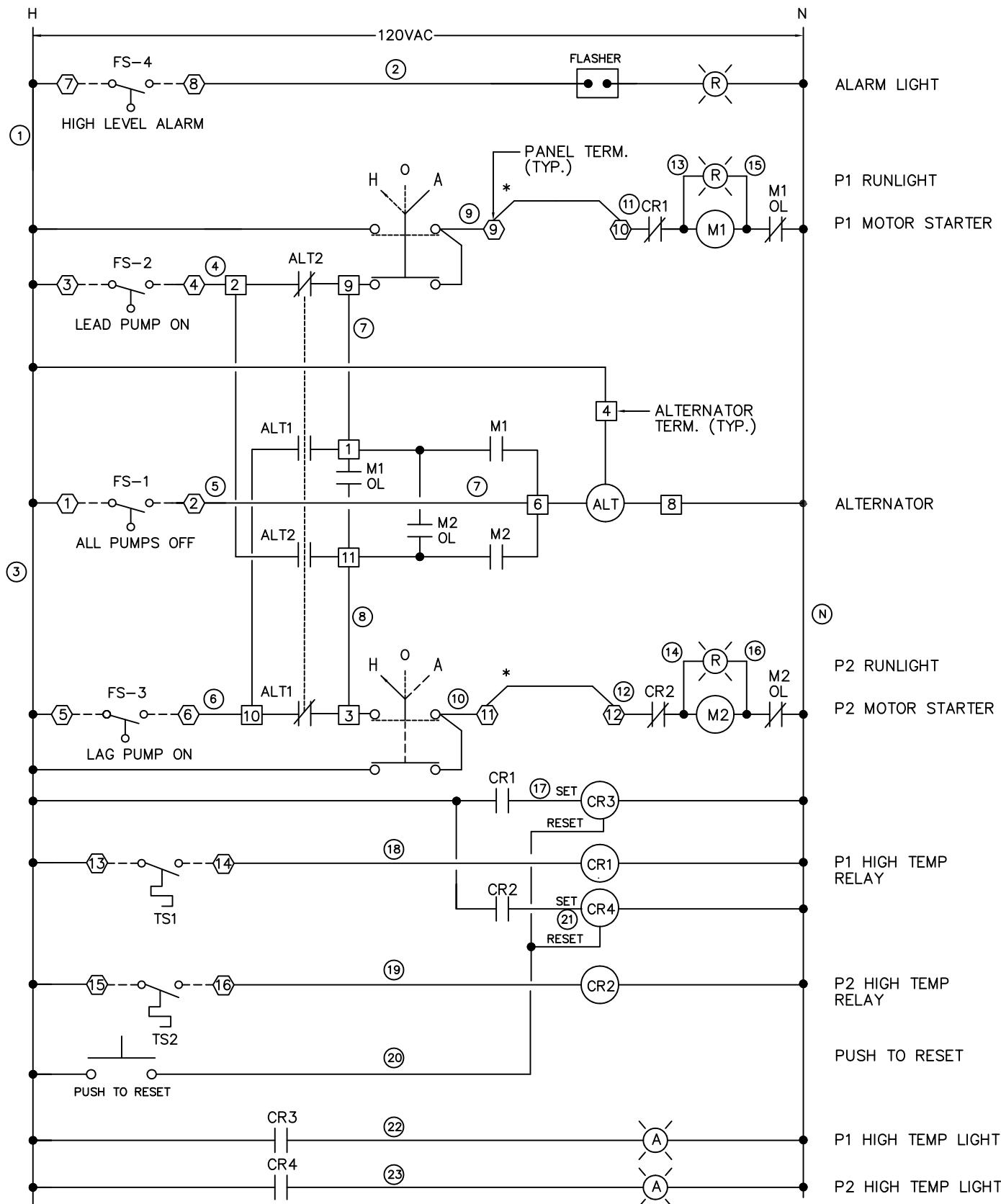
SHIP TO: Delta Process - Denham Springs, LA

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	Drawing Title  <b>PANEL DESCRIPTION</b>						
DATE 8/28/03		REFERENCE DRAWING S/N	NO. Sales Engineer C.C.	REVISION-LOCATION Application Engineer R.C.	DRAWN BY C. RACHAL	ECN APPROVED BY	DATE DATE
	Project Title  <b>DUPLEX S.P. PUMP CONTROL PANEL</b>	<hr/> <hr/> <b>COX</b> Research and Technology, Inc. <hr/> <hr/>			P.O. Box 77808 Baton Rouge, LA 70809	PURCHASE ORDER NUMBER	
					Ph. (225)756-3271 Fax (225)756-1030	DRAWING NUMBER CP-1643	
						SHEET NUMBER 1	



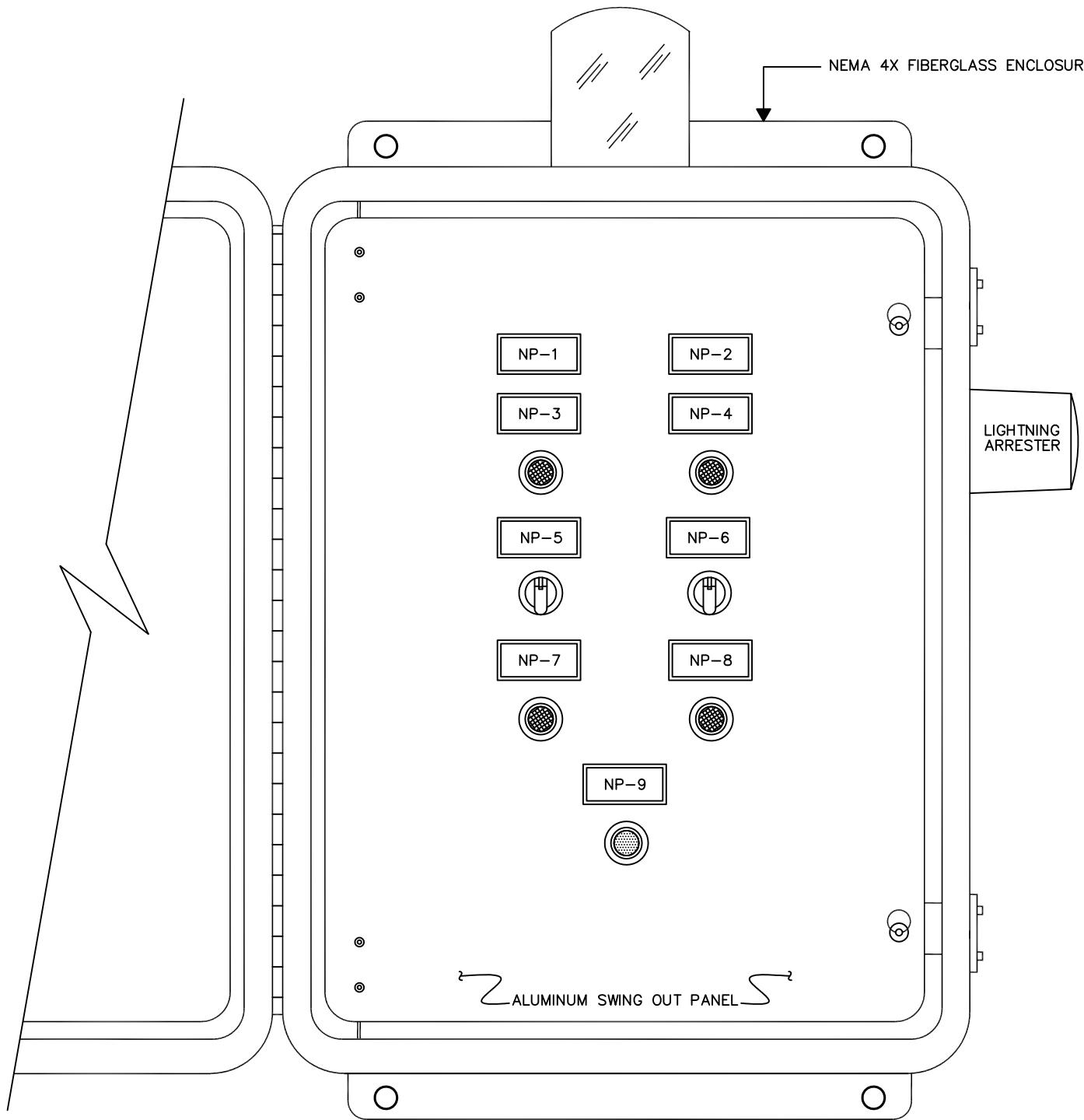
	Drawing Title  POWER DIAGRAM				
DATE 8/28/03	REFERENCE DRAWING S/N	NO. Sales Engineer C.C.	REVISION-LOCATION DRAWN BY C. RACHAL	ECN	DATE APPROVED BY DATE
Project Title  DUPLEX S.P. PUMP CONTROL PANEL	COX Research and Technology, Inc.	P.O. Box 77808 Baton Rouge, LA 70809  Ph. (225)756-3271 Fax (225)756-1030	PURCHASE ORDER NUMBER  DRAWING NUMBER CP-1643  SHEET NUMBER 2		



HIGH TEMP LOCKOUT, AUTO RESET ON PUMPS, MANUAL RESET ON LIGHTS

\* REMOVE JUMPERS AND INSTALL LOCKOUT DEVICES IF REQUIRED

Drawing Title							
	CONTROL DIAGRAM		REFERENCE DRAWING S/N	NO. C.C.	REVISION-LOCATION DRAWN BY C. RACHAL	ECN	DATE APPROVED BY DATE
DATE 8/28/03							
Project Title	<b>COX</b> Research and Technology, Inc.				PURCHASE ORDER NUMBER		
DUPLEX S.P. PUMP CONTROL PANEL					DRAWING NUMBER CP-1643		
					SHEET NUMBER 3		



#### NAMEPLATE SCHEDULE

NP-1	PUMP 1
NP-2	PUMP 2
NP-3	RUN
NP-4	RUN
NP-5	HOA
NP-6	HOA
NP-7	HIGH TEMP
NP-8	HIGH TEMP
NP-9	PUSH TO RESET

#### VIEW OF SWING OUT PANEL

**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 8/28/03	S/N	Sales Engineer C.C.	Application Engineer R.C.	DRAWN BY C. RACHAL	APPROVED BY DATE	
	Project Title	<hr/> <hr/> <hr/> <b>COX</b> <hr/> <hr/>			PURCHASE ORDER NUMBER	
	DUPLEX S.P. PUMP CONTROL PANEL	Research and Technology, Inc.			DRAWING NUMBER	CP-1643
					SHEET NUMBER	4

## BILL OF MATERIALS

ITEM	QTY	MANUFACTURER	PART NO.	DESCRIPTION
1	1	STAHLIN	RJ1816HPLDF	ENCLOSURE
1a	1	STAHLIN	BP1816AL	BACKPLATE
2	1	ABB	OT63E3	MAIN DISC. SWITCH
3	2	ABB	A26-30-10-84	MOTOR STARTER
4	2	ABB	TA25DU11	O.L. (7.5-11A)
5	2	SQUARE D	QOU320	CB1, CB2
6	1	TIMEMARK	261DT120	ALTERNATING RELAY
7	2	ACI	JR22FR	RED PILOT LIGHT
8	1	AC/DC	BL5-R-120	ALARM LIGHT
9	1	C-H	CHSA03	LIGHTNING ARRESTER
10	2	ACI	JR22P3M20B	HOA SWITCH
11	2	ACI	JR22FY	AMBER PILOT LIGHT
12	1	MARATHON	1323580	DISTRIBUTION BLOCK
13	1	ACI	JR22AN11B	PB
14	2	MAGNACRAFT	W388AMLCPX-9	LATCHING RELAY CR3,4
15	2	OMRON	G2R2SAC120	CR1,2
16	1	SSAC	FS126	FLASHER
17				
18				
19				
20				

	Drawing Title  <b>BILL OF MATERIALS</b>  DATE 8/28/03					
		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	
Project Title  <b>DUPLEX S.P. PUMP CONTROL PANEL</b>	<hr/> <b>COX</b> Research and Technology, Inc. <hr/>	P.O. Box 77808 Baton Rouge, LA 70809	PURCHASE ORDER NUMBER			
			Ph. (225)756-3271 Fax (225)756-1030	DRAWING NUMBER CP-1643		
				SHEET NUMBER 5		