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# COX

Research and Technology, Inc.

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DUPLEX SELF PRIMING PUMP  
CONTROL PANEL  
NORTHWESTERN STATE UNIVERSITY

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

VOLTAGE	120/208V	(480V, 277/480V, 240V, 120/240V, 208V, 120/208V)
PHASE/HZ	3/60	
NO. MOTORS	2	
HP	7.5	
FLA	25.3	
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		

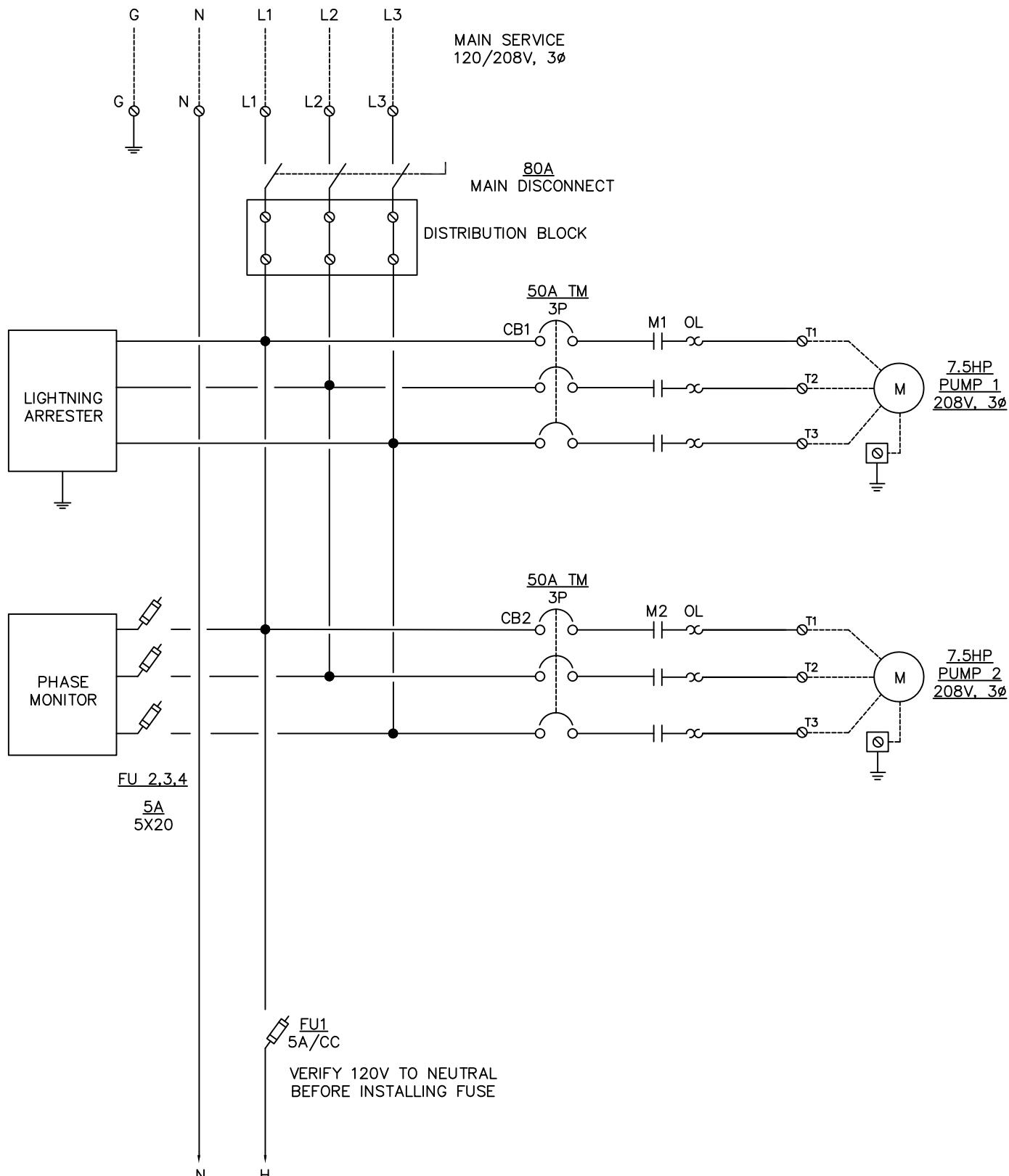
OPTIONS:

SEAL FAIL LIGHTS		(Submersible Only)
SEAL FAIL RELAYS		(Submersible Only)
SEAL FAIL PUMP SHUTDOWN		(Submersible Only)
HT PUMP SHUTDOWN	X	(Self-Primer, Submersible)
ALARM HORN		
ALARM LIGHT		
LIGHT PANEL MTD		
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		
POLE, BOX, SEAL		
INTRINSICALLY SAFE RELAYS		
HIGH TEMP. LOCKOUT, MANUAL RESET	X	
ECONOMY VERSION		
SWING INTERNAL DOOR	X	

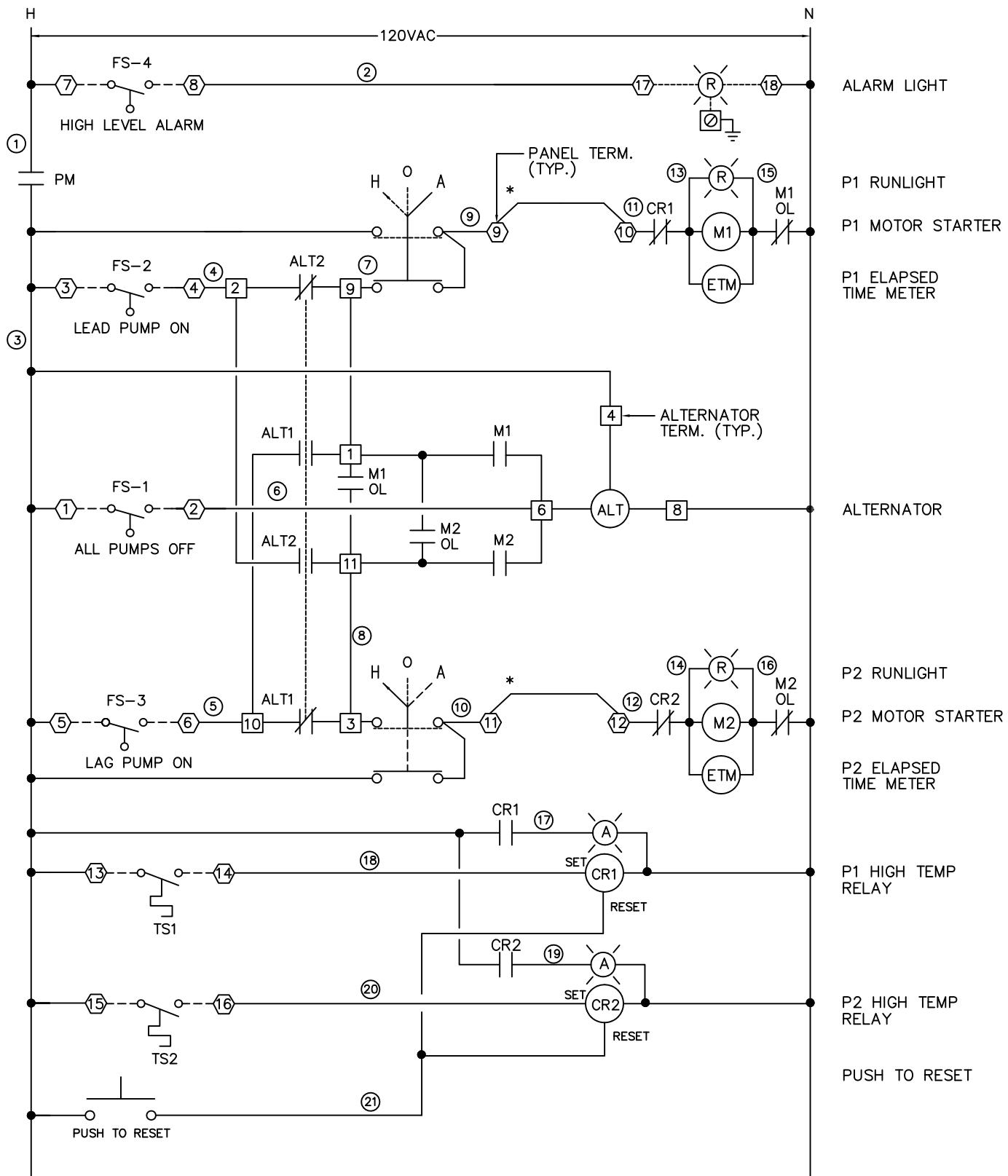
SOLD TO: Delta Process - Bossier City, LA  
TAG : Northwestern State University

SHIP TO: Delta Process - Shreveport, LA

Drawing Title	PANEL DESCRIPTION			REFERENCE DRAWING S/N	NO. C.C.	REVISION-LOCATION DRAWN BY C. RACHAL	ECN	DATE	BY
							DATE 2/18/04	APPROVED BY DATE	
Project Title	DUPLEX S.P. PUMP CONTROL PANEL	<u>COX</u> Research and Technology, Inc.	P.O. Box 77808 Baton Rouge, LA 70809				PURCHASE ORDER NUMBER		
			Ph. (225)756-3271 Fax (225)756-1030				DRAWING NUMBER	CP-1756	
							SHEET NUMBER		1



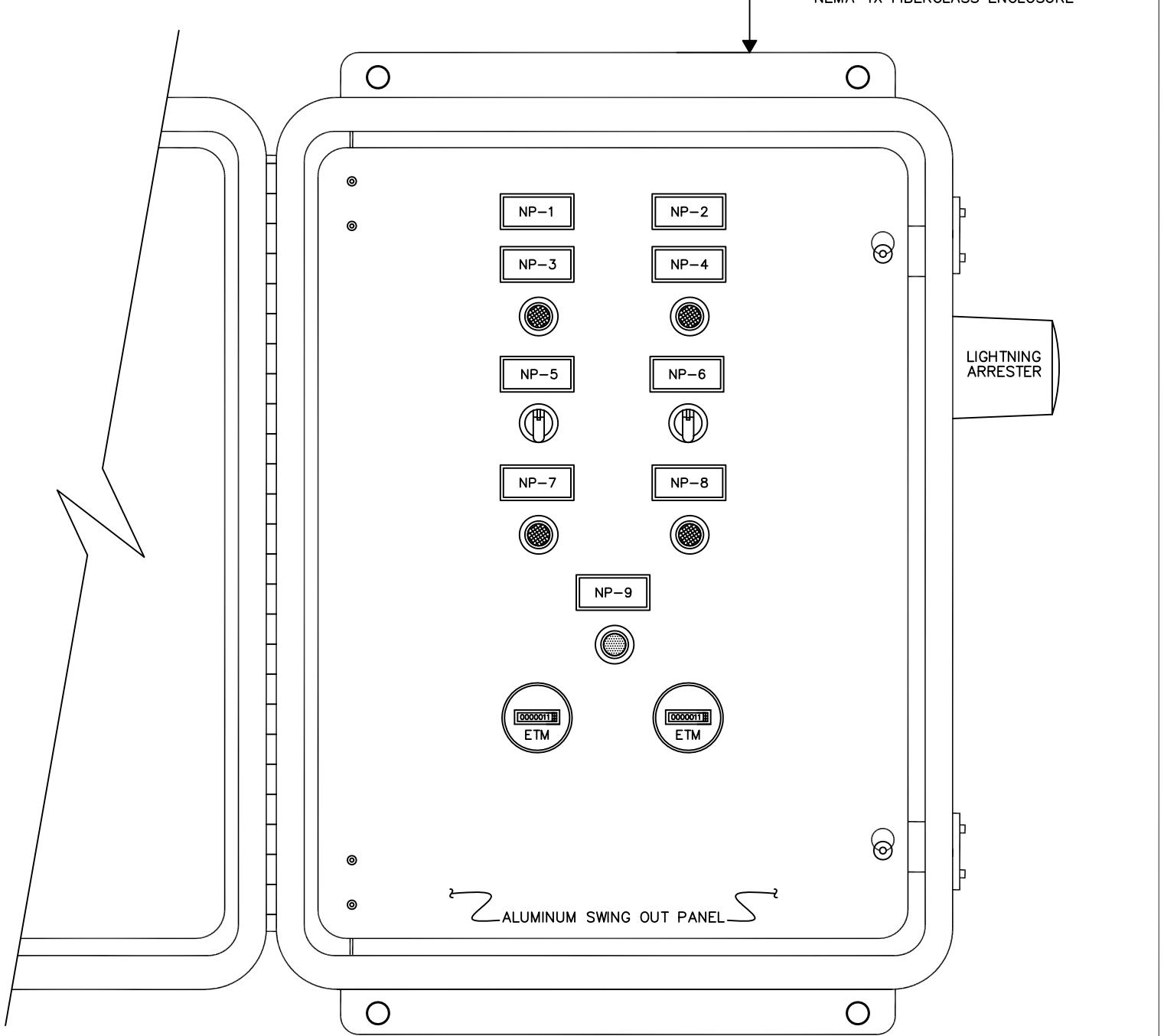
	Drawing Title						
	POWER DIAGRAM						
DATE 2/18/04	REFERENCE DRAWING S/N	NO. Sales Engineer C.C.	REVISION-LOCATION DRAWN BY C. RACHAL	ECN	DATE	BY	
	Application Engineer R.C.						APPROVED BY DATE
	Project Title		COX Research and Technology, Inc.	P.O. Box 77808 Baton Rouge, LA 70809	PURCHASE ORDER NUMBER		
	DUPLEX S.P. PUMP CONTROL PANEL			Ph. (225)756-3271 Fax (225)756-1030	DRAWING NUMBER CP-1756		
					SHEET NUMBER 2		



HIGH TEMP LOCKOUT, MANUAL RESET

\* REMOVE JUMPERS AND INSTALL LOCKOUT DEVICES IF REQUIRED

Drawing Title								
	REFERENCE DRAWING		NO.	REVISION-LOCATION		ECN	DATE	BY
DATE 2/18/04	S/N	Sales Engineer	Application Engineer	DRAWN	APPROVED			
				BY C. RACHAL				
Project Title  DUPLEX S.P. PUMP CONTROL PANEL	<b>COX</b> 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-1756  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	REFERENCE DRAWING			NO.	REVISION-LOCATION	ECN	DATE	BY
	S/N	Sales Engineer	Application Engineer					
ENCLOSURE	C.C.		R.C.	BY C. RACHAL	BY			
DATE 2/18/04								
Project Title	<b>COX</b> Research and Technology, Inc.			P.O. Box 77808 Baton Rouge, LA 70809			PURCHASE ORDER NUMBER	
DUPLEX S.P. PUMP CONTROL PANEL				Ph. (225)756-3271 Fax (225)756-1030			DRAWING NUMBER CP-1756	
				SHEET NUMBER 4				

## BILL OF MATERIALS

ITEM	QTY	MANUFACTURER	PART NO.	DESCRIPTION
1	1	VYNCKIER	VY1816HWPLDF	ENCLOSURE
1a	1	VYNCKIER	MP1816A	BACKPLATE
2	1	ABB	OT63E3	MAIN DISC. SWITCH
3	2	ABB	A26-30-10-84	MOTOR STARTER
4	2	ABB	TA25DU32	O.L. (24-32A)
5	2	SQUARE D	QOU350	CB1, CB2
6	1	TIMEMARK	261DT120	ALTERNATING RELAY
7	2	ACI	JR22FR	RED PILOT LIGHT
8	1	DELTA	LA603	LIGHTNING ARRESTER
9	2	GRASSLIN	UWZ52E	ELAPSED TIME METER
10	1	SSAC	PLMU11	PHASE MONITOR
11	2	ACI	JR22P3M20B	HOA SWITCH
12	2	ACI	JR22FY	AMBER PILOT LIGHT
13	1	MARATHON	1323580	DISTRIBUTION BLOCK
14	1	ACI	JR22AN11B	PB
15	2	MAGNACRAFT	W388AMLCPX-9	LATCHING RELAY
16				
17				
18				
19				
20				

	Drawing Title  <b>BILL OF MATERIALS</b>  DATE 2/18/04					
		REFERENCE DRAWING	NO.	REVISION-LOCATION	ECN	DATE BY
S/N	Sales Engineer C.C.	Application Engineer R.C.	DRAWN	APPROVED		
			BY C. RACHAL	BY	DATE	
Project Title  <b>DUPLEX S.P. PUMP CONTROL PANEL</b>	<b>COX</b> Research and Technology, Inc.	P.O. Box 77808 Baton Rouge, LA 70809	PURCHASE ORDER NUMBER			
			Ph. (225)756-3271 Fax (225)756-1030	DRAWING NUMBER	CP-1756	
				SHEET NUMBER		5