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# COX

Research and Technology, Inc.

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DUPLEX SELF PRIMING PUMP  
CONTROL PANEL  
LAKE PROVIDENCE, LA

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

CP-1603

VOLTAGE	120/240V	(480V, 277/480V, 240V, 120/240V, 208V, 120/208V)
PHASE/HZ	3/60	
NO. MOTORS	2	
HP	7.5	
FLA	22	
TYPE OF PUMP	Self-Priming	(Self-Priming, Submersible)
MANUFACTURER	GR	
CATALOG NUMBER		
CONTROL VOLTAGE	120V	(120V, Other)
ENCLOSURE	NEMA 3R	(NEMA 1, NEMA 3R, NEMA 4, NEMA 4X)
ENCLOSURE MATERIAL	Painted Steel	(Painted Steel, Stainless Steel, Fiberglass)
CONTROL SENSOR	Floats	(Floats, Bubbler, Other)
CAPACITORS	No	(Yes, No)
CAPACITOR WIRING FIGURE		
THERM. & SEAL FAIL WIRING FIGURE		

## OPTIONS:

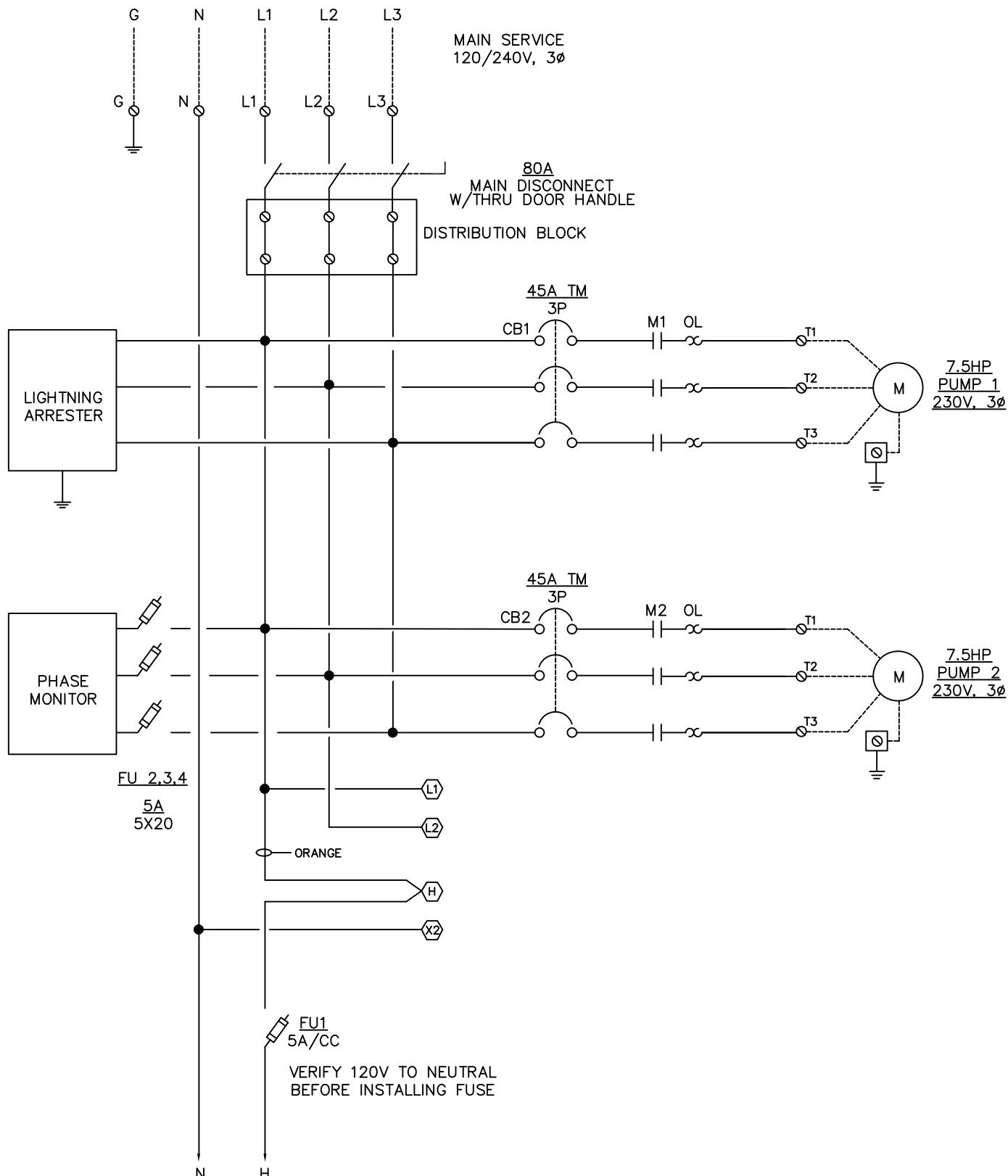
SEAL FAIL LIGHTS		(Submersible Only)
SEAL FAIL RELAYS		(Submersible Only)
SEAL FAIL PUMP SHUTDOWN		(Submersible Only)
HT PUMP SHUTDOWN	X	(Self-Primer, Submersible)
ALARM HORN		
ALARM LIGHT	X	
LIGHT PANEL MTD	X	
LIGHT REMOTE MTD		
LIGHT FLASHER		
LIGHTNING ARRESTER	X	
ELAPSED TIME METER	X	
PHASE MONITOR	X	
NEMA RATED STARTERS	X	SQUARE D
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 - Ruston, LA  
TAG : Duplex S.P. Pump Control Panel  
Lake Providence, LA

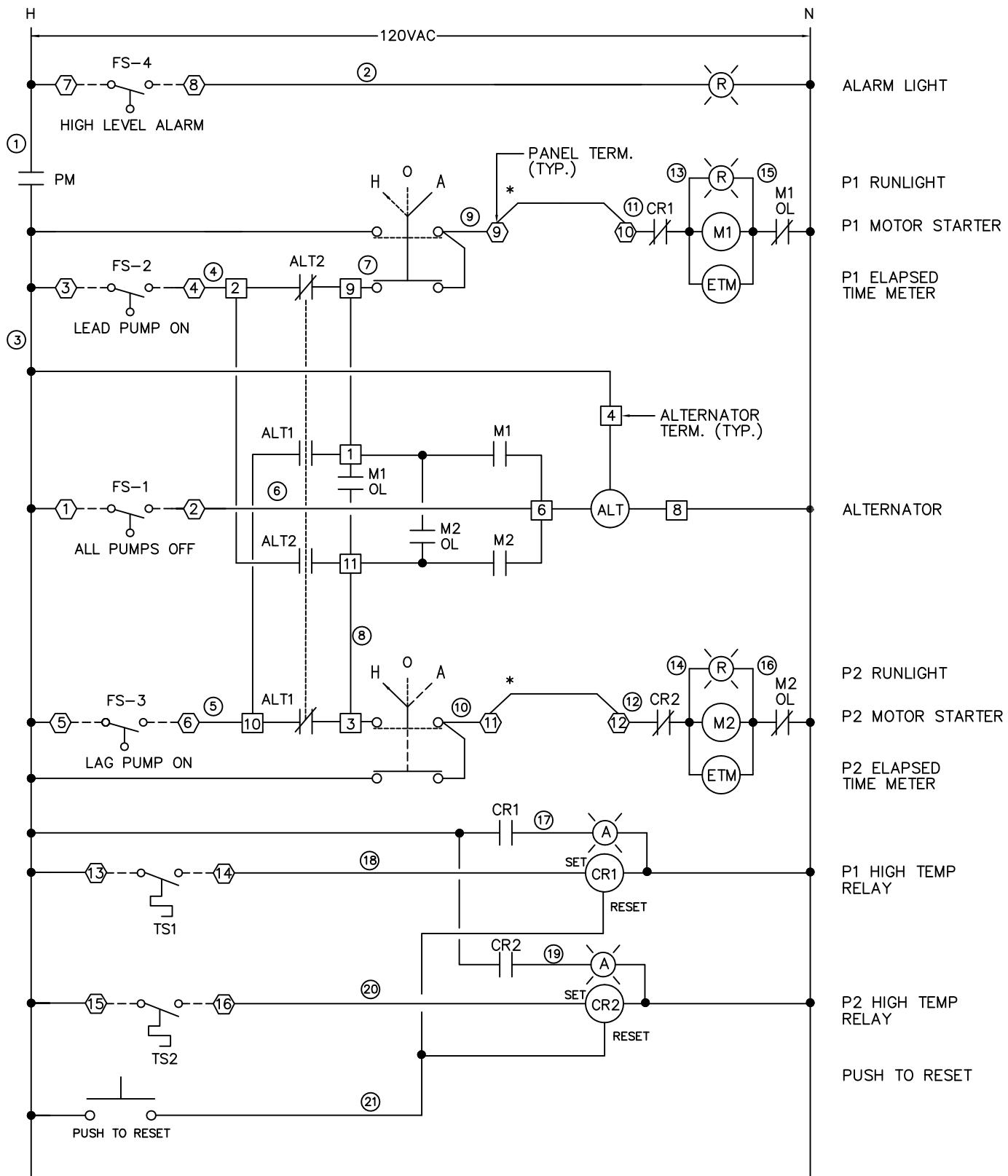
SHIP TO: Delta Process - Ruston, LA

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	Drawing Title  <b>PANEL DESCRIPTION</b>  DATE 7/21/03						
		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/> <hr/> <b>COX</b> Research and Technology, Inc. <hr/> <hr/>			P.O. Box 77808 Baton Rouge, LA 70809	PURCHASE ORDER NUMBER  DRAWING NUMBER CP-1603	
					Ph. (225)756-3271 Fax (225)756-1030	SHEET NUMBER 1	



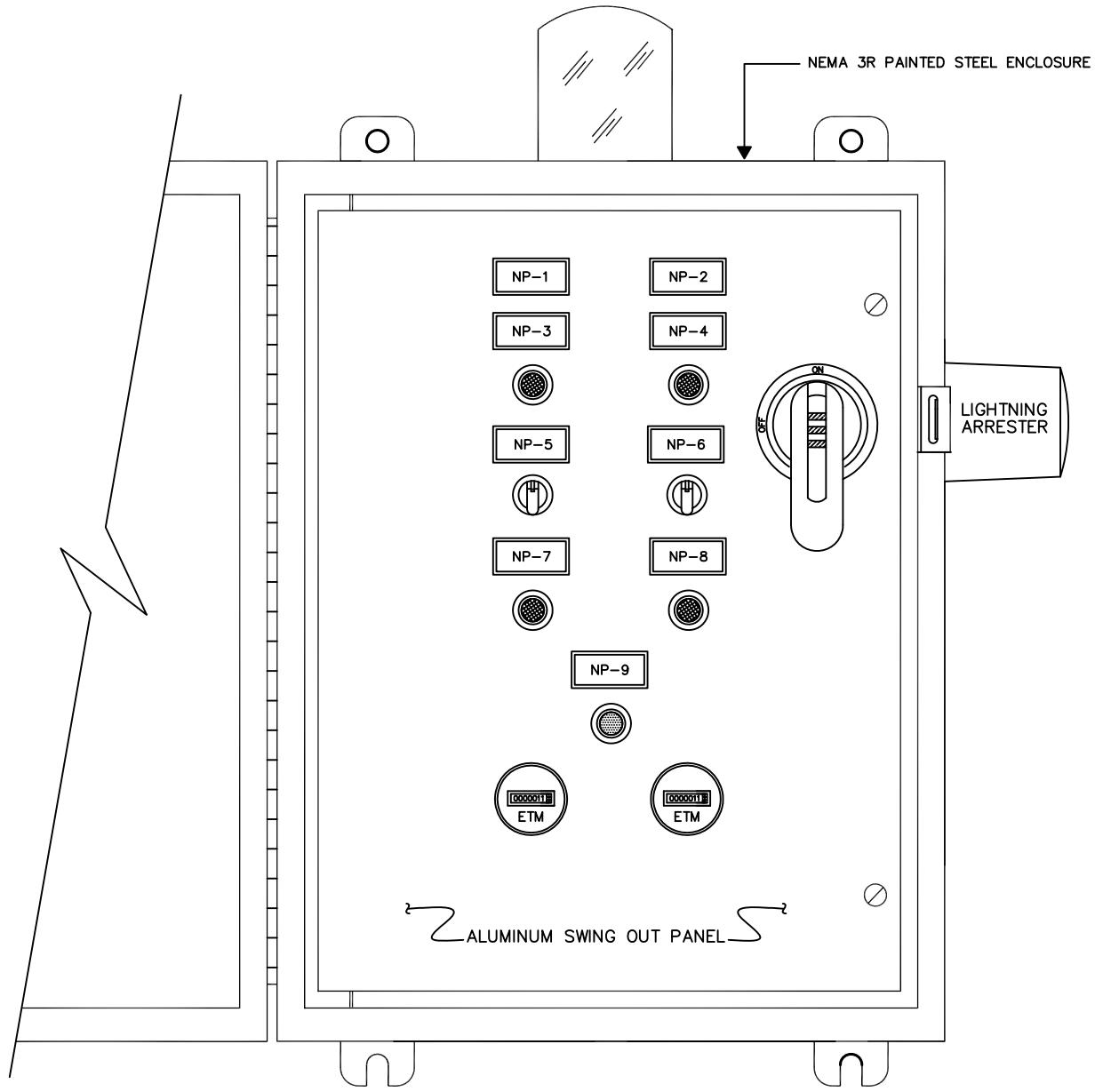
	Drawing Title  <b>POWER DIAGRAM</b>				
		REFERENCE DRAWING S/N	NO. Sales Engineer C.C.	REVISION-LOCATION DRAWN BY C. RACHAL	ECN APPROVED BY DATE
DATE 7/21/03		Application Engineer R.C.			
	Project Title  <b>DUPLEX S.P. PUMP CONTROL PANEL</b>	<b>COX</b> Research and Technology, Inc.	P.O. Box 77808 Baton Rouge, LA 70809  Ph. (225)756-3271 Fax (225)756-1030	PURCHASE ORDER NUMBER  DRAWING NUMBER CP-1603  SHEET NUMBER 2	



HIGH TEMP LOCKOUT, MANUAL RESET

\* REMOVE JUMPERS AND INSTALL LOCKOUT DEVICES IF REQUIRED

	Drawing Title <b>CONTROL DIAGRAM</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
DATE 5/29/03						
	Project Title <b>DUPLEX S.P. PUMP CONTROL PANEL</b>			<b>COX</b> Research and Technology, Inc.		PURCHASE ORDER NUMBER
				P.O. Box 77808 Baton Rouge, LA 70809 Ph. (225)756-3271 Fax (225)756-1030		DRAWING NUMBER CP-1603
						SHEET NUMBER 3



VIEW OF SWING OUT PANEL

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

**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					
DATE 7/21/03	REFERENCE DRAWING S/N	NO. C.C.	REVISION-LOCATION DRAWN BY C. RACHAL	ECN	DATE	BY
	Sales Engineer	Application Engineer R.C.			APPROVED	
	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-1603
					SHEET NUMBER	4

## BILL OF MATERIALS

ITEM	QTY	MANUFACTURER	PART NO.	DESCRIPTION
1	1	EBE	242010REPL	ENCLOSURE
1a	1	EBE	A2420P	BACKPLATE
1b	1	EBE	A2420SP	DEAD FRONT
2	1	ABB	OT63E3	MAIN DISC. SWITCH
3	2	SQUARE D	8536SC03V02	MOTOR STARTER NEMA SZ 1
4	2	SQUARE D	B45.0	O.L. HEATERS
5	2	SQUARE D	QOU345	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	GRASSLIN	UWZ52E	ELAPSED TIME METER
11	1	SSAC	PLMU11	PHASE MONITOR
12	2	ACI	JR22P3M20B	HOA SWITCH
13	2	ACI	JR22FY	AMBER PILOT LIGHT
14	1	MARATHON	1323580	DISTRIBUTION BLOCK
15	1	ABB	OHB45L5	HANDLE
16	1	ABB	OXP5X265	SHAFT
17	1	ACI	JR22AN11B	PB
18	2	MAGNACRAFT	W388AMLCPX-9	LATCHING RELAY
19				
20				

	Drawing Title  <b>BILL OF MATERIALS</b>  DATE 7/21/03						
		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  <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-1603			
				SHEET NUMBER 5			