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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

VOLTAGE	120/240V	(480V, 277/480V, 240V, 120/240V, 208V, 120/208V)
PHASE/HZ	3/60	
NO. MOTORS	2	
HP	15	
FLA	42	
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

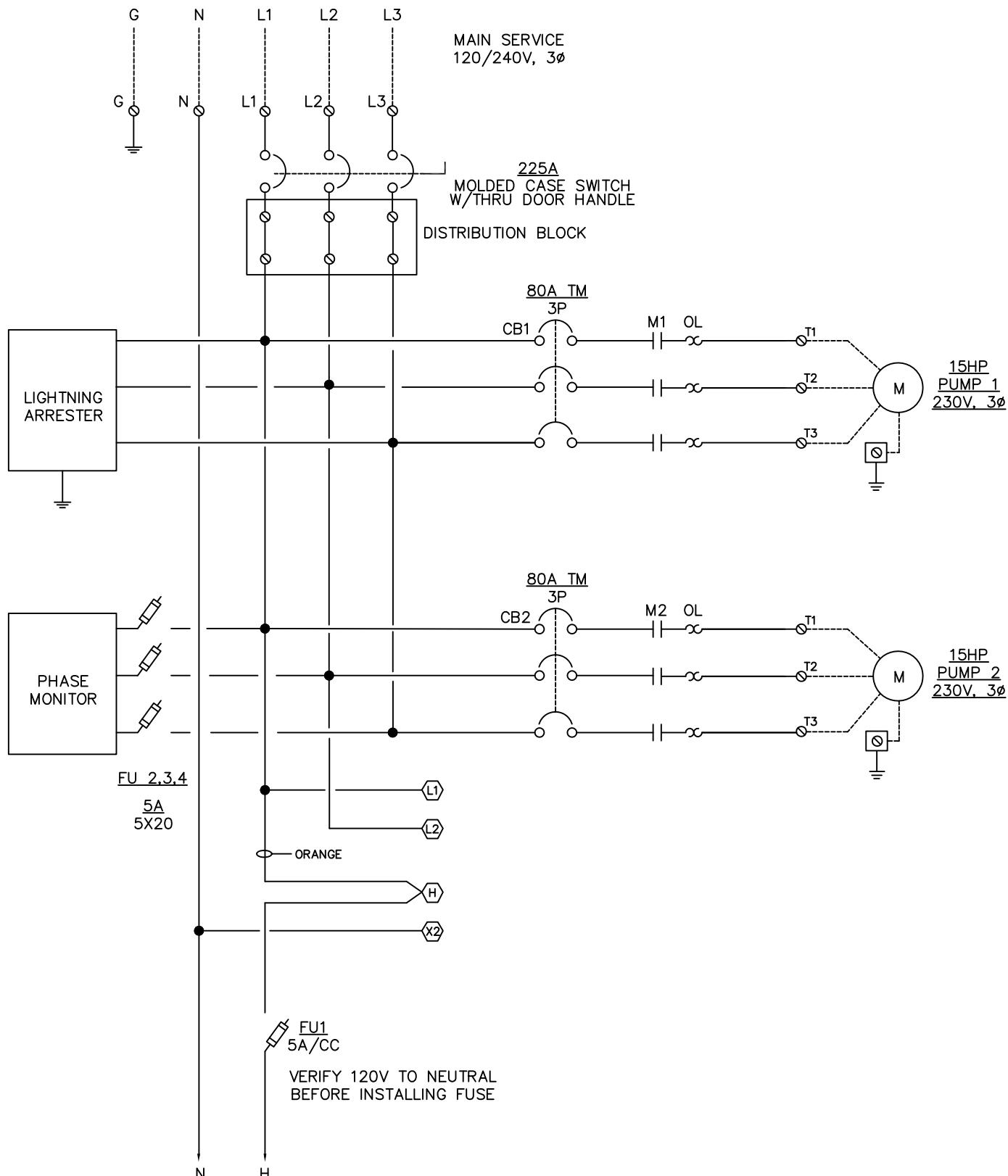
SHIP TO: Delta Process - Ruston, LA

DATE 7/21/03	Drawing Title  <b>PANEL DESCRIPTION</b>	REFERENCE DRAWING		NO. C.C.	REVISION-LOCATION		ECN	DATE BY
		S/N	Sales Engineer		Application Engineer	DRAWN BY C. RACHAL		
	Project Title  <b>DUPLEX S.P. PUMP CONTROL PANEL</b>							

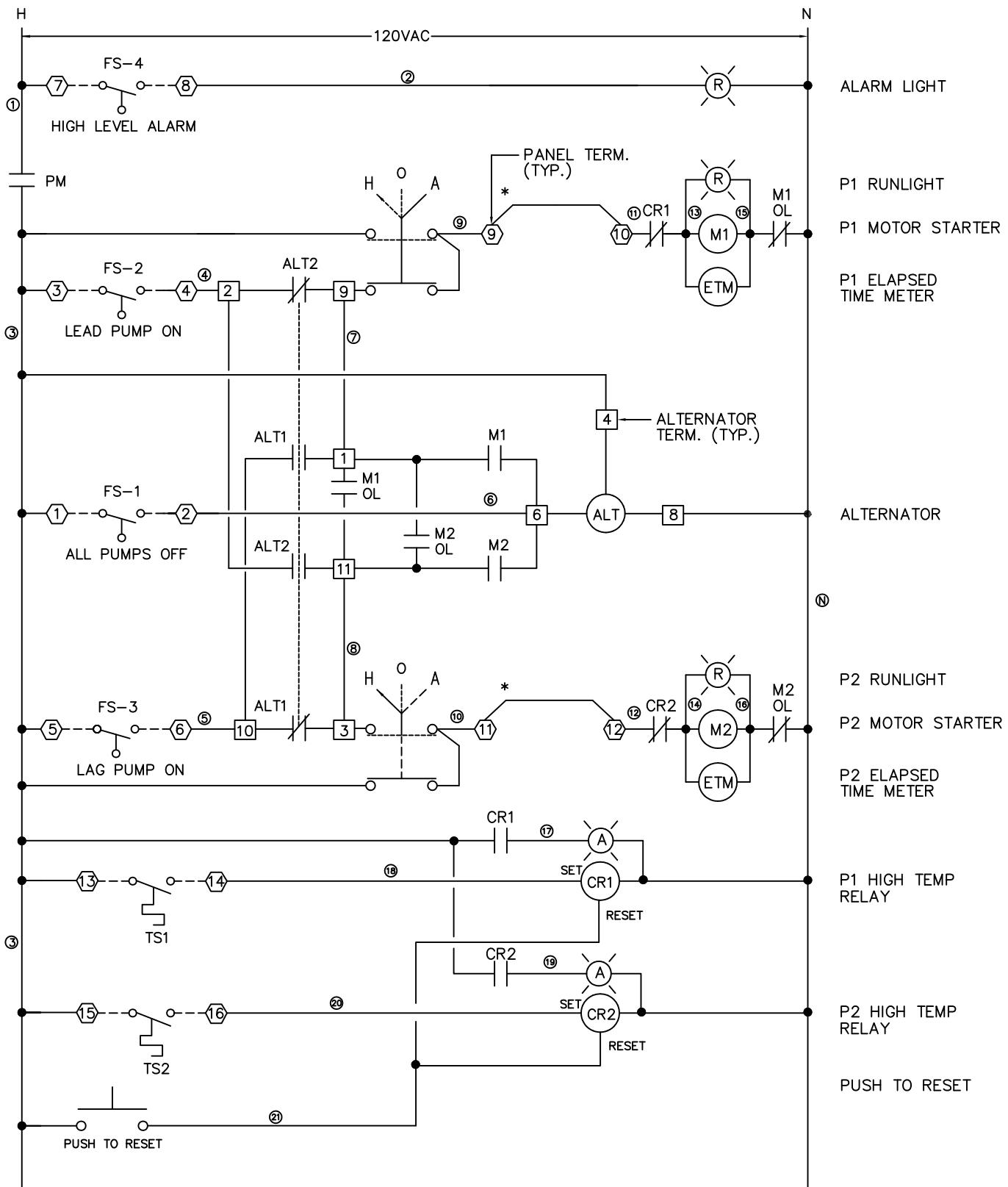
**COX**  
Research and Technology, Inc.

P.O. Box 77808  
Baton Rouge, LA  
70809  
Ph. (225)756-3271  
Fax (225)756-1030

PURCHASE ORDER NUMBER
DRAWING NUMBER CP-1605
SHEET NUMBER 1



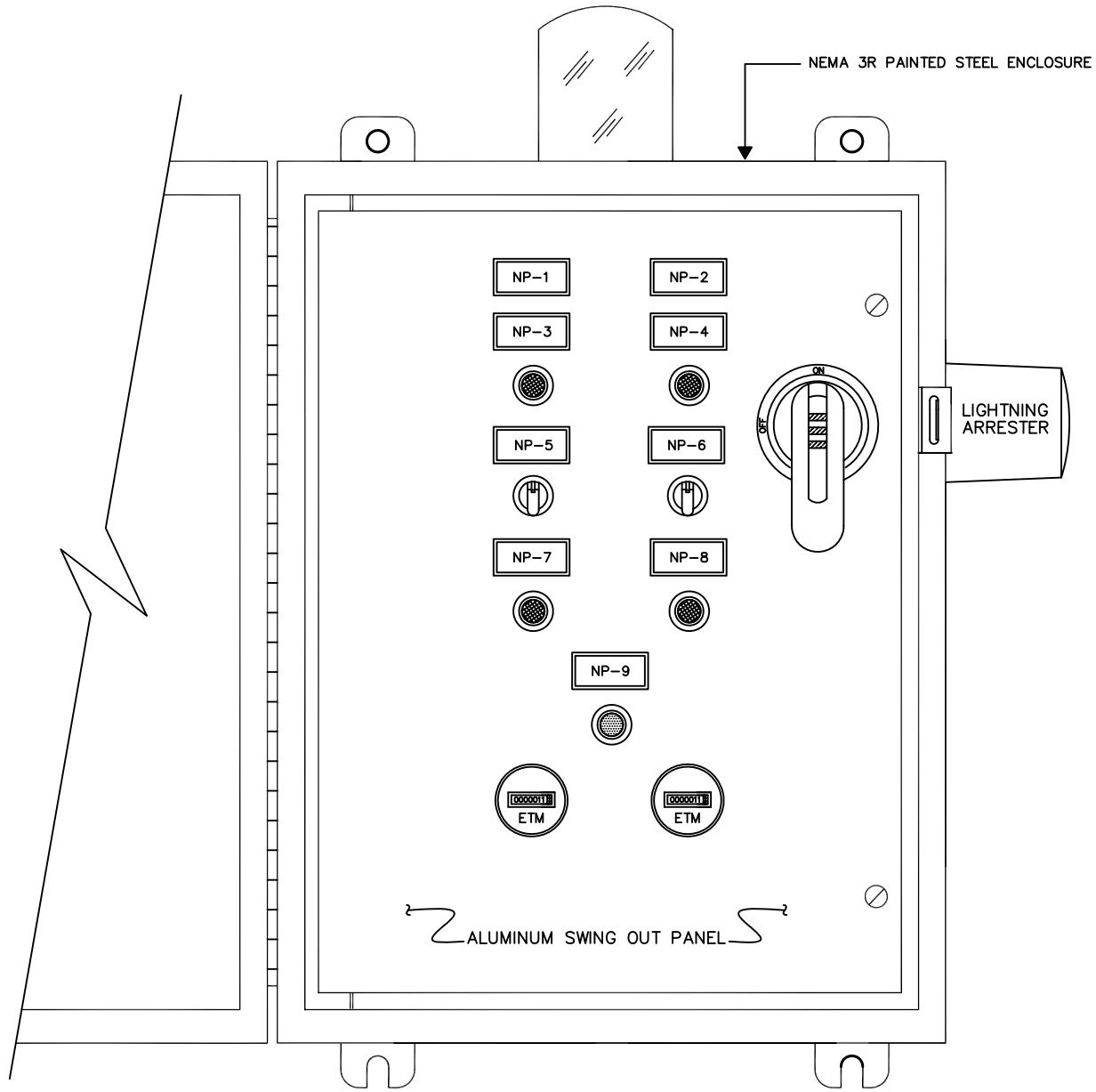
	Drawing Title					
	POWER DIAGRAM					
DATE 7/21/03	REFERENCE DRAWING S/N	NO. Sales Engineer C.C.	REVISION-LOCATION DRAWN BY C. RACHAL	ECN	DATE	BY
Project Title						
DUPLEX S.P. PUMP CONTROL PANEL	<b>COX</b> Research and Technology, Inc.		P.O. Box 77808 Baton Rouge, LA 70809	PURCHASE ORDER NUMBER		
			Ph. (225)756-3271 Fax (225)756-1030	DRAWING NUMBER CP-1605		
				SHEET NUMBER 2		



HIGH TEMP LOCKOUT, MANUAL RESET

\* REMOVE JUMPERS AND INSTALL LOCKOUT DEVICES IF REQUIRED

	Drawing Title  CONTROL DIAGRAM	REFERENCE DRAWING			NO. DRAWN BY C. RACHAL	REVISION-LOCATION DRAWN BY C. RACHAL	ECN APPROVED BY DATE
		S/N	Sales Engineer C.C.	Application Engineer R.C.			
DATE 5/29/03	Project Title  DUPLEX S.P. PUMP CONTROL PANEL						
	<b>COX</b> Research and Technology, Inc.				PURCHASE ORDER NUMBER  DRAWING NUMBER CP-1605 SHEET NUMBER 3		
					P.O. Box 77808 Baton Rouge, LA 70809	Ph. (225)756-3271 Fax (225)756-1030	



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					
		REFERENCE DRAWING	NO.	REVISION-LOCATION	ECN	DATE BY
DATE 7/21/03	S/N	Sales Engineer	Application Engineer	DRAWN	APPROVED	
	C.C.		R.C.	BY C. RACHAL	BY DATE	
	Project Title	<hr/> <hr/> <hr/> <b>COX</b> <hr/> <hr/> <hr/> Research and Technology, Inc. <hr/> <hr/> <hr/>			PURCHASE ORDER NUMBER	
	DUPLEX S.P. PUMP CONTROL PANEL				DRAWING NUMBER	CP-1605
					SHEET NUMBER	4

## BILL OF MATERIALS

ITEM	QTY	MANUFACTURER	PART NO.	DESCRIPTION
1	1	EBE	302410REPL	ENCLOSURE
1a	1	EBE	A3024P	BACKPLATE
1b	1	EBE	A3024SP	DEAD FRONT
2	1	ABB	S3B225DW	MOLDED CASE SWITCH
3	2	SQUARE D	8536SD01V02	MOTOR STARTER NEMA SZ 2
4	2	SQUARE D	B88.0	O.L. HEATERS
5	2	SQUARE D	QOU380	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	OHB65L10	HANDLE
16	1	ABB	OXP10X225	SHAFT
17	1	ACI	JR22AN11B	PB
18	2	MAGNACRAFT	W388AMLCPX-9	LATCHING RELAY
19	1	ABB	K5VD-M	MECHANISM
20				

	Drawing Title  <b>BILL OF MATERIALS</b>					
		REFERENCE DRAWING S/N	NO. Sales Engineer C.C.	REVISION-LOCATION DRAWN BY C. RACHAL	ECN	DATE APPROVED BY DATE
DATE 7/21/03		Application Engineer R.C.				
	Project Title  <b>DUPLEX S.P. PUMP CONTROL PANEL</b>	<hr/> <hr/> <b>COX</b> <hr/> <hr/> 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-1605		
				SHEET NUMBER 5		