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# COX

Research and Technology, Inc.

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DUPLEX PUMP  
CONTROL PANEL  
ROSENWALD #9

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

CP-1780

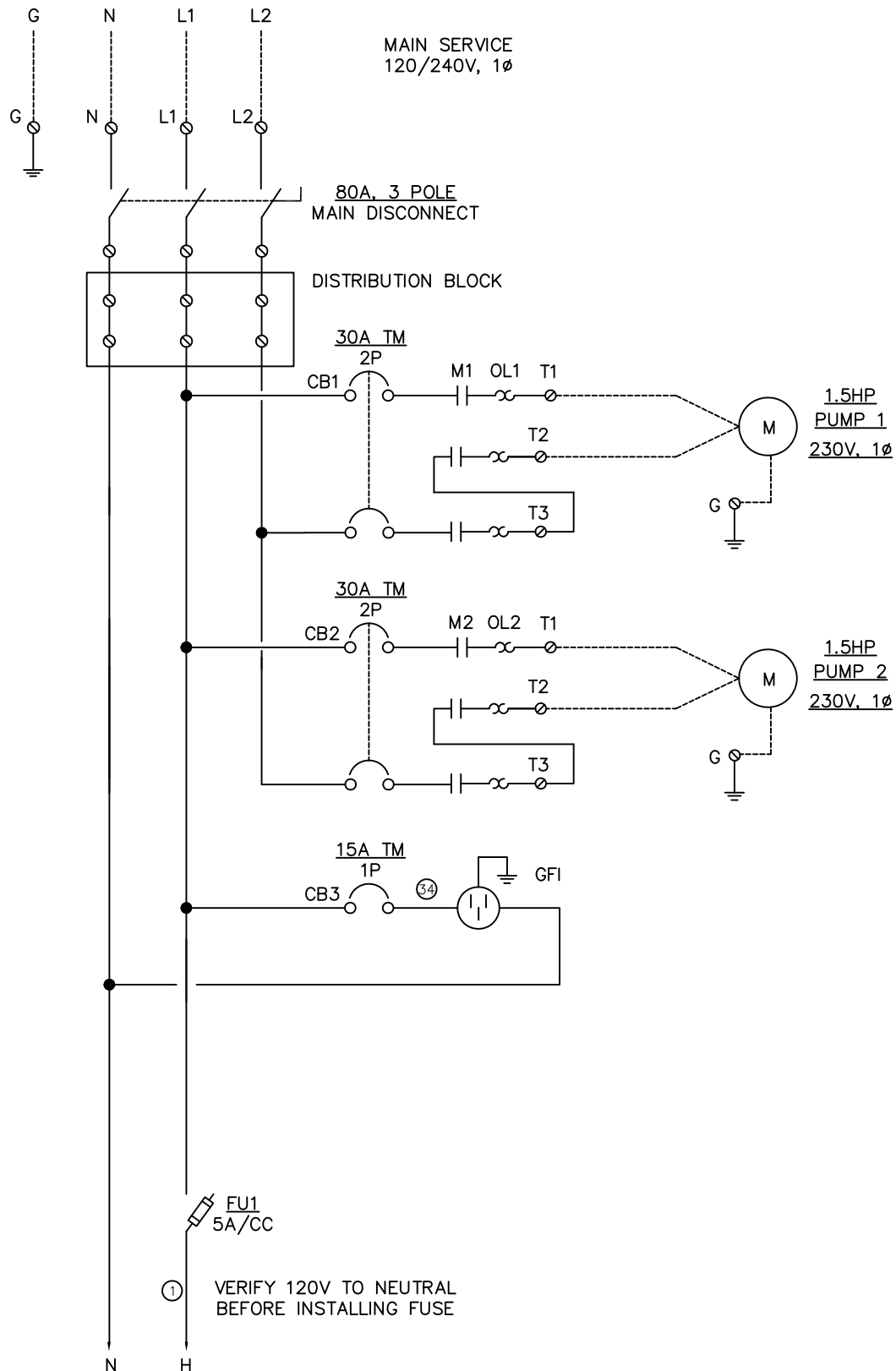
CONTROL VOLTAGE	120V	(120V, Other)
ENCLOSURE	NEMA 4X	(NEMA 1, NEMA 3R, NEMA 4, NEMA 4X)
ENCLOSURE MATERIAL	Fiberglass	(Painted Steel, Stainless Steel, Fiberglass)
CONTROL SENSOR	Floats	(Floats, Bubbler, Other)
CAPACITORS	No	(Yes, No)
CAPACITOR WIRING FIGURE	N/A	
THERM. & SEAL FAIL WIRING FIGURE		

SEAL FAIL LIGHTS	<u>X</u>	(Submersible Only)
SEAL FAIL RELAYS	<u>X</u>	(Submersible Only)
SEAL FAIL PUMP SHUTDOWN	<u>                    </u>	(Submersible Only)
HT PUMP SHUTDOWN	<u>                    </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>                    </u>	
LIGHTNING ARRESTER	<u>                    </u>	
ELAPSED TIME METER	<u>X</u>	
PHASE MONITOR	<u>                    </u>	
NEMA RATED STARTERS	<u>                    </u>	
GROUND FAULT RECPT.	<u>X</u>	
GREEN RUN LIGHTS VS. RED	<u>                    </u>	
POLE, BOX, SEAL	<u>                    </u>	
INTRINSICALLY SAFE RELAYS	<u>                    </u>	
HIGH TEMP. LOCKOUT, MANUAL RESET	<u>                    </u>	
ECONOMY VERSION	<u>                    </u>	

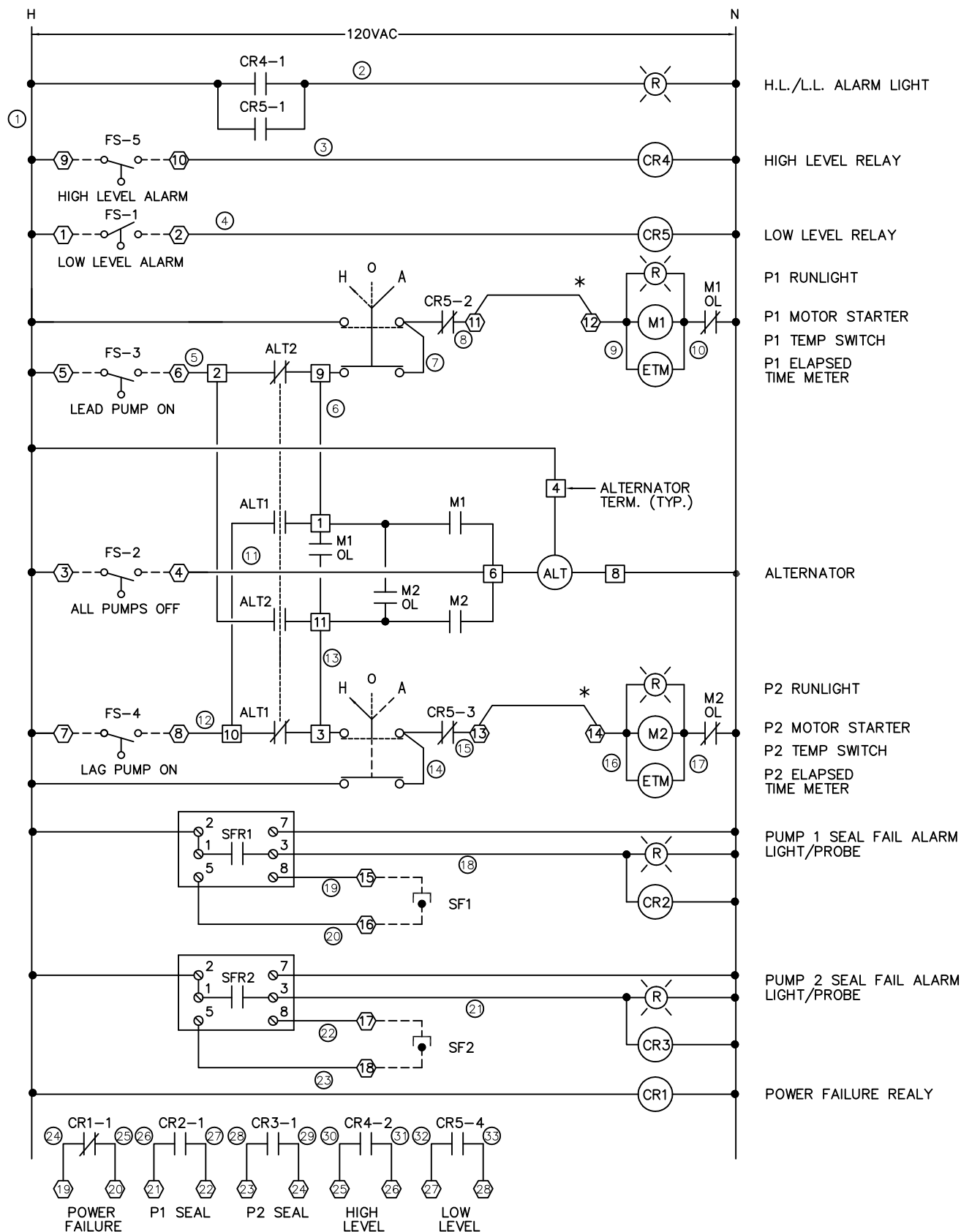
SOLD TO: Delta Process - Bossier City, LA  
TAG : ROSENWALD #9

SHIP TO: Delta Process - Ruston, LA  


	Drawing Title							
	PANEL DESCRIPTION							
DATE 4/08/04		REFERENCE DRAWING S/N	NO. Sales Engineer C.C.	REVISION-LOCATION Application Engineer R.C.	ECN	DATE	BY	
	Project Title	<div style="border: 1px solid black; padding: 5px; text-align: center;"> <b>COX</b>  Research and Technology, Inc. </div>			P.O. Box 77808 Baton Rouge, LA 70809  Ph. (225)756-3271 Fax (225)755-1030		PURCHASE ORDER NUMBER  DRAWING NUMBER CP-1780  SHEET NUMBER 1	
	DUPLEX PUMP CONTROL PANEL							



	Drawing Title								
	POWER DIAGRAM								
DATE 4/08/04		REFERENCE DRAWING S/N	NO. Sales Engineer C.C.	REVISION-LOCATION Application Engineer R.C.	BY C. RACHAL	ECN	DATE	BY	APPROVED
	Project Title	COX				PURCHASE ORDER NUMBER			
	DUPLEX PUMP CONTROL PANEL	Research and Technology, Inc.				DRAWING NUMBER CP-1780			
		P.O. Box 77808 Baton Rouge, LA 70809 Ph. (225)756-3271 Fax (225)755-1030				SHEET NUMBER 2			



\* REMOVE JUMPERS AND INSTALL LOCKOUT DEVICES IF REQUIRED

Drawing Title							
CONTROL DIAGRAM							
DATE		REFERENCE DRAWING		NO.		REVISION-LOCATION	
4/08/04		S/N		Sales Engineer		Application Engineer	
Project Title		C.C.		R.C.		DRAWN	
DUPLIX PUMP CONTROL PANEL						BY C. RACHAL	
						APPROVED	
						BY	
						DATE	
						PURCHASE ORDER NUMBER	
						DRAWING NUMBER	
						CP-1780	
						SHEET NUMBER	
						3	

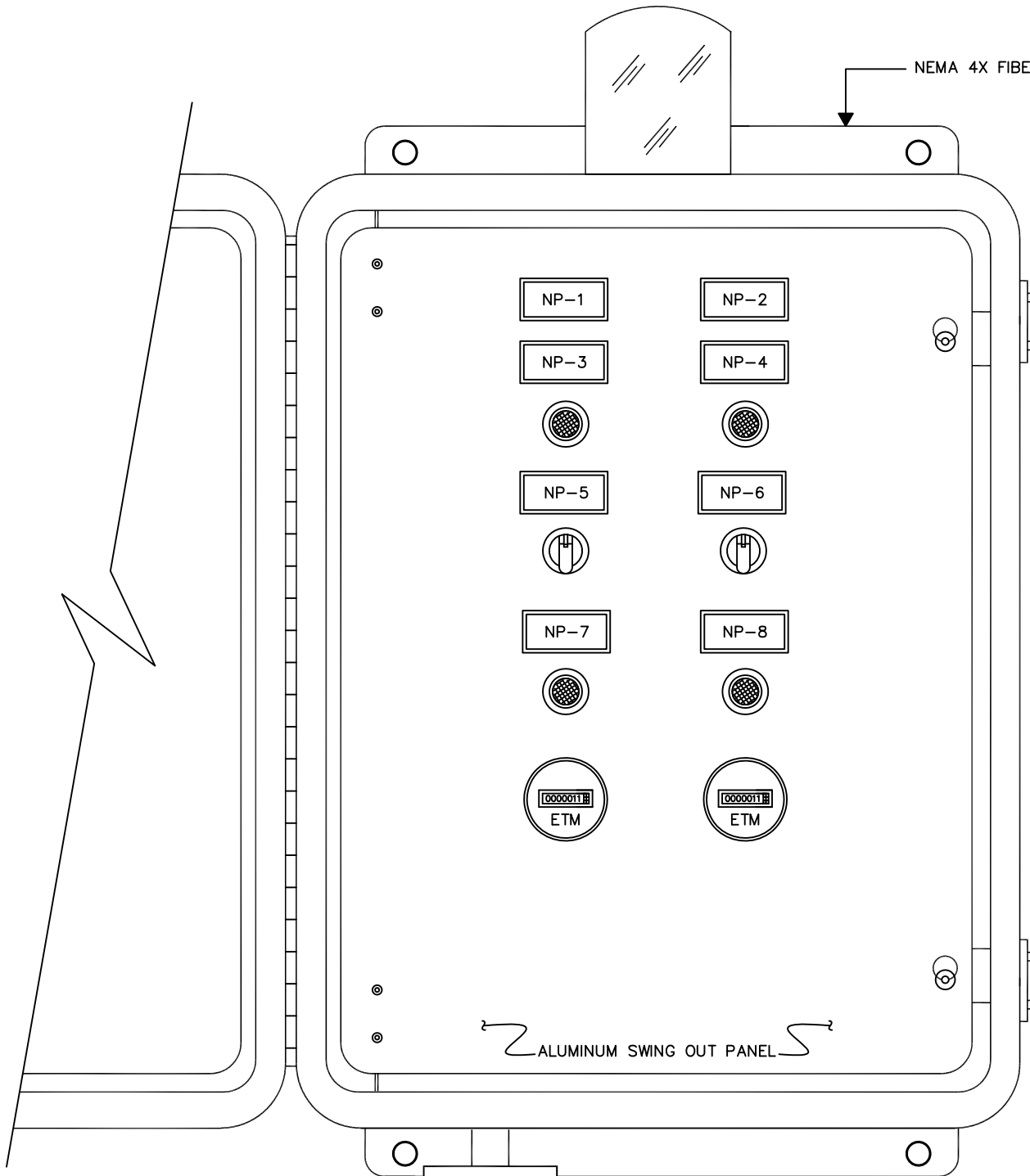
COX

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70809

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NEMA 4X FIBERGLASS ENCLOSURE



ALUMINUM 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.

### 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	SEAL FAIL
NP-8	SEAL FAIL

	Drawing Title								
	ENCLOSURE								
DATE 4/08/04		REFERENCE DRAWING S/N	NO. Sales Engineer C.C.	REVISION-LOCATION Application Engineer R.C.	ECN	DATE	BY		
	Project Title	COX Research and Technology, Inc.			P.O. Box 77808 Baton Rouge, LA 70809  Ph. (225)756-3271 Fax (225)755-1030		PURCHASE ORDER NUMBER		
	DUPLIX PUMP CONTROL PANEL						DRAWING NUMBER CP-1780		
							SHEET NUMBER 4		

# BILL OF MATERIALS

ITEM	QTY	MANUFACTURER	PART NO.	DESCRIPTION
1	1	STAHLIN	RJ1816HPL	ENCLOSURE
1a	1	STAHLIN	BP1816AL	BACKPLATE
2	1	ABB	OT63E3	MAIN DISC. SWITCH
3	2	ABB	A16-30-11-84	MOTOR STARTER
4	2	ABB	TA25DU19	O.L. RELAY (13-19A)
5	2	SQUARE D	QOU230	CB1, CB2
6	1	TIMEMARK	261DT120	ALTERNATING RELAY
7	4	ACI	JR22FR	RED PILOT LIGHT
8	2	ACI	JR22P3M20B	HOA SWITCH
9	1	AC/DC	BL5-R-120	ALARM LIGHT
10	1	MARATHON	1323580	DISTRIBUTION BLOCK
11	2	GRASSLIN	UWZ52E	ELAPSED TIME METER
12	2	SSAC	LLC54AA	SEAL FAIL RELAY
13	4	OMRON	G2R2SAC120	CR1-4
14	1	OMRON	LY41NAC120	CR5
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				

	Drawing Title						
	<h2 style="margin: 0;">BILL OF MATERIALS</h2>						
DATE 4/08/04		REFERENCE DRAWING S/N	NO. Sales Engineer C.C.	REVISION-LOCATION Application Engineer R.C.	DRAWN BY C. RACHAL	ECN	DATE
	Project Title	<div style="border-top: 3px double black; border-bottom: 3px double black; padding: 5px 0;"> <h1 style="margin: 0;">COX</h1> <p style="margin: 0;">Research and Technology, Inc.</p> </div>			P.O. Box 77808 Baton Rouge, LA 70809  Ph. (225)756-3271 Fax (225)755-1030		PURCHASE ORDER NUMBER  DRAWING NUMBER <div style="text-align: right;">CP-1780</div> SHEET NUMBER <div style="text-align: right;">5</div>
	DUPLEX PUMP CONTROL PANEL						