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# COX

Research and Technology, Inc.

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DUPLEX PUMP  
CONTROL PANEL  
LSU RECREATION FIELD

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

CP-1726

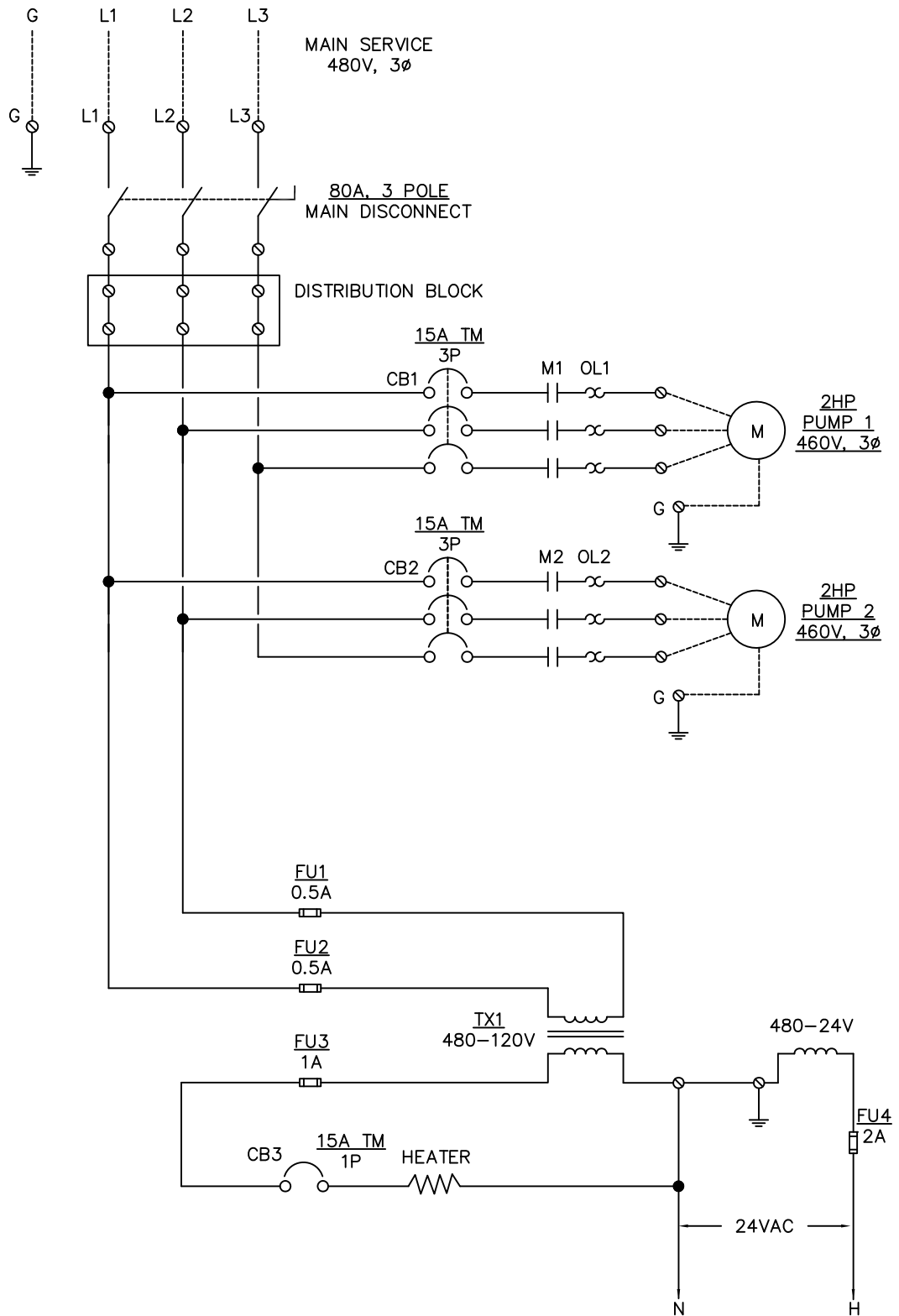
CONTROL VOLTAGE	24V	(120V, Other)
ENCLOSURE	NEMA 3R	(NEMA 1, NEMA 3R, NEMA 4, NEMA 4X)
ENCLOSURE MATERIAL	Stainless Steel	(Painted Steel, Stainless Steel, Fiberglass)
CONTROL SENSOR	Floats	(Floats, Bubbler, Other)
CAPACITORS	No	(Yes, No)
CAPACITOR WIRING FIGURE	N/A	
THERM. & SEAL FAIL WIRING FIGURE		

SEAL FAIL LIGHTS	X	(Submersible Only)
SEAL FAIL RELAYS	X	(Submersible Only)
SEAL FAIL PUMP SHUTDOWN	X	(Submersible Only)
HT PUMP SHUTDOWN	X	(Self-Primer, Submersible)
ALARM HORN		
ALARM LIGHT	X	
LIGHT PANEL MTD	X	
LIGHT REMOTE MTD		
LIGHT FLASHER	X	
LIGHTNING ARRESTER		
ELAPSED TIME METER	X	
PHASE MONITOR		
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		
U.L. LISTING	X	

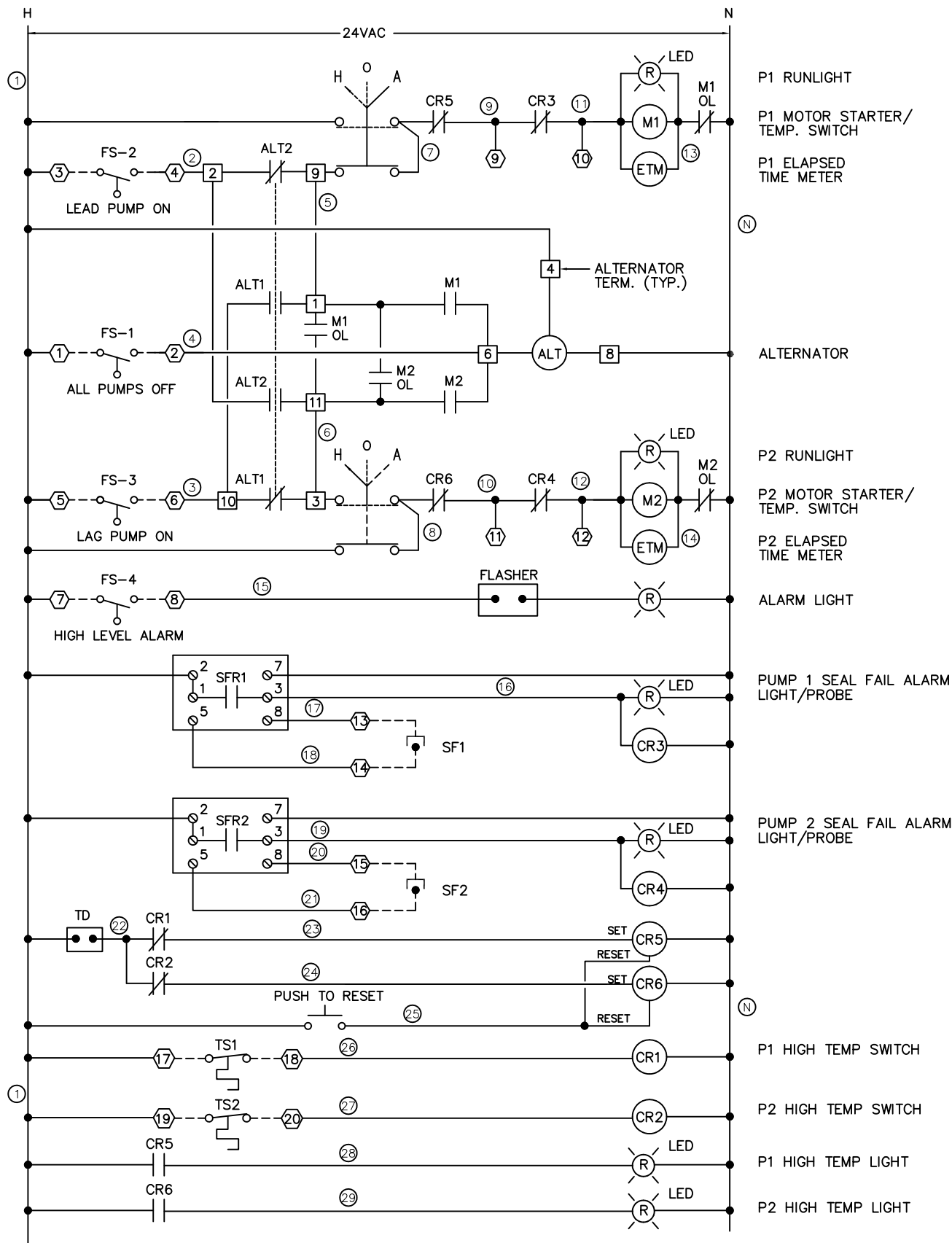
SOLD TO: Delta Process - Denham Springs, LA  
TAG : LSU RECREATION FIELDS

SHIP TO: Delta Process - Denham Springs, LA  

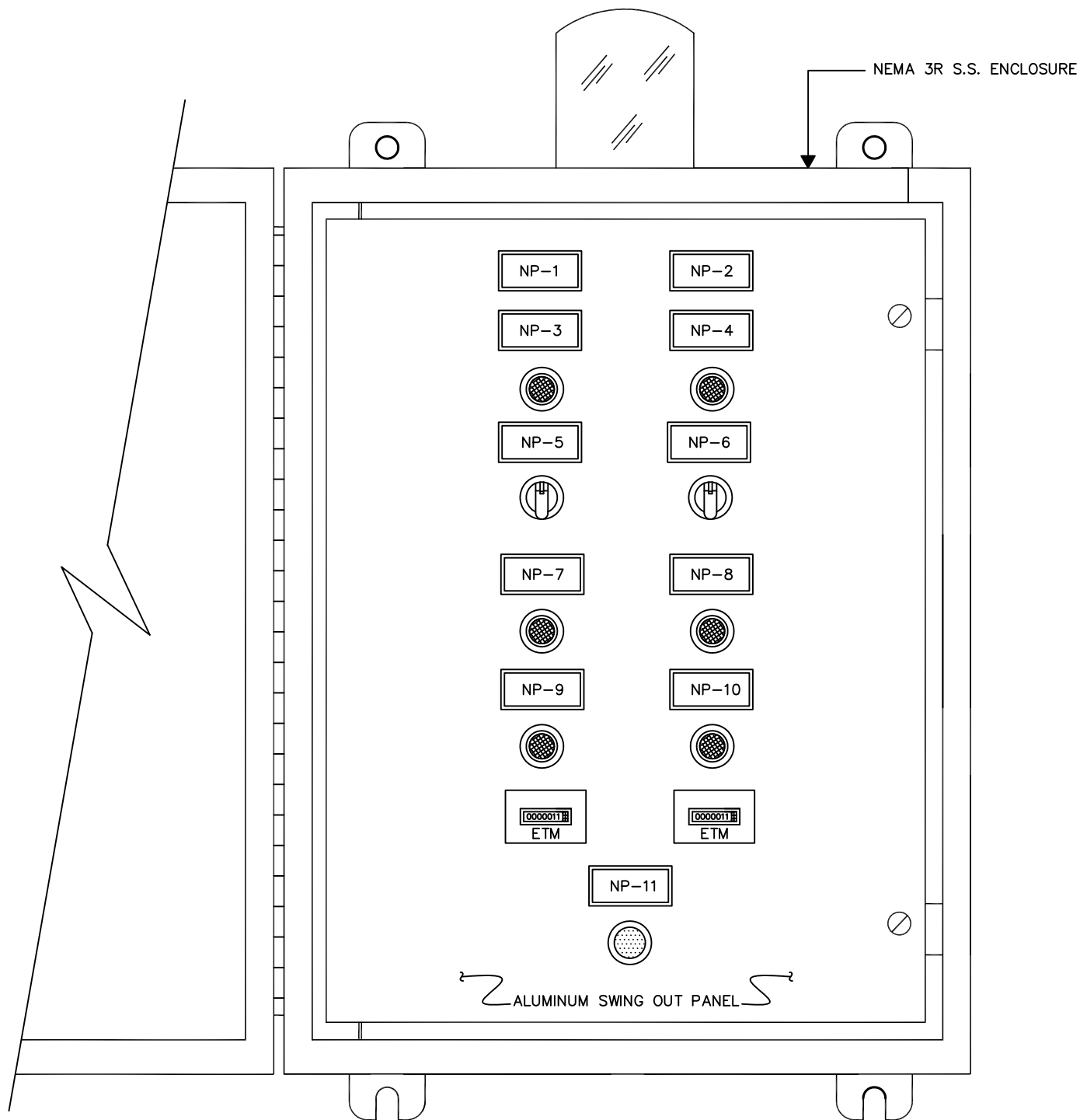

	Drawing Title								
	PANEL DESCRIPTION								
DATE 12/31/03		REFERENCE DRAWING S/N	NO. Sales Engineer C.C.	REVISION-LOCATION Application Engineer R.C.	ECN	DATE	BY		
	Project Title					C. RACHAL	APPROVED		
	DUPLEX PUMP CONTROL PANEL	<div style="text-align: center;"><div>COX</div><div>Research and Technology, Inc.</div></div>				P.O. Box 77808 Baton Rouge, LA 70809	PURCHASE ORDER NUMBER		
						Ph. (225)756-3271 Fax (225)756-1030	DRAWING NUMBER CP-1726		
							SHEET NUMBER	1	



	Drawing Title								
	POWER DIAGRAM								
DATE		REFERENCE DRAWING	NO.	REVISION-LOCATION	ECN	DATE	BY		
12/31/03		S/N	Sales Engineer C.C.	Application Engineer R.C.	BY C. RACHAL		APPROVED		
	Project Title				PURCHASE ORDER NUMBER				
	DUPLEX PUMP CONTROL PANEL	<div>COX</div> <div>Research and Technology, Inc.</div>			P.O. Box 77808 Baton Rouge, LA 70809  Ph. (225)756-3271 Fax (225)756-1030		DRAWING NUMBER CP-1726		
					SHEET NUMBER			2	



Drawing Title									
CONTROL DIAGRAM									
DATE 12/31/03	REFERENCE DRAWING		NO.		REVISION-LOCATION		ECN	DATE	BY
	S/N		Sales Engineer C.C.		Application Engineer R.C.		DRAWN BY C. RACHAL		APPROVED
Project Title								PURCHASE ORDER NUMBER	
DUPLIX PUMP CONTROL PANEL								DRAWING NUMBER CP-1726	
								SHEET NUMBER	
								3	



VIEW OF 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.

**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
NP-9	HIGH TEMP
NP-10	HIGH TEMP
NP-11	HIGH TEMP RESET

Drawing Title									
ENCLOSURE									
DATE	12/31/03	REFERENCE DRAWING	NO.	REVISION-LOCATION	ECN	DATE	BY		
		S/N	Sales Engineer	Application Engineer	DRAWN		APPROVED		
		C.C.	R.C.	BY	C. RACHAL	BY	DATE		
Project Title					PURCHASE ORDER NUMBER				
DUPLEX 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		DRAWING NUMBER CP-1726  SHEET NUMBER 4		

# BILL OF MATERIALS

ITEM	QTY	MANUFACTURER	PART NO.	DESCRIPTION
1	1	EBE	242010REPL	ENCLOSURE
1a	1	EBE	2420P	BACKPLATE
1b	1	EBE	A2420SP	DEAD FRONT
2	1	ABB	OT63E3	MAIN DISC. SWITCH
3	2	ABB	A16-30-10-81	MOTOR STARTER
4	2	ABB	TA25DU4.0	O.L. RELAY (2.8-4.0A)
5	2	ABB	S1N015TL	CB1, CB2
6	1	TIMEMARK	261DT24	ALTERNATING RELAY
7	6	ACI	JR22FR	RED PILOT LIGHT
8	2	ACI	JR22P3M20B	HOA SWITCH
9	1	ABB	T4150PSF1	TRANSFORMER
10	1	AC/DC	BL5-120-R	ALARM LIGHT
11	2	GRASSLIN	UWZ48E	ELAPSED TIME METER
12	2	SSAC	LLC52AA	SEAL FAIL RELAY
13	1	SSAC	YFS146	FLASHER
14	1	MARATHON	1323580	DISTRIBUTION BLOCK
15	4	OMRON	G2R2SAC24	CR1-4
16	2	IDEC	RH2LBUAC24V	CR5,6
17	1	ACI	JR22AN11B	PUSH BUTTON
18	1	ABB	YTMV8000	TIME DELAY
19	1	TEEL	1D008	HEATER
20	2	IDEC	SH3B-05	BASE
21				
22				
23				
24				

	Drawing Title						
	BILL OF MATERIALS						
DATE 12/31/03		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: 1px solid black; padding: 5px; margin: 0 auto; width: 150px;"> <b>COX</b>  <small>Research and Technology, Inc.</small> </div>			<small>P.O. Box 77808 Baton Rouge, LA 70809</small>  <small>Ph. (225)756-3271 Fax (225)756-1030</small>		PURCHASE ORDER NUMBER  DRAWING NUMBER CP-1726 SHEET NUMBER
	DUPLEX PUMP CONTROL PANEL						5