
COX

Research and Technology, Inc.

DUPLEX PUMP
CONTROL PANEL
WHITEWATER HIGH SCHOOL
1 1/2 HP

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

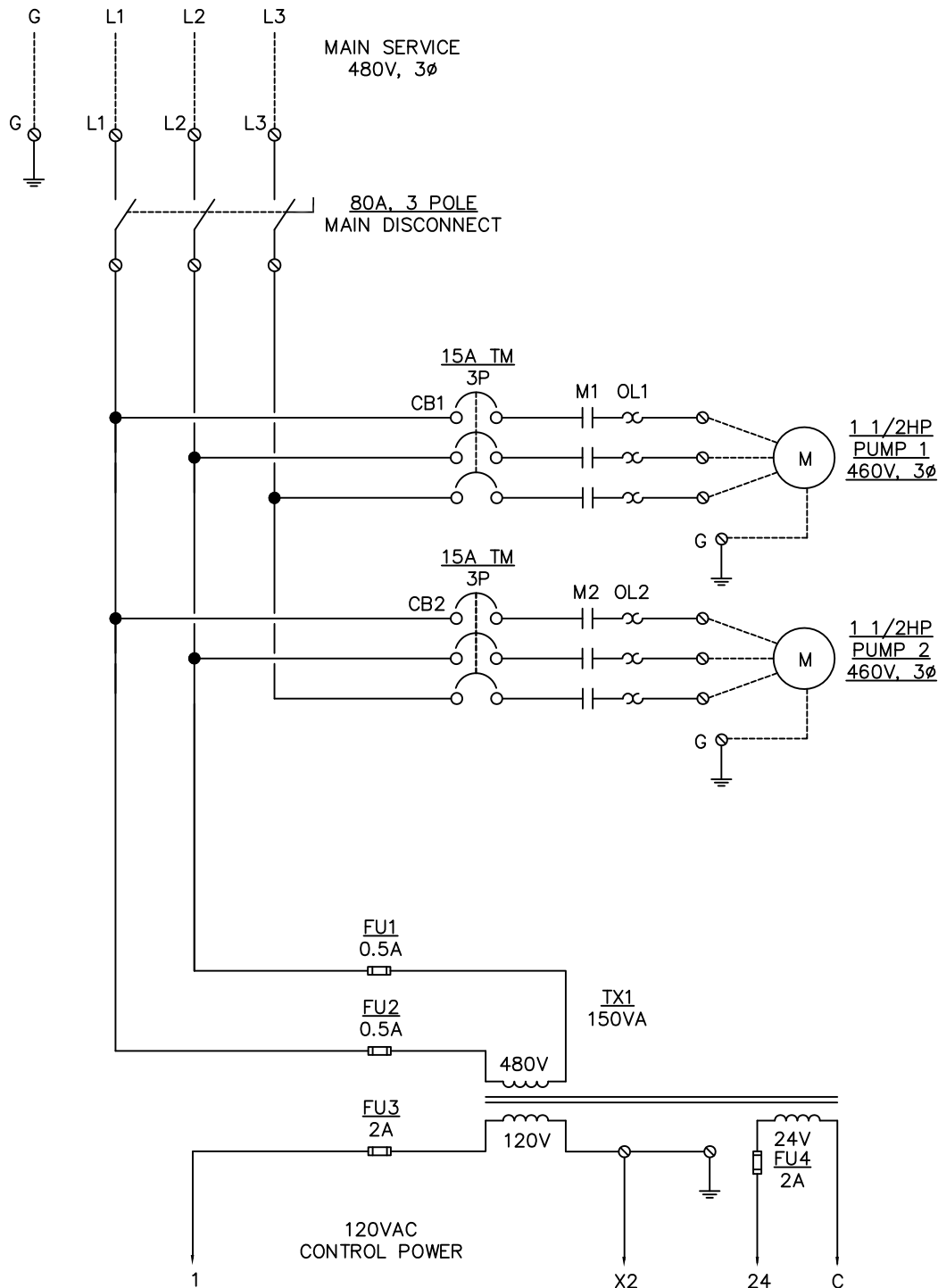
(QTY - 4)
CP-1656

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	_____	(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	_____	
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	_____	
ECONOMY VERSION	_____	

SHIP TO: Delta Environmental - Denham Springs, LA

	Drawing Title										
	PANEL DESCRIPTION										
DATE 9/22/03		REFERENCE DRAWING S/N	NO. Sales Engineer C.C.	REVISION-LOCATION Application Engineer R.C.	DRAWN	ECN	DATE	BY			
	Project Title	COX Research and Technology, Inc.				P.O. Box 77808 Baton Rouge, LA 70809 Ph. (225)756-3271 Fax (225)756-1030	PURCHASE ORDER NUMBER				
	DUPLEX PUMP CONTROL PANEL						DRAWING NUMBER CP-1656				
							SHEET NUMBER				1



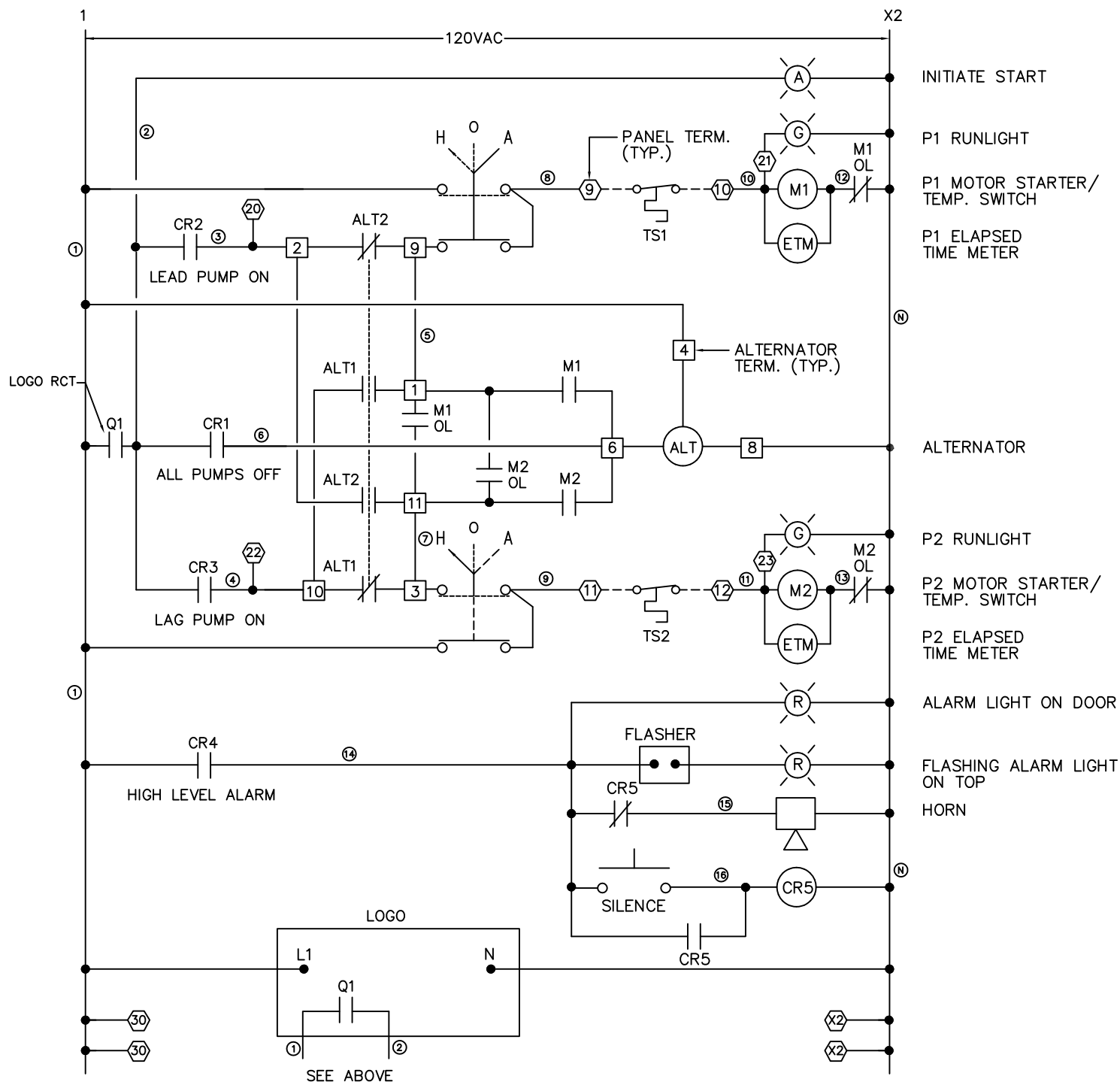
	Drawing Title							
	POWER DIAGRAM							
DATE		REFERENCE DRAWING	NO.	REVISION-LOCATION	ECN	DATE	BY	
9/22/03		S/N	Sales Engineer C.C.	Application Engineer R.C.	BY C.RACHAL	APPROVED		
	Project Title					PURCHASE ORDER NUMBER		
	DUPLEX PUMP CONTROL PANEL					DRAWING NUMBER CP-1656		
						SHEET NUMBER		

COX

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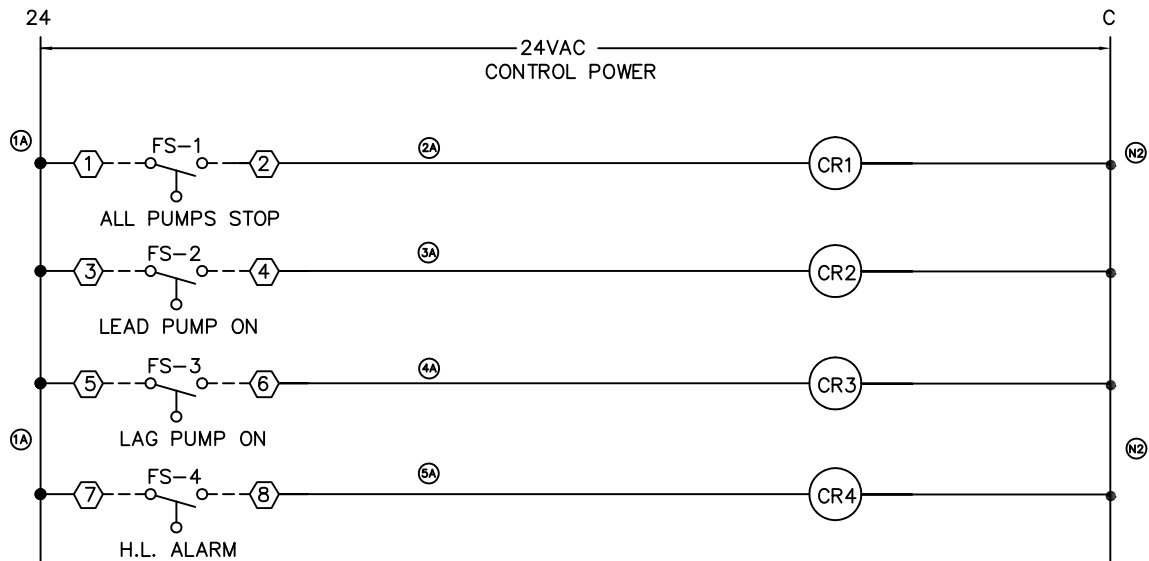
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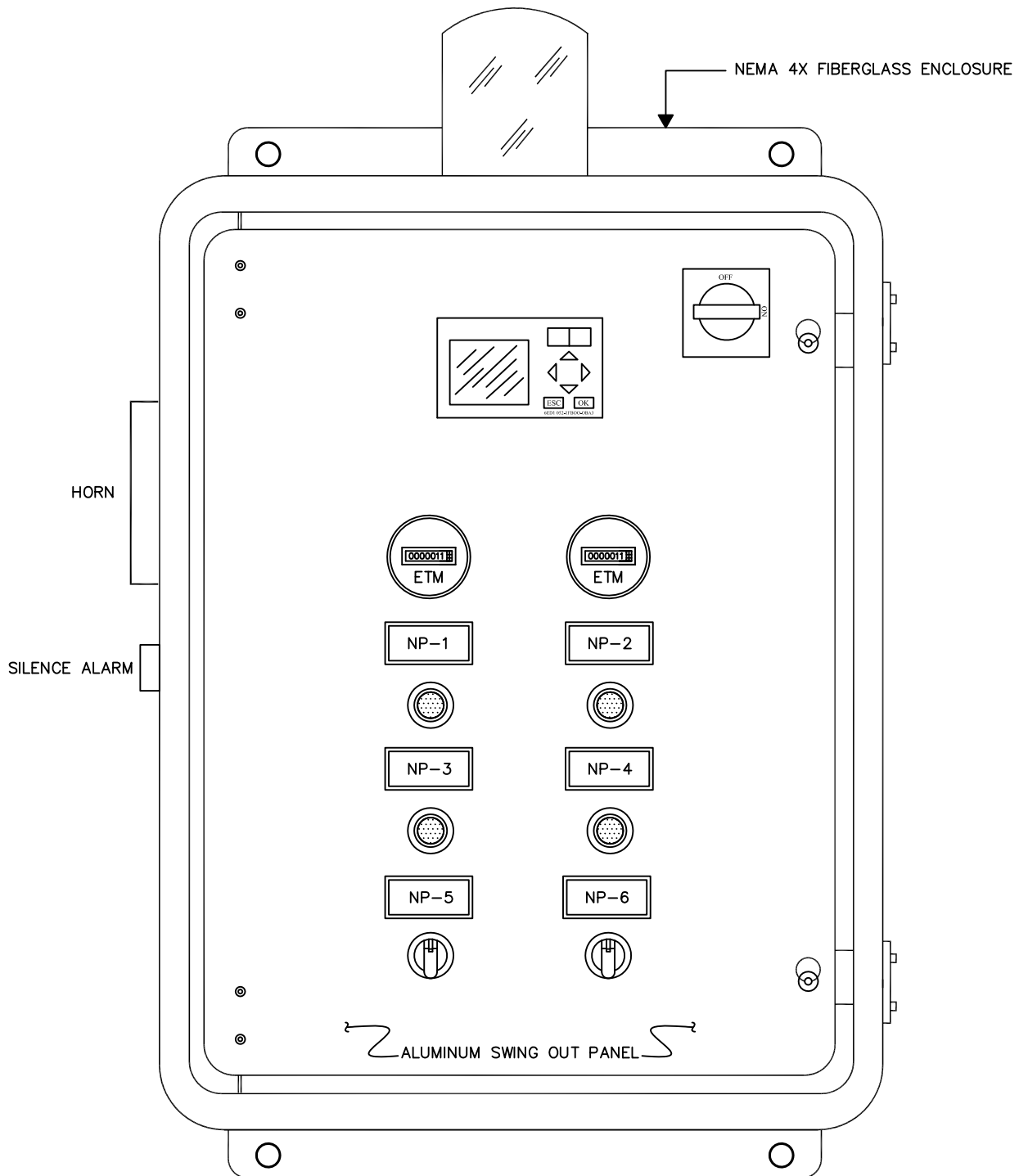


PROGRAM: WWHS

Drawing Title							
CONTROL DIAGRAM							
DATE 9/22/03	REFERENCE DRAWING		NO.	REVISION-LOCATION		ECN	DATE
	S/N	Sales Engineer C.C.	Application Engineer R.C.	DRAWN BY C.RACHAL		APPROVED BY	
Project Title						PURCHASE ORDER NUMBER	
DUPLIX PUMP CONTROL PANEL						DRAWING NUMBER CP-1656	
						SHEET NUMBER	
						3	



	Drawing Title						
	CONTROL DIAGRAM						
DATE		REFERENCE DRAWING	NO.	REVISION-LOCATION	ECN	DATE	BY
9/22/03		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	DRAWING NUMBER CP-1656	
					Ph. (225)756-3271 Fax (225)756-1030	SHEET NUMBER	4



VIEW OF SWING OUT PANEL

NAMEPLATE SCHEDULE

NOTE:
SEWER GASSES WILL DESTROY COMPONENTS IN PANEL.
PROPER SEALS MUST BE INSTALLED EXTERNAL TO THE
PANEL TO PREVENT ENTRY OF GASSES.

NP-1	PUMP 1 RUN
NP-2	PUMP 2 RUN
NP-3	INITIATE START
NP-4	HIGH LEVEL
NP-5	HOA
NP-6	HOA

	Drawing Title							
	ENCLOSURE							
DATE 9/22/03		REFERENCE DRAWING S/N	NO. Sales Engineer C.C.	REVISION-LOCATION Application Engineer R.C.	ECN BY C.RACHAL	DATE BY	BY	DATE
	Project Title				P.O. Box 77808 Baton Rouge, LA 70809	PURCHASE ORDER NUMBER		
	DUPLEX PUMP CONTROL PANEL	COX Research and Technology, Inc.			Ph. (225)756-3271 Fax (225)756-1030	DRAWING NUMBER CP-1656		
						SHEET NUMBER 5		

BILL OF MATERIALS

ITEM	QTY	MANUFACTURER	PART NO.	DESCRIPTION
1	1	ALLIED	AM24200RLDF	ENCLOSURE
1a	1	ALLIED	M2420P	BACKPLATE
2	1	ABB	OT63E3	MAIN DISC. SWITCH
3	2	ABB	A16-30-10-84	MOTOR STARTER
4	2	ABB	TA25DU4.0	O.L. RELAY (2.8-4.0A)
5	2	ABB	S1N015TL	CB1, CB2
6	1	TIMEMARK	261DT120	ALTERNATING RELAY
7	1	ACI	JR22FR	RED PILOT LIGHT
8	2	ACI	JR22P3M20B	HOA SWITCH
9	1	ABB	T4150PFS1	TRANSFORMER
10	1	AC/DC	BL5-R-120	ALARM LIGHT
11	2	ACI	JR22FG	GREEN PILOT LIGHT
12	1	ACI	JR22FY	AMBER PILOT LIGHT
13	1	EDWARDS	870P-N5	HORN
14	1	ACI	JR22AN11B	PUSH BUTTON
15	1	ABB	OHB2AJ1	DISCONNECT HANDLE
16	1	ABB	OXS5X180	DISCONNECT SHAFT
17	1	SIEMENS	230RC LOGO!	PLC
18	4	OMRON	G2R1SAC24	CR 1-4
19	1	OMRON	G2R2SAC120	CR 5
20	1	SSAC	FS126	FLASHER
21				
22				
23				
24				
25				

	Drawing Title						
	<h2 style="margin: 0;">BILL OF MATERIALS</h2>						
DATE 9/22/03		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-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)756-1030		PURCHASE ORDER NUMBER DRAWING NUMBER CP-1656 SHEET NUMBER <div style="text-align: right;">6</div>
	DUPLEX PUMP CONTROL PANEL						