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# COX

Research and Technology, Inc.

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CITY OF PINEVILLE  
WASCP  
WASTE ACTIVATED SLUDGE  
DUPLEX PUMP  
CONTROL PANEL

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

VOLTAGE	277/480V	(480V, 277/480V, 240V, 120/240V, 208V, 120/208V)
PHASE/HZ	3/60	
NO. MOTORS	2	
HP	3	
FLA	4.3	
TYPE OF PUMP	Submersible	(Self-Priming, Submersible)
MANUFACTURER	FLYGT	
CATALOG NUMBER		

CONTROL VOLTAGE	120V	(120V, Other)
ENCLOSURE	NEMA 4X	(NEMA 1, NEMA 3R, NEMA 4, NEMA 4X)
ENCLOSURE MATERIAL	Stainless Steel	(Painted Steel, Stainless Steel, Fiberglass)
CONTROL SENSOR	Timer	(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 MINI-CAS	(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		
PHASE MONITOR	X	
NEMA RATED STARTERS		
GROUND FAULT RECPT.		
GREEN RUN LIGHTS VS. RED		
POLE, BOX, SEAL		
INTRINSICALLY SAFE RELAYS		
HIGH TEMP. LOCKOUT, MANUAL RESET		
ECONOMY VERSION		
U.L. LISTING		

SOLD TO: ETEC  
TAG : PINEVILLE WWTP  
WASCP

SHIP TO:

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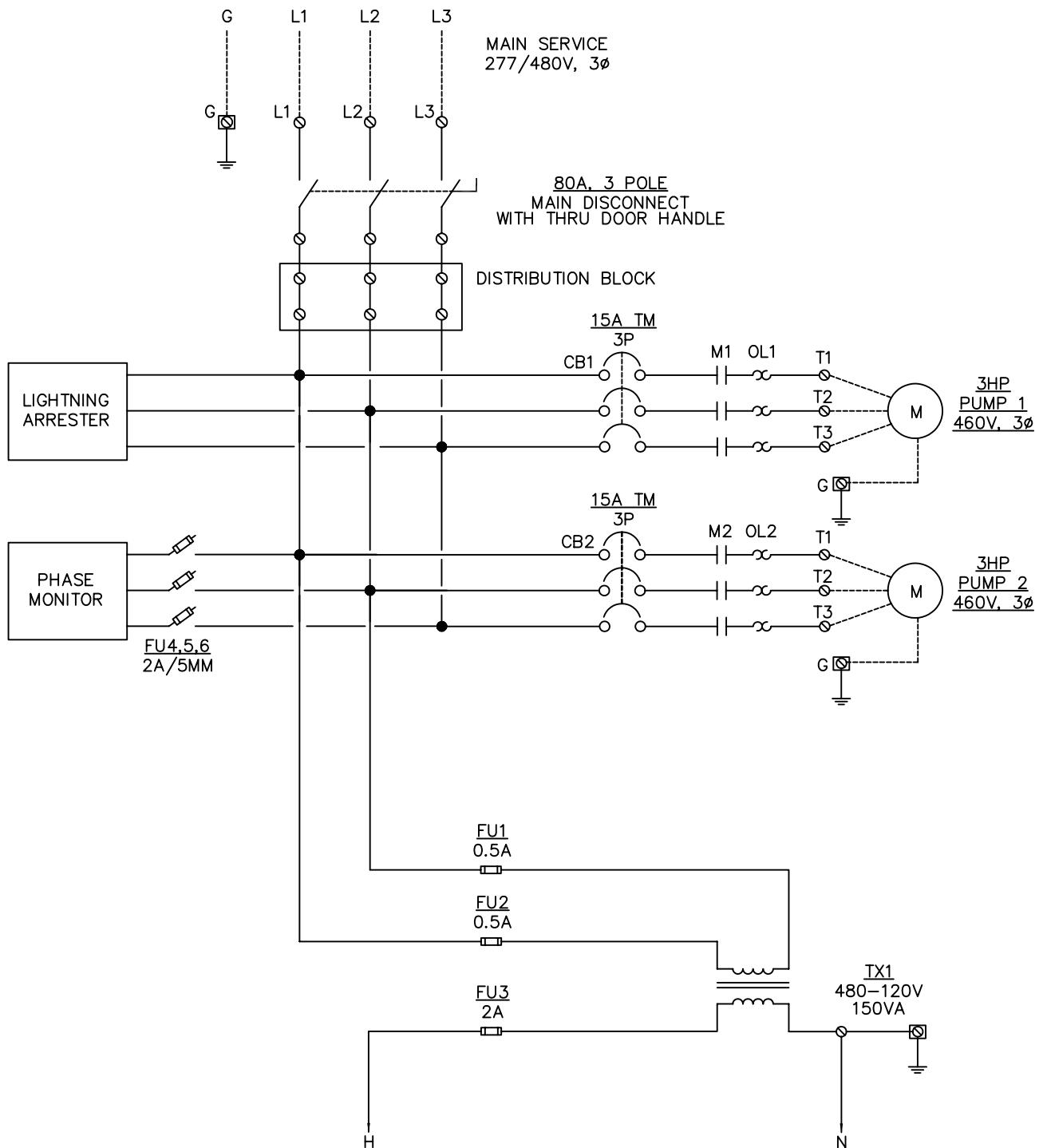


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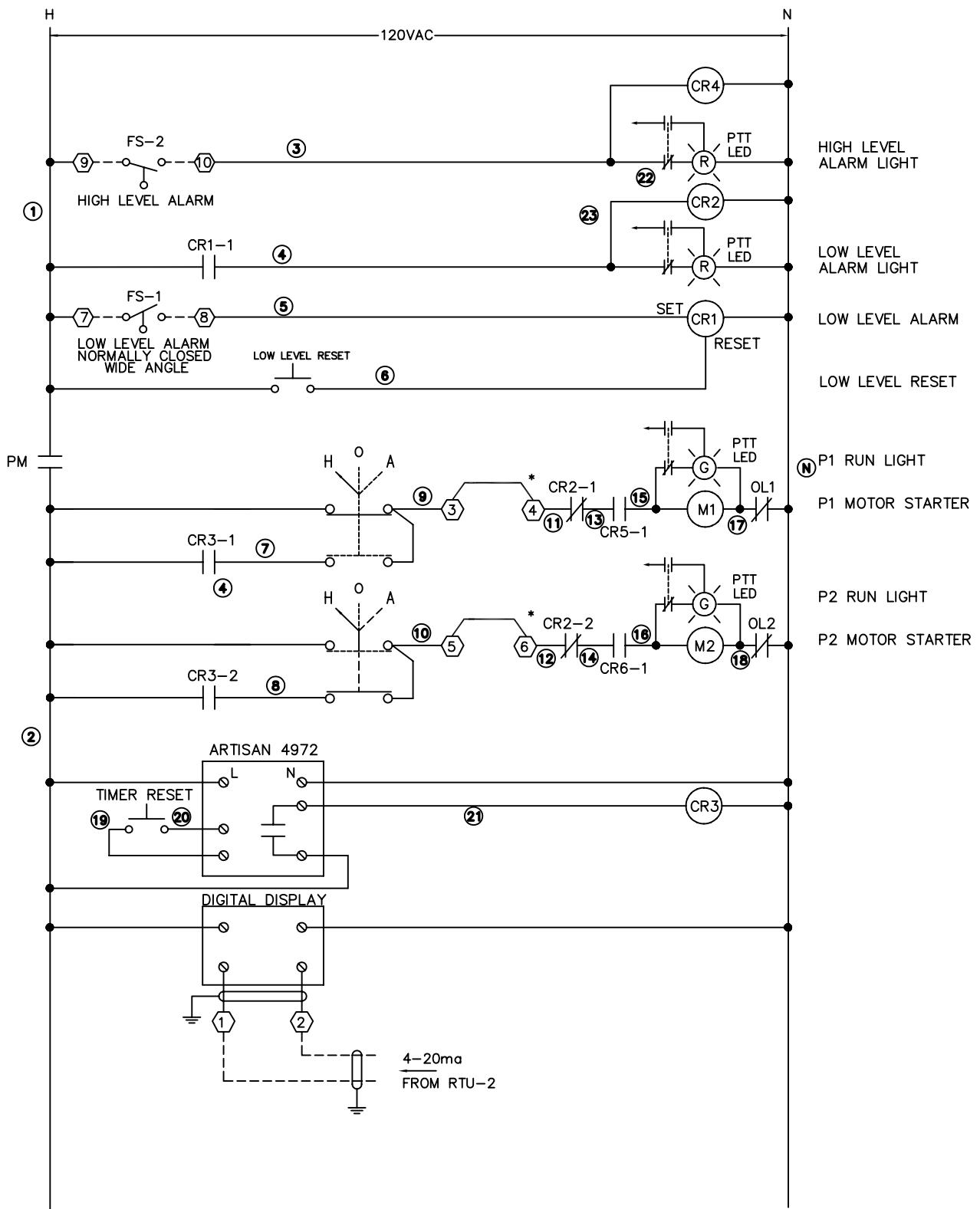


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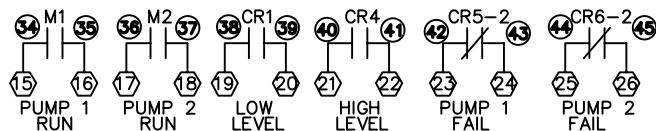
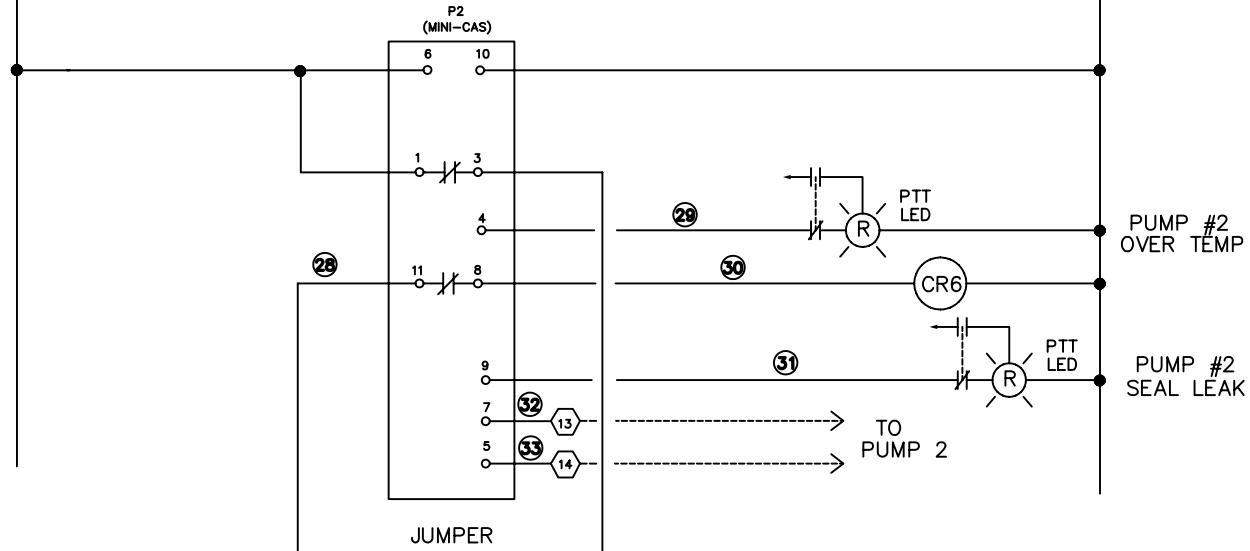
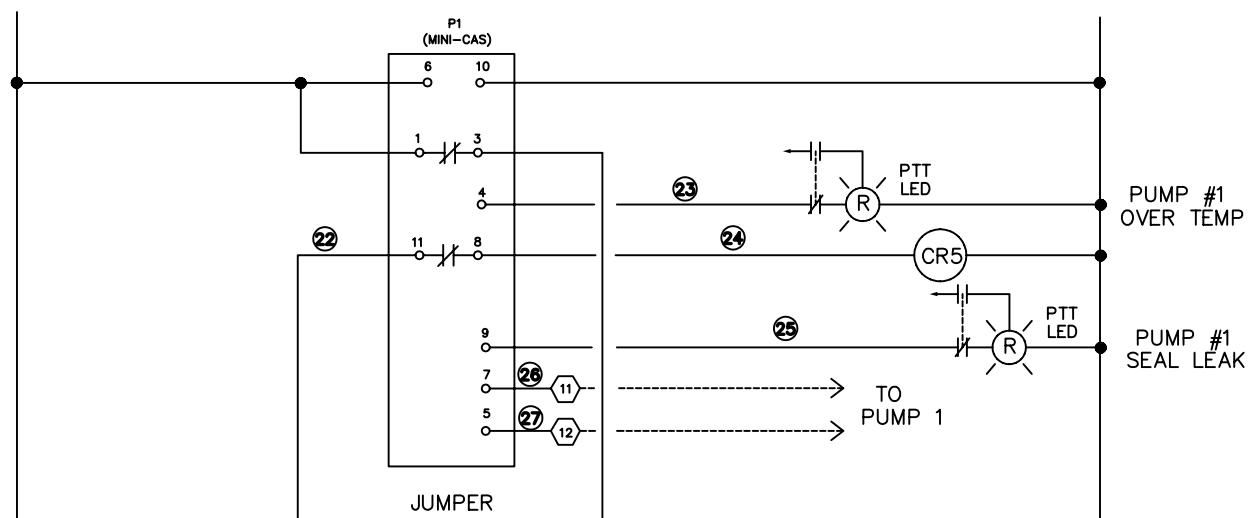
DATE 3/31/06	Drawing Title  PANEL DESCRIPTION								
		REFERENCE DRAWING S/N	DRAWING NO. Sales Engineer C.C.	REVISION-LOCATION DRAWN Application Engineer R.C.	ECN	DATE	BY	APPROVED	
	Project Title  DUPLEX PUMP CONTROL PANEL		COX Research and Technology, Inc.	P.O. Box 77808 Baton Rouge, LA 70809 Ph. (225)756-3271 Fax (225)755-1030				PURCHASE ORDER NUMBER DRAWING NUMBER SHEET NUMBER	CP-2278 1



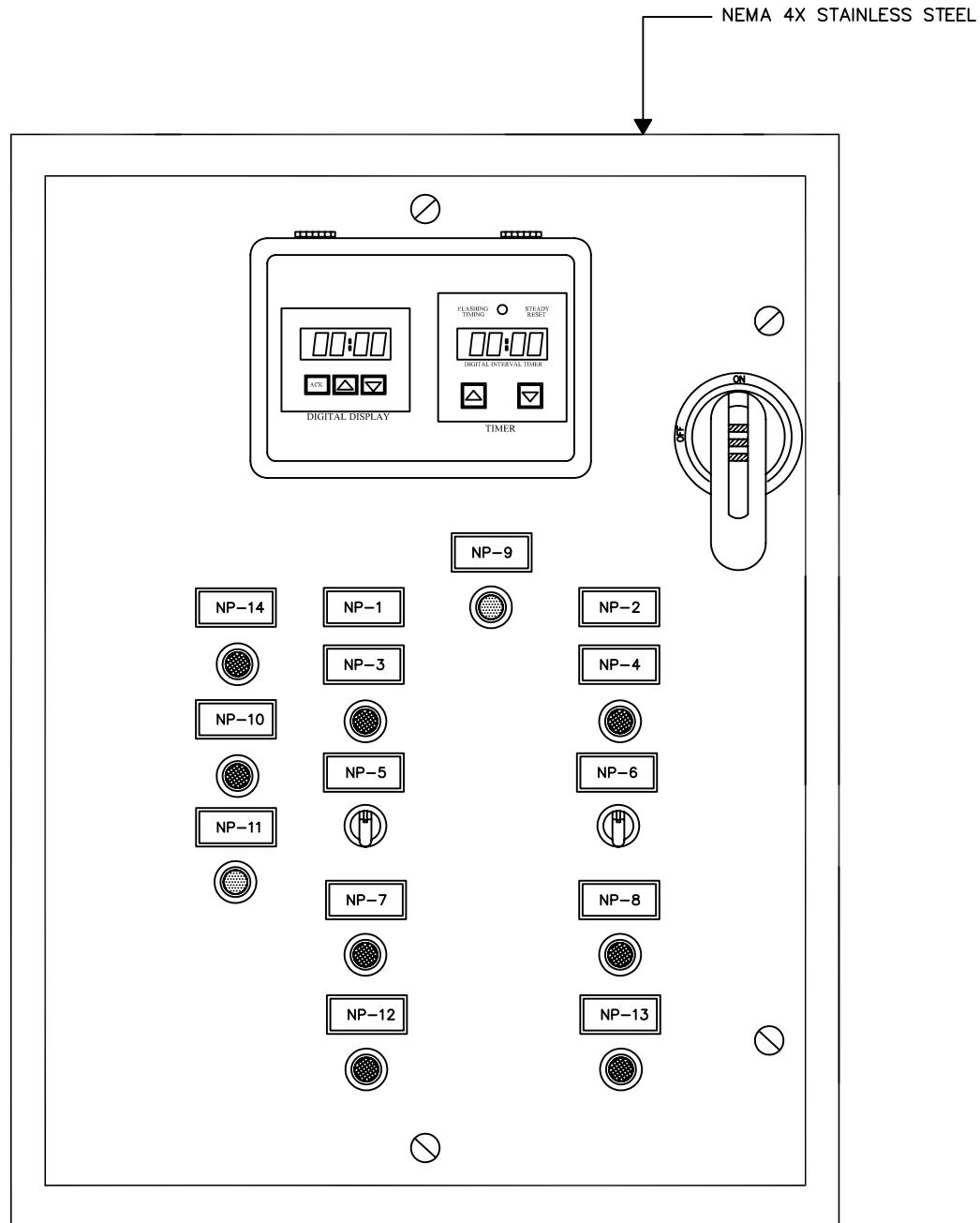
	Drawing Title  POWER DIAGRAM				
DATE 3/31/06	REFERENCE DRAWING S/N	NO. Sales Engineer C.C.	REVISION-LOCATION Application Engineer R.C.	ECN DRAWN BY C. RACHAL	DATE APPROVED BY DATE
	Project Title  DUPLEX PUMP CONTROL PANEL	COX Research and Technology, Inc.	P.O. Box 77808 Baton Rouge, LA 70809 Ph. (225)756-3271 Fax (225)755-1030	PURCHASE ORDER NUMBER  DRAWING NUMBER CP-2278 SHEET NUMBER 2	



	Drawing Title  CONTROL DIAGRAM				
DATE 3/31/06		REFERENCE DRAWING S/N	NO. Sales Engineer C.C.	REVISION-LOCATION DRAWN Application Engineer R.C.	ECN APPROVED BY C. RACHAL DATE BY DATE
Project Title  DUPLEX PUMP CONTROL PANEL		COX Research and Technology, Inc.		P.O. Box 77808 Baton Rouge, LA 70809 Ph. (225)756-3271 Fax (225)755-1030	PURCHASE ORDER NUMBER  DRAWING NUMBER CP-2278 SHEET NUMBER 3



	Drawing Title  CONTROL DIAGRAM			
		REFERENCE DRAWING S/N	NO. Sales Engineer C.C.	REVISION-LOCATION DRAWN Application Engineer R.C.
DATE 3/31/06				ECN APPROVED BY C. RACHAL
Project Title  DUPLEX PUMP CONTROL PANEL	COX Research and Technology, Inc.	P.O. Box 77808 Baton Rouge, LA 70809 Ph. (225)756-3271 Fax (225)755-1030	PURCHASE ORDER NUMBER  DRAWING NUMBER CP-2278 SHEET NUMBER 4	



### VIEW OF FRONT DOOR

NOTE:

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

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	TIMER RESET
NP-10	LOW LEVEL
NP-11	LOW LEVEL/RESET
NP-12	HIGH TEMP
NP-13	HIGH TEMP
NP-14	HIGH LEVEL

DATE 3/31/06	Drawing Title  ENCLOSURE						
		REFERENCE DRAWING		NO.	REVISION-LOCATION		ECN
		S/N	Sales Engineer	Application Engineer	DRAWN	APPROVED	
			C.C.	R.C.	BY C. RACHAL	BY	DATE
Project Title  DUPLEX PUMP CONTROL PANEL	<hr/> <hr/> <b>COX</b> <hr/> <hr/> Research and Technology, Inc. <hr/> <hr/>				PURCHASE ORDER NUMBER		
					DRAWING NUMBER		
					CP-2278		
		SHEET NUMBER				5	

# BILL OF MATERIALS

ITEM	QTY	MANUFACTURER	PART NO.	DESCRIPTION
1	1	SAGINAW	SCE-24EL2008SSLPPLWKB	ENCLOSURE
1a	1	SAGINAW	SCE-24P20	BACKPLATE
2	1	ABB	OT63E3	MAIN DISC. SWITCH
3	2	ABB	A16-30-10-84	MOTOR STARTER
4	2	ABB	TA25DU6.5	O.L. RELAY (4.5-6.5A)
5	2	ABB	T1N015TL	CB1, CB2
6	1	MAGNECRAFT	W388AMLCPX-9	CR1
7	6	ALLEN BRADLEY	800H-QRT10R	RED PILOT LIGHT PTT
8	2	ALLEN BRADLEY	800H-JR2A	HOA SWITCH
9	1	ABB	T4150PSF1	TRANSFORMER
10	1	MOORE	330R	DIGITAL DISPLAY
11	2	FLYGT	14-407129	PUMP FAIL RELAY
12	1	MARATHON	1323580	DISTRIBUTION BLOCK
13	5	IDECK	RY2SUAC-120	CR2-6
14	1	SSAC	PLMU11	PHASE MONITOR
15	1	ABB	OXP5X265	SHAFT
16	1	ABB	OHB65J5	HANDLE
17	2	ALLEN BRADLEY	800H-QRT10G	GREEN PILOT LIGHT PTT
18	2	ALLEN BRADLEY	800H-AR2A	PUSH BUTTON
19	1	ARTISAN	4972	DIGITAL COUNTER
20				
21				
22				
23				
24				

	Drawing Title  BILL OF MATERIALS						
DATE 3/31/06	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  DUPLEX PUMP CONTROL PANEL	 Research and Technology, Inc. 				P.O. Box 77808 Baton Rouge, LA 70809  Ph. (225)756-3271 Fax (225)755-1030	PURCHASE ORDER NUMBER	
						DRAWING NUMBER	
						CP-2278	
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