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# COX

Research and Technology, Inc.

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## 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

CP-1253r1

VOLTAGE	277/480V	(480V, 277/480V, 240V, 120/240V, 208V, 120/208V)
PHASE/HZ	3/60	
NO. MOTORS	2	
HP	3	
FLA	4.8	
TYPE OF PUMP	Submersible	(Self-Priming, Submersible)
MANUFACTURER	-	
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	FLOATS	(FLOATS, Bubbler, Other)
CAPACITORS	No	(Yes, No)
CAPACITOR WIRING FIGURE	N/A	
THERM. & SEAL FAIL WIRING FIGURE	-	

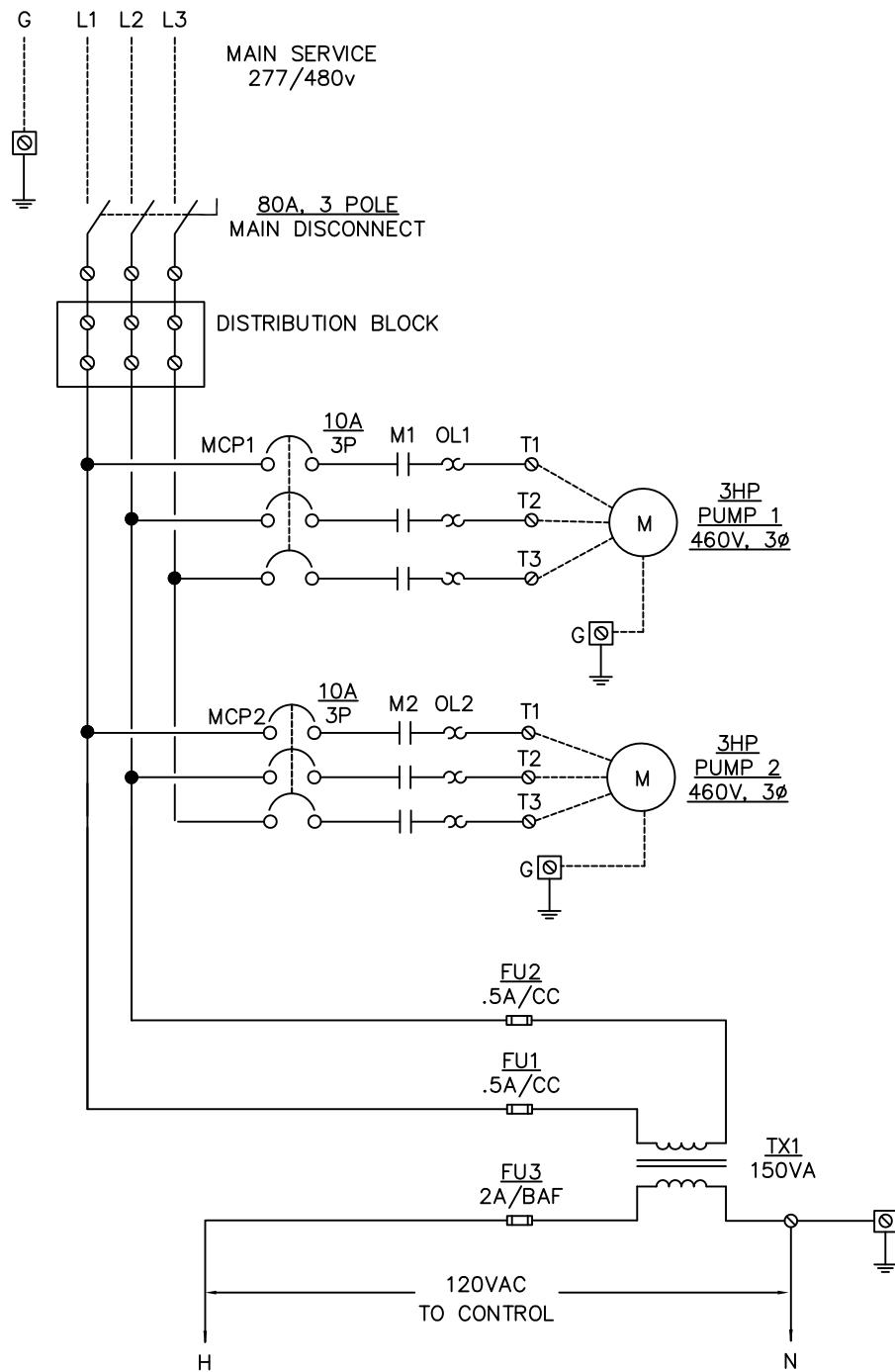
OPTIONS:

SEAL FAIL LIGHTS	X	(Submersible Only)
SEAL FAIL RELAYS	X	(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	X	
LIGHTNING ARRESTER	-	
ELAPSED TIME METER	-	
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	-	

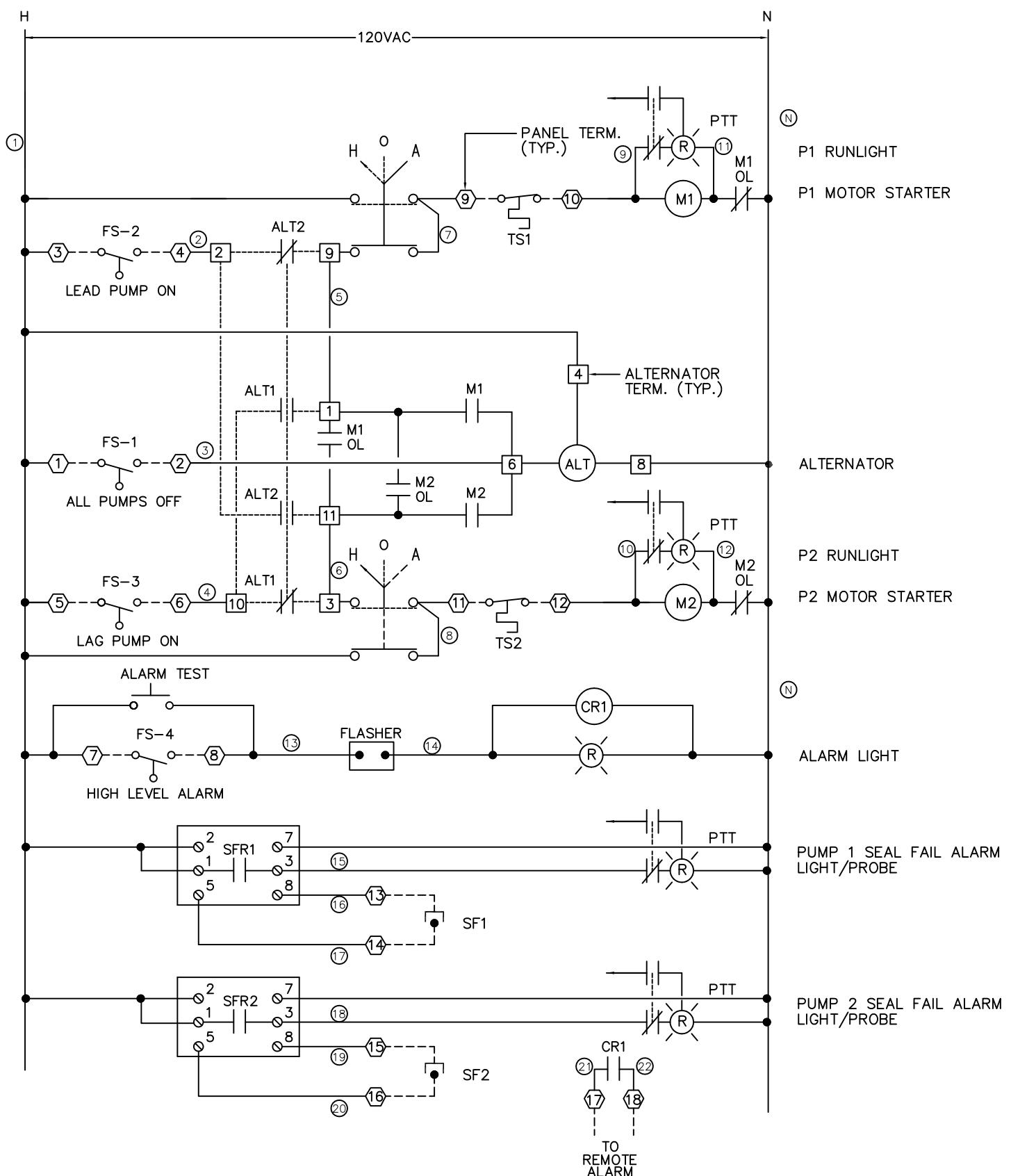
SOLD TO: Delta Process  
TAG : \_\_\_\_\_  
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SHIP TO: Delta Process  
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	Drawing Title						
	PANEL DESCRIPTION						
		REFERENCE DRAWING	NO.	REVISION-LOCATION	ECN	DATE	BY
DATE 8/04/06		S/N	Sales Engineer	Application Engineer	DRAWN	APPROVED	
			C.C.	R.C.	BY C. RACHAL	BY	DATE
	Project Title	<hr/> <hr/> <hr/> <hr/> <hr/>			P.O. Box 77808 Baton Rouge, LA 70809	PURCHASE ORDER NUMBER	
	DUPLEX PUMP CONTROL PANEL	<hr/> <hr/> <hr/> <hr/> <hr/>			Ph. (225)756-3271 Fax (225)755-1030	DRAWING NUMBER CP-1253rl	
		<hr/> <hr/> <hr/> <hr/> <hr/>				SHEET NUMBER 1	

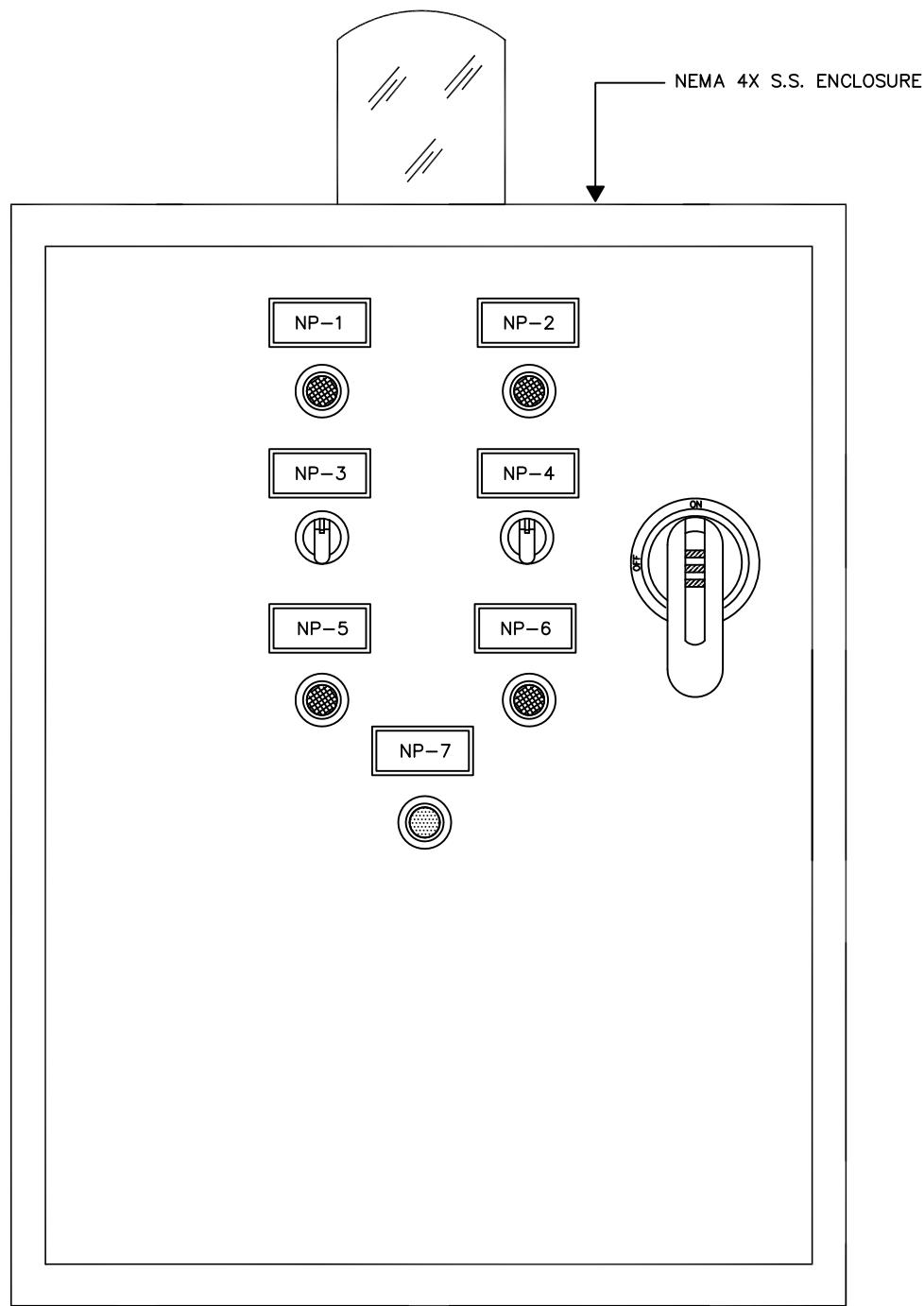


	Drawing Title  <b>POWER DIAGRAM</b>				
DATE 8/04/06	REFERENCE DRAWING S/N	NO. Sales Engineer C.C.	REVISION-LOCATION DRAWN Application Engineer R.C.	ECN	DATE APPROVED BY
	Project Title  <b>DUPLEX PUMP CONTROL PANEL</b>	<b>COX</b> Research and Technology, Inc.	P.O. Box 77808 Baton Rouge, LA 70809  Ph. (225)756-3271 Fax (225)755-1030	PURCHASE ORDER NUMBER  DRAWING NUMBER CP-1253r1  SHEET NUMBER 2	



\* REMOVE JUMPERS AND INSTALL LOCKOUT DEVICES IF REQUIRED

	Drawing Title							
		REFERENCE DRAWING		NO.	REVISION-LOCATION		ECN	DATE
DATE	S/N		Sales Engineer	Application Engineer	DRAWN	APPROVED		BY
8/04/06	C.C.			R.C.	BY C. RACHAL	BY		DATE
	Project Title				PURCHASE ORDER NUMBER			
	COX				DRAWING NUMBER			
	Research and Technology, Inc.				CP-1253r1			
	P.O. Box 77808 Baton Rouge, LA 70809				SHEET NUMBER			
	Ph. (225)756-3271 Fax (225)755-1030				3			



VIEW OF FRONT OF ENCLOSURE

### NAMEPLATE SCHEDULE

NP-1	PUMP 1 RUN
NP-2	PUMP 2 RUN
NP-3	HOA
NP-4	HOA
NP-5	SEAL FAIL
NP-6	SEAL FAIL
NP-7	ALARM TEST

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

	Drawing Title  ENCLOSURE  DATE 8/04/06							
	REFERENCE DRAWING		NO.	REVISION-LOCATION		ECN	DATE	BY
	S/N	Sales Engineer C.C.	Application Engineer R.C.	DRAWN BY C. RACHAL	APPROVED BY DATE			
	Project Title  DUPLEX PUMP CONTROL PANEL		<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)755-1030	DRAWING NUMBER CP-1253r1		
						SHEET NUMBER 4		

## BILL OF MATERIAL

ITEM	QTY	MANUFACTURER	PART NO.	DESCRIPTION
1	1	SAGINAW	SCE-24EL2008SSLP	ENCLOSURE
1a	1	SAGINAW	SCE-24P20	BACKPLATE
2	2	ABB	A16NO-30-10-84	MOTOR STARTER
3	2	ABB	TA25DU5.0	O.L. RELAY (3.5-5.0A)
4	2	ABB	S3N010MW	CB1, CB2
5	1	ABB	OT63E3	DISCONNECT SWITCH
6	2	A-B	800H-JR2A	HOA SWITCH
7	1	ABB	OHB65J5	HANDLE
8	4	A-B	800H-QRT10R	RED PILOT LIGHT
9	1	A-B	800H-AR2A	PUSH BUTTON
10	1	SSAC	FS126RC	FLASHER
11	1	IDECK	RY2SUAC120	CONTROL RELAY
12	1	MARATHON	1323580	DISTRIBUTION BLOCK
13	2	SSAC	LLC54AA	SEAL FAIL RELAYS
14	1	ABB	T4150PSF1	TRANSFORMER
15	1	TIMEMARK	261DT120	ALTERNATOR
16				
17				
18				
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22				
23				
24				
25				

	Drawing Title									
	BILL OF MATERIALS									
			REFERENCE DRAWING		NO.	REVISION-LOCATION		ECN	DATE	BY
DATE 8/04/06			S/N	Sales Engineer	Application Engineer	DRAWN		APPROVED		
				C.C.	R.C.	BY C.RACHAL	BY	DATE		
	Project Title		COX			PURCHASE ORDER NUMBER  DRAWING NUMBER CP-1253r1  SHEET NUMBER 5				
	DUPLEX PUMP CONTROL PANEL		Research and Technology, Inc.							