
COX

Research and Technology, Inc.

DUPLEX PUMP
CONTROL PANEL
GONZALES #28

AS BUILTS
AUGUST 1, 2005
FIELD REVISIONS
DECEMBER 2021

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

CP-2119R1

SOLD TO:
TAG:
-

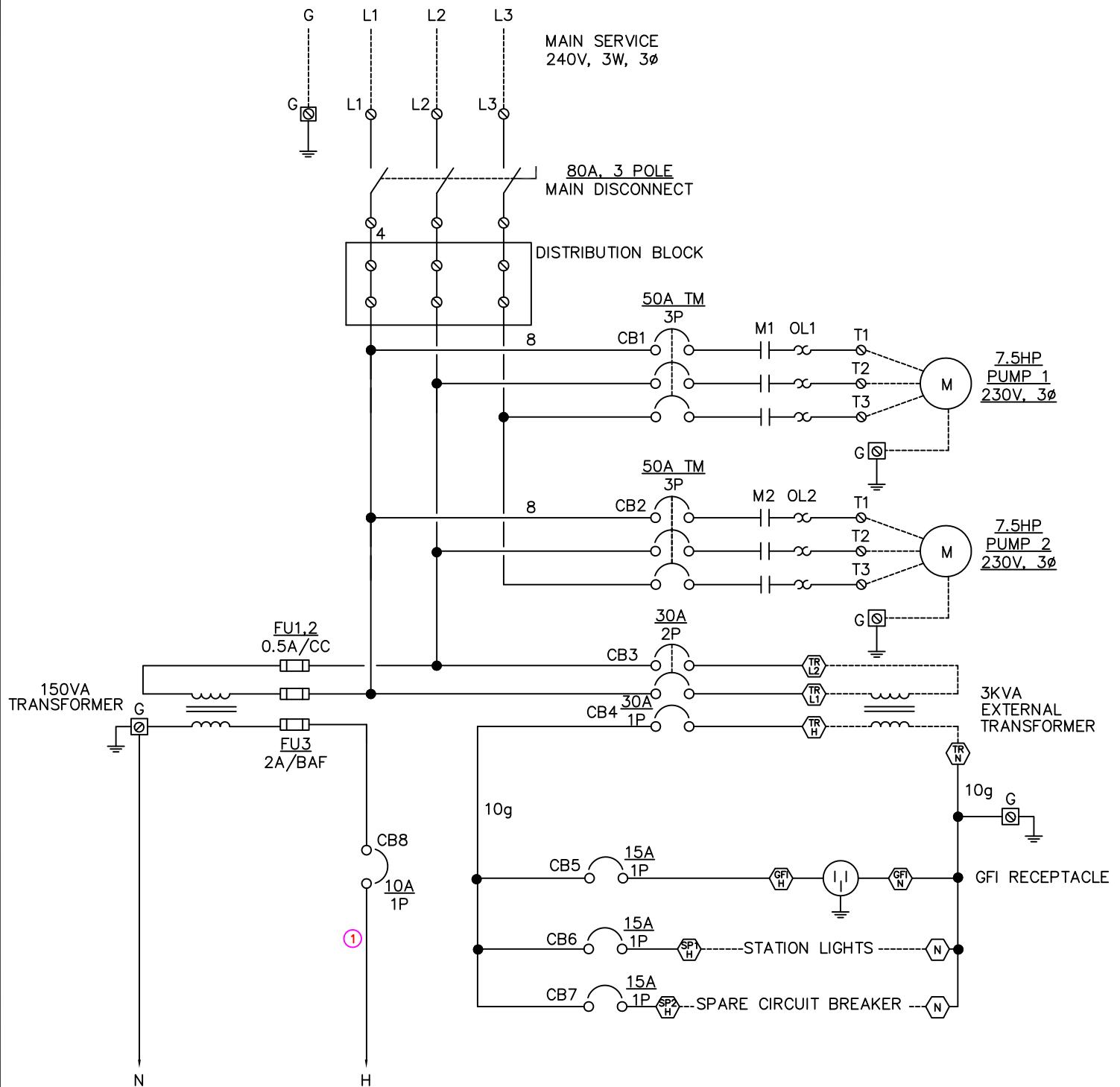
SHIP TO:
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SPECIAL NOTES:

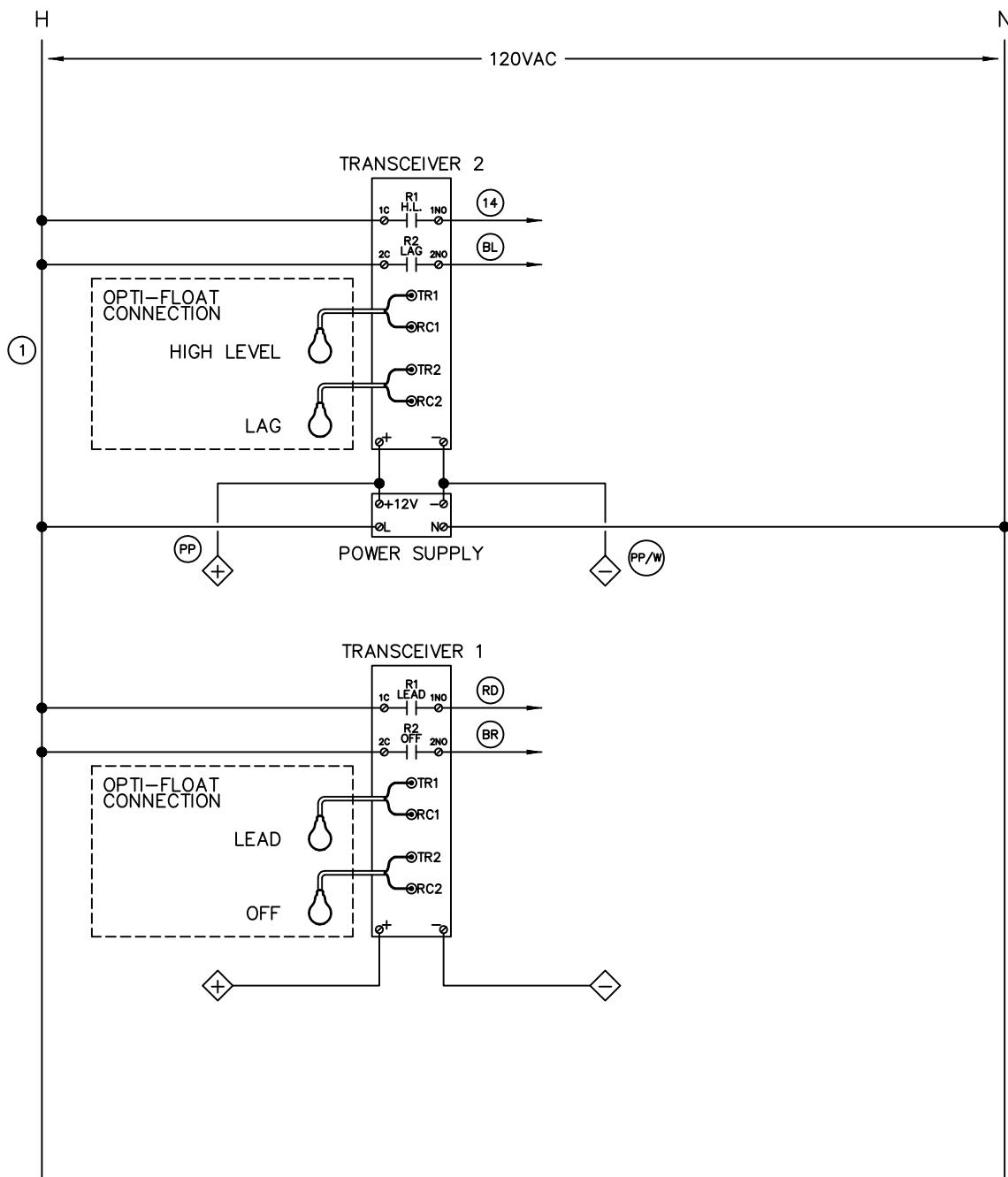
Panel Type	Duplex
Voltage	240
Phase/HZ	3/60
No. Motors	2
HP	7.5
FLA	23.7
Pump Manufacturer	-
Type of Pump	Submersible
Catalog Number	-
Capacitors	No
Control Voltage	120
Control Power Transformer VA=3K	Yes
Enclosure NEMA Rating	4X
Enclosure Material	Fiberglass
Enclosure Size	24x20x10
Inner Swing Panel	Yes
Conrol Sensor	Floats,Opti
UL508A Labeling	No
UL698A Labeling	No

Alarm Light - Panel Door Mount	
Alarm Light - Panel Top Mount	
Alarm Light - Remote	X
Alarm Test Switch	
Alarm Silence Switch	
Alarm Acknowledge Switch	
Alternator with Lead Pump Selector Switch	
Audible Alarm - Bell	
Audible Alarm - Horn	
Audible Alarm - Piezo	
COX™ CAMO™ System	
Cycle Counters	
Economy Version	
Elapsed Time Meter	
Flasher	
Green Run Lights vs. Red	
Ground Fault Receptacle (Existing)	X
High Temp Lights	
High Temp Pump Shutdown - Auto Reset	
High Temp Pump Shutdown - Manual Reset	
Intrinsically Safe Relays Pts.	
Lightning Arrestor	
Main Disconnect with Door Mt. Handle	
Opti-Float® Level Dector Pts.	X
Panel Heater / Thermostat W=	
Phase Monitor	
Pole, Box, Seal	
Seal Fail Lights	X
Seal Fail Relay - Fixed	
Seal Fail Relay - Adjustable	X
Seal Fail Shutdown	
Starters - IEC	
Starters - NEMA	
Unpowered Alarm Circuits #	
OTHER:	

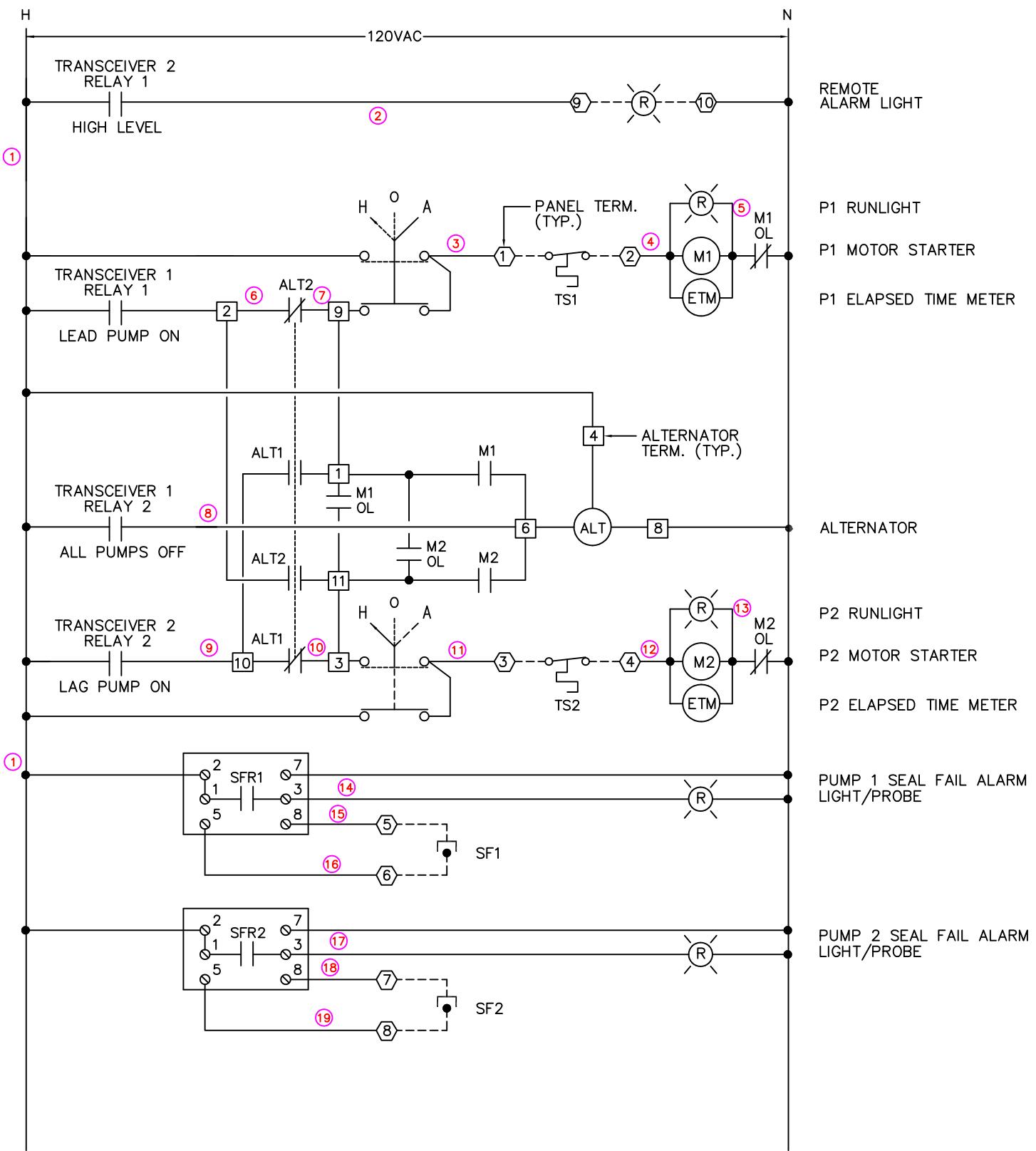
	Drawing Title						
	PANEL DESCRIPTION						
		REFERENCE DRAWING	NO.	REVISION-LOCATION	ECN	DATE	BY
DATE 8/01/05		S/N	Sales Engineer	Application Engineer	DRAWN	APPROVED	
			C.C.	R.C.	BY C. RACHAL	BY	DATE
	Project Title	<hr/> COX <hr/> Research and Technology, Inc. <hr/>			P.O. Box 77808 Baton Rouge, LA 70809	PURCHASE ORDER NUMBER	
	DUPLEX PUMP CONTROL PANEL				Ph. (225)756-3271 Fax (225)755-1030	DRAWING NUMBER CP-2119R1	
						SHEET NUMBER 1	



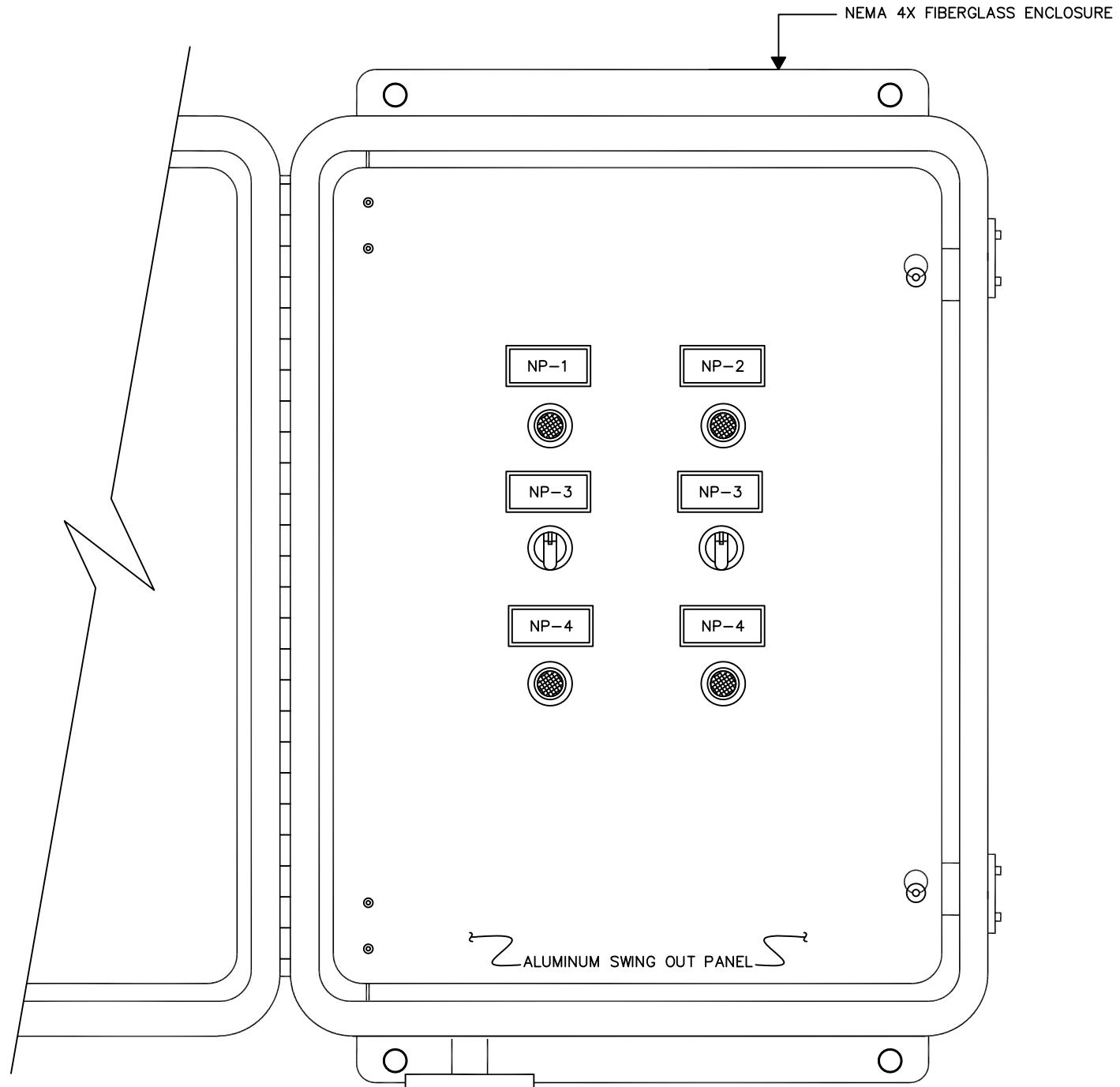
	Drawing Title POWER DIAGRAM				
		REFERENCE DRAWING S/N	NO. Sales Engineer C.C.	REVISION-LOCATION DRAWN BY C. RACHAL	ECN APPROVED BY DATE
DATE 8/01/05		Application Engineer R.C.			
	Project Title DUPLEX PUMP CONTROL PANEL		COX Research and Technology, Inc.	P.O. Box 77808 Baton Rouge, LA 70809 Ph. (225)756-3271 Fax (225)755-1030	PURCHASE ORDER NUMBER DRAWING NUMBER CP-2119R1 SHEET NUMBER 2



	Drawing Title					
	CONTROL DIAGRAM					
	REFERENCE DRAWING	NO.	REVISION-LOCATION	ECN	DATE	BY
DATE 8/01/05	S/N	Sales Engineer	Application Engineer	DRAWN	APPROVED	
		C.C.	R.C.	BY C. RACHAL	BY	DATE
	Project Title	<hr/> <hr/> <hr/> COX <hr/> <hr/>			PURCHASE ORDER NUMBER	
	DUPLEX PUMP CONTROL PANEL	Research and Technology, Inc.			DRAWING NUMBER	CP-2119R1
					SHEET NUMBER	3



	Drawing Title CONTROL DIAGRAM DATE 8/01/05								
		REFERENCE DRAWING		NO.	REVISION-LOCATION		ECN	DATE	BY
S/N		Sales Engineer C.C.	Application Engineer R.C.		DRAWN		APPROVED		
				BY C. RACHAL		BY	DATE		
	Project Title DUPLEX PUMP CONTROL PANEL	<hr/> <hr/> COX Research and Technology, Inc. <hr/> <hr/>			P.O. Box 77808 Baton Rouge, LA 70809	PURCHASE ORDER NUMBER			
					Ph. (225)756-3271 Fax (225)755-1030	DRAWING NUMBER CP-2119R1			
						SHEET NUMBER 4			

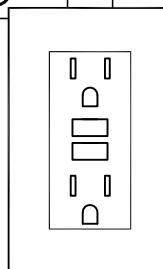


VIEW OF SWING OUT PANEL

NAMEPLATE SCHEDULE

NP-1	PUMP 1/RUN
NP-2	PUMP 2/RUN
NP-3	HOA
NP-4	SEAL FAIL

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



	Drawing Title									
	ENCLOSURE									
	REFERENCE DRAWING	NO.	REVISION-LOCATION		ECN	DATE	BY			
DATE 8/01/05	S/N	Sales Engineer	Application Engineer	DRAWN		APPROVED				
	C.C.		R.C.	BY C. RACHAL	BY	DATE				
	Project Title	<hr/> COX <hr/> Research and Technology, Inc. <hr/>			PURCHASE ORDER NUMBER					
	DUPLEX PUMP CONTROL PANEL				DRAWING NUMBER					
					CP-2119R1					
					SHEET NUMBER					
					5					

BILL OF MATERIALS

ITEM	QTY	MANUFACTURER	PART NO.	DESCRIPTION	*
1	1	ALLIED	AM24200RL	ENCLOSURE	*
1a	1	ALLIED	2420AL	BACKPLATE	
2	1	ABB	OT80E3	MAIN DISC. SWITCH	
3	2	ABB	AF30-30-00-13	MOTOR STARTER	
4	2	ABB	TF42-29	O.L. RELAY (24-29A)	
5	2	SQUARE D	QOU350	CB1, CB2	
6	1	DIVERSIFIED	ARB-120-ADA	ALTERNATING RELAY	
7	4	ABB	CL513R	RED PILOT LIGHT	
8	2	ABB	C3SS110B-20	HOA SWITCH	
9	1	SQUARE D	QOU130	CB4	
10	3	SQUARE D	QOU115	CB5-7	
11	1	SQUARE D	3S1F	3KVA EXTERNAL TRANSFORMER	*
12	1	STAHLIN	RJ1412HPL	J-BOX	*
13	1	MARATHON	1323580	DISTRIBUTION BLOCK	
14	2	SSAC	LLC54AA	SEAL FAIL RELAY	
15	1	SQUARE D	QOU230	CB3	
16	1	HUBBELL		GFI RECEPTACLE	*
17	1	ABB	T4150PSF-1	150VA TRANSFORMER	
18	2	COX RESEARCH	OPTI-TR2A	TRANSCEIVER	
19	4	COX RESEARCH	OPTI-F130-WT1	30' WEIGHTED OPTI-FLOAT	
20	1	COX RESEARCH	OPTI-PS1	POWER SUPPLY	
21	2	ABB	CA4-10	AUX CONTACT	
22	1	SQUARE D	QOU110	CB8	
23	1	ALLIED	HFP2420	SWING PANEL	
24					
25					

*EXISTING

	Drawing Title						
	BILL OF MATERIALS						
DATE 8/01/05			REFERENCE DRAWING S/N	NO. Sales Engineer C.C.	REVISION-LOCATION DRAWN BY C. RACHAL	ECN	DATE
	Project Title		COX		P.O. Box 77808 Baton Rouge, LA 70809 Ph. (225)756-3271 Fax (225)755-1030		PURCHASE ORDER NUMBER DRAWING NUMBER CP-2119R1 SHEET NUMBER 6
	DUPLEX PUMP CONTROL PANEL		Research and Technology, Inc.				