
COX

Research and Technology, Inc.

DUPLEX PUMP CONTROL PANEL BOLLINGER SHIPYARD

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

SOLD TO: Delta Process - Ruston, LA
TAG: Bollinger Shipyard

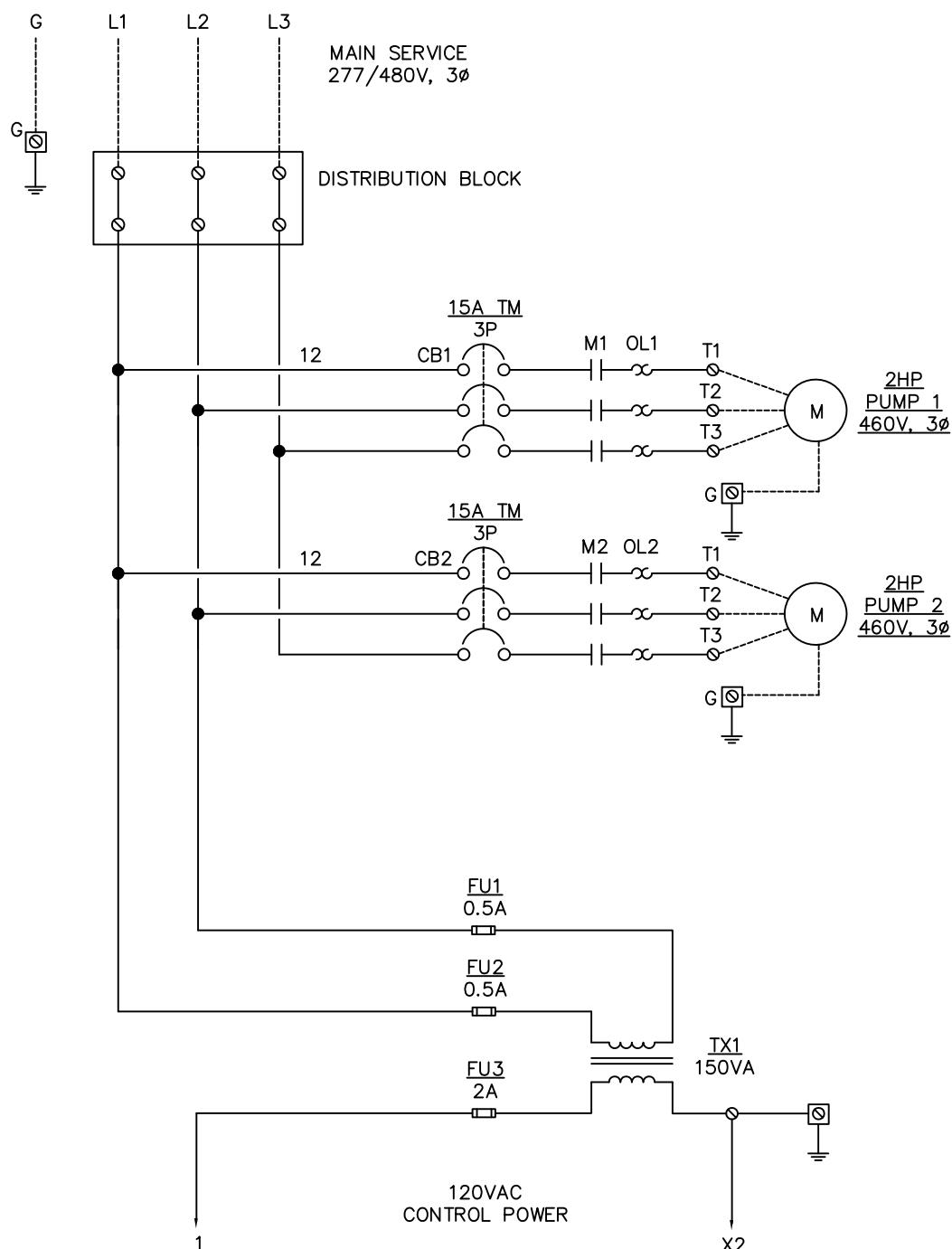
SHIP TO: Delta Process - Bollinger Shipyard

SPECIAL NOTES:

Panel Type	Duplex
Voltage	277/480V
Phase/HZ	3/60
No. Motors	2
HP	2
FLA	3.4 (est.)
Pump Manufacturer	Barnes
Type of Pump	Submersible
Catalog Number	
Capacitors	No
Control Voltage	120V
Control Power Transformer VA = 150	Yes
Enclosure NEMA Rating	4X
Enclosure Material	Fiberglass
Enclosure Size	18x16x10
Inner Swing Panel	No
Control Sensor	Floats
UL508A Labeling	No
UL698A Labeling	No

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

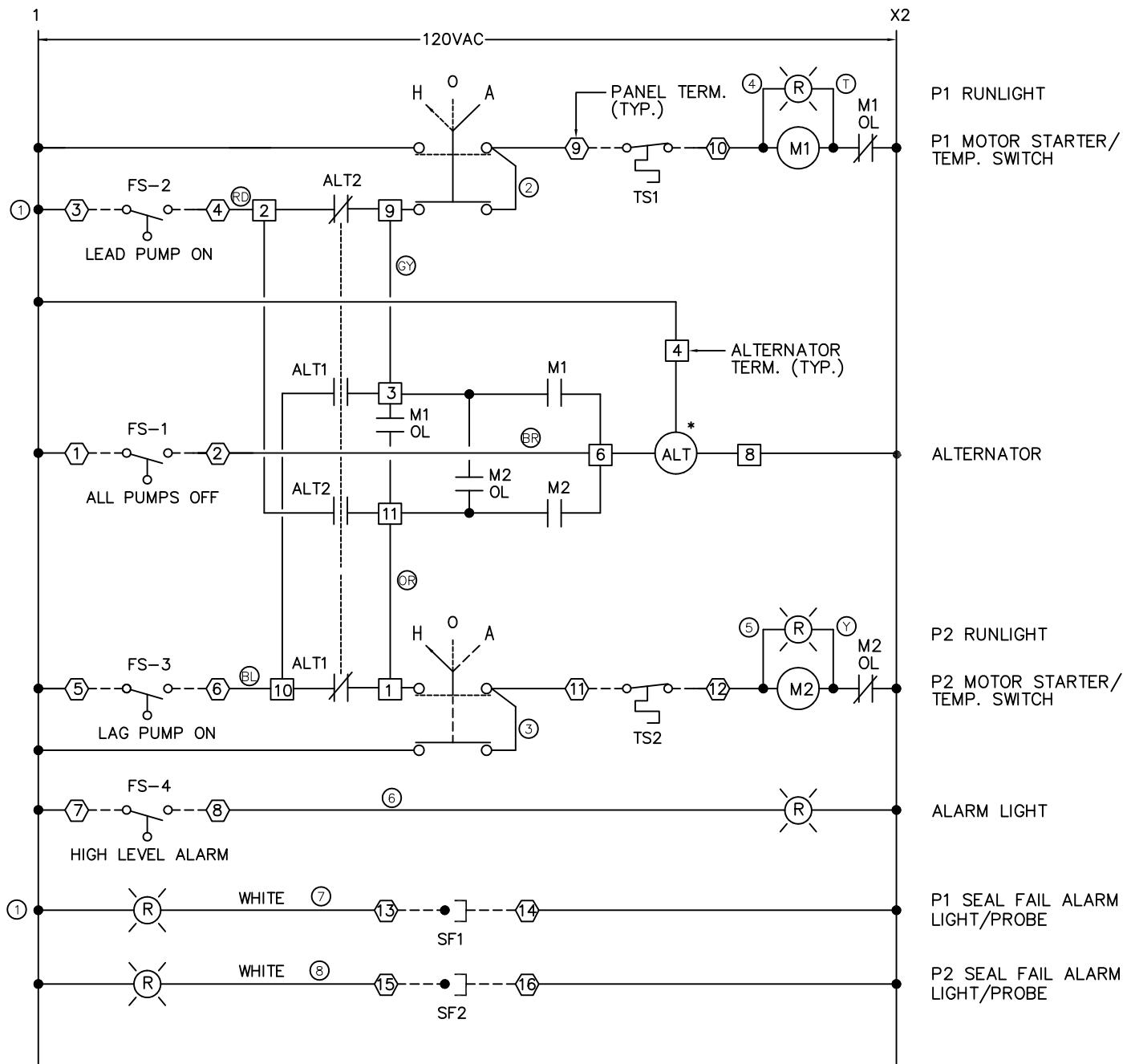
	Drawing Title					
	PANEL DESCRIPTION					
		REFERENCE DRAWING	NO.	REVISION-LOCATION	ECN	DATE BY
DATE 10/08/07		S/N	Sales Engineer C.C.	Application Engineer R.C.	DRAWN BY COREYC	APPROVED BY DATE
	Project Title	<hr/> <hr/> COX <hr/> <hr/> Research and Technology, Inc.		P.O. Box 77808 Baton Rouge, LA 70809	PURCHASE ORDER NUMBER	
	DUPLEX PUMP CONTROL PANEL			Ph. (225)756-3271 Fax (225)755-1030	DRAWING NUMBER CP-2152	
					SHEET NUMBER 1	



SCHEMATIC KEY

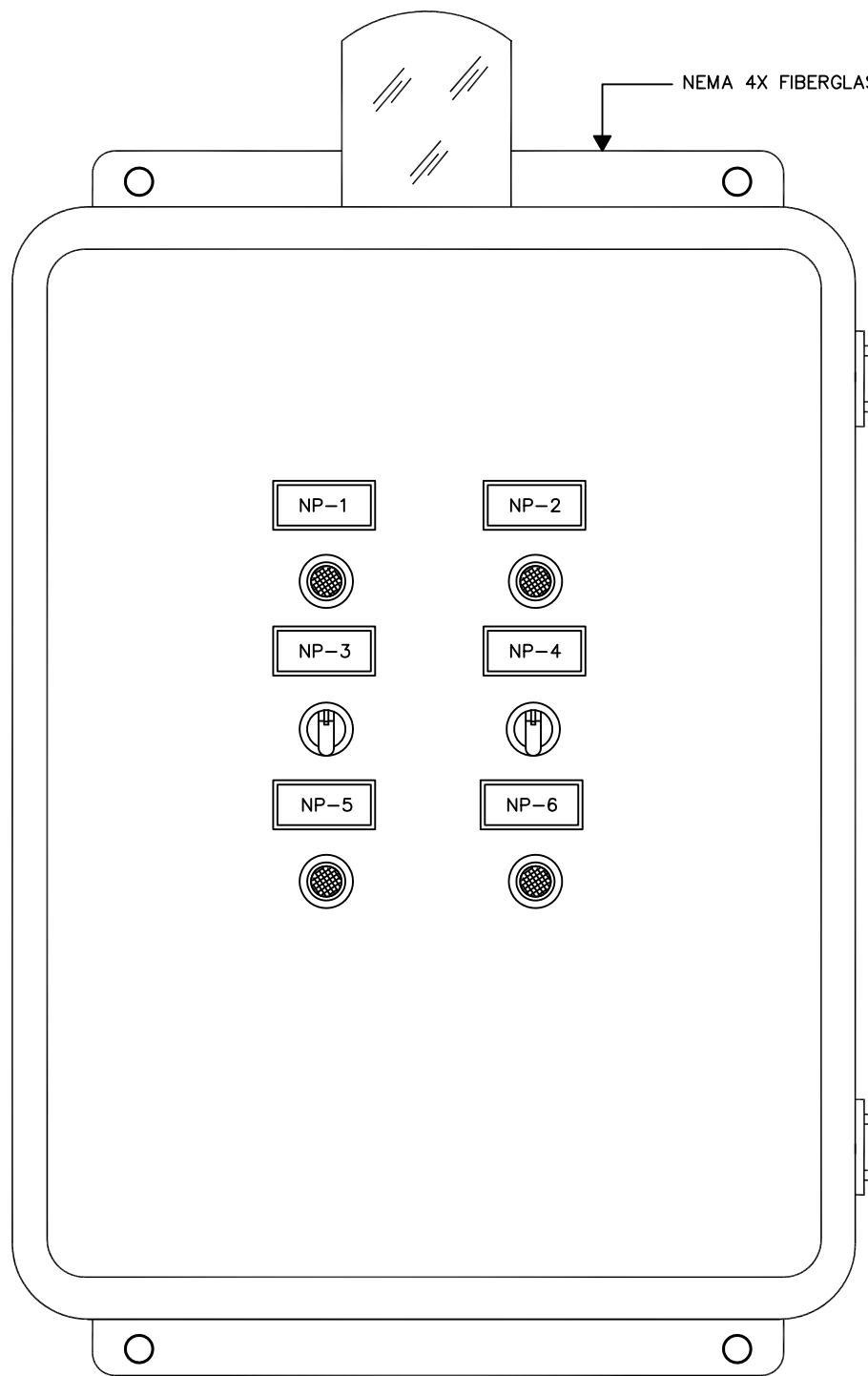
- (3) WIRE NUMBERS OR COLOR
- (5) TERMINAL NUMBER
- (6) ALTERNATOR TERMINAL

	Drawing Title						
	POWER DIAGRAM						
REFERENCE DRAWING		NO.	REVISION-LOCATION		ECN	DATE	BY
S/N	Sales Engineer	Application Engineer	DRAWN		APPROVED		
	C.C.	R.C.	BY COREYC	BY	DATE		
DATE 10/08/07	Project Title		COX		PURCHASE ORDER NUMBER		
	DUPLEX PUMP CONTROL PANEL		Research and Technology, Inc.		DRAWING NUMBER		
					CP-2152		
					SHEET NUMBER		
					2		



* DIVERSIFIED ALTERNATOR

	Drawing Title CONTROL DIAGRAM DATE 10/08/07						
	REFERENCE DRAWING		NO.	REVISION-LOCATION		ECN	DATE BY
	S/N	Sales Engineer C.C.	Application Engineer R.C.	DRAWN BY COREYC		APPROVED BY DATE	
	Project Title		<hr/> <hr/> COX <hr/> <hr/> Research and Technology, Inc.		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-2152	
						SHEET NUMBER 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

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 10/08/07	REFERENCE DRAWING S/N	NO. C.C.	REVISION-LOCATION DRAWN BY COREYC	ECN	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-2152 SHEET NUMBER 4	

BILL OF MATERIALS

ITEM	QTY	MANUFACTURER	PART NO.	DESCRIPTION
1	1	STAHLIN	RJ1816HPL	ENCLOSURE
1a	1	STAHLIN	BP1816AL	BACKPLATE
2	2	ABB	A16-30-10-84	MOTOR STARTER
3	2	ABB	TA25DU4.0	O.L. RELAY (2.8-4.0A)
4	2	ABB	T1N015TL	CB1, CB2
5	1	DIVERSIFIED	ARB-120-ADA	ALTERNATING RELAY
6	4	ABB	CL100R	RED PILOT LIGHT
7	2	ACI	JR22P3M20B	HOA SWITCH
8	1	ABB	T4150PSF1	TRANSFORMER
9	1	CONERY	R40-XLS	ALARM LIGHT
10	1	MARATHON	1323580	DISTRIBUTION BLOCK
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25				

	Drawing Title						
	BILL OF MATERIALS						
DATE 10/08/07	REFERENCE DRAWING		NO.	REVISION-LOCATION		ECN	DATE BY
	S/N	Sales Engineer	Application Engineer	DRAWN		APPROVED	
			C.C.	R.C.	BY COREYC	BY	DATE
	Project Title		COX		P.O. Box 77808 Baton Rouge, LA 70809	PURCHASE ORDER NUMBER	
	DUPLEX PUMP CONTROL PANEL		Research and Technology, Inc.		Ph. (225)756-3271 Fax (225)755-1030	DRAWING NUMBER CP-2152	
						SHEET NUMBER 5	