
COX

Research and Technology, Inc.

DUPLEX PUMP
CONTROL PANEL

AS BUILTS
SEPTEMBER 23, 2022

SN: 90032

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

CP-2171R1

VOLTAGE	277/480V	(480V, 277/480V, 240V, 120/240V, 208V, 120/208V)
PHASE/HZ	3/60	
NO. MOTORS	2	
HP	15	
FLA	29.8A	
TYPE OF PUMP	Submersible	(Self-Priming, Submersible)
MANUFACTURER	Myers	
CATALOG NUMBER	WG150H-43-25	

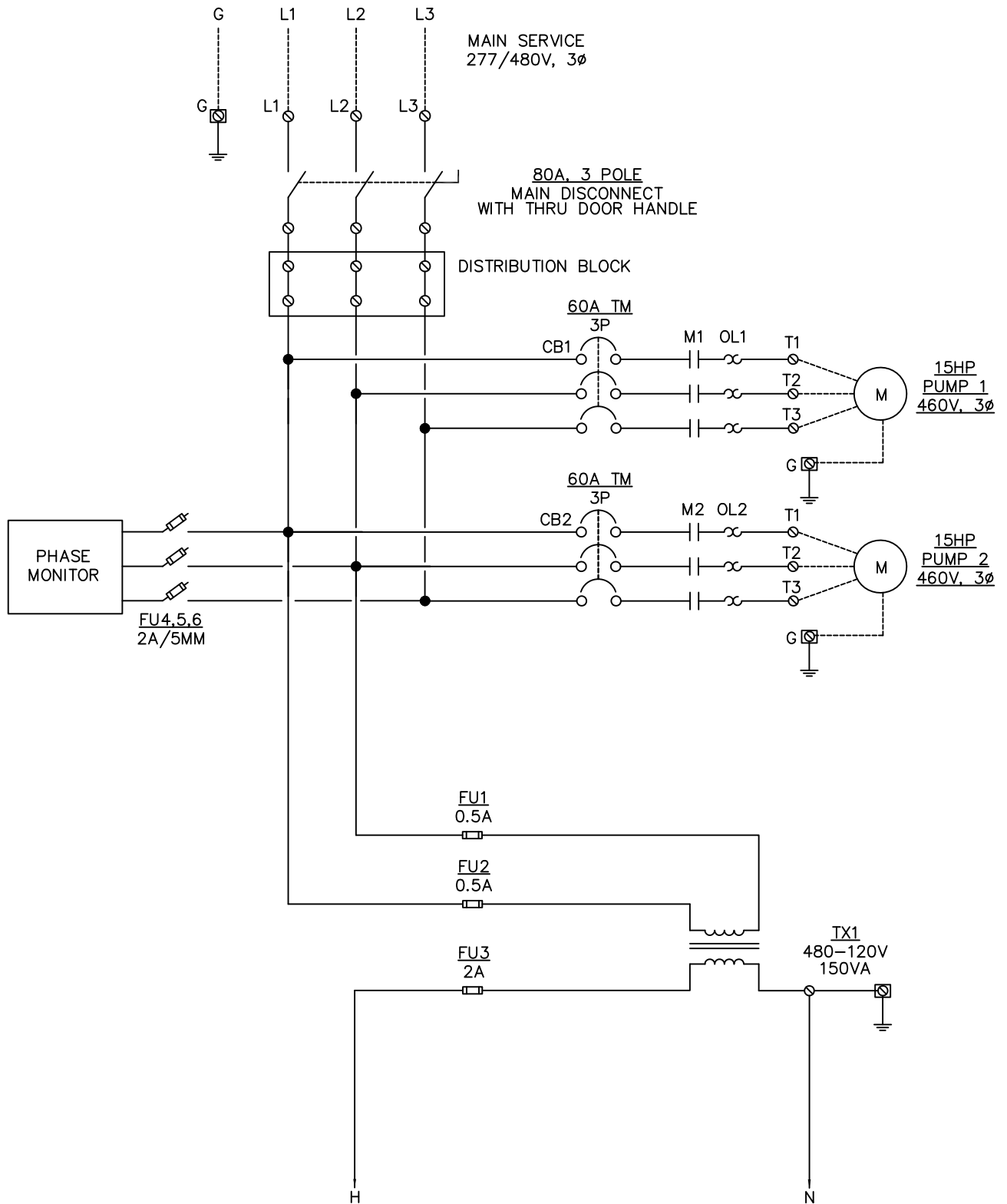
CONTROL VOLTAGE	120V	(120V, Other)
ENCLOSURE	NEMA 3R	(NEMA 1, NEMA 3R, NEMA 4, NEMA 4X)
ENCLOSURE MATERIAL	Stainless Steel	(Painted Steel, Stainless Steel, Fiberglass)
CONTROL SENSOR	Floats	(Floats, Bubbler, Other)
CAPACITORS	No	(Yes, No)
CAPACITOR WIRING FIGURE	N/A	
THERM. & SEAL FAIL WIRING FIGURE		

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	X	
ALARM LIGHT	X	
LIGHT PANEL MTD	X	
LIGHT REMOTE MTD		
LIGHT FLASHER		
LIGHTNING ARRESTER		
ELAPSED TIME METER	X	
PHASE MONITOR	X	
NEMA RATED STARTERS	X ABB	
GROUND FAULT RECPT.		
GREEN RUN LIGHTS VS. RED		
POLE, BOX, SEAL		
INTRINSICALLY SAFE RELAYS		
HIGH TEMP. LOCKOUT, MANUAL RESET		
ECONOMY VERSION		
U.L. LISTING		

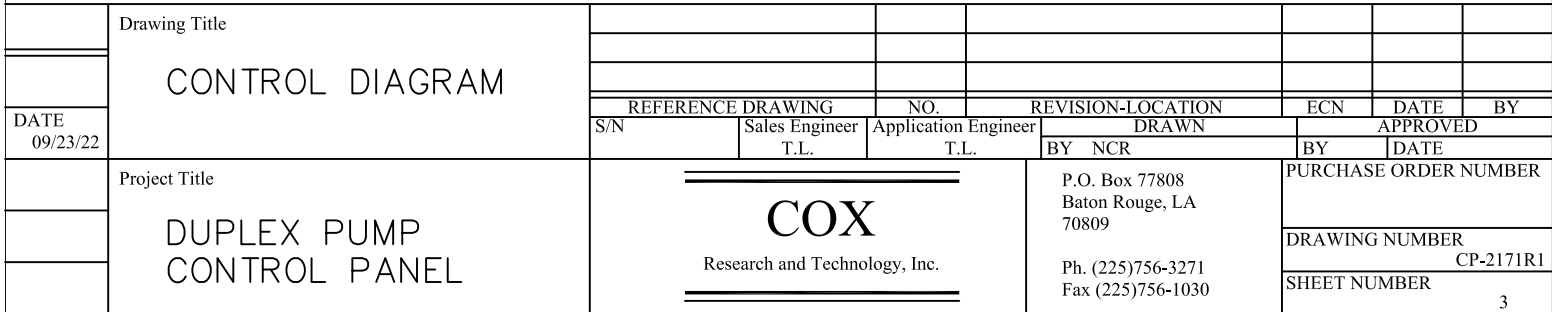
SOLD TO: PENTAIR WATER - ASHLAND, OHIO
TAG : _____

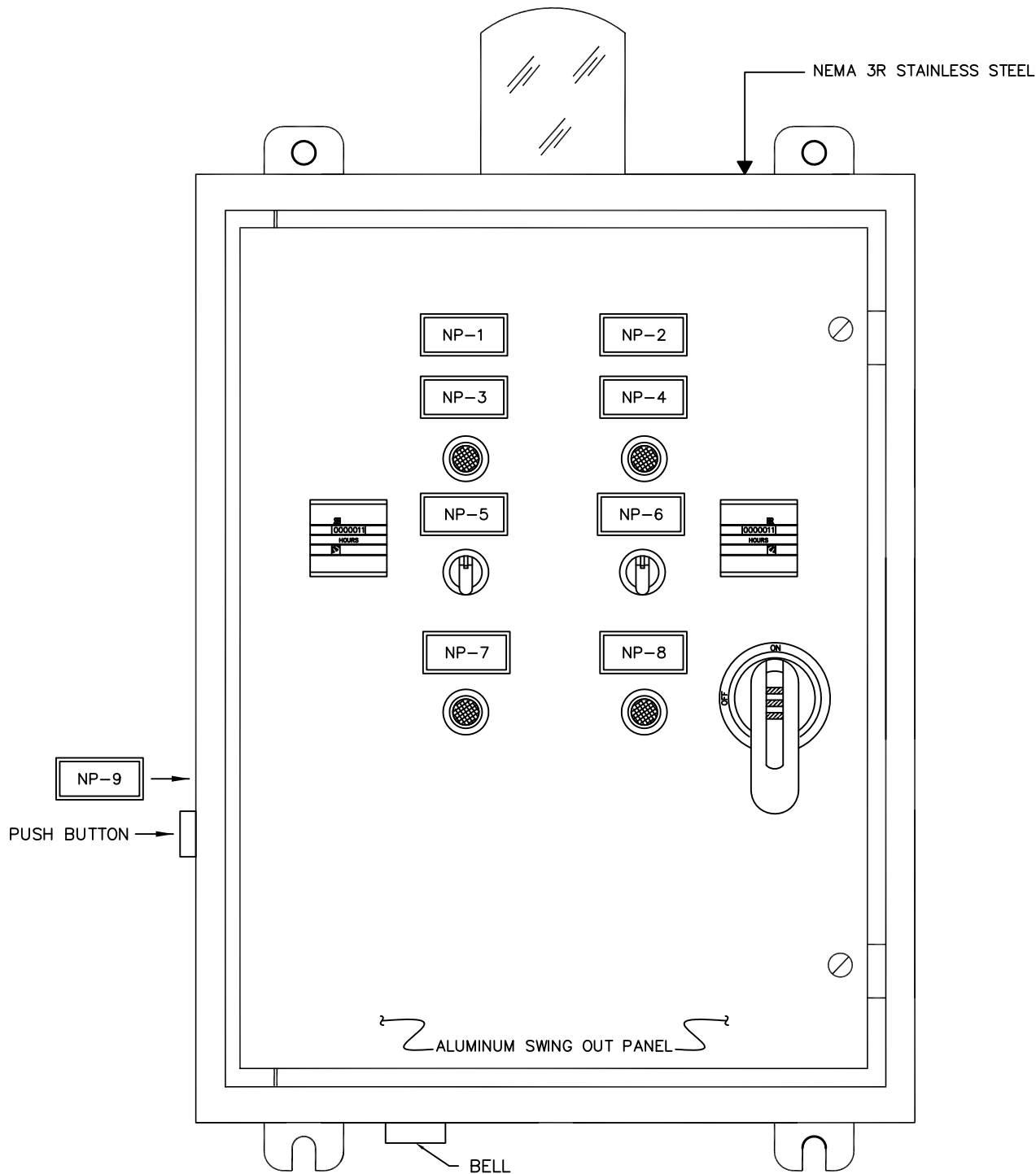
SHIP TO: PENTAIR WATER - DENHAM SPRINGS, LA

	Drawing Title						
	PANEL DESCRIPTION						
DATE 09/23/22		REFERENCE DRAWING S/N	NO. Sales Engineer T.L.	REVISION-LOCATION Application Engineer T.L.	DRAWN BY NCR	ECN	DATE
	Project Title	<div>COX</div> <div>Research and Technology, Inc.</div>			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-2171R1		
					SHEET NUMBER 1		



	Drawing Title							
	POWER DIAGRAM							
DATE 09/23/22		REFERENCE DRAWING S/N	NO. Sales Engineer T.L.	REVISION-LOCATION Application Engineer T.L.	DRAWN BY NCR	ECN	DATE	BY
	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)756-1030	DRAWING NUMBER CP-2171R1		
						SHEET NUMBER 2		





VIEW OF SWING OUT PANEL

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	SILENCE

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		REFERENCE DRAWING	NO.	REVISION-LOCATION	ECN	DATE	BY
DATE 09/23/22			S/N	Sales Engineer T.L.	Application Engineer T.L.	BY	NCR	APPROVED 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)756-1030		PURCHASE ORDER NUMBER DRAWING NUMBER CP-2171R1 SHEET NUMBER 4

BILL OF MATERIALS

ITEM	QTY	MANUFACTURER	PART NO.	DESCRIPTION
1	1	C&I	C-S242010REPL	ENCLOSURE
1a	1	C&I	CI-2420A	BACKPLATE
1b	1	C&I	CI-2420SPA	DEAD FRONT
2	1	ABB	OT63E3	MAIN DISC. SWITCH
3	2	ABB	A50N2-30-11-84	MOTOR STARTER
4	2	ABB	TA75DU32	O.L. RELAY (22-32A)
5	2	ABB	T1N060TW	CB1, CB2
6	1	TIMEMARK	261DT120	ALTERNATING RELAY
7	2	ALLEN BRADLEY	800H-QR10R	RED PILOT LIGHT
8	2	ALLEN BRADLEY	800H-JR2A	HOA SWITCH
9	1	ABB	T4150PSF1	TRANSFORMER
10	1	AC/DC	BL5-120-R	ALARM LIGHT
11	2	REDINGTON	711-0190	ELAPSED TIME METER
12	2	MACROMATIC	LCP2D100	SEAL FAIL RELAY
13	1	MARATHON	1323580	DISTRIBUTION BLOCK
14	1	IDEC	RU4AS110	CR1
15	1	SSAC	PLMU11	PHASE MONITOR
16	1	ABB	EXP5X265	SHAFT
17	1	ABB	OHB65J5	HANDLE
18	2	ALLEN BRADLEY	800H-QR10G	GREEN PILOT LIGHT
19				
20				
21				
22				
23				
24				

	Drawing Title								
	BILL OF MATERIALS								
DATE 09/23/22		REFERENCE DRAWING S/N	NO. Sales Engineer T.L.	REVISION-LOCATION Application Engineer T.L.	DRAWN	ECN	DATE	BY	
	Project Title					BY NCR	BY	DATE	PURCHASE ORDER NUMBER
	DUPLEX PUMP CONTROL PANEL	<div style="text-align:center;">COX Research and Technology, Inc.</div>				P.O. Box 77808 Baton Rouge, LA 70809	DRAWING NUMBER CP-2171R1		
						Ph. (225)756-3271 Fax (225)756-1030	SHEET NUMBER 5		

