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# COX

Research and Technology, Inc.

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## DUPLEX BLOWER CONTROL PANEL WARREN DAVIE

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

CP-2146

VOLTAGE	120/240V	(480V, 277/480V, 240V, 120/240V, 208V, 120/208V)
PHASE/HZ	1/60	
NO. MOTORS	2	
HP	5	
FLA	28	
TYPE OF PUMP	Blower	(Self-Priming, Submersible)
MANUFACTURER		
CATALOG NUMBER		
CONTROL VOLTAGE	120V	(120V, Other)
ENCLOSURE	NEMA 4X	(NEMA 1, NEMA 3R, NEMA 4, NEMA 4X)
ENCLOSURE MATERIAL	Fiberglass	(Painted Steel, Stainless Steel, Fiberglass)
CONTROL SENSOR		(Floats, Bubbler, Other)
CAPACITORS		(Yes, No)
CAPACITOR WIRING FIGURE		
THERM. & SEAL FAIL WIRING FIGURE		

OPTIONS:

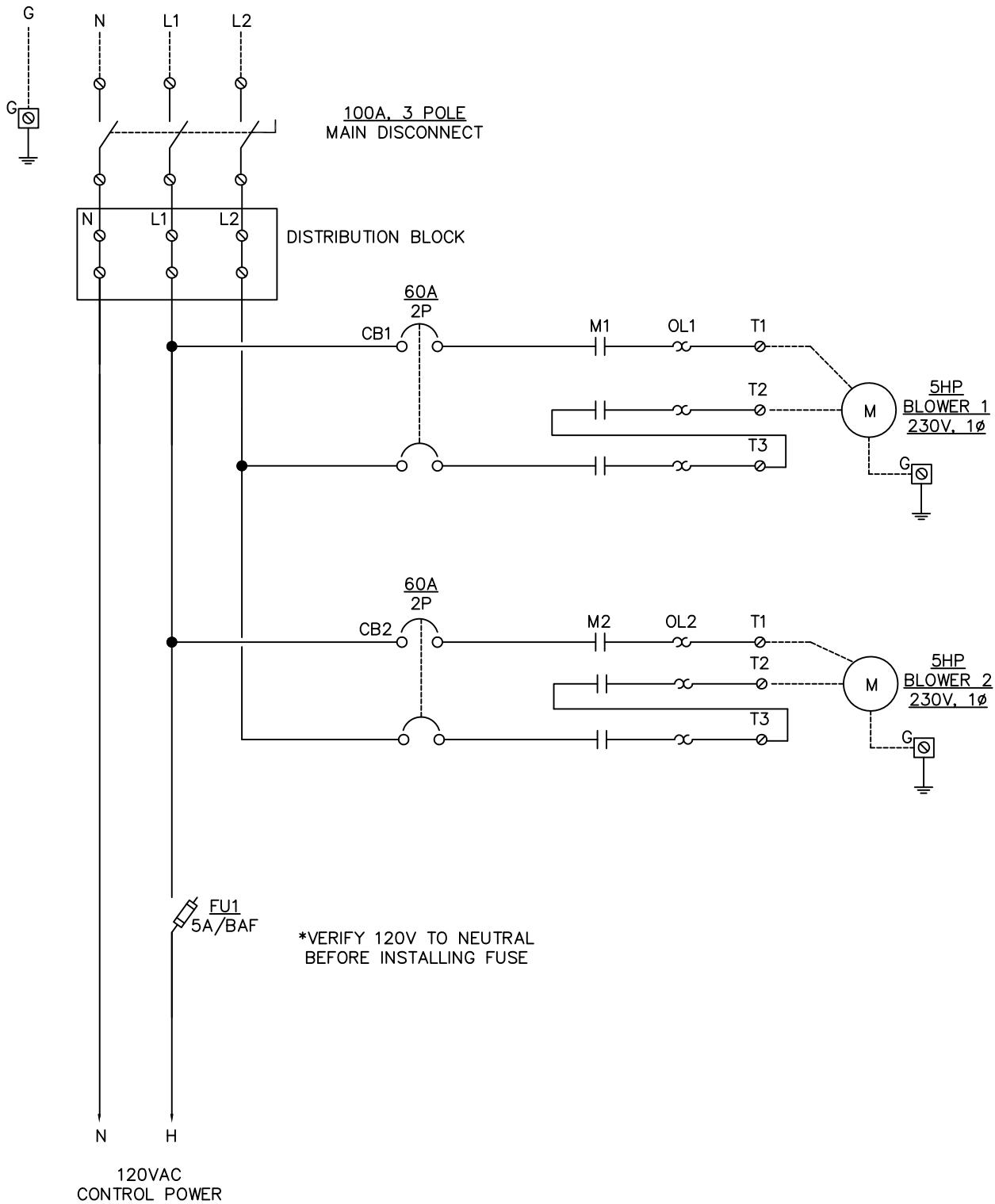
SEAL FAIL LIGHTS	_____	(Submersible Only)
SEAL FAIL RELAYS	_____	(Submersible Only)
SEAL FAIL PUMP SHUTDOWN	_____	(Submersible Only)
HT PUMP SHUTDOWN	_____	(Self-Primer, Submersible)
ALARM HORN	_____	
ALARM LIGHT	_____	
LIGHT PANEL MTD	_____	
LIGHT REMOTE MTD	_____	
LIGHT FLASHER	_____	
LIGHTNING ARRESTER	_____	
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, Inc. -New Orleans, LA  
TAG : Warren Davie

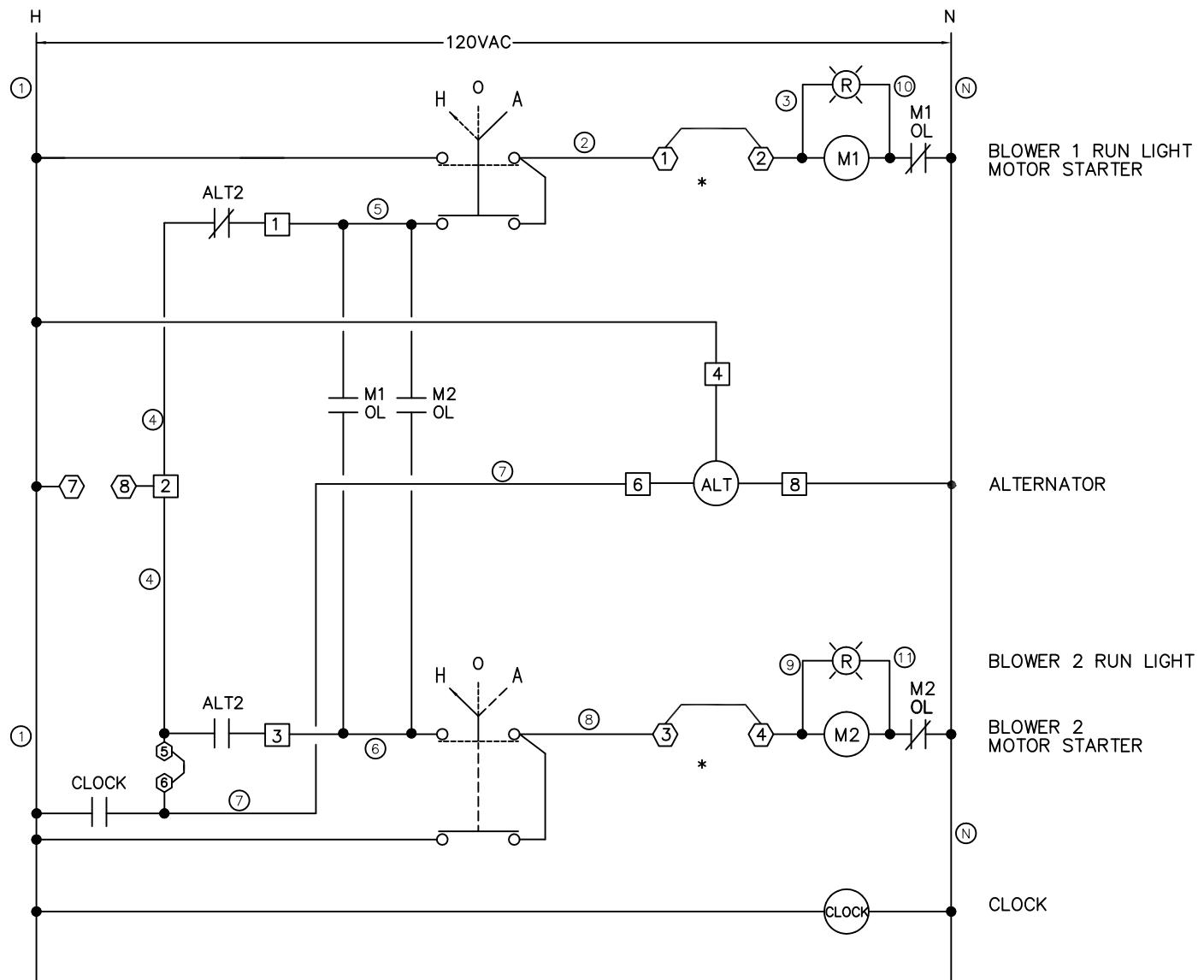
SHIP TO: Delta Process, Inc. - Denham Springs, LA

	Drawing Title  PANEL DESCRIPTION								
		REFERENCE DRAWING S/N	NO. C.C.	REVISION-LOCATION DRAWN BY C. RACHAL	ECN	DATE	BY		
DATE 8/10/05	Project Title  DUPLEX BLOWER CONTROL PANEL	<u>COX</u> Research and Technology, Inc.		P.O. Box 77808 Baton Rouge, LA 70809		PURCHASE ORDER NUMBER DRAWING NUMBER CP-2146 SHEET NUMBER 1			
					Ph. (225)756-3271 Fax (225)755-1030				

MAIN SERVICE  
120/240V, 1Ø



	Drawing Title  <b>POWER DIAGRAM</b>				
		REFERENCE DRAWING S/N	NO. Sales Engineer C.C.	REVISION-LOCATION DRAWN BY C. RACHAL	ECN APPROVED BY DATE
DATE 8/10/05		Application Engineer R.C.			
	Project Title  <b>DUPLEX BLOWER 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-2146 SHEET NUMBER 2

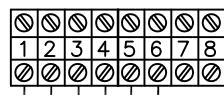
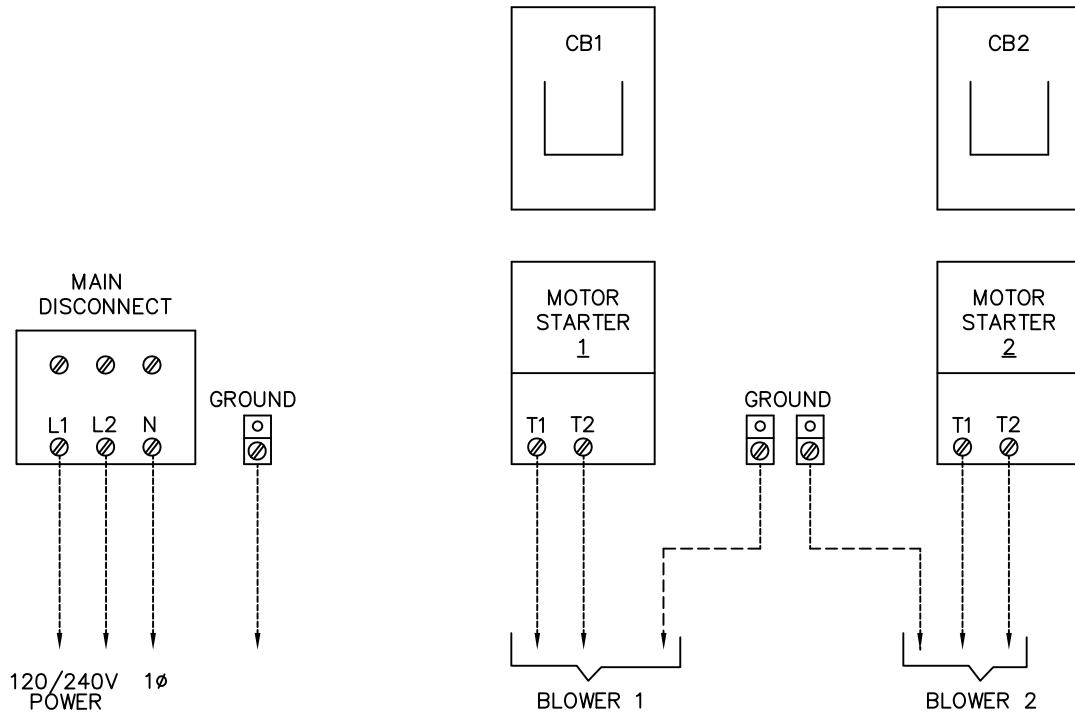


PANEL IS DESIGNED TO RUN BLOWERS WITH A MINIMUM OF 15 MINUTES OF OFF TIME BETWEEN ALTERNATION. PINS PUSHED OUT ON CLOCK INDICATE RUN TIME. PINS PUSHED IN INDICATE OFF TIME. EACH PIN IS EQUAL TO 15 MINUTES.

IF NO OFF TIME IS REQUIRED BETWEEN ALTERNATION, REMOVE JUMPER FROM TERMINALS ⑤ AND ⑥. PLACE JUMPER ACROSS TERMINALS ⑦ AND ⑧. NOW BLOWERS WILL RUN CONTINUOUSLY. SET 1 PIN IN AT THE TIME YOU WISH THE BLOWERS TO ALTERNATE. ALL REMAINING PINS SHOULD BE PUSHED OUT.

\* REMOVE JUMPERS AND INSTALL LOCKOUT DEVICES IF REQUIRED

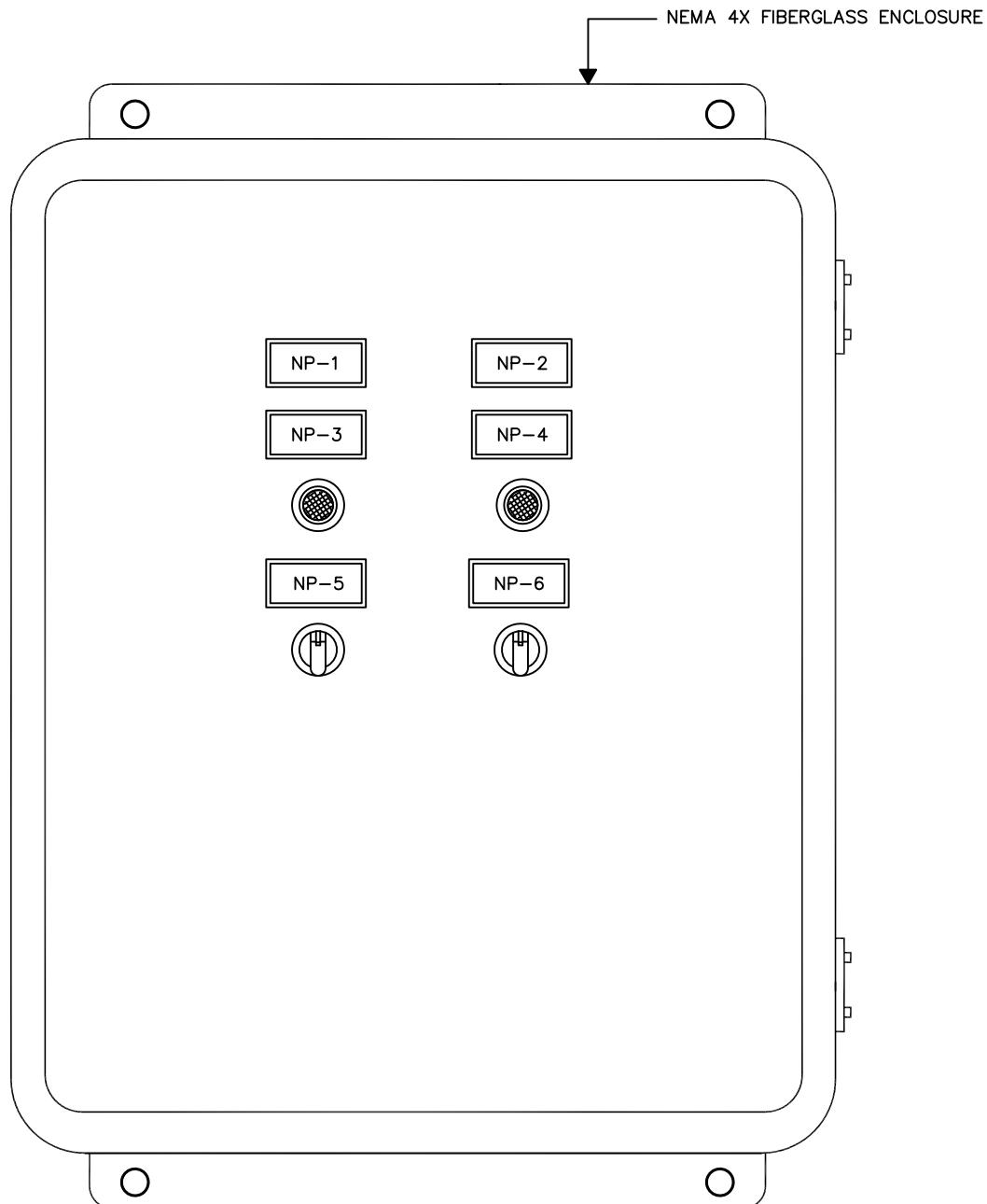
	Drawing Title <b>CONTROL DIAGRAM</b>					
DATE 8/10/05	REFERENCE DRAWING S/N	NO. Sales Engineer C.C.	REVISION-LOCATION DRAWN Application Engineer R.C.	ECN	DATE	BY
			BY C. RACHAL		APPROVED	
	Project Title <b>DUPLEX BLOWER CONTROL PANEL</b>		<b>COX</b> Research and Technology, Inc.	P.O. Box 77808 Baton Rouge, LA 70809 Ph. (225)756-3271 Fax (225)755-1030	PURCHASE ORDER NUMBER DRAWING NUMBER CP-2146 SHEET NUMBER 3	



REMOVE JUMPERS & INSTALL  
LOCKOUT DEVICES IF REQUIRED

IF NO OFF TIME IS REQUIRED BETWEEN  
ALTERNATION, REMOVE JUMPER FROM  
TERMINALS ⑤ AND ⑥. PLACE JUMPER ACROSS  
TERMINALS ⑦ AND ⑧. NOW BLOWERS WILL RUN  
CONTINUOUSLY. SET 1 PIN IN AT THE TIME YOU  
WISH THE BLOWERS TO ALTERNATE.  
ALL REMAINING PINS SHOULD BE PUSHED OUT.

	Drawing Title					
	EXTERNAL CONNECTIONS					
DATE 8/10/05	REFERENCE DRAWING S/N	NO. Sales Engineer C.C.	REVISION-LOCATION Application Engineer R.C.	ECN DRAWN BY C. RACHAL	DATE APPROVED BY DATE	BY
	Project Title DUPLEX BLOWER CONTROL PANEL	<b>COX</b> Research and Technology, Inc.			PURCHASE ORDER NUMBER P.O. Box 77808 Baton Rouge, LA 70809 DRAWING NUMBER CP-2146 SHEET NUMBER 4	



VIEW OF FRONT OF ENCLOSURE

## NAMEPLATE SCHEDULE

NP-1	BLOWER	1
NP-2	BLOWER	2
NP-3	RUN	
NP-4	RUN	
NP-5	HOA	
NP-6	HOA	

**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						
DATE 8/10/05							
	REFERENCE DRAWING		NO.	REVISION-LOCATION		ECN	DATE
	S/N	Sales Engineer C.C.	Application Engineer R.C.	DRAWN BY C. RACHAL		APPROVED	
						BY	DATE
	Project Title		<hr/> <b>COX</b> <hr/> Research and Technology, Inc. <hr/>		P.O. Box 77808 Baton Rouge, LA 70809	PURCHASE ORDER NUMBER	
	DUPLEX BLOWER CONTROL PANEL				Ph. (225)756-3271 Fax (225)755-1030	DRAWING NUMBER CP-2146	
						SHEET NUMBER 5	

## BILL OF MATERIAL

ITEM	QTY	MANUFACTURER	PART NO.	DESCRIPTION
1	1	STAHLIN	RJ1614HPL	ENCLOSURE
2	1	STAHLIN	BP1614AL	BACKPLATE
3	2	ABB	A30-30-10-84	STARTER
4	2	ABB	TA25DU32	O.L. (24-32A)
5	2	SQUARE D	QOU260	CIRCUIT BREAKER 1,2
6	1	MARATHON	1323580	DISTRIBUTION BLOCK
7	2	ACI	JR22P3M20B	H.O.A. SWITCH
8	2	ACI	JR22FR	RED PILOT LIGHTS
9	1	TIMEMARK	261DT120	ALTERNATING RELAY
10	1	GRASSLIN	FM1/STUZL	TIMER
11	1	ABB	OT100E3	MAIN DISCONNECT
12				

	Drawing Title								
	BILL OF MATERIALS								
			REFERENCE DRAWING		NO.	REVISION-LOCATION	ECN	DATE	BY
			S/N	Sales Engineer	Application Engineer	DRAWN	APPROVED		
DATE 8/10/05				C.C.	R.C.	BY C. RACHAL	BY	DATE	
	Project Title		COX		P.O. Box 77808 Baton Rouge, LA 70809  Ph. (225)756-3271 Fax (225)755-1030		PURCHASE ORDER NUMBER		
	DUPLEX BLOWER CONTROL PANEL		Research and Technology, Inc.				DRAWING NUMBER		
							CP-2146		
					SHEET NUMBER		6		