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# COX

Research and Technology, Inc.

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## DUPLEX PUMP CONTROL PANEL SUMMIT SUPPLY

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

CP-2077

|                                  |             |  |
|----------------------------------|-------------|--|
| VOLTAGE                          | 120/208V    | (480V, 277/480V, 240V, 120/240V, 208V, 120/208V) |
| PHASE/HZ                         | 1/60        |  |
| NO. MOTORS                       | 2           |  |
| HP                               | 2           |  |
| FLA                              | 17          |  |
| TYPE OF PUMP                     | Submersible | (Self-Priming, Submersible)                      |
| MANUFACTURER                     | Barnes      |  |
| CATALOG NUMBER                   | SGVF2002L   |  |
| 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      | (Floats, Bubbler, Other)                         |
| CAPACITORS                       | Yes         | (Yes, No)  |
| CAPACITOR WIRING FIGURE          |             |  |
| THERM. & SEAL FAIL WIRING FIGURE |             |  |

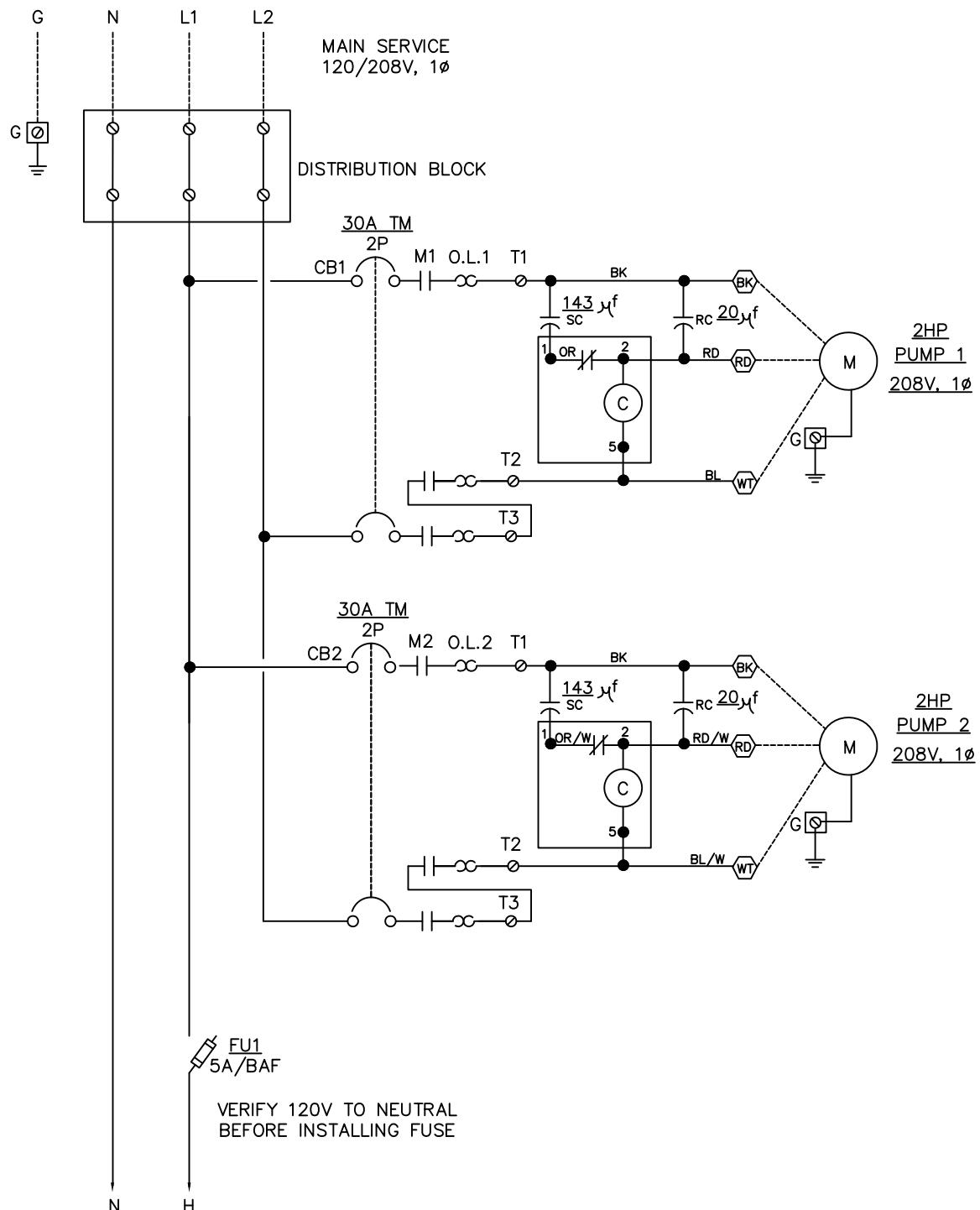
OPTIONS:

|                                  |   |                            |
|----------------------------------|---|----------------------------|
| 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                      | X |                            |
| LIGHT PANEL MTD                  | X |                            |
| 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                  | X |                            |

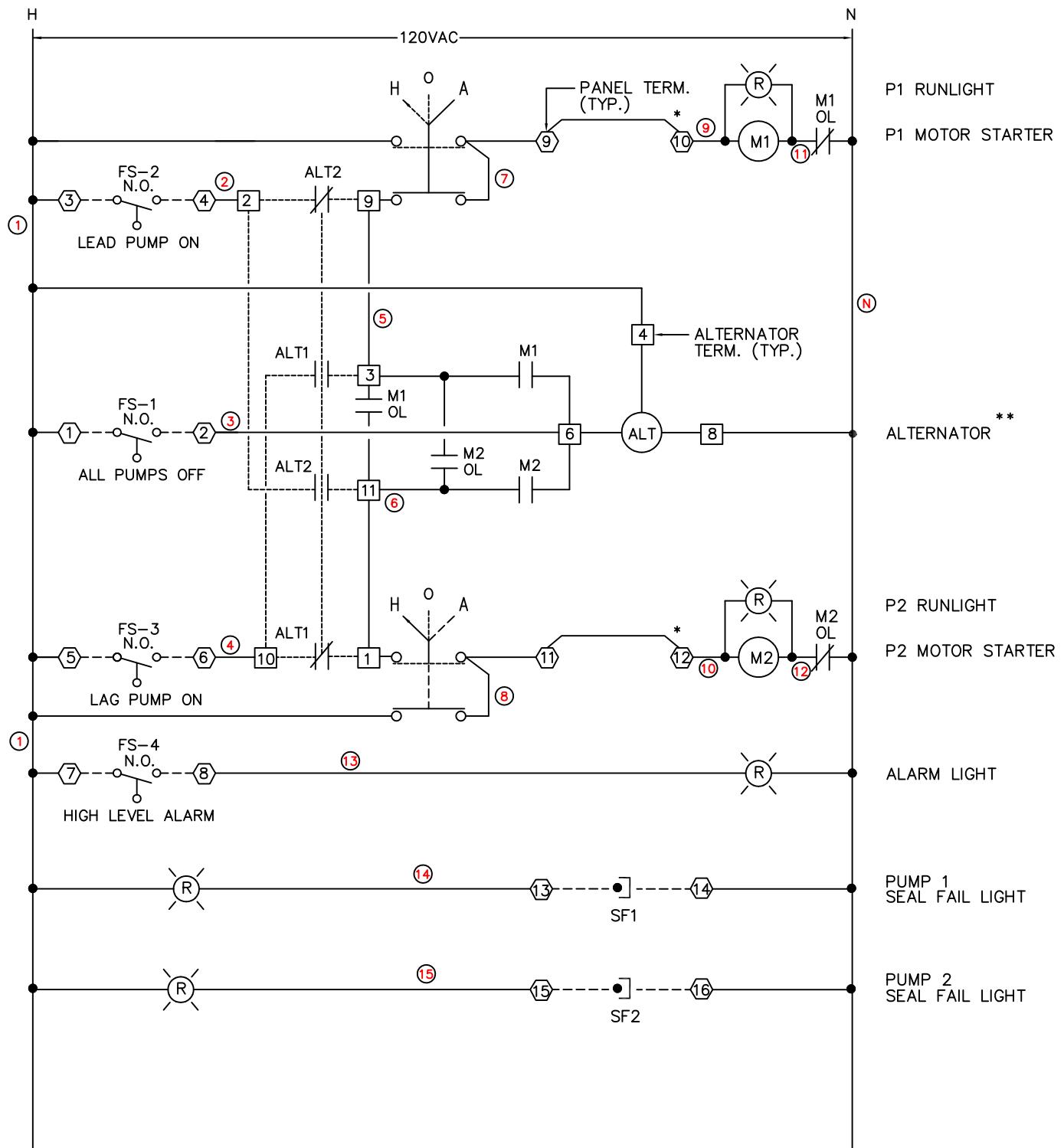
SOLD TO: Delta Process - Ruston, LA  
TAG : Summit Supply

SHIP TO: Delta Process - Ruston, LA

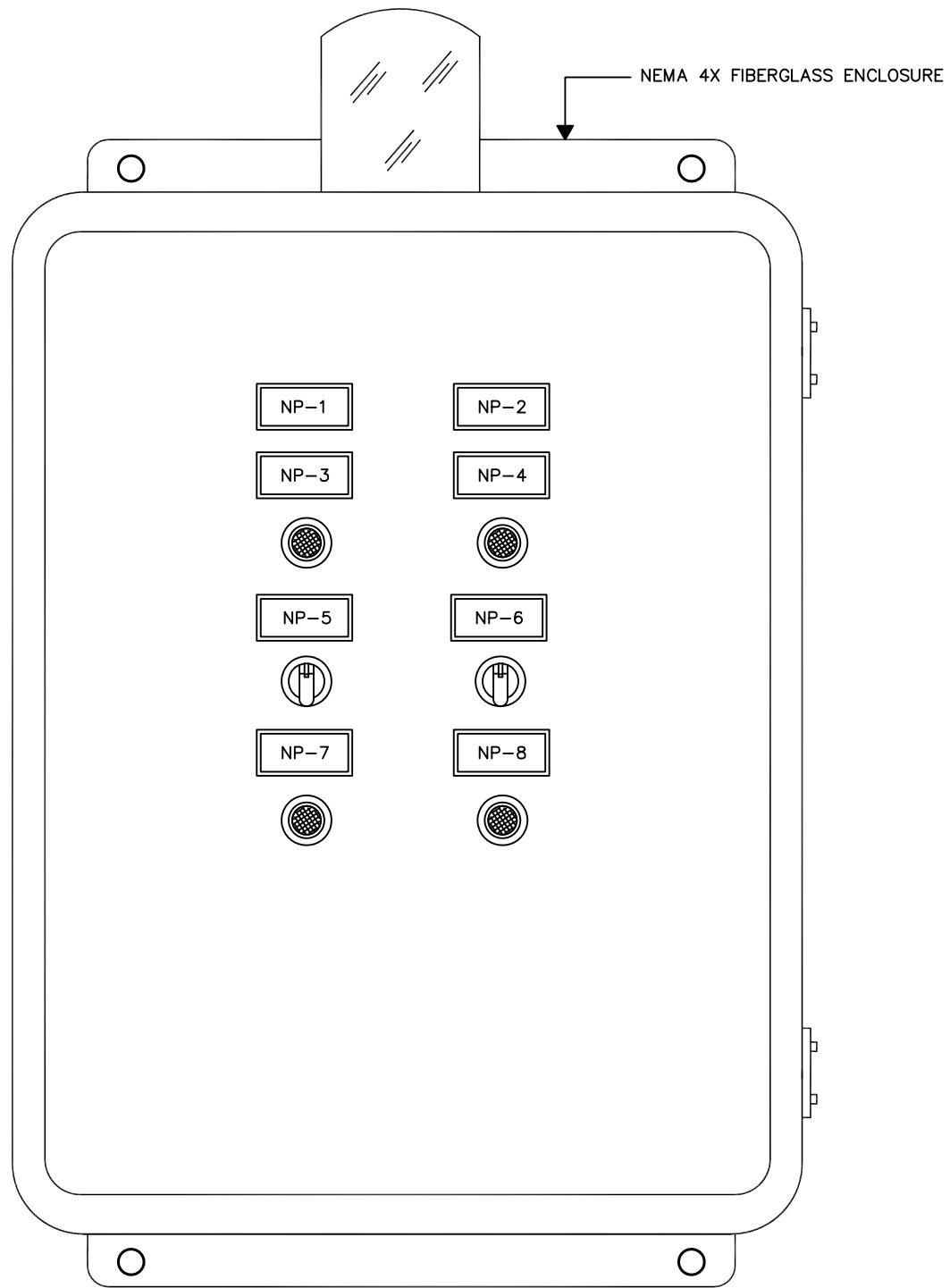
|                              |   |                |                      |                   |                        |     |      |    |
|------------------------------|---|----------------|----------------------|-------------------|------------------------|-----|------|----|
| Drawing Title                |   |                |                      |                   |                        |     |      |    |
|                              |   |                |                      |                   |                        |     |      |    |
| PANEL DESCRIPTION            |   |                |                      |                   |                        |     |      |    |
|                              | REFERENCE DRAWING   |                | NO.                  | REVISION-LOCATION |                        | ECN | DATE | BY |
|                              | S/N   | Sales Engineer | Application Engineer | DRAWN             | APPROVED               |     |      |    |
|                              | C.C.  | R.C.           | BY C. RACHAL         | BY                | DATE                   |     |      |    |
| Project Title                | <hr/> <hr/> COX <hr/> <hr/> Research and Technology, Inc. <hr/> <hr/> |                |                      |                   | PURCHASE ORDER NUMBER  |     |      |    |
| DUPLEX PUMP<br>CONTROL PANEL |   |                |                      |                   |                        |     |      |    |
|                              |   |                |                      |                   | DRAWING NUMBER CP-2077 |     |      |    |
|                              |   |                |                      |                   | SHEET NUMBER 1         |     |      |    |



|                              |                                      |                               |  |                              |                        |    |
|------------------------------|--------------------------------------|-------------------------------|--|------------------------------|------------------------|----|
|                              | Drawing Title                        |                               |  |                              |                        |    |
|                              | POWER DIAGRAM                        |                               |  |                              |                        |    |
| DATE<br>5/13/05              | REFERENCE DRAWING<br>S/N             | NO.<br>Sales Engineer<br>C.C. | REVISION-LOCATION<br>Application Engineer<br>R.C.                                    | ECN<br>DRAWN<br>BY C. RACHAL | DATE<br>APPROVED<br>BY | BY |
| Project Title                |                                      |                               |  |                              |                        |    |
| DUPLEX PUMP<br>CONTROL PANEL | COX<br>Research and Technology, Inc. |                               | P.O. Box 77808<br>Baton Rouge, LA<br>70809<br>Ph. (225)756-3271<br>Fax (225)755-1030 | PURCHASE ORDER NUMBER        |                        |    |
|                              |                                      |                               |  | DRAWING NUMBER<br>CP-2077    |                        |    |
|                              |                                      |                               |  | SHEET NUMBER<br>2            |                        |    |



|   |   |                               |   |  |                           |    |
|---|---|-------------------------------|---|--|---------------------------|----|
| Drawing Title<br><br>CONTROL DIAGRAM              |   |                               |   |  |                           |    |
|   | REFERENCE DRAWING<br>S/N                    | NO.<br>Sales Engineer<br>C.C. | REVISION-LOCATION<br>Application Engineer<br>R.C. | ECN<br>DRAWN<br>BY C. RACHAL               | DATE<br>APPROVED<br>BY    | BY |
| DATE<br>5/13/05                                   |   |                               |   |  |                           |    |
| Project Title<br><br>DUPLEX PUMP<br>CONTROL PANEL | <b>COX</b><br>Research and Technology, Inc. |                               |   | P.O. Box 77808<br>Baton Rouge, LA<br>70809 | PURCHASE ORDER NUMBER     |    |
|   |   |                               |   | Ph. (225)756-3271<br>Fax (225)755-1030     | DRAWING NUMBER<br>CP-2077 |    |
|   |   |                               |   |  | SHEET NUMBER<br>3         |    |



VIEW OF FRONT OF 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 |

NOTE:

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

|   |   |  |  |                              |
|---|---|--|--|------------------------------|
| Drawing Title<br><br><b>ENCLOSURE</b>                     |   |  |  |                              |
|   | REFERENCE DRAWING<br>S/N                    | NO.<br>Sales Engineer<br>C.C.              | REVISION-LOCATION<br>Application Engineer<br>R.C.      | ECN<br>DRAWN<br>BY C. RACHAL |
| DATE<br>5/13/05   |   |  |  | DATE<br>APPROVED<br>BY       |
| Project Title<br><br><b>DUPLEX PUMP<br/>CONTROL PANEL</b> | <b>COX</b><br>Research and Technology, Inc. | P.O. Box 77808<br>Baton Rouge, LA<br>70809 | PURCHASE ORDER NUMBER<br><br>DRAWING NUMBER<br>CP-2077 |                              |
|   |   | Ph. (225)756-3271<br>Fax (225)755-1030     | SHEET NUMBER<br>4                                      |                              |

# BILL OF MATERIALS

| ITEM | QTY | MANUFACTURER | PART NO.     | DESCRIPTION                |
|------|-----|--------------|--------------|----------------------------|
| 1    | 1   | STAHLIN      | RJ1614HWPL   | ENCLOSURE                  |
| 1a   | 1   | STAHLIN      | BP1614AL     | BACKPLATE                  |
| 2    | 1   | MARATHON     | 1323580      | DISTRIBUTION BLOCK         |
| 3    | 2   | ABB          | A26-30-10-84 | MOTOR STARTER              |
| 4    | 2   | ABB          | TA25DU19     | O.L. RELAY (13-19A)        |
| 5    | 2   | SQUARE D     | QOU230       | CB1, CB2                   |
| 6    | 1   | DIVERSIFIED  | ARB-120-ADA  | ALTERNATING RELAY          |
| 7    | 4   | ACI          | JR22FR       | RED PILOT LIGHT            |
| 8    | 2   | ACI          | JR22P3M20B   | HOA SWITCH                 |
| 9    | 1   | INGRAM       | MX-15        | ALARM LIGHT                |
| 10   | 2   | CGE          | 4CU54        | START CAPACITOR $143\mu F$ |
| 11   | 2   | GE           | 6X660        | RUN CAPACITOR $20\mu F$    |
| 12   | 2   | GE           | 6X559        | START RELAY                |
| 13   |     |              |              |                            |
| 14   |     |              |              |                            |
| 15   |     |              |              |                            |
| 16   |     |              |              |                            |
| 17   |     |              |              |                            |
| 18   |     |              |              |                            |
| 19   |     |              |              |                            |
| 20   |     |              |              |                            |
| 21   |     |              |              |                            |
| 22   |     |              |              |                            |
| 23   |     |              |              |                            |
| 24   |     |              |              |                            |
| 25   |     |              |              |                            |

|   |  |                |                      |                   |   |      |    |
|---|--|----------------|----------------------|-------------------|---|------|----|
|   | Drawing Title<br><br>BILL OF MATERIALS |                |                      |                   |   |      |    |
|   |  |                |                      |                   |   |      |    |
| DATE<br>5/13/05                                   | REFERENCE DRAWING                      |                | NO.                  | REVISION-LOCATION | ECN   | DATE | BY |
|   | S/N                                    | Sales Engineer | Application Engineer | DRAWN             | APPROVED  |      |    |
|   | C.C.                                   | R.C.           | BY C. RACHAL         | BY                | DATE  |      |    |
| Project Title<br><br>DUPLEX PUMP<br>CONTROL PANEL | COX                                    |                |                      |                   | PURCHASE ORDER NUMBER<br><br>DRAWING NUMBER CP-2077<br><br>SHEET NUMBER 5 |      |    |
|   | Research and Technology, Inc.          |                |                      |                   |   |      |    |
|   |  |                |                      |                   |   |      |    |