
COX

Research and Technology, Inc.

EBARA
DUPLEX PUMP
CONTROL PANEL

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

CP-1967

| | | |
|----------------|-------------|--------------------------------------------------|
| VOLTAGE | 120/240V | (480V, 277/480V, 240V, 120/240V, 208V, 120/208V) |
| PHASE/HZ | 3/60 | |
| NO. MOTORS | 2 | |
| HP | 5 | |
| FLA | 18.7 | |
| TYPE OF PUMP | Submersible | (Self-Priming, Submersible) |
| MANUFACTURER | EBARA | |
| 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 | (Floats, Bubbler, Other) |
| CAPACITORS | N/A | (Yes, No) |
| CAPACITOR WIRING FIGURE | N/A | |
| THERM. & SEAL FAIL WIRING FIGURE | | |

OPTIONS:

| | | |
|----------------------------------|---|----------------------------|
| SEAL FAIL LIGHTS | X | (Submersible Only) |
| SEAL FAIL RELAYS | X | (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 | | |

SOLD TO: Delta Process - Mobile, AL
TAG : EBARA PUMPS

SHIP TO:

| | | | | | | | |
|------------------|------------------------------|---------------------------------------------------------|-------------------------------|---------------------------------------------------|------------------------------------------------------------------------------------------|----------------|-----------------------------------------------------------------------------|
| | Drawing Title | | | | | | |
| | PANEL DESCRIPTION | | | | | | |
| | | | | | | | |
| DATE 12/14/04 | | REFERENCE DRAWING S/N | NO. Sales Engineer C.C. | REVISION-LOCATION Application Engineer R.C. | DRAWN BY C. RACHAL | APPROVED BY | 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)755-1030 | | PURCHASE ORDER NUMBER DRAWING NUMBER CP-1967 SHEET NUMBER 1 |
| | DUPLEX PUMP CONTROL PANEL | | | | | | |

COX

Research and Technology, Inc.

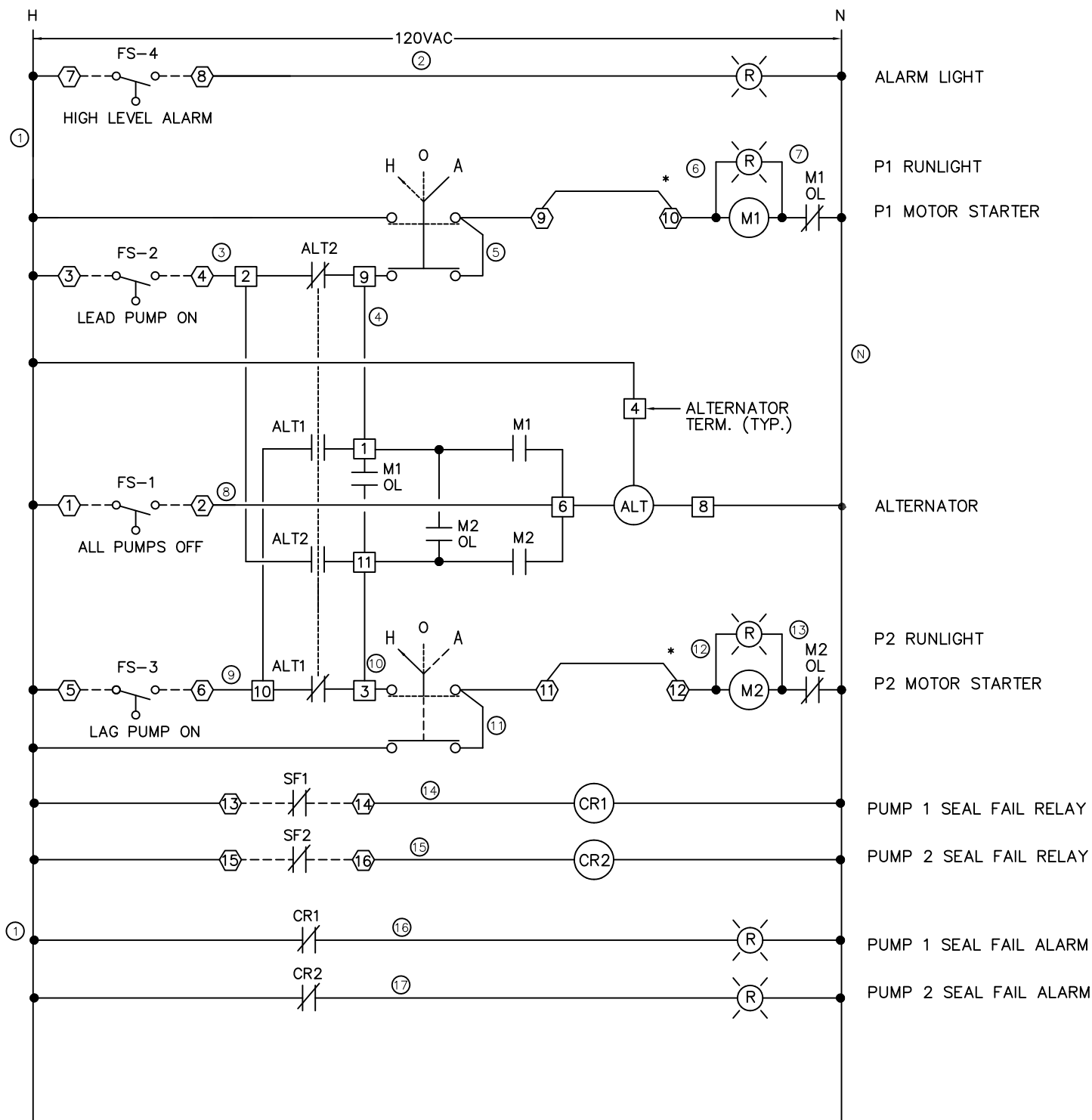
P.O. Box 77808
Baton Rouge, LA
70809

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Fax (225)755-1030

| | |
|-----------------------|------|
| DATE | DATE |
| PURCHASE ORDER NUMBER | |

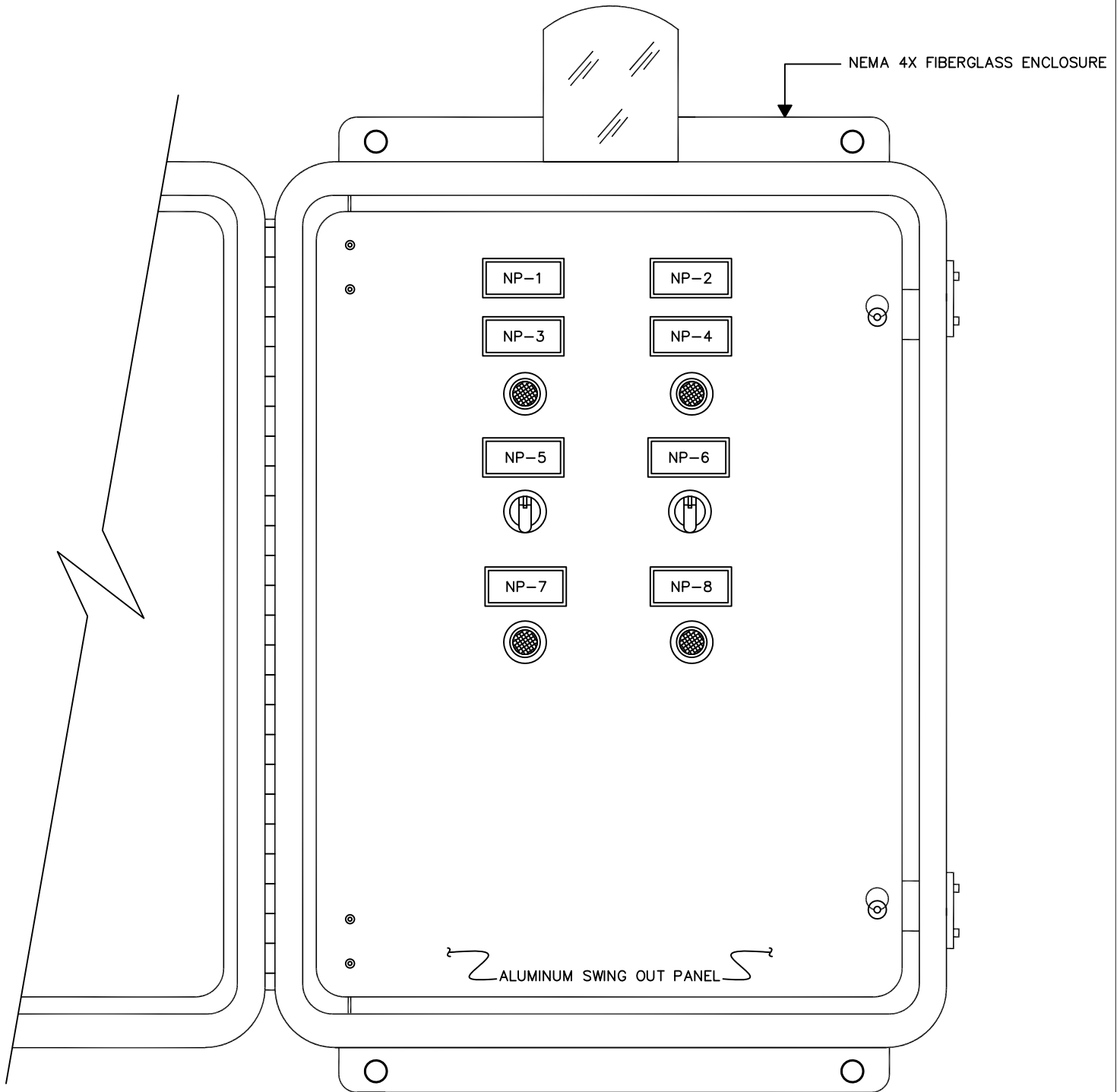
| | |
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| DRAWING NUMBER | CP-1967 |
|----------------|---------|

| | |
|--------------|---|
| SHEET NUMBER | 2 |
|--------------|---|



* REMOVE JUMPERS AND INSTALL LOCKOUT DEVICES IF REQUIRED

| | | | | | | |
|------------------|-----------------|----------------------------------------------------------------------|------------------------|------------------------------|--------------|-------------------------------------------------------------------------------------------------------------------------|
| Drawing Title | CONTROL DIAGRAM | | | | | |
| DATE 12/14/04 | Project Title | <div> <div>COX</div> <div>Research and Technology, Inc.</div> </div> | | | | <div> <div>P.O. Box 77808 Baton Rouge, LA 70809</div> <div>Ph. (225)756-3271 Fax (225)755-1030</div> </div> |
| | | REFERENCE DRAWING | NO. | REVISION-LOCATION | ECN | DATE |
| | | S/N | Sales Engineer C.C. | Application Engineer R.C. | BY C. RACHAL | APPROVED |
| | | | | | BY | DATE |
| | | | | | | PURCHASE ORDER NUMBER |
| | | | | | | DRAWING NUMBER CP-1967 |
| | | | | | | SHEET NUMBER 3 |



VIEW OF SWING OUT PANEL

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

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 |

| | | | | | | | | |
|------------------|-------------------------------------------|---------------------------------------------------------|------------------------|------------------------------|---------------------------------------------------------------------------------------|--|---------------------------|------|
| | Drawing Title <div>ENCLOSURE</div> | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| DATE 12/14/04 | | | 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 | <div>COX</div> <div>Research and Technology, Inc.</div> | | | P.O. Box 77808 Baton Rouge, LA 70809 Ph. (225)756-3271 Fax (225)755-1030 | | PURCHASE ORDER NUMBER | |
| | DUPLEX PUMP CONTROL PANEL | | | | | | DRAWING NUMBER CP-1967 | |
| | | | | | | | SHEET NUMBER | |
| | | | | | | | 4 | |

BILL OF MATERIALS

| ITEM | QTY | MANUFACTURER | PART NO. | DESCRIPTION |
|------|-----|--------------|--------------|--------------------|
| 1 | 1 | STAHLIN | RJ1816HPLDF | ENCLOSURE |
| 1a | 1 | STAHLIN | BP1816AL | BACKPLATE |
| 2 | 2 | IDEC | RU2SA110 | CR1,2 |
| 3 | 2 | ABB | A26-30-10-84 | MOTOR STARTER |
| 4 | 2 | ABB | TA25DU25 | O.L. (18-25A) |
| 5 | 2 | SQUARE D | QOU340 | CB1, CB2 |
| 6 | 1 | TIMEMARK | 261DT120 | ALTERNATING RELAY |
| 7 | 4 | ACI | JR22FR | RED PILOT LIGHT |
| 8 | 2 | ACI | JR22P3M20B | HOA SWITCH |
| 9 | 1 | AC/DC | BL5-R-120 | ALARM LIGHT |
| 10 | 1 | MARATHON | 1323580 | DISTRIBUTION BLOCK |
| 11 | | | | |
| 12 | | | | |
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|------------------|-----------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|------------------------------|------------------------------------------------------------------------------------------|----------------|------------------------------------------------------------------------------------------------------------------------------------------------------|
| | Drawing Title | | | | | | |
| | <h2 style="margin: 0;">BILL OF MATERIALS</h2> | | | | | | |
| DATE 12/14/04 | | REFERENCE DRAWING | NO. | REVISION-LOCATION | ECN | DATE | BY |
| | | S/N | Sales Engineer C.C. | Application Engineer R.C. | DRAWN BY C. RACHAL | APPROVED BY | DATE |
| | Project Title | <div style="border-top: 3px double black; border-bottom: 3px double black; padding: 5px;"> <h1 style="margin: 0;">COX</h1> <p style="margin: 0;">Research and Technology, Inc.</p> </div> | | | P.O. Box 77808 Baton Rouge, LA 70809 Ph. (225)756-3271 Fax (225)755-1030 | | PURCHASE ORDER NUMBER DRAWING NUMBER <div style="text-align: right;">CP-1967</div> SHEET NUMBER <div style="text-align: right;">5</div> |
| | DUPLEX PUMP CONTROL PANEL | | | | | | |