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|---|--|---|---|
|  <br>Gachsaran Polymer Industries Company<br>PIDMCO | <b>Gachsaran Polymer Industries Company</b><br><b>HDPE Plant</b><br><br><b>I/O list for Refrigerator Package</b> |   |   |
|   |  |  |  |
| PO No.: GPIC-PT-MA-PO-000-3029  | Document Number: VD-GPIC-MA-3029-3029-0045   | Rev.<br>04  | Page 1 of 9   |

## I/O list for Refrigerator Package

|  |   |
|--|---|
| <b>Code1</b>   | <input type="checkbox"/> <b>No Comment/ Approved</b><br>(Applicable Only for "FOR REVIEW" and "For Approval" Documents)<br>No comment and the document are released for Manufacturing.  |
| <b>Code2</b>   | <input checked="" type="checkbox"/> <b>No Comment/ Approved with Note(s)</b><br>Vendor/Sub-Contractor shall correct, revise and resubmit the document. The document is released for Manufacturing if changes incorporated.  |
| <b>Code3</b>   | <input type="checkbox"/> <b>Commented</b><br>Vendor/Sub-Contractor shall correct, revise and resubmit the document by the date specified. The document shall be revised under the Status of "R: Revised Issue". All corrected documents shall be resubmitted before starting the Manufacturing Process.   |
| <b>Code 4</b>  | <input type="checkbox"/> <b>Not Accepted (Rejected )</b><br>Vendor/Sub-Contractor shall re-work / re-design / re-specify the contents of the document according to the comments / reasons for rejection.<br>All corrected documents shall be resubmitted before starting the manufacturing. Vendor/Sub-Contractor shall not proceed with subsequent works of Material Supply or Manufacturing until receiving Code1/Code2 or No Code from PURCHASER. Vendor/Sub-Contractor shall resubmit the document with the same revision within 6 working days after receiving comments. |
| <b>No code</b>   | <input type="checkbox"/> <b>No Code</b><br>( Applicable Only for "For Information" Documents and "As Built DWGs")<br>Document has been submitted for PURCHASER's Information (FI). Consistency, completeness and correctness of document content is in Vendor/Sub-Contractor's responsibility.  |
| Above checking results by EIED shall in no way relieve Vendor of any liability, obligation and responsibility out of the purchase order and the mutual agreement in writing. |   |
| <br><b>EIED</b> Energy Industries<br>Engineering & Design co.                             | <b>Date:</b> Apr.29, 2026<br><b>Dept.:</b> MA<br><b>Signature:</b> F.Hamooni  |

|             |             |                         |                 |                |                 |
|-------------|-------------|-------------------------|-----------------|----------------|-----------------|
| 04          | 18-Apr-26   | IFR                     | A.M             | F.T            | A.M             |
| 03          | 15-Feb-26   | IFR                     | A.M             | F.T            | A.M             |
| 02          | 4-Jan-26    | IFR                     | A.M             | F.T            | A.M             |
| 01          | 3-Nov-25    | IFR                     | A.M             | F.T            | A.M             |
| 00          | 8-Jul-25    | IFR                     | A.M             | F.T            | A.M             |
| <b>Rev.</b> | <b>DATE</b> | <b>PURPOSE OF ISSUE</b> | <b>PREPARED</b> | <b>CHECKED</b> | <b>APPROVED</b> |





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|---------------------------|-----------|---------------------------|------|-----------|----------|---------------------------------------|-------------------|---------------|-----------|-----------------|-------------|--------------|--------------|------|--------|--------|------|------|---------|------------|------------|
| TAG                       | SERVICE   | PID DWG No.               | TYPE | FROM      | TO       | DESCRIPTION                           | Engineering units | LOCATION      | JB No.    | SIGNAL CATEGORY | SIGNAL      | CONTACT TYPE | POWER SUPPLY | TYPE | SERIAL | IS/NIS | RACK | SLOT | CHANNEL | STATE S'0' | STATE S'1' |
| Card Type: Digital IN/ 16 |           |                           |      |           |          |                                       |                   |               |           |                 |             |              |              |      |        |        |      |      |         |            |            |
| XA-61199                  | Propylene | VD-GPIC-MA-3029-3029-0045 | BOOL | UCP-6104  | PLC      | UPS AC SUPPLY 1 SURGE-PROTECTION OK   |                   | UCP-6104      | UCP-6104  | DI              | 24VDC       | -            | PW400        | H    |        | NIS    | 2    | 2    | 0       | OFF        | ON         |
| XA-61198                  | Propylene | VD-GPIC-MA-3029-3029-0045 | BOOL | UCP-6104  | PLC      | UPS AC SUPPLY 2 SURGE-PROTECTION OK   |                   | UCP-6104      | UCP-6104  | DI              | 24VDC       | -            | PW400        | H    |        | NIS    | 2    | 2    | 4       | OFF        | ON         |
| XA-61190                  | Propylene | VD-GPIC-MA-3029-3029-0015 | BOOL | UCP-6101  | PLC      | LOGIC POWER SUPPLY # 1 OK             |                   | UCP-6101      | UCP-6101  | DI              | 24VDC       | -            | PW400        | H    |        | NIS    | 2    | 2    | 2       | OFF        | ON         |
| XA-61191                  | Propylene | VD-GPIC-MA-3029-3029-0015 | BOOL | UCP-6101  | PLC      | LOGIC POWER SUPPLY # 2 OK             |                   | UCP-6101      | UCP-6101  | DI              | 24VDC       | -            | PW400        | H    |        | NIS    | 2    | 2    | 3       | OFF        | ON         |
| XA-61192                  | Propylene | VD-GPIC-MA-3029-3029-0015 | BOOL | UCP-6101  | PLC      | I/O POWER SUPPLY # 1 OK               |                   | UCP-6101      | UCP-6101  | DI              | 24VDC       | -            | PW400        | H    |        | NIS    | 2    | 2    | 4       | OFF        | ON         |
| XA-61193                  | Propylene | VD-GPIC-MA-3029-3029-0015 | BOOL | UCP-6101  | PLC      | I/O POWER SUPPLY # 2 OK               |                   | UCP-6101      | UCP-6101  | DI              | 24VDC       | -            | PW400        | H    |        | NIS    | 2    | 2    | 5       | OFF        | ON         |
| HS-61161                  | Propylene | VD-GPIC-MA-3029-3029-0015 | BOOL | UCP-6101  | PLC      | ESD                                   |                   | UCP-6101      | UCP-6101  | DI              | 24VDC       | -            | PW400        | H    |        | NIS    | 2    | 2    | 6       |            |            |
|                           |           |                           |      |           |          | SPARE                                 |                   |               |           |                 |             |              |              |      |        |        | 2    | 2    | 7       |            |            |
| HS-C6101A                 | Propylene | VD-GPIC-MA-3029-3029-0015 | BOOL | LCP-6101A | UCP-6101 | EMERGENCY STOP PB.                    |                   | COMP A SKID   | LCP-6101A | DI              | 24VDC       | NC           | PW400        | H    |        | NIS    | 2    | 2    | 8       | OFF        | ON         |
| HST-C6101A                | Propylene | VD-GPIC-MA-3029-3029-0015 | BOOL | LCP-6101A | UCP-6101 | COMPRESSOR -A- LOCAL START PB         |                   | COMP A SKID   | LCP-6101A | DI              | 24VDC       | NO           | PW400        | H    |        | NIS    | 2    | 2    | 9       | OFF        | ON         |
| HSP-C6101A                | Propylene | VD-GPIC-MA-3029-3029-0015 | BOOL | LCP-6101A | UCP-6101 | COMPRESSOR -A- LOCAL STOP PB          |                   | COMP A SKID   | LCP-6101A | DI              | 24VDC       | NO           | PW400        | H    |        | NIS    | 2    | 2    | 10      | OFF        | ON         |
|                           |           |                           |      |           |          | SPARE                                 |                   |               |           |                 |             |              |              |      |        |        | 2    | 2    | 11      |            |            |
| HST-C6101B                | Propylene | VD-GPIC-MA-3029-3029-0015 | BOOL | LCP-6101B | UCP-6101 | COMPRESSOR -B- LOCAL START PB         |                   | COMP -B- SKID | LCP-6101B | DI              | 24VDC       | NO           | PW400        | H    |        | NIS    | 2    | 2    | 12      | OFF        | ON         |
| HSP-C6101B                | Propylene | VD-GPIC-MA-3029-3029-0015 | BOOL | LCP-6101B | UCP-6101 | COMPRESSOR -B- LOCAL STOP PB          |                   | COMP -B- SKID | LCP-6101B | DI              | 24VDC       | NO           | PW400        | H    |        | NIS    | 2    | 2    | 13      | OFF        | ON         |
| ESD-61010                 | Propylene | VD-GPIC-MA-3029-3029-0015 | BOOL | ESD       | PLC      | ESD                                   |                   | ESD           | UCP-6101  | DI              | 24VDC       | NC           | PW400        | H    |        | NIS    | 2    | 2    | 14      | OFF        | ON         |
|                           |           |                           |      |           |          | SPARE                                 |                   |               |           |                 |             |              |              |      |        |        | 2    | 2    | 15      |            |            |
| Card Type: Digital IN/ 16 |           |                           |      |           |          |                                       |                   |               |           |                 |             |              |              |      |        |        |      |      |         |            |            |
| TAG                       |           |                           |      |           |          | DESCRIPTION                           |                   | LOCATION      | JB No.    | SIGNAL CATEGORY | SIGNAL TYPE | RELAY OUTPUT | POWER SUPPLY |      |        |        | RACK | SLOT | CHANNEL |            |            |
| HSLR-C6101A               | Propylene | VD-GPIC-MA-3029-3029-0015 | BOOL | LCP-6101A | UCP-6101 | COMPRESSOR -A- LOCAL -REMOTE SELECTOR |                   | COMP -A- SKID | LCP-6101A | DI              | 24VDC       | -            | PW400        | H    |        | NIS    | 2    | 3    | 0       | OFF        | ON         |
| HSLR-C6101B               | Propylene | VD-GPIC-MA-3029-3029-0015 | BOOL | LCP-6101B | UCP-6101 | COMPRESSOR -B- LOCAL -REMOTE SELECTOR |                   | COMP -B- SKID | LCP-6101B | DI              | 24VDC       | -            | PW400        | H    |        | NIS    | 2    | 3    | 1       | OFF        | ON         |
| HS-C6101AL                | Propylene | VD-GPIC-MA-3029-3029-0015 | BOOL | LCP-6101A | UCP-6101 | LAMP TEST ON LCPA                     |                   | COMP -A- SKID | LCP-6101A | DI              | 24VDC       | NO           | PW400        | H    |        | NIS    | 2    | 3    | 2       | OFF        | ON         |
| HS-C6101BL                | Propylene | VD-GPIC-MA-3029-3029-0015 | BOOL | LCP-6101B | UCP-6101 | LAMP TEST ON LCPB                     |                   | COMP -B- SKID | LCP-6101B | DI              | 24VDC       | NO           | PW400        | H    |        | NIS    | 2    | 3    | 3       | OFF        | ON         |
|                           |           |                           |      |           |          | SPARE                                 |                   |               |           | DI              | 24VDC       |              | PW400        |      |        |        | 2    | 3    | 4       |            |            |
|                           |           |                           |      |           |          | SPARE                                 |                   |               |           | DI              | 24VDC       |              | PW400        |      |        |        | 2    | 3    | 5       |            |            |



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|-------------|-----------|---------------------------|------|-------|----------|---------------------------------|--|---------------|--------------|----|-------|----|-------|---|--|-----|---|---|----|-----|----|
|             |           |                           |      |       |          | SPARE                           |  |               |              | DI | 24VDC |    | PW400 |   |  |     | 2 | 3 | 6  |     |    |
|             |           |                           |      |       |          | SPARE                           |  |               |              | DI | 24VDC |    | PW400 |   |  |     | 2 | 3 | 7  |     |    |
| ZSH-61111   | Propylene | VD-GPIC-MA-3029-3029-0015 | BOOL | FIELD | UCP-6101 | COMPRESSOR -A- SLIDE VALVE 100% |  | COMP -A- SKID | JB-UIA-61111 | DI | 24VDC | NO | PW400 | H |  | IS  | 2 | 3 | 8  | OFF | ON |
| ZSL-61111   | Propylene | VD-GPIC-MA-3029-3029-0015 | BOOL | FIELD | UCP-6101 | COMPRESSOR -A- SLIDE VALVE 0%   |  | COMP -A- SKID | JB-UIA-61111 | DI | 24VDC | NO | PW400 | H |  | IS  | 2 | 3 | 9  | OFF | ON |
| ZSH-61121   | Propylene | VD-GPIC-MA-3029-3029-0015 | BOOL | FIELD | UCP-6101 | COMPRESSOR -B- SLIDE VALVE 100% |  | COMP -B- SKID | JB-UIA-61121 | DI | 24VDC | NO | PW400 | H |  | IS  | 2 | 3 | 10 | OFF | ON |
| ZSL-61121   | Propylene | VD-GPIC-MA-3029-3029-0015 | BOOL | FIELD | UCP-6101 | COMPRESSOR -B- SLIDE VALVE 0%   |  | COMP -B- SKID | JB-UIA-61121 | DI | 24VDC | NO | PW400 | H |  | IS  | 2 | 3 | 11 | OFF | ON |
|             |           |                           |      |       |          | SPARE                           |  |               |              | DI | 24VDC |    | PW400 |   |  |     | 2 | 3 | 12 |     |    |
| YSLH-C6101B | Propylene | VD-GPIC-MA-3029-3029-0015 | BOOL | MCC   | UCP-6101 | COMPRESSOR -B- RUNNING          |  | MCC           | UCP-6101     | DI | 24VDC | NO | PW400 | H |  | NIS | 2 | 3 | 13 | OFF | ON |
| YSLF-C6101B | Propylene | VD-GPIC-MA-3029-3029-0015 | BOOL | MCC   | UCP-6101 | COMPRESSOR -B- FAULT            |  | MCC           | UCP-6101     | DI | 24VDC | NC | PW400 | H |  | NIS | 2 | 3 | 14 | OFF | ON |
|             |           |                           |      |       |          | SPARE                           |  |               |              | DI | 24VDC |    | PW400 |   |  |     | 2 | 3 | 15 |     |    |

Card Type: Digital IN/ 16

| TAG         |           |                           |      |           |           | DESCRIPTION            |  | LOCATION      | JB No.    | SIGNAL CATEGORY | SIGNAL TYPE | RELAY OUTPUT | POWER SUPPLY |   |  | RACK | SLOT | CHANNEL |    |     |    |
|-------------|-----------|---------------------------|------|-----------|-----------|------------------------|--|---------------|-----------|-----------------|-------------|--------------|--------------|---|--|------|------|---------|----|-----|----|
| YSLH-C6101A | Propylene | VD-GPIC-MA-3029-3029-0015 | BOOL | MCC       | UCP-6101  | COMPRESSOR -A- RUNNING |  | MCC           | UCP-6101  | DI              | 24VDC       | NO           | PW400        | H |  | NIS  | 2    | 4       | 0  | OFF | ON |
| YSLF-C6101A | Propylene | VD-GPIC-MA-3029-3029-0015 | BOOL | MCC       | UCP-6101  | COMPRESSOR -A- FAULT   |  | MCC           | UCP-6101  | DI              | 24VDC       | NC           | PW400        | H |  | NIS  | 2    | 4       | 1  | OFF | ON |
| YSLH-EH6101 | Propylene | VD-GPIC-MA-3029-3029-0015 | BOOL | MCC       | UCP-6101  | OIL HEATER RUNNING     |  | MCC           | UCP-6101  | DI              | 24VDC       | NO           | PW400        | H |  | NIS  | 2    | 4       | 2  | OFF | ON |
| YSLF-EH6101 | Propylene | VD-GPIC-MA-3029-3029-0015 | BOOL | MCC       | UCP-6102  | OIL HEATER - FAULT     |  | MCC           | UCP-6101  | DI              | 24VDC       | NC           | PW400        | H |  | NIS  | 2    | 4       | 3  | OFF | ON |
| YSLH-P6111A | Propylene | VD-GPIC-MA-3029-3029-0015 | BOOL | MCC       | UCP-6101  | PUMP A RUNNING         |  | MCC           | UCP-6101  | DI              | 24VDC       | NO           | PW400        | H |  | NIS  | 2    | 4       | 4  | OFF | ON |
| YSLF-P6111A | Propylene | VD-GPIC-MA-3029-3029-0015 | BOOL | MCC       | UCP-6101  | PUMP A - FAULT         |  | MCC           | UCP-6101  | DI              | 24VDC       | NC           | PW400        | H |  | NIS  | 2    | 4       | 5  | OFF | ON |
| YSLH-P6111B | Propylene | VD-GPIC-MA-3029-3029-0015 | BOOL | MCC       | UCP-6101  | PUMP B RUNNING         |  | MCC           | UCP-6101  | DI              | 24VDC       | NO           | PW400        | H |  | NIS  | 2    | 4       | 6  | OFF | ON |
| YSLF-P6111B | Propylene | VD-GPIC-MA-3029-3029-0015 | BOOL | MCC       | UCP-6101  | PUMP B - FAULT         |  | MCC           | UCP-6101  | DI              | 24VDC       | NC           | PW400        | H |  | NIS  | 2    | 4       | 7  | OFF | ON |
|             |           |                           |      |           |           | SPARE                  |  |               |           | DI              | 24VDC       |              | PW400        | H |  | NIS  | 2    | 4       | 8  |     |    |
|             |           |                           |      |           |           | SPARE                  |  |               |           | DI              | 24VDC       | -            | PW400        |   |  |      | 2    | 4       | 9  |     |    |
|             |           |                           |      |           |           | SPARE                  |  |               |           | DI              | 24VDC       |              | PW400        |   |  |      | 2    | 4       | 10 |     |    |
| HS-C6101B   | Propylene | VD-GPIC-MA-3029-3029-0015 | BOOL | LCP-6101B | UCP-6101  | EMERGENCY STOP PB.     |  | COMP -B- SKID | LCP-6101B | DI              | 24VDC       | NC           | PW400        | H |  | NIS  | 2    | 4       | 11 | OFF | ON |
| YLH-P6111A  | Propylene | VD-GPIC-MA-3029-3029-0015 | BOOL | UCP-6101  | LCP-6101A | PUMP A RUNNING         |  | COMP -A- SKID | LCP-6101A | DI              | 24VDC       | NO           | PW400        | H |  | NIS  | 2    | 4       | 12 | OFF | ON |
| YL-P6111A   | Propylene | VD-GPIC-MA-3029-3029-0015 | BOOL | UCP-6101  | LCP-6101A | PUMP A - FAULT         |  | COMP -A- SKID | LCP-6101A | DI              | 24VDC       | NC           | PW400        | H |  | NIS  | 2    | 4       | 13 | OFF | ON |
| YLH-P6111B  | Propylene | VD-GPIC-MA-3029-3029-0015 | BOOL | UCP-6101  | LCP-6101A | PUMP B RUNNING         |  | COMP -A- SKID | LCP-6101A | DI              | 24VDC       | NO           | PW400        | H |  | NIS  | 2    | 4       | 14 | OFF | ON |
| YL-P6111B   | Propylene | VD-GPIC-MA-3029-3029-0015 | BOOL | UCP-6101  | LCP-6101A | PUMP B - FAULT         |  | COMP -A- SKID | LCP-6101A | DI              | 24VDC       | NC           | PW400        | H |  | NIS  | 2    | 4       | 15 | OFF | ON |



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Card Type: Digital IN/ 16

| TAG           | SERVICE   | PID DWG No.               | TYPE | FROM      | TO       | DESCRIPTION                  | Engineering units | LOCATION      | JB No.    | SIGNAL CATEGORY | SIGNAL TYPE | RELAY OUTPUT | POWER SUPPLY | TYPE | SERIAL | IS/NIS | RACK | SLOT | CHANNEL | STATE S'0' | STATE S'1' |
|---------------|-----------|---------------------------|------|-----------|----------|------------------------------|-------------------|---------------|-----------|-----------------|-------------|--------------|--------------|------|--------|--------|------|------|---------|------------|------------|
| HS-P6111A/B-A | Propylene | VD-GPIC-MA-3029-3029-0015 | BOOL | LCP-6101A | UCP-6101 | LEAD/LAG - PUMP A - SELECTOR |                   | COMP -A- SKID | LCP-6101A | DI              | 24VDC       | NO           | PW400        | H    |        | NIS    | 2    | 5    | 0       | OFF        | ON         |
| HS-P6111A/B-B | Propylene | VD-GPIC-MA-3029-3029-0015 | BOOL | LCP-6101A | UCP-6101 | LEAD/LAG - PUMP B - SELECTOR |                   | COMP -A- SKID | LCP-6101A | DI              | 24VDC       | NO           | PW400        | H    |        | NIS    | 2    | 5    | 1       | OFF        | ON         |
| HSLR-P6111A-1 | Propylene | VD-GPIC-MA-3029-3029-0015 | BOOL | LCP-6101A | UCP-6101 | HOA-HAND - PUMP A            |                   | COMP -A- SKID | UCP-6101  | DI              | 24VDC       | NO           | PW400        | H    |        | NIS    | 2    | 5    | 2       | OFF        | ON         |
| HSLR-P6111A-2 | Propylene | VD-GPIC-MA-3029-3029-0015 | BOOL | LCP-6101A | UCP-6102 | HOA-OFF - PUMP A             |                   | COMP -A- SKID | UCP-6101  | DI              | 24VDC       | NO           | PW400        | H    |        | NIS    | 2    | 5    | 3       | OFF        | ON         |
| HSLR-P6111A-3 | Propylene | VD-GPIC-MA-3029-3029-0015 | BOOL | LCP-6101A | UCP-6101 | HOA-AUTO - PUMP A            |                   | COMP -A- SKID | UCP-6101  | DI              | 24VDC       | NO           | PW400        | H    |        | NIS    | 2    | 5    | 4       | OFF        | ON         |
| HST-P6111A    | Propylene | VD-GPIC-MA-3029-3029-0015 | BOOL | LCP-6101A | UCP-6101 | PUMP A LOCAL START PB        |                   | COMP -A- SKID | UCP-6101  | DI              | 24VDC       | NO           | PW400        | H    |        | NIS    | 2    | 5    | 5       | OFF        | ON         |
| HSP-P6111A    | Propylene | VD-GPIC-MA-3029-3029-0015 | BOOL | LCP-6101A | UCP-6101 | PUMP A LOCAL STOP PB         |                   | COMP -A- SKID | UCP-6101  | DI              | 24VDC       | NO           | PW400        | H    |        | NIS    | 2    | 5    | 6       | OFF        | ON         |
|               |           |                           |      |           |          | SPARE                        |                   |               |           | DI              | 24VDC       | -            | PW400        |      |        |        | 2    | 5    | 7       |            |            |
| HSLR-P6111B-1 | Propylene | VD-GPIC-MA-3029-3029-0015 | BOOL | LCP-6101A | UCP-6101 | HOA-HAND - PUMP B            |                   | COMP -A- SKID | UCP-6101  | DI              | 24VDC       | NO           | PW400        | H    |        | NIS    | 2    | 5    | 8       | OFF        | ON         |
| HSLR-P6111B-2 | Propylene | VD-GPIC-MA-3029-3029-0015 | BOOL | LCP-6101A | UCP-6102 | HOA-OFF - PUMP B             |                   | COMP -A- SKID | UCP-6101  | DI              | 24VDC       | NO           | PW400        | H    |        | NIS    | 2    | 5    | 9       | OFF        | ON         |
| HSLR-P6111B-3 | Propylene | VD-GPIC-MA-3029-3029-0015 | BOOL | LCP-6101A | UCP-6101 | HOA-AUTO - PUMP B            |                   | COMP -A- SKID | UCP-6101  | DI              | 24VDC       | NO           | PW400        | H    |        | NIS    | 2    | 5    | 10      | OFF        | ON         |
| HST-P6111B    | Propylene | VD-GPIC-MA-3029-3029-0015 | BOOL | LCP-6101A | UCP-6101 | PUMP B LOCAL START PB        |                   | COMP -A- SKID | UCP-6101  | DI              | 24VDC       | NO           | PW400        | H    |        | NIS    | 2    | 5    | 11      | OFF        | ON         |
| HSP-P6111B    | Propylene | VD-GPIC-MA-3029-3029-0015 | BOOL | LCP-6101A | UCP-6101 | PUMP B LOCAL STOP PB         |                   | COMP -A- SKID | UCP-6101  | DI              | 24VDC       | NO           | PW400        | H    |        | NIS    | 2    | 5    | 12      | OFF        | ON         |
| TS-6101       | Propylene | VD-GPIC-MA-3029-3029-0015 | BOOL | DCS       | UCP-6101 | TIME SYNCHRONIZATION         |                   | DCS           | UCP-6101  | DI              | 24VDC       | NO           | PW400        | H    |        | NIS    | 2    | 5    | 13      |            |            |
|               |           |                           |      |           |          | SPARE                        |                   |               |           | DI              | 24VDC       |              | PW400        |      |        |        | 2    | 5    | 14      |            |            |
|               |           |                           |      |           |          | SPARE                        |                   |               |           | DI              | 24VDC       |              | PW400        |      |        |        | 2    | 5    | 15      |            |            |

STATES

| TAG | SERVICE | PID DWG No. | TYPE | FROM | TO | DESCRIPTION | Engineering units | LOCATION | JB No. | SIGNAL CATEGORY | SIGNAL TYPE | RELAY OUTPUT | POWER SUPPLY | TYPE | SERIAL | IS/NIS | RACK | SLOT | CHANNEL | STATE S'0' | STATE S'1' |
|-----|---------|-------------|------|------|----|-------------|-------------------|----------|--------|-----------------|-------------|--------------|--------------|------|--------|--------|------|------|---------|------------|------------|
|-----|---------|-------------|------|------|----|-------------|-------------------|----------|--------|-----------------|-------------|--------------|--------------|------|--------|--------|------|------|---------|------------|------------|

Card Type: Digital OUT/ 16

| TAG       | SERVICE   | PID DWG No.               | TYPE | FROM     | TO        | DESCRIPTION                    | Engineering units | LOCATION  | JB No.    | SIGNAL CATEGORY | SIGNAL TYPE | RELAY OUTPUT | POWER SUPPLY | TYPE | SERIAL | IS/NIS | RACK | SLOT | CHANNEL | STATE S'0' | STATE S'1' |
|-----------|-----------|---------------------------|------|----------|-----------|--------------------------------|-------------------|-----------|-----------|-----------------|-------------|--------------|--------------|------|--------|--------|------|------|---------|------------|------------|
| YLH-6101A | Propylene | VD-GPIC-MA-3029-3029-0015 | BOOL | UCP-6101 | LCP-6101A | COMPRESSOR -A- RUNNING         |                   | COMP SKID | LCP-6101A | DO              | 24VDC       | NDE          | PW400        | H    |        | NIS    | 2    | 6    | 0       | OFF        | ON         |
| YL-6101A  | Propylene | VD-GPIC-MA-3029-3029-0015 | BOOL | UCP-6101 | LCP-6101A | COMPRESSOR -A- AVAILABLE/FAULT |                   | COMP SKID | LCP-6101A | DO              | 24VDC       | NDE          | PW400        | H    |        | NIS    | 2    | 6    | 1       | OFF        | ON         |
| YLH-6101B | Propylene | VD-GPIC-MA-3029-3029-0015 | BOOL | UCP-6101 | LCP-6101B | COMPRESSOR -B- RUNNING         |                   | COMP SKID | LCP-6101A | DO              | 24VDC       | NDE          | PW400        | H    |        | NIS    | 2    | 6    | 2       | OFF        | ON         |
| YL-6101B  | Propylene | VD-GPIC-MA-3029-3029-0015 | BOOL | UCP-6101 | LCP-6101B | COMPRESSOR -B- AVAILABLE/FAULT |                   | COMP SKID | LCP-6101A | DO              | 24VDC       | NDE          | PW400        | H    |        | NIS    | 2    | 6    | 3       | OFF        | ON         |
|           |           |                           |      |          |           | SPARE                          |                   |           |           | DO              | 24VDC       |              | PW400        |      |        |        | 2    | 6    | 4       |            |            |



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| TAG                        | Material  | ID                        | Type | UCP      | MCC      | DESCRIPTION                                   | LOCATION     | JB No.     | SIGNAL CATEGORY | SIGNAL TYPE | RELAY OUTPUT | POWER SUPPLY | RACK  | SLOT | CHANNEL | OFF | ON |    |          |         |    |   |  |  |
|----------------------------|-----------|---------------------------|------|----------|----------|---|--------------|------------|-----------------|-------------|--------------|--------------|-------|------|---------|-----|----|----|----------|---------|----|---|--|--|
| XA-61195                   | Propylene | VD-GPIC-MA-3029-3029-0045 | BOOL | UCP-6104 | UCP-6104 | ENCLOSURE FANS ON/OFF -1                      |              | UCP-6104   | UCP-6104        | DO          | 24VDC        | WE+ CONTACT  | PW400 | H    |         | NIS | 2  | 6  | 5        | OFF     | ON |   |  |  |
| HSL-C6101A                 | Propylene | VD-GPIC-MA-3029-3029-0015 | BOOL | UCP-6101 | MCC      | COMP.A. START COMMAND TO MCC                  |              | MCC        | UCP-6101        | DO          | 24VDC        | NDE          | PW400 | H    |         | NIS | 2  | 6  | 6        |         |    |   |  |  |
| HSR-C6101A                 | Propylene | VD-GPIC-MA-3029-3029-0015 | BOOL | UCP-6101 | MCC      | COMP.A. STOP COMMAND TO MCC                   |              | MCC        | UCP-6101        | DO          | 24VDC        | NDE          | PW400 | H    |         | NIS | 2  | 6  | 7        |         |    |   |  |  |
| HSL-C6101B                 | Propylene | VD-GPIC-MA-3029-3029-0015 | BOOL | UCP-6101 | MCC      | COMP.B. START COMMAND TO MCC                  |              | MCC        | UCP-6101        | DO          | 24VDC        | NDE          | PW400 | H    |         | NIS | 2  | 6  | 8        |         |    |   |  |  |
| HSR-C6101B                 | Propylene | VD-GPIC-MA-3029-3029-0015 | BOOL | UCP-6101 | MCC      | COMP.B. STOP COMMAND TO MCC                   |              | MCC        | UCP-6101        | DO          | 24VDC        | NDE          | PW400 | H    |         | NIS | 2  | 6  | 9        |         |    |   |  |  |
| HSL-P6101A                 | Propylene | VD-GPIC-MA-3029-3029-0015 | BOOL | UCP-6101 | MCC      | PUMP.A. START COMMAND TO MCC                  |              | MCC        | UCP-6101        | DO          | 24VDC        | NDE          | PW400 | H    |         | NIS | 2  | 6  | 10       |         |    |   |  |  |
| HSR-P6101A                 | Propylene | VD-GPIC-MA-3029-3029-0015 | BOOL | UCP-6101 | MCC      | PUMP.A. STOP COMMAND TO MCC                   |              | MCC        | UCP-6101        | DO          | 24VDC        | NDE          | PW400 | H    |         | NIS | 2  | 6  | 11       |         |    |   |  |  |
| HSL-P6101B                 | Propylene | VD-GPIC-MA-3029-3029-0015 | BOOL | UCP-6101 | MCC      | PUMP.B. START COMMAND TO MCC                  |              | MCC        | UCP-6101        | DO          | 24VDC        | NDE          | PW400 | H    |         | NIS | 2  | 6  | 12       |         |    |   |  |  |
| HSR-P6101B                 | Propylene | VD-GPIC-MA-3029-3029-0015 | BOOL | UCP-6101 | MCC      | PUMP.B. STOP COMMAND TO MCC                   |              | MCC        | UCP-6101        | DO          | 24VDC        | NDE          | PW400 | H    |         | NIS | 2  | 6  | 13       |         |    |   |  |  |
| HSL-EH6101                 | Propylene | VD-GPIC-MA-3029-3029-0015 | BOOL | UCP-6101 | MCC      | ELEC.HEATER. START COMMAND TO MCC             |              | MCC        | UCP-6101        | DO          | 24VDC        | NDE          | PW400 | H    |         | NIS | 2  | 6  | 14       |         |    |   |  |  |
| HSR-EH6101                 | Propylene | VD-GPIC-MA-3029-3029-0015 | BOOL | UCP-6101 | MCC      | ELEC.HEATER. STOP COMMAND TO MCC              |              | MCC        | UCP-6101        | DO          | 24VDC        | NDE          | PW400 | H    |         | NIS | 2  | 6  | 15       |         |    |   |  |  |
| Card Type: Digital OUT/ 16 |           |                           |      |          |          |   |              |            |                 |             |              |              |       |      |         |     |    |    |          |         |    |   |  |  |
| XY-61111                   | Propylene | VD-GPIC-MA-3029-3029-0015 | BOOL | UCP-6101 | FIELD    | COMPRESSOR -A- SLIDE VALVE UNLOAD SOV         | COMP SKID    | JB-UEV-612 | DO              | 24VDC       | NE           | PW400        | H     |      | NIS     | 2   | 7  | 0  | OFF      | ON      |    |   |  |  |
| XY-61112                   | Propylene | VD-GPIC-MA-3029-3029-0015 | BOOL | UCP-6101 | FIELD    | COMPRESSOR -A- SLIDE VALVE LOAD SOV           | COMP SKID    | JB-UEV-612 | DO              | 24VDC       | NE           | PW400        | H     |      | NIS     | 2   | 7  | 1  | OFF      | ON      |    |   |  |  |
| XY-61121                   | Propylene | VD-GPIC-MA-3029-3029-0015 | BOOL | UCP-6101 | FIELD    | COMPRESSOR -B- SLIDE VALVE UNLOAD SOV         | COMP SKID    | JB-UEV-622 | DO              | 24VDC       | NE           | PW400        | H     |      | NIS     | 2   | 7  | 2  | OFF      | ON      |    |   |  |  |
| XY-61122                   | Propylene | VD-GPIC-MA-3029-3029-0015 | BOOL | UCP-6101 | FIELD    | COMPRESSOR -B- SLIDE VALVE LOAD SOV           | COMP SKID    | JB-UEV-622 | DO              | 24VDC       | NE           | PW400        | H     |      | NIS     | 2   | 7  | 3  | OFF      | ON      |    |   |  |  |
| XY-61151                   | Propylene | VD-GPIC-MA-3029-3029-0015 | BOOL | UCP-6101 | FIELD    | OIL RECOVERY VALVE SOV - COMPRESSOR DISCHARGE | VESSELS SKID | JB-UEV-652 | DO              | 24VDC       | NE           | PW400        | H     |      | NIS     | 2   | 7  | 0  | OFF      | ON      |    |   |  |  |
| XY-61152                   | Propylene | VD-GPIC-MA-3029-3029-0015 | BOOL | UCP-6101 | FIELD    | OIL RECOVERY VALVE SOV - CHILLER RECOVERY     | VESSELS SKID | JB-UEV-652 | DO              | 24VDC       | NE           | PW400        | H     |      | NIS     | 2   | 7  | 1  | OFF      | ON      |    |   |  |  |
|                            |           |                           |      |          |          | SPARE   |              |            | DO              | 24VDC       |              | PW400        |       |      |         |     | 2  | 7  | 2        |         |    |   |  |  |
|                            |           |                           |      |          |          | SPARE   |              |            | DO              | 24VDC       |              | PW400        |       |      |         |     |    | 2  | 7        | 3       |    |   |  |  |
|                            |           |                           |      |          |          | SPARE   |              |            | DO              | 24VDC       |              | PW400        |       |      |         |     |    |    | 2        | 7       | 4  |   |  |  |
|                            |           |                           |      |          |          | SPARE   |              |            | DO              | 24VDC       |              | PW400        |       |      |         |     |    |    |          | 2       | 7  | 5 |  |  |
| XA-61101                   | Propylene | VD-GPIC-MA-3029-3029-0015 | BOOL | UCP-6101 | DCS      | COMPRESSOR -A- ALRM COMPRESSOR                | UCP-6101     | UCP-6101   | DO              | 24VDC       | NDE          | PW400        | H     | S    | NIS     | 2   | 7  | 6  | OFF      | ON      |    |   |  |  |
| XA-61102                   | Propylene | VD-GPIC-MA-3029-3029-0015 | BOOL | UCP-6101 | DCS      | COMMON -A- TRIP COMPRESSOR                    | UCP-6101     | UCP-6101   | DO              | 24VDC       | NDE          | PW400        | H     | S    | NIS     | 2   | 7  | 7  | OFF      | ON      |    |   |  |  |
| XA-61103                   | Propylene | VD-GPIC-MA-3029-3029-0045 | BOOL | UCP-6104 | DCS      | COMPRESSOR -B- TRIP COMPRESSOR                | UCP-6104     | UCP-6104   | DO              | 24VDC       | DRY CONTACT  | PW400        | H     | S    | NIS     | 2   | 7  | 8  | OFF      | ON      |    |   |  |  |
| XA-61104                   | Propylene | VD-GPIC-MA-3029-3029-0045 | BOOL | UCP-6104 | DCS      | COMMON -B- ALRM COMPRESSOR                    | UCP-6104     | UCP-6104   | DO              | 24VDC       | DRY CONTACT  | PW400        | H     | S    | NIS     | 2   | 7  | 9  | OFF      | ON      |    |   |  |  |
| UA-61199                   | Propylene | VD-GPIC-MA-3029-3029-0045 | BOOL | UCP-6104 | DCS      | INTERLOCK ACTIVATED FOR COMP. B               | UCP-6104     | UCP-6104   | DO              | 24VDC       | DRY CONTACT  | PW400        | H     | S    | NIS     | 2   | 7  | 10 | OFF PULS | ON PULS |    |   |  |  |



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|----------|-----------|---------------------------|------|----------|-----|---------------------------------|--|----------|----------|----|-------|-------------|-------|---|---|-----|---|---|----|------------|-----------|
| UA-61144 | Propylene | VD-GPIC-MA-3029-3029-0045 | BOOL | UCP-6104 | DCS | INTERLOCK ACTIVATED FOR COMP. A |  | UCP-6104 | UCP-6104 | DO | 24VDC | EKT CONTACT | PW400 | H | S | NIS | 2 | 7 | 44 | OFF PULS E | ON PULS E |
|----------|-----------|---------------------------|------|----------|-----|---------------------------------|--|----------|----------|----|-------|-------------|-------|---|---|-----|---|---|----|------------|-----------|

| TAG | SERVICE | PID DWG No. | TYPE | FROM | TO | DESCRIPTION | Engineering units | LOCATION | JB No. | SIGNAL CATEGORY | SIGNAL | RELAY OUTPUT | POWER SUPPLY | TYPE | SERIAL | IS/NIS | RACK | SLOT | CHANNEL | STATE S'0' | STATE S'1' |
|-----|---------|-------------|------|------|----|-------------|-------------------|----------|--------|-----------------|--------|--------------|--------------|------|--------|--------|------|------|---------|------------|------------|
|-----|---------|-------------|------|------|----|-------------|-------------------|----------|--------|-----------------|--------|--------------|--------------|------|--------|--------|------|------|---------|------------|------------|

Card Type: Digital IN/ 16

Card Type/: Analog IN/ 8

| TAG         | SERVICE   | PID DWG No.               | TYPE       | FROM  | TO       | DESCRIPTION                                    | Engineering units | LOCATION      | JB No.     | SIGNAL CATEGORY | SIGNAL TYPE | RELAY OUTPUT | POWER SUPPLY | TYPE | SERIAL | IS/NIS | RACK | SLOT | CHANNEL | STATE S'0' | STATE S'1' |
|-------------|-----------|---------------------------|------------|-------|----------|--|-------------------|---------------|------------|-----------------|-------------|--------------|--------------|------|--------|--------|------|------|---------|------------|------------|
| PT-61111    | Propylene | VD-GPIC-MA-3029-3029-0015 | FLOAT/REAL | FIELD | UCP-6104 | COMPRESSOR -A- SUCTION PRESSURE                | Bar               | COMP SKID     | JB-UIA-611 | AI              | 4-20mA      | -            | PW400        | H    | S      | IS     | 2    | 8    | 0       |            |            |
| PT-61113    | Propylene | VD-GPIC-MA-3029-3029-0015 | FLOAT/REAL | FIELD | UCP-6101 | COMPRESSOR -A- OIL SUPPLY PRESSURE             | Bar               | COMP SKID     | JB-UIA-611 | AI              | 4-20mA      | -            | PW400        | H    | S      | IS     | 2    | 8    | 1       |            |            |
| TT-61111    | Propylene | VD-GPIC-MA-3029-3029-0015 | FLOAT/REAL | FIELD | UCP-6101 | COMPRESSOR -A-SUCTION TEMPERATURE              | C                 | COMP SKID     | JB-UIA-611 | AI              | 4-20mA      | -            |              |      |        |        | 2    | 8    | 2       |            |            |
| VT-61111    | Propylene | VD-GPIC-MA-3029-3029-0015 | FLOAT/REAL | FIELD | UCP-6104 | COMPRESSOR -A- CASING VIBRATION                | G                 | COMP SKID     | JB-UIA-611 | AI              | 4-20mA      | -            |              |      |        |        | 2    | 8    | 3       |            |            |
| ZT-61111    | Propylene | VD-GPIC-MA-3029-3029-0015 | FLOAT/REAL | FIELD | UCP-6101 | COMPRESSOR -A- SLIDE VALVE POSITION            | %                 | COMP SKID     | JB-UIA-611 | AI              | 4-20mA      | -            |              |      |        |        | 2    | 8    | 4       |            |            |
|             |           |                           |            |       |          | SPARE  |                   |               |            | AI              | 4-20mA      | -            |              |      |        |        | 2    | 8    | 5       |            |            |
| TE/TT-61127 | Propylene | VD-GPIC-MA-3029-3029-0015 | FLOAT/REAL | FIELD | UCP-6101 | COMPRESSOR MOTOR -B- BEARING TEMP DE (Note 1)  | C                 | COMP -B- SKID | MOTOR JB   | AI              | 4-20mA      | -            | PW400        | H    | S      | IS     | 2    | 8    | 6       |            |            |
| TE/TT-61128 | Propylene | VD-GPIC-MA-3029-3029-0015 | FLOAT/REAL | FIELD | UCP-6101 | COMPRESSOR MOTOR -B- BEARING TEMP NDE (Note 1) | C                 | COMP -B- SKID | MOTOR JB   | AI              | 4-20mA      | -            | PW400        | H    | S      | IS     | 2    | 8    | 7       |            |            |

EL Comment:  
Also Please Add RTD Element from Field to MCC

Card Type/: Analog IN/ 8

| TAG         | SERVICE   | PID DWG No.               | TYPE       | FROM  | TO       | DESCRIPTION                                    | Engineering units | LOCATION      | JB No.       | SIGNAL CATEGORY | SIGNAL TYPE | RELAY OUTPUT | POWER SUPPLY | TYPE | SERIAL | IS/NIS | RACK | SLOT | CHANNEL | STATE S'0' | STATE S'1' |
|-------------|-----------|---------------------------|------------|-------|----------|--|-------------------|---------------|--------------|-----------------|-------------|--------------|--------------|------|--------|--------|------|------|---------|------------|------------|
| PT-61121    | Propylene | VD-GPIC-MA-3029-3029-0015 | FLOAT/REAL | FIELD | UCP-6104 | COMPRESSOR -B- SUCTION PRESSURE                | Bar               | COMP SKID     | JB-UIA-621   | AI              | 4-20mA      | -            | PW400        | H    | S      | IS     | 2    | 9    | 0       |            |            |
| PT-61123    | Propylene | VD-GPIC-MA-3029-3029-0015 | FLOAT/REAL | FIELD | UCP-6101 | COMPRESSOR -B- OIL SUPPLY PRESSURE             | Bar               | COMP SKID     | JB-UIA-621   | AI              | 4-20mA      | -            | PW400        | H    | S      | IS     | 2    | 9    | 1       |            |            |
| TT-61121    | Propylene | VD-GPIC-MA-3029-3029-0015 | FLOAT/REAL | FIELD | UCP-6101 | COMPRESSOR -B-SUCTION TEMPERATURE              | C                 | COMP SKID     | JB-UIA-621   | AI              | 4-20mA      | -            | PW400        | H    | S      | IS     | 2    | 9    | 2       |            |            |
| VT-61124    | Propylene | VD-GPIC-MA-3029-3029-0045 | FLOAT/REAL | FIELD | UCP-6104 | COMPRESSOR -B- CASING VIBRATION                | G                 | COMP SKID     | JB-UIA-61124 | AI              | 4-20mA      | -            | PW400        | H    | S      | IS     | 2    | 9    | 3       |            |            |
| ZT-61121    | Propylene | VD-GPIC-MA-3029-3029-0015 | FLOAT/REAL | FIELD | UCP-6101 | COMPRESSOR -B- SLIDE VALVE POSITION            | %                 | COMP SKID     | JB-UIA-621   | AI              | 4-20mA      | -            | PW400        | H    | S      | IS     | 2    | 9    | 4       |            |            |
|             |           |                           |            |       |          | SPARE  |                   |               |              | AI              | 4-20mA      | -            |              |      |        |        | 2    | 9    | 5       |            |            |
| TE/TT-61117 | Propylene | VD-GPIC-MA-3029-3029-0015 | FLOAT/REAL | FIELD | UCP-6101 | COMPRESSOR MOTOR -A- BEARING TEMP DE (Note 1)  | C                 | COMP -A- SKID | MOTOR JB     | AI              | 4-20mA      | -            | PW400        | H    | S      | IS     | 2    | 9    | 6       |            |            |
| TE/TT-61118 | Propylene | VD-GPIC-MA-3029-3029-0015 | FLOAT/REAL | FIELD | UCP-6101 | COMPRESSOR MOTOR -A- BEARING TEMP NDE (Note 1) | C                 | COMP -A- SKID | MOTOR JB     | AI              | 4-20mA      | -            | PW400        | H    | S      | IS     | 2    | 9    | 7       |            |            |

Card Type/: Analog IN/ 8

| TAG      | SERVICE   | PID DWG No.               | TYPE       | FROM  | TO       | DESCRIPTION                       | Engineering units | LOCATION  | JB No.     | SIGNAL CATEGORY | SIGNAL TYPE | RELAY OUTPUT | POWER SUPPLY | TYPE | SERIAL | IS/NIS | RACK | SLOT | CHANNEL | STATE S'0' | STATE S'1' |
|----------|-----------|---------------------------|------------|-------|----------|-----------------------------------|-------------------|-----------|------------|-----------------|-------------|--------------|--------------|------|--------|--------|------|------|---------|------------|------------|
| PT-61131 | Propylene | VD-GPIC-MA-3029-3029-0015 | FLOAT/REAL | FIELD | UCP-6101 | COMMON DISCHARGE PRESSURE         | Bar               | COMP SKID | JB-UIA-611 | AI              | 4-20mA      | -            | PW400        | H    | S      | IS     | 2    | 10   | 0       |            |            |
| PT-61132 | Propylene | VD-GPIC-MA-3029-3029-0015 | FLOAT/REAL | FIELD | UCP-6101 | COALESCER ELEMENT OUTLET PRESSURE | Bar               | COMP SKID | JB-UIA-611 | AI              | 4-20mA      | -            | PW400        | H    | S      | IS     | 2    | 10   | 1       |            |            |



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|----------|-----------|---------------------------|------------|-------|----------|----------------------------|-----|-----------|------------|----|--------|---|-------|---|---|----|---|----|---|--|--|
| PT-61133 | Propylene | VD-GPIC-MA-3029-3029-0015 | FLOAT/REAL | FIELD | UCP-6101 | OIL FILTER SUPPLY PRESSURE | Bar | COMP SKID | JB-UIA-611 | AI | 4-20mA | - | PW400 | H | S | IS | 2 | 10 | 2 |  |  |
| PT-61134 | Propylene | VD-GPIC-MA-3029-3029-0015 | FLOAT/REAL | FIELD | UCP-6101 | OIL SUPPLY PRESSURE        | Bar | COMP SKID | JB-UIA-611 | AI | 4-20mA | - | PW400 | H | S | IS | 2 | 10 | 3 |  |  |
| TT-61131 | Propylene | VD-GPIC-MA-3029-3029-0015 | FLOAT/REAL | FIELD | UCP-6101 | OIL SEPARATOR TEMPERATURE  | C   | COMP SKID | JB-UIA-611 | AI | 4-20mA | - | PW400 | H | S | IS | 2 | 10 | 4 |  |  |
| TT-61132 | Propylene | VD-GPIC-MA-3029-3029-0015 | FLOAT/REAL | FIELD | UCP-6101 | OIL SUPPLY TEMPERATURE     | C   | COMP SKID | JB-UIA-611 | AI | 4-20mA | - | PW400 | H | S | IS | 2 | 10 | 5 |  |  |
| LT-61131 | Propylene | VD-GPIC-MA-3029-3029-0015 | FLOAT/REAL | FIELD | UCP-6101 | OIL SEPARATOR LEVEL        | %   | COMP SKID | JB-UIA-611 | AI | 4-20mA | - | PW400 | H | S | IS | 2 | 10 | 6 |  |  |
|          |           |                           |            |       |          | SPARE                      |     |           |            | AI | 4-20mA | - |       |   |   |    | 2 | 10 | 7 |  |  |

Card Type/: Analog IN/ 8

| TAG       |           |                           |            |          |          | DESCRIPTION                     |      | LOCATION     | JB No.       | SIGNAL CATEGORY | SIGNAL TYPE | RELAY OUTPUT | POWER SUPPLY |   |   |     | RACK | SLOT | CHANNEL |  |  |
|-----------|-----------|---------------------------|------------|----------|----------|---------------------------------|------|--------------|--------------|-----------------|-------------|--------------|--------------|---|---|-----|------|------|---------|--|--|
| TIC-61101 | Propylene | VD-GPIC-MA-3029-3029-0015 | FLOAT/REAL | DCS      | UCP-6101 | CHILLER TUBE OUTLET TEMPERATURE | C    | VESSELS SKID | JB-UIA-61141 | AI              | 4-20mA      | -            | PW400        | H | S | IS  | 2    | 11   | 0       |  |  |
| LT-61151  | Propylene | VD-GPIC-MA-3029-3029-0015 | FLOAT/REAL | FIELD    | UCP-6101 | CHILLER LEVEL                   | %    | VESSELS SKID | JB-UIA-641   | AI              | 4-20mA      | -            | PW400        | H | S | IS  | 2    | 11   | 1       |  |  |
|           |           |                           |            |          |          | SPARE                           |      |              |              | AI              | 4-20mA      | -            | PW400        |   |   |     | 2    | 11   | 2       |  |  |
| PT-61141  | Propylene | VD-GPIC-MA-3029-3029-0015 | FLOAT/REAL | FIELD    | UCP-6101 | ECONOMIZER TUBESIDE PRESSURE    | Bar  | COMP SKID    | JB-UIA-641   | AI              | 4-20mA      | -            | PW400        | H | S | IS  | 2    | 11   | 3       |  |  |
| TT-61141  | Propylene | VD-GPIC-MA-3029-3029-0015 | FLOAT/REAL | FIELD    | UCP-6101 | ECONOMIZER TUBESIDE TEMPERATURE | Bar  | COMP SKID    | JB-UIA-641   | AI              | 4-20mA      | -            | PW400        | H | S | IS  | 2    | 11   | 4       |  |  |
| TT-61190  | Propylene | VD-GPIC-MA-3029-3029-0015 | FLOAT/REAL | UCP-6101 | UCP-6101 | UNIT CONTROL PANEL TEMPERATURE  | C    | UCP-6101     | UCP-6101     | AI              | 4-20mA      | -            | PW400        | H | S | NIS | 2    | 11   | 5       |  |  |
| IT-61111  | Propylene | VD-GPIC-MA-3029-3029-0015 | FLOAT/REAL | MCC      | UCP-6101 | COMPRESSOR -A- MOTOR CURRENT    | AMPS | MCC          | UCP-6101     | AI              | 4-20mA      | -            | PW400        | H | S | NIS | 2    | 11   | 6       |  |  |
| IT-61121  | Propylene | VD-GPIC-MA-3029-3029-0015 | FLOAT/REAL | MCC      | UCP-6102 | COMPRESSOR -B- MOTOR CURRENT    | AMPS | MCC          | UCP-6101     | AI              | 4-20mA      | -            | PW400        | H | S | NIS | 2    | 11   | 7       |  |  |

Card Type/: Analog IN/ 8

| TAG      |           |                           |            |       |          | DESCRIPTION                     |     | LOCATION     | JB No.     | SIGNAL CATEGORY | SIGNAL TYPE | RELAY OUTPUT | POWER SUPPLY |   |   |    | RACK | SLOT  | CHANNEL |  |  |
|----------|-----------|---------------------------|------------|-------|----------|---------------------------------|-----|--------------|------------|-----------------|-------------|--------------|--------------|---|---|----|------|-------|---------|--|--|
| PT-61111 | Propylene | VD-GPIC-MA-3029-3029-0015 | FLOAT/REAL | FIELD | UCP-6101 | COMPRESSOR -A- SUCTION PRESSURE | Bar | COMP SKID    | JB-UIA-611 | AIR             | 4-20mA      | -            | PW400        | H | S | IS | 2    | 12,13 | 0       |  |  |
| PT-61121 | Propylene | VD-GPIC-MA-3029-3029-0015 | FLOAT/REAL | FIELD | UCP-6101 | COMPRESSOR -B- SUCTION PRESSURE | Bar | COMP SKID    | JB-UIA-621 | AIR             | 4-20mA      | -            | PW400        | H | S | IS | 2    | 12,13 | 1       |  |  |
| LT-61131 | Propylene | VD-GPIC-MA-3029-3029-0015 | FLOAT/REAL | FIELD | UCP-6101 | OIL SEPARATOR LEVEL             | %   | COMP SKID    | JB-UIA-611 | AIR             | 4-20mA      | -            | PW400        | H | S | IS | 2    | 12,13 | 2       |  |  |
| LT-61151 | Propylene | VD-GPIC-MA-3029-3029-0015 | FLOAT/REAL | FIELD | UCP-6101 | CHILLER LEVEL                   | %   | VESSELS SKID | JB-UIA-641 | AIR             | 4-20mA      | -            | PW400        | H | S | IS | 2    | 12,13 | 3       |  |  |
|          |           |                           |            |       |          | SPARE                           |     |              |            |                 |             |              |              |   |   |    | 2    | 12,13 | 4       |  |  |
|          |           |                           |            |       |          | SPARE                           |     |              |            |                 |             |              |              |   |   |    | 2    | 12,13 | 5       |  |  |
|          |           |                           |            |       |          | SPARE                           |     |              |            |                 |             |              |              |   |   |    | 2    | 12,13 | 6       |  |  |
|          |           |                           |            |       |          | SPARE                           |     |              |            |                 |             |              |              |   |   |    | 2    | 12,13 | 7       |  |  |

Card Type: Analog OUT 4

| TAG |  |  |  |  |  | DESCRIPTION |  | LOCATION | JB No. | SIGNAL CATEGORY | SIGNAL TYPE | RELAY OUTPUT | POWER SUPPLY |  |  |  | RACK | SLOT | CHANNEL |  |  |
|-----|--|--|--|--|--|-------------|--|----------|--------|-----------------|-------------|--------------|--------------|--|--|--|------|------|---------|--|--|
|-----|--|--|--|--|--|-------------|--|----------|--------|-----------------|-------------|--------------|--------------|--|--|--|------|------|---------|--|--|



## Gachsaran Polymer Industries Company HDPE Plant

### I/O list for Refrigerator Package



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|          |           |                           |            |          |       |                                      |   |              |            |     |         |   |   |   |   |    |   |       |   |  |  |
|----------|-----------|---------------------------|------------|----------|-------|--------------------------------------|---|--------------|------------|-----|---------|---|---|---|---|----|---|-------|---|--|--|
| PV-61151 | Propylene | VD-GPIC-MA-3029-3029-0015 | FLOAT/REAL | UCP-6101 | FIELD | HOT GAS BYPASS CONTROL VALVE         | % | VESSELS SKID | JB-UIA-641 | AOR | 4-20 mA | - | - | H | S | IS | 2 | 14,15 | 0 |  |  |
| LV-61151 | Propylene | VD-GPIC-MA-3029-3029-0015 | FLOAT/REAL | UCP-6101 | FIELD | CHILLER LEVEL CONTROL VALVE          | % | VESSELS SKID | JB-UIA-641 | AOR | 4-20 mA | - | - | H | S | IS | 2 | 14,15 | 1 |  |  |
| TV-61141 | Propylene | VD-GPIC-MA-3029-3029-0015 | FLOAT/REAL | UCP-6102 | FIELD | ECONOMIZER TEMPERATURE CONTROL VALVE | % | VESSELS SKID | JB-UIA-641 | AOR | 4-20 mA | - | - | H | S | IS | 2 | 14,15 | 2 |  |  |
|          |           |                           |            |          |       | SPARE                                |   |              |            | AOR | 4-20 mA |   | - |   |   |    | 2 | 14,15 | 3 |  |  |

Note (1)- Barrier converter installed in UCP to convert PT100 Signal to 4-20mA signal

ULT003 - PLC I/O LIST  
COUNT IS PER UNIT

AI : Analog Input  
AO : Analog Output  
H : Hardwire  
S : Serial  
DI: Digital Input  
DO: Digital Output  
DCS : Data Control Center  
MCC : Motor Control Center  
UCP-6101 : Unit Control Panel  
LCP : Local Control Station  
PLC : Programmable Logic Controller  
PW400 : POWER SUPPLY 400 W

AIR: Analog Input Redundancy  
AOR: Analog Output Redundancy  
DIR: Digital Input Redundancy  
DOR: Digital Output Redundancy  
NO: Normally Open  
NC: Normally Close  
NDE: Normally De- Energize  
NE: Normally Energize

This IO List is a document containing list of instrumentation which serve as input or output of control system.