



ASPC Project



| | |
|------------------------------|-----------------------------------|
| END CUSTOMER | : Arya Sasol Polymer Company |
| CONTRACTOR | : DYPNF Co., Ltd. |
| VENDOR NAME | : Airpack Netherlands BV |
| EQUIPMENT DESCRIPTION | : Screw Compressor & Roots Blower |
| PURCHASE ORDER NUMBER | : PO-PC2312-08 |

Customer Document : 3944-VD-0171-DYP-RE-400-LST-0080
Number

Airpack Document Number : 23383-06

Document Title : I/O List

| Review Code and Status | | Contractor Initials/Signature | Date signed |
|--------------------------|--|----------------------------------|----------------|
| <input type="checkbox"/> | Code 1 REJECTED - Vendor to revise and Resubmit. Work cannot proceed | | |
| <input type="checkbox"/> | Code 2 Comments As Noted - Work May proceed, subject to compliance with and incorporation of comments | | |
| <input type="checkbox"/> | Code 3 No Comments - Work may proceed. | | |
| <input type="checkbox"/> | Code 4 Information only - Review not required. | | |

| | | | | | |
|----------|---------------------|------------|-------------|------------|-------------|
| 01 | Issued for Approval | 12-05-2025 | SC | SC | JJ |
| 00 | Issued for Approval | 10-03-2025 | MS | SC | JJ |
| Rev. No. | Description | Date | Prepared by | Checked by | Approved by |

I/O SUMMARY for POWDER Transfer Package

PROJECT : 300 KT POLYETHYLENE PLANT ARYA SASOL POLYMER COMPANY (ASPC)

| DESCRIPTION | DI | DO | AI | AO | SUM | REMARK |
|--------------|----------|----------|------------|----------|------------|----------------|
| 44C-40001A | 0 | 0 | 14 | 0 | 14 | 8x RTD |
| 44C-40001B | 0 | 0 | 14 | 0 | 14 | 8x RTD |
| 44C-80001A | 0 | 0 | 14 | 0 | 14 | 8x RTD |
| 44C-80001B | 0 | 0 | 14 | 0 | 14 | 8x RTD |
| 44C-80002A | 0 | 0 | 12 | 0 | 12 | 8x RTD |
| 44C-80002B | 0 | 0 | 12 | 0 | 12 | 8x RTD |
| 44C-80004A | 0 | 0 | 14 | 0 | 14 | 8x RTD |
| 44C-80004B | 0 | 0 | 14 | 0 | 14 | 8x RTD |
| 44C-80005A | 0 | 0 | 14 | 0 | 14 | 8x RTD |
| 44C-80005B | 0 | 0 | 14 | 0 | 14 | 8x RTD |
| 44C-80005C | 0 | 0 | 14 | 0 | 14 | 8x RTD |
| TOTAL | 0 | 0 | 150 | 0 | 150 | 88x RTD |

Note.

* It's actual I/O points.

The DCS/ESD System has to have 20% spare points.

DESCRIPTION and USER'S GUIDE for IO LIST

1. General Notes

- 1) This list applies to measurements and devices to be monitored and controlled by the DCS.
- 2) For preparing the measurement List, the following format and description are to be used as guide-lines.

2. Format and guide-lines to fill out

| NO | TAG NO | SERVICE DESCRIPTION | FROM /TO | RANGE | UNIT | SET POINT | | | | SIGNAL TYPE | PWR SRC | I/O TYPE | CONT -ACT | FUNCTION | | | | | | INST TYPE | IS/NIS | VALVE ACTION | LOOP TAG NO | JUNCTI ON BOX | P & ID | LOGIC / LOOP NO | REMARK |
|-----|--------|---------------------|----------|-------|------|-----------|---|---|----|-------------|---------|----------|-----------|----------|---|---|---|---|-----|-----------|--------|--------------|-------------|---------------|--------|-----------------|--------|
| | | | | | | LL | L | H | HH | | | | | C | I | R | A | Z | SOE | | | | | | | | |
| (1) | (2) | (3) | (4) | (5) | (6) | (7) | | | | (8) | (9) | (10) | (11) | (12) | | | | | | (13) | (14) | (15) | (16) | (17) | (18) | (19) | (20) |

(1) NO : Serial Number

(2) ID NO : Identification Number (20 digits with dash mark)

(3) SERVICE DESCRIPTION

Service description of instrument or device is specified.

(4) FROM/TO (5 digits)

"FROM" means the source of DCS input signal and "TO" means the destination of DCS output signal as follows ;

| | |
|--|---|
| FLD : FIELD (OR LOCAL) | BC : BATTERY CHARGER |
| MCC : MOTOR CONTROL CENTER | DG : DIESEL GENERATOR |
| SG : SWITCHGEAR | PRP : PROTECTION RELAY PANEL |
| LC : LOAD CENTER | TDP : TRANSDUCER PANEL |
| CCB : CENTRAL CONTROL BUILDING | TPP : T/L PROTECTION PANEL |
| LCP : LOCAL CONTROL PANEL | BFP : BREAKER FAILURE PANEL |
| EPLC : ELECTRIC PROGRAMMABLE LOGIC CONTROLLER | |
| BPP : BUS PROTECTION PANEL | DP : DISTRIBUTION PANEL |
| UPS : UNINTERRUPTIBLE POWER SYSTEM | VR : VOLTAGE REGULATOR SYSTEM |
| ANN : PLANT ANNUNCIATOR SYSTEM | COAL : COAL HANDLING SYSEM |
| ELE : ELECTRICAL AUX RELAY | DCS : DISTRIBUTED CONTROL SYSTEM |
| VMS : VIBRATION MONITORING SYSTEM | ESD : EMERGENCY SHUTDOWN |
| ECMS : ELECTRICAL CONTROL AND MONITORING SYSTEM | |
| PTC : PULSE TIMER CONTROLLER | MCC-VFD : Variable frequency drive located in substation |
| LCS : LOCAL CONTROL STATION | RLY : INTERPOSING RELAY CABINET |

DESCRIPTION and USER'S GUIDE for IO LIST

(5) RANGE (20 digits)

Process variable range is specified.(for example 300 ~ 10,000)

(6) UNIT (8 digits)

The engineering units used in this list are as follows ;

| <u>ORIGINAL UNIT</u> | <u>DESCRIPTION USED</u> | <u>ORIGINAL UNIT</u> | <u>DESCRIPTION USED</u> |
|----------------------|-------------------------|-----------------------|-------------------------|
| bar gage | bar.g (mbar.g) | Megawatt | MW |
| Vacuum | mbar.a | Hertz | Hz, KHz |
| °C (Degree C) | °C | Percent | % |
| millimeter, inch | MM, IN | micro mho/Cm | UMHO |
| Meter | M | kcal/hour | KC/H |
| part(s) per million | PPM | revolution per minute | RPM |
| part(s) per billion | PPB | Ton/Hour | T/H |
| pH | PH | kg/hour | KG/H |
| Volt | V | liter/minute | L/M |
| Kilovolt | KV | | |
| Ampere | A | | |

(7) SET POINT

This column shows the software threshold value in analog input for alarm or interlock purpose.

- HH : High-High Alarming
- H : High Alarming
- L : Low Alarming
- LL : Low-Low Alarming

(8) SIGNAL TYPE (6 digits)

The type of input/output signal is specified as follows ;

- 4~20mA : 4-20 mA with HART protocol
- NAMUR : NAMUR for proximity switches
- 24V DC : 24V DC binary signals
- VFC : Volt Free Contact

(9) PWR SRC : Power source (1 digit)

The power source of signal is specified as follows ;

- . I : INTERNAL POWER SUPPLIED FROM DCS
- . E : EXTERNAL POWER SUPPLIED FROM OUTSIDE OF DCS

(10) I/O TYPE (2 digits)

The signal type of input or output is specified as follows :

- . AI : ANALOG INPUT
- . AO : ANALOG OUTPUT
- . DI : DIGITAL INPUT
- . DO : DIGITAL OUTPUT

(11) CONTACT : Contact type (2 digits)

The status of digital contact is specified when the equipment is de-energized, closed or stopped etc.

- . NO : NORMALLY OPEN CONTACT
- . NC : NORMALLY CLOSED CONTACT

DESCRIPTION and USER'S GUIDE for IO LIST

(12) FUNCTION

The function of I/O Signal is marked in appropriate column. This column shows variable function displayed on LED of DCS.

The Function on this column refers as follows;

- C : Controlling
- I : Indicating
- R : Recording or Trending
- A : Alarm
- Z : Plant Protection
- SOE : Sequence of Event

(13) INST TYPE

The description of Tag No.

(14) IS/NIS

The Ex. Protection types

(15) VALVE ACTION

Valve action(Fail Position) is specified.

(16) LOOP TAG NO.

Loop tag number is specified.

(17) JUNCTION BOX NO.

Junction box number is specified.

(18) P & ID NO.

P&ID drawing number is specified.

(19) LOGIC / LOOP NO.

Logic/Loop drawing number is specified.

(20) REMARK

Additional information is described.



PROJECT NO. : 3944
 MR NO. : 171
 DOC TITLE : IO LIST (POWDER)
 DOC NO. : 3944-VD-0171-DYP-RE-400-LST-0080
 REV : 01

IO LIST FOR POWDER TRANSFER PACKAGE



| NO | ad | SERVICE DESCRIPTION | FROM /TO | RANGE | UNIT | SIGNAL TYPE | PWR SRC | I/O TYPE | CONT -ACT | FUNCTION | | | | | | INST TYPE | IS / NIS | VALVE ACTION | LOOP TAG NO. | JUNCTION BOX NO. | P&ID NO. | LOGIC NO. (3944-VD-0171-DYP-RE-400-DIA-0083 Sh.NNN) | REMARK |
|--------------------|--------------------|-----------------------------------|-----------|-------|-------|-------------|---------|----------|-----------|----------|---|---|---|---|-----|-------------------------|----------|--------------|--------------|------------------|----------|--|--------|
| | | | | | | | | | | C | I | R | A | Z | SOE | | | | | | | | |
| Instruments | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 44 PT - 40010 03 | INLET PRESSURE | FLD / DCS | X-Y | bar.g | 4-20mA | I | AI | - | | O | | | | | PRESSURE TRANSMITTER | IS | - | by other | by other | 40001 | LATER | |
| 2 | 44 TT - 40010 56 | OIL TEMPERATURE | FLD / DCS | X-Y | °C | 4-20mA | I | AI | - | | O | | | | | TEMPERATURE TRANSMITTER | IS | - | by other | by other | 40001 | LATER | |
| 3 | 44 PT - 40010 54 | OIL PRESSURE | FLD / DCS | X-Y | bar.g | 4-20mA | I | AI | - | | O | | | | | PRESSURE TRANSMITTER | IS | - | by other | by other | 40001 | LATER | |
| 4 | 44 PT - 40010 11 | DISCHARGE PRESSURE | FLD / DCS | X-Y | bar.g | 4-20mA | I | AI | - | | O | | | | | PRESSURE TRANSMITTER | IS | - | by other | by other | 40001 | LATER | |
| 5 | 44 TT - 40010 57 | DISCHARGE TEMPERATURE | FLD / DCS | X-Y | °C | 4-20mA | I | AI | - | | O | | | | | TEMPERATURE TRANSMITTER | IS | - | by other | by other | 40001 | LATER | |
| 6 | 44 TT - 40010 01 | ENCLOSURE TEMPERATURE | FLD / DCS | X-Y | °C | 4-20mA | I | AI | - | | O | | | | | TEMPERATURE TRANSMITTER | IS | - | by other | by other | 40001 | LATER | |
| 7 | 44 TE - 40010 61 A | WINDING RTD PHASE A SLOT 1 | FLD / MCC | X-Y | °C | RTD | E | AI | - | | | | | | | RTD | NIS | - | by other | by other | 40001 | LATER | |
| 8 | 44 TE - 40010 61 B | WINDING RTD PHASE A SLOT 2 | FLD / MCC | X-Y | °C | RTD | E | AI | - | | | | | | | RTD | NIS | - | by other | by other | 40001 | LATER | |
| 9 | 44 TE - 40010 62 A | WINDING RTD PHASE B SLOT 1 | FLD / MCC | X-Y | °C | RTD | E | AI | - | | | | | | | RTD | NIS | - | by other | by other | 40001 | LATER | |
| 10 | 44 TE - 40010 62 B | WINDING RTD PHASE B SLOT 2 | FLD / MCC | X-Y | °C | RTD | E | AI | - | | | | | | | RTD | NIS | - | by other | by other | 40001 | LATER | |
| 11 | 44 TE - 40010 63 A | WINDING RTD PHASE C SLOT 1 | FLD / MCC | X-Y | °C | RTD | E | AI | - | | | | | | | RTD | NIS | - | by other | by other | 40001 | LATER | |
| 12 | 44 TE - 40010 63 B | WINDING RTD PHASE C SLOT 2 | FLD / MCC | X-Y | °C | RTD | E | AI | - | | | | | | | RTD | NIS | - | by other | by other | 40001 | LATER | |
| 13 | 44 TE - 40010 64 A | DRIVE END BEARING TEMPERATURE | FLD / MCC | X-Y | °C | RTD | E | AI | - | | | | | | | RTD | NIS | - | by other | by other | 40001 | LATER | |
| 14 | 44 TE - 40010 64 B | NON-DRIVE END BEARING TEMPERATURE | FLD / MCC | X-Y | °C | RTD | E | AI | - | | | | | | | RTD | NIS | - | by other | by other | 40001 | LATER | |



PROJECT NO. : 3944
 MR NO. : 171
 DOC TITLE : IO LIST (POWDER)
 DOC NO. : 3944-VD-0171-DYP-RE-400-LST-0080
 REV : 01

IO LIST FOR POWDER TRANSFER PACKAGE



| NO | TAG NO. | SERVICE DESCRIPTION | FROM /TO | RANGE | UNIT | SIGNAL TYPE | PWR SRC | I/O TYPE | CONT -ACT | FUNCTION | | | | | | INST TYPE | IS / NIS | VALVE ACTION | LOOP TAG NO. | JUNCTION BOX NO. | P&ID NO. | LOGIC NO. (3944-VD-0171-DYP-RE-400-DIA-0083 Sh.NNN) | REMARK |
|--------------------|--------------------|-----------------------------------|-----------|-------|-------|-------------|---------|----------|-----------|----------|---|---|---|---|-----|-------------------------|----------|--------------|--------------|------------------|----------|--|--------|
| | | | | | | | | | | C | I | R | A | Z | SOE | | | | | | | | |
| Instruments | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 44 PT - 40020 03 | INLET PRESSURE | FLD / DCS | X-Y | bar.g | 4-20mA | I | AI | - | | O | | | | | PRESSURE TRANSMITTER | IS | - | by other | by other | 40001 | LATER | |
| 2 | 44 TT - 40020 56 | OIL TEMPERATURE | FLD / DCS | X-Y | °C | 4-20mA | I | AI | - | | O | | | | | TEMPERATURE TRANSMITTER | IS | - | by other | by other | 40001 | LATER | |
| 3 | 44 PT - 40020 05 | OIL PRESSURE | FLD / DCS | X-Y | bar.g | 4-20mA | I | AI | - | | O | | | | | PRESSURE TRANSMITTER | IS | - | by other | by other | 40001 | LATER | |
| 4 | 44 PT - 40020 01 | DISCHARGE PRESSURE | FLD / DCS | X-Y | bar.g | 4-20mA | I | AI | - | | O | | | | | PRESSURE TRANSMITTER | IS | - | by other | by other | 40001 | LATER | |
| 5 | 44 TT - 40020 57 | DISCHARGE TEMPERATURE | FLD / DCS | X-Y | °C | 4-20mA | I | AI | - | | O | | | | | TEMPERATURE TRANSMITTER | IS | - | by other | by other | 40001 | LATER | |
| 6 | 44 TT - 40020 01 | ENCLOSURE TEMPERATURE | FLD / DCS | X-Y | °C | 4-20mA | I | AI | - | | O | | | | | TEMPERATURE TRANSMITTER | IS | - | by other | by other | 40001 | LATER | |
| 7 | 44 TE - 40020 61 A | WINDING RTD PHASE A SLOT 1 | FLD / MCC | X-Y | °C | RTD | E | AI | - | | | | | | | RTD | NIS | - | by other | by other | 40001 | LATER | |
| 8 | 44 TE - 40020 61 B | WINDING RTD PHASE A SLOT 2 | FLD / MCC | X-Y | °C | RTD | E | AI | - | | | | | | | RTD | NIS | - | by other | by other | 40001 | LATER | |
| 9 | 44 TE - 40020 62 A | WINDING RTD PHASE B SLOT 1 | FLD / MCC | X-Y | °C | RTD | E | AI | - | | | | | | | RTD | NIS | - | by other | by other | 40001 | LATER | |
| 10 | 44 TE - 40020 62 B | WINDING RTD PHASE B SLOT 2 | FLD / MCC | X-Y | °C | RTD | E | AI | - | | | | | | | RTD | NIS | - | by other | by other | 40001 | LATER | |
| 11 | 44 TE - 40020 63 A | WINDING RTD PHASE C SLOT 1 | FLD / MCC | X-Y | °C | RTD | E | AI | - | | | | | | | RTD | NIS | - | by other | by other | 40001 | LATER | |
| 12 | 44 TE - 40020 63 B | WINDING RTD PHASE C SLOT 2 | FLD / MCC | X-Y | °C | RTD | E | AI | - | | | | | | | RTD | NIS | - | by other | by other | 40001 | LATER | |
| 13 | 44 TE - 40020 64 A | DRIVE END BEARING TEMPERATURE | FLD / MCC | X-Y | °C | RTD | E | AI | - | | | | | | | RTD | NIS | - | by other | by other | 40001 | LATER | |
| 14 | 44 TE - 40020 64 B | NON-DRIVE END BEARING TEMPERATURE | FLD / MCC | X-Y | °C | RTD | E | AI | - | | | | | | | RTD | NIS | - | by other | by other | 40001 | LATER | |



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| NO | TAG NO. | SERVICE DESCRIPTION | FROM /TO | RANGE | UNIT | SIGNAL TYPE | PWR SRC | I/O TYPE | CONT -ACT | FUNCTION | | | | | | INST TYPE | IS / NIS | VALVE ACTION | LOOP TAG NO. | JUNCTION BOX NO. | P&ID NO. | LOGIC NO. (3944-VD-0171-DYP-RE-400-DIA-0083 Sh.NNN) | REMARK |
|--------------------|--------------------|-----------------------------------|-----------|-------|-------|-------------|---------|----------|-----------|----------|---|---|---|---|-----|-----------------------------------|----------|--------------|--------------|------------------|----------|--|--------|
| | | | | | | | | | | C | I | R | A | Z | SOE | | | | | | | | |
| Instruments | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 44 PDT - 80040 01 | INLET DIFFERENTIAL PRESSURE | FLD / DCS | X-Y | bar | 4-20mA | I | AI | - | | O | | | | | DIFFERENTIAL PRESSURE TRANSMITTER | IS | - | by other | by other | 40001 | LATER | |
| 2 | 44 PT - 80040 01 | INLET PRESSURE | FLD / DCS | X-Y | bar.g | 4-20mA | I | AI | - | | O | | | | | PRESSURE TRANSMITTER | IS | - | by other | by other | 40001 | LATER | |
| 3 | 44 TT - 80040 41 | OIL TEMPERATURE | FLD / DCS | X-Y | °C | 4-20mA | I | AI | - | | O | | | | | TEMPERATURE TRANSMITTER | IS | - | by other | by other | 40001 | LATER | |
| 4 | 44 PT - 80040 41 | OIL PRESSURE | FLD / DCS | X-Y | bar.g | 4-20mA | I | AI | - | | O | | | | | PRESSURE TRANSMITTER | IS | - | by other | by other | 40001 | LATER | |
| 5 | 44 PT - 80040 02 | DISCHARGE PRESSURE | FLD / DCS | X-Y | bar.g | 4-20mA | I | AI | - | | O | | | | | PRESSURE TRANSMITTER | IS | - | by other | by other | 40001 | LATER | |
| 6 | 44 TT - 80040 01 | DISCHARGE TEMPERATURE | FLD / DCS | X-Y | °C | 4-20mA | I | AI | - | | O | | | | | TEMPERATURE TRANSMITTER | IS | - | by other | by other | 40001 | LATER | |
| 7 | 44 TE - 80040 61 A | WINDING RTD PHASE A SLOT 1 | FLD / MCC | X-Y | °C | RTD | E | AI | - | | | | | | | RTD | NIS | - | by other | by other | 40001 | LATER | |
| 8 | 44 TE - 80040 61 B | WINDING RTD PHASE A SLOT 2 | FLD / MCC | X-Y | °C | RTD | E | AI | - | | | | | | | RTD | NIS | - | by other | by other | 40001 | LATER | |
| 9 | 44 TE - 80040 62 A | WINDING RTD PHASE B SLOT 1 | FLD / MCC | X-Y | °C | RTD | E | AI | - | | | | | | | RTD | NIS | - | by other | by other | 40001 | LATER | |
| 10 | 44 TE - 80040 62 B | WINDING RTD PHASE B SLOT 2 | FLD / MCC | X-Y | °C | RTD | E | AI | - | | | | | | | RTD | NIS | - | by other | by other | 40001 | LATER | |
| 11 | 44 TE - 80040 63 A | WINDING RTD PHASE C SLOT 1 | FLD / MCC | X-Y | °C | RTD | E | AI | - | | | | | | | RTD | NIS | - | by other | by other | 40001 | LATER | |
| 12 | 44 TE - 80040 63 B | WINDING RTD PHASE C SLOT 2 | FLD / MCC | X-Y | °C | RTD | E | AI | - | | | | | | | RTD | NIS | - | by other | by other | 40001 | LATER | |
| 13 | 44 TE - 80040 64 A | DRIVE END BEARING TEMPERATURE | FLD / MCC | X-Y | °C | RTD | E | AI | - | | | | | | | RTD | NIS | - | by other | by other | 40001 | LATER | |
| 14 | 44 TE - 80040 64 B | NON-DRIVE END BEARING TEMPERATURE | FLD / MCC | X-Y | °C | RTD | E | AI | - | | | | | | | RTD | NIS | - | by other | by other | 40001 | LATER | |



PROJECT NO. : 3944
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IO LIST FOR POWDER TRANSFER PACKAGE



| NO | TAG NO. | SERVICE DESCRIPTION | FROM /TO | RANGE | UNIT | SIGNAL TYPE | PWR SRC | I/O TYPE | CONT -ACT | FUNCTION | | | | | | INST TYPE | IS / NIS | VALVE ACTION | LOOP TAG NO. | JUNCTION BOX NO. | P&ID NO. | LOGIC NO. (3944-VD-0171-DYP-RE-400-DIA-0083 Sh.NNN) | REMARK |
|--------------------|--------------------|-----------------------------------|-----------|-------|-------|-------------|---------|----------|-----------|----------|---|---|---|---|-----|-----------------------------------|----------|--------------|--------------|------------------|----------|--|--------|
| | | | | | | | | | | C | I | R | A | Z | SOE | | | | | | | | |
| Instruments | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 44 PDT - 80040 02 | INLET DIFFERENTIAL PRESSURE | FLD / DCS | X-Y | bar | 4-20mA | I | AI | - | | O | | | | | DIFFERENTIAL PRESSURE TRANSMITTER | IS | - | by other | by other | 40001 | LATER | |
| 2 | 44 PT - 80040 03 | INLET PRESSURE | FLD / DCS | X-Y | bar.g | 4-20mA | I | AI | - | | O | | | | | PRESSURE TRANSMITTER | IS | - | by other | by other | 40001 | LATER | |
| 3 | 44 TT - 80040 42 | OIL TEMPERATURE | FLD / DCS | X-Y | °C | 4-20mA | I | AI | - | | O | | | | | TEMPERATURE TRANSMITTER | IS | - | by other | by other | 40001 | LATER | |
| 4 | 44 PT - 80040 42 | OIL PRESSURE | FLD / DCS | X-Y | bar.g | 4-20mA | I | AI | - | | O | | | | | PRESSURE TRANSMITTER | IS | - | by other | by other | 40001 | LATER | |
| 5 | 44 PT - 80040 04 | DISCHARGE PRESSURE | FLD / DCS | X-Y | bar.g | 4-20mA | I | AI | - | | O | | | | | PRESSURE TRANSMITTER | IS | - | by other | by other | 40001 | LATER | |
| 6 | 44 TT - 80040 03 | DISCHARGE TEMPERATURE | FLD / DCS | X-Y | °C | 4-20mA | I | AI | - | | O | | | | | TEMPERATURE TRANSMITTER | IS | - | by other | by other | 40001 | LATER | |
| 7 | 44 TE - 80040 65 A | WINDING RTD PHASE A SLOT 1 | FLD / MCC | X-Y | °C | RTD | E | AI | - | | | | | | | RTD | NIS | - | by other | by other | 40001 | LATER | |
| 8 | 44 TE - 80040 65 B | WINDING RTD PHASE A SLOT 2 | FLD / MCC | X-Y | °C | RTD | E | AI | - | | | | | | | RTD | NIS | - | by other | by other | 40001 | LATER | |
| 9 | 44 TE - 80040 66 A | WINDING RTD PHASE B SLOT 1 | FLD / MCC | X-Y | °C | RTD | E | AI | - | | | | | | | RTD | NIS | - | by other | by other | 40001 | LATER | |
| 10 | 44 TE - 80040 66 B | WINDING RTD PHASE B SLOT 2 | FLD / MCC | X-Y | °C | RTD | E | AI | - | | | | | | | RTD | NIS | - | by other | by other | 40001 | LATER | |
| 11 | 44 TE - 80040 67 A | WINDING RTD PHASE C SLOT 1 | FLD / MCC | X-Y | °C | RTD | E | AI | - | | | | | | | RTD | NIS | - | by other | by other | 40001 | LATER | |
| 12 | 44 TE - 80040 67 B | WINDING RTD PHASE C SLOT 2 | FLD / MCC | X-Y | °C | RTD | E | AI | - | | | | | | | RTD | NIS | - | by other | by other | 40001 | LATER | |
| 13 | 44 TE - 80040 68 A | DRIVE END BEARING TEMPERATURE | FLD / MCC | X-Y | °C | RTD | E | AI | - | | | | | | | RTD | NIS | - | by other | by other | 40001 | LATER | |
| 14 | 44 TE - 80040 68 B | NON-DRIVE END BEARING TEMPERATURE | FLD / MCC | X-Y | °C | RTD | E | AI | - | | | | | | | RTD | NIS | - | by other | by other | 40001 | LATER | |

| NO | TAG NO. | SERVICE DESCRIPTION | FROM /TO | RANGE | UNIT | SIGNAL TYPE | PWR SRC | I/O TYPE | CONT -ACT | FUNCTION | | | | | | INST TYPE | IS / NIS | VALVE ACTION | LOOP TAG NO. | JUNCTION BOX NO. | P&ID NO. | LOGIC NO. (3944-VD-0171-DYP-RE-400-DIA-0083 Sh.NNN) | REMARK |
|--------------------|--------------------|-----------------------------------|-----------|-------|-------|-------------|---------|----------|-----------|----------|---|---|---|---|-----------------------------------|-----------|----------|--------------|--------------|------------------|----------|--|--------|
| | | | | | | | | | | C | I | R | A | Z | SOE | | | | | | | | |
| Instruments | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 44 PDT - 80040 03 | INLET DIFFERENTIAL PRESSURE | FLD / DCS | X-Y | bar | 4-20mA | I | AI | - | | O | O | | | DIFFERENTIAL PRESSURE TRANSMITTER | IS | - | by other | by other | 40001 | LATER | | |
| 2 | 44 PT - 80040 05 | INLET PRESSURE | FLD / DCS | X-Y | bar.g | 4-20mA | I | AI | - | | O | O | | | PRESSURE TRANSMITTER | IS | - | by other | by other | 40001 | LATER | | |
| 3 | 44 PT - 80040 06 | DISCHARGE PRESSURE | FLD / DCS | X-Y | bar.g | 4-20mA | I | AI | - | | O | O | | | PRESSURE TRANSMITTER | IS | - | by other | by other | 40001 | LATER | | |
| 4 | 44 TT - 80040 05 | DISCHARGE TEMPERATURE | FLD / DCS | X-Y | °C | 4-20mA | I | AI | - | | O | | | | PRESSURE TRANSMITTER | IS | - | by other | by other | 40001 | LATER | | |
| 5 | 44 TE - 80040 69 A | WINDING RTD PHASE A SLOT 1 | FLD / MCC | X-Y | °C | RTD | E | AI | - | | | | | | RTD | NIS | - | by other | by other | 40001 | LATER | | |
| 6 | 44 TE - 80040 69 B | WINDING RTD PHASE A SLOT 2 | FLD / MCC | X-Y | °C | RTD | E | AI | - | | | | | | RTD | NIS | - | by other | by other | 40001 | LATER | | |
| 7 | 44 TE - 80040 70 A | WINDING RTD PHASE B SLOT 1 | FLD / MCC | X-Y | °C | RTD | E | AI | - | | | | | | RTD | NIS | - | by other | by other | 40001 | LATER | | |
| 8 | 44 TE - 80040 70 B | WINDING RTD PHASE B SLOT 2 | FLD / MCC | X-Y | °C | RTD | E | AI | - | | | | | | RTD | NIS | - | by other | by other | 40001 | LATER | | |
| 9 | 44 TE - 80040 71 A | WINDING RTD PHASE C SLOT 1 | FLD / MCC | X-Y | °C | RTD | E | AI | - | | | | | | RTD | NIS | - | by other | by other | 40001 | LATER | | |
| 10 | 44 TE - 80040 71 B | WINDING RTD PHASE C SLOT 2 | FLD / MCC | X-Y | °C | RTD | E | AI | - | | | | | | RTD | NIS | - | by other | by other | 40001 | LATER | | |
| 11 | 44 TE - 80040 72 A | DRIVE END BEARING TEMPERATURE | FLD / MCC | X-Y | °C | RTD | E | AI | - | | | | | | RTD | NIS | - | by other | by other | 40001 | LATER | | |
| 12 | 44 TE - 80040 72 B | NON-DRIVE END BEARING TEMPERATURE | FLD / MCC | X-Y | °C | RTD | E | AI | - | | | | | | RTD | NIS | - | by other | by other | 40001 | LATER | | |
| 13 | | | | | | | | | | | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | | | | | | | | | | | |



PROJECT NO. : 3944
 MR NO. : 171
 DOC TITLE : IO LIST (POWDER)
 DOC NO. : 3944-VD-0171-DYP-RE-400-LST-0080
 REV : 01

IO LIST FOR POWDER TRANSFER PACKAGE



| NO | TAG NO. | SERVICE DESCRIPTION | FROM /TO | RANGE | UNIT | SIGNAL TYPE | PWR SRC | I/O TYPE | CONT -ACT | FUNCTION | | | | | | INST TYPE | IS / NIS | VALVE ACTION | LOOP TAG NO. | JUNCTION BOX NO. | P&ID NO. | LOGIC NO. (3944-VD-0171-DYP-RE-400-DIA-0083 Sh.NNN) | REMARK |
|--------------------|--------------------|-----------------------------------|-----------|-------|-------|-------------|---------|----------|-----------|----------|---|---|---|---|-----------------------------------|-----------|----------|--------------|--------------|------------------|----------|--|--------|
| | | | | | | | | | | C | I | R | A | Z | SOE | | | | | | | | |
| Instruments | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 44 PDT - 80040 04 | INLET DIFFERENTIAL PRESSURE | FLD / DCS | X-Y | bar | 4-20mA | I | AI | - | | O | O | | | DIFFERENTIAL PRESSURE TRANSMITTER | IS | - | by other | by other | 40001 | LATER | | |
| 2 | 44 PT - 80040 09 | INLET PRESSURE | FLD / DCS | X-Y | bar.g | 4-20mA | I | AI | - | | O | O | | | PRESSURE TRANSMITTER | IS | - | by other | by other | 40001 | LATER | | |
| 3 | 44 PT - 80040 10 | DISCHARGE PRESSURE | FLD / DCS | X-Y | bar.g | 4-20mA | I | AI | - | | O | O | | | PRESSURE TRANSMITTER | IS | - | by other | by other | 40001 | LATER | | |
| 4 | 44 TT - 80040 07 | DISCHARGE TEMPERATURE | FLD / DCS | X-Y | bar.g | 4-20mA | I | AI | - | | O | | | | PRESSURE TRANSMITTER | IS | - | by other | by other | 40001 | LATER | | |
| 5 | 44 TE - 80040 73 A | WINDING RTD PHASE A SLOT 1 | FLD / MCC | X-Y | °C | RTD | E | AI | - | | | | | | RTD | NIS | - | by other | by other | 40001 | LATER | | |
| 6 | 44 TE - 80040 73 B | WINDING RTD PHASE A SLOT 2 | FLD / MCC | X-Y | °C | RTD | E | AI | - | | | | | | RTD | NIS | - | by other | by other | 40001 | LATER | | |
| 7 | 44 TE - 80040 74 A | WINDING RTD PHASE B SLOT 1 | FLD / MCC | X-Y | °C | RTD | E | AI | - | | | | | | RTD | NIS | - | by other | by other | 40001 | LATER | | |
| 8 | 44 TE - 80040 74 B | WINDING RTD PHASE B SLOT 2 | FLD / MCC | X-Y | °C | RTD | E | AI | - | | | | | | RTD | NIS | - | by other | by other | 40001 | LATER | | |
| 9 | 44 TE - 80040 75 A | WINDING RTD PHASE C SLOT 1 | FLD / MCC | X-Y | °C | RTD | E | AI | - | | | | | | RTD | NIS | - | by other | by other | 40001 | LATER | | |
| 10 | 44 TE - 80040 75 B | WINDING RTD PHASE C SLOT 2 | FLD / MCC | X-Y | °C | RTD | E | AI | - | | | | | | RTD | NIS | - | by other | by other | 40001 | LATER | | |
| 11 | 44 TE - 80040 76 A | DRIVE END BEARING TEMPERATURE | FLD / MCC | X-Y | °C | RTD | E | AI | - | | | | | | RTD | NIS | - | by other | by other | 40001 | LATER | | |
| 12 | 44 TE - 80040 76 B | NON-DRIVE END BEARING TEMPERATURE | FLD / MCC | X-Y | °C | RTD | E | AI | - | | | | | | RTD | NIS | - | by other | by other | 40001 | LATER | | |
| 13 | | | | | | | | | | | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | | | | | | | | | | | |



PROJECT NO. : 3944
 MR NO. : 171
 DOC TITLE : IO LIST (POWDER)
 DOC NO. : 3944-VD-0171-DYP-RE-400-LST-0080
 REV : 01

IO LIST FOR POWDER TRANSFER PACKAGE



| NO | TAG NO. | SERVICE DESCRIPTION | FROM /TO | RANGE | UNIT | SIGNAL TYPE | PWR SRC | I/O TYPE | CONT -ACT | FUNCTION | | | | | | INST TYPE | IS / NIS | VALVE ACTION | LOOP TAG NO. | JUNCTION BOX NO. | P&ID NO. | LOGIC NO. (3944-VD-0171-DYP-RE-400-DIA-0083 Sh.NNN) | REMARK |
|--------------------|--------------------|-----------------------------------|-----------|-------|-------|-------------|---------|----------|-----------|----------|---|---|---|---|-----|-----------------------------------|----------|--------------|--------------|------------------|----------|--|--------|
| | | | | | | | | | | C | I | R | A | Z | SOE | | | | | | | | |
| Instruments | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 44 PDT - 80040 05 | INLET DIFFERENTIAL PRESSURE | FLD / DCS | X-Y | bar | 4-20mA | I | AI | - | | O | | | | | DIFFERENTIAL PRESSURE TRANSMITTER | IS | - | by other | by other | 40001 | LATER | |
| 2 | 44 PT - 80040 13 | INLET PRESSURE | FLD / DCS | X-Y | bar.g | 4-20mA | I | AI | - | | O | | | | | PRESSURE TRANSMITTER | IS | - | by other | by other | 40001 | LATER | |
| 3 | 44 TT - 80040 43 | OIL TEMPERATURE | FLD / DCS | X-Y | °C | 4-20mA | I | AI | - | | O | | | | | TEMPERATURE TRANSMITTER | IS | - | by other | by other | 40001 | LATER | |
| 4 | 44 PT - 80040 43 | OIL PRESSURE | FLD / DCS | X-Y | bar.g | 4-20mA | I | AI | - | | O | | | | | PRESSURE TRANSMITTER | IS | - | by other | by other | 40001 | LATER | |
| 5 | 44 PT - 80040 14 | DISCHARGE PRESSURE | FLD / DCS | X-Y | bar.g | 4-20mA | I | AI | - | | O | | | | | PRESSURE TRANSMITTER | IS | - | by other | by other | 40001 | LATER | |
| 6 | 44 TT - 80040 09 | DISCHARGE TEMPERATURE | FLD / DCS | X-Y | °C | 4-20mA | I | AI | - | | O | | | | | TEMPERATURE TRANSMITTER | IS | - | by other | by other | 40001 | LATER | |
| 7 | 44 TE - 80040 77 A | WINDING RTD PHASE A SLOT 1 | FLD / MCC | X-Y | °C | RTD | E | AI | - | | | | | | | RTD | NIS | - | by other | by other | 40001 | LATER | |
| 8 | 44 TE - 80040 77 B | WINDING RTD PHASE A SLOT 2 | FLD / MCC | X-Y | °C | RTD | E | AI | - | | | | | | | RTD | NIS | - | by other | by other | 40001 | LATER | |
| 9 | 44 TE - 80040 78 A | WINDING RTD PHASE B SLOT 1 | FLD / MCC | X-Y | °C | RTD | E | AI | - | | | | | | | RTD | NIS | - | by other | by other | 40001 | LATER | |
| 10 | 44 TE - 80040 78 B | WINDING RTD PHASE B SLOT 2 | FLD / MCC | X-Y | °C | RTD | E | AI | - | | | | | | | RTD | NIS | - | by other | by other | 40001 | LATER | |
| 11 | 44 TE - 80040 79 A | WINDING RTD PHASE C SLOT 1 | FLD / MCC | X-Y | °C | RTD | E | AI | - | | | | | | | RTD | NIS | - | by other | by other | 40001 | LATER | |
| 12 | 44 TE - 80040 79 B | WINDING RTD PHASE C SLOT 2 | FLD / MCC | X-Y | °C | RTD | E | AI | - | | | | | | | RTD | NIS | - | by other | by other | 40001 | LATER | |
| 13 | 44 TE - 80040 80 A | DRIVE END BEARING TEMPERATURE | FLD / MCC | X-Y | °C | RTD | E | AI | - | | | | | | | RTD | NIS | - | by other | by other | 40001 | LATER | |
| 14 | 44 TE - 80040 80 B | NON-DRIVE END BEARING TEMPERATURE | FLD / MCC | X-Y | °C | RTD | E | AI | - | | | | | | | RTD | NIS | - | by other | by other | 40001 | LATER | |



PROJECT NO. : 3944
 MR NO. : 171
 DOC TITLE : IO LIST (POWDER)
 DOC NO. : 3944-VD-0171-DYP-RE-400-LST-0080
 REV : 01

IO LIST FOR POWDER TRANSFER PACKAGE



| NO | TAG NO. | SERVICE DESCRIPTION | FROM /TO | RANGE | UNIT | SIGNAL TYPE | PWR SRC | I/O TYPE | CONT -ACT | FUNCTION | | | | | | INST TYPE | IS / NIS | VALVE ACTION | LOOP TAG NO. | JUNCTION BOX NO. | P&ID NO. | LOGIC NO. (3944-VD-0171-DYP-RE-400-DIA-0083 Sh.NNN) | REMARK |
|--------------------|--------------------|-----------------------------------|-----------|-------|-------|-------------|---------|----------|-----------|----------|---|---|---|---|-----|-----------------------------------|----------|--------------|--------------|------------------|----------|--|--------|
| | | | | | | | | | | C | I | R | A | Z | SOE | | | | | | | | |
| Instruments | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 44 PDT - 80040 06 | INLET DIFFERENTIAL PRESSURE | FLD / DCS | X-Y | bar | 4-20mA | I | AI | - | | O | | O | | | DIFFERENTIAL PRESSURE TRANSMITTER | IS | - | by other | by other | 40001 | LATER | |
| 2 | 44 PT - 80040 16 | INLET PRESSURE | FLD / DCS | X-Y | bar.g | 4-20mA | I | AI | - | | O | | O | | | PRESSURE TRANSMITTER | IS | - | by other | by other | 40001 | LATER | |
| 3 | 44 TT - 80040 44 | OIL TEMPERATURE | FLD / DCS | X-Y | °C | 4-20mA | I | AI | - | | O | | O | | | TEMPERATURE TRANSMITTER | IS | - | by other | by other | 40001 | LATER | |
| 4 | 44 PT - 80040 44 | OIL PRESSURE | FLD / DCS | X-Y | bar.g | 4-20mA | I | AI | - | | O | | O | | | PRESSURE TRANSMITTER | IS | - | by other | by other | 40001 | LATER | |
| 5 | 44 PT - 80040 17 | DISCHARGE PRESSURE | FLD / DCS | X-Y | bar.g | 4-20mA | I | AI | - | | O | | O | | | PRESSURE TRANSMITTER | IS | - | by other | by other | 40001 | LATER | |
| 6 | 44 TT - 80040 11 | DISCHARGE TEMPERATURE | FLD / DCS | X-Y | °C | 4-20mA | I | AI | - | | O | | O | | | TEMPERATURE TRANSMITTER | IS | - | by other | by other | 40001 | LATER | |
| 7 | 44 TE - 80040 81 A | WINDING RTD PHASE A SLOT 1 | FLD / MCC | X-Y | °C | RTD | E | AI | - | | | | | | | RTD | NIS | - | by other | by other | 40001 | LATER | |
| 8 | 44 TE - 80040 81 B | WINDING RTD PHASE A SLOT 2 | FLD / MCC | X-Y | °C | RTD | E | AI | - | | | | | | | RTD | NIS | - | by other | by other | 40001 | LATER | |
| 9 | 44 TE - 80040 82 A | WINDING RTD PHASE B SLOT 1 | FLD / MCC | X-Y | °C | RTD | E | AI | - | | | | | | | RTD | NIS | - | by other | by other | 40001 | LATER | |
| 10 | 44 TE - 80040 82 B | WINDING RTD PHASE B SLOT 2 | FLD / MCC | X-Y | °C | RTD | E | AI | - | | | | | | | RTD | NIS | - | by other | by other | 40001 | LATER | |
| 11 | 44 TE - 80040 83 A | WINDING RTD PHASE C SLOT 1 | FLD / MCC | X-Y | °C | RTD | E | AI | - | | | | | | | RTD | NIS | - | by other | by other | 40001 | LATER | |
| 12 | 44 TE - 80040 83 B | WINDING RTD PHASE C SLOT 2 | FLD / MCC | X-Y | °C | RTD | E | AI | - | | | | | | | RTD | NIS | - | by other | by other | 40001 | LATER | |
| 13 | 44 TE - 80040 84 A | DRIVE END BEARING TEMPERATURE | FLD / MCC | X-Y | °C | RTD | E | AI | - | | | | | | | RTD | NIS | - | by other | by other | 40001 | LATER | |
| 14 | 44 TE - 80040 84 B | NON-DRIVE END BEARING TEMPERATURE | FLD / MCC | X-Y | °C | RTD | E | AI | - | | | | | | | RTD | NIS | - | by other | by other | 40001 | LATER | |



PROJECT NO. : 3944
 MR NO. : 171
 DOC TITLE : IO LIST (POWDER)
 DOC NO. : 3944-VD-0171-DYP-RE-400-LST-0080
 REV : 01

IO LIST FOR POWDER TRANSFER PACKAGE



| NO | TAG NO. | SERVICE DESCRIPTION | FROM /TO | RANGE | UNIT | SIGNAL TYPE | PWR SRC | I/O TYPE | CONT -ACT | FUNCTION | | | | | | INST TYPE | IS / NIS | VALVE ACTION | LOOP TAG NO. | JUNCTION BOX NO. | P&ID NO. | LOGIC NO. (3944-VD-0171-DYP-RE-400-DIA-0083 Sh.NNN) | REMARK |
|--------------------|--------------------|-----------------------------------|-----------|-------|-------|-------------|---------|----------|-----------|----------|---|---|---|---|-----------------------------------|-----------|----------|--------------|--------------|------------------|----------|--|--------|
| | | | | | | | | | | C | I | R | A | Z | SOE | | | | | | | | |
| Instruments | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 44 PDT - 80050 01 | INLET DIFFERENTIAL PRESSURE | FLD / DCS | X-Y | bar | 4-20mA | I | AI | - | | O | | O | | DIFFERENTIAL PRESSURE TRANSMITTER | IS | - | by other | by other | 40001 | LATER | | |
| 2 | 44 PT - 80050 01 | INLET PRESSURE | FLD / DCS | X-Y | bar.g | 4-20mA | I | AI | - | | O | | O | | PRESSURE TRANSMITTER | IS | - | by other | by other | 40001 | LATER | | |
| 3 | 44 TT - 80050 41 | OIL TEMPERATURE | FLD / DCS | X-Y | °C | 4-20mA | I | AI | - | | O | | O | | TEMPERATURE TRANSMITTER | IS | - | by other | by other | 40001 | LATER | | |
| 4 | 44 PT - 80050 41 | OIL PRESSURE | FLD / DCS | X-Y | bar.g | 4-20mA | I | AI | - | | O | | O | | PRESSURE TRANSMITTER | IS | - | by other | by other | 40001 | LATER | | |
| 5 | 44 PT - 80050 02 | DISCHARGE PRESSURE | FLD / DCS | X-Y | bar.g | 4-20mA | I | AI | - | | O | | O | | PRESSURE TRANSMITTER | IS | - | by other | by other | 40001 | LATER | | |
| 6 | 44 TT - 80050 01 | DISCHARGE TEMPERATURE | FLD / DCS | X-Y | °C | 4-20mA | I | AI | - | | O | | O | | TEMPERATURE TRANSMITTER | IS | - | by other | by other | 40001 | LATER | | |
| 7 | 44 TE - 80050 61 A | WINDING RTD PHASE A SLOT 1 | FLD / MCC | X-Y | °C | RTD | E | AI | - | | | | | | RTD | NIS | - | by other | by other | 40001 | LATER | | |
| 8 | 44 TE - 80050 61 B | WINDING RTD PHASE A SLOT 2 | FLD / MCC | X-Y | °C | RTD | E | AI | - | | | | | | RTD | NIS | - | by other | by other | 40001 | LATER | | |
| 9 | 44 TE - 80050 62 A | WINDING RTD PHASE B SLOT 1 | FLD / MCC | X-Y | °C | RTD | E | AI | - | | | | | | RTD | NIS | - | by other | by other | 40001 | LATER | | |
| 10 | 44 TE - 80050 62 B | WINDING RTD PHASE B SLOT 2 | FLD / MCC | X-Y | °C | RTD | E | AI | - | | | | | | RTD | NIS | - | by other | by other | 40001 | LATER | | |
| 11 | 44 TE - 80050 63 A | WINDING RTD PHASE C SLOT 1 | FLD / MCC | X-Y | °C | RTD | E | AI | - | | | | | | RTD | NIS | - | by other | by other | 40001 | LATER | | |
| 12 | 44 TE - 80050 63 B | WINDING RTD PHASE C SLOT 2 | FLD / MCC | X-Y | °C | RTD | E | AI | - | | | | | | RTD | NIS | - | by other | by other | 40001 | LATER | | |
| 13 | 44 TE - 80050 64 A | DRIVE END BEARING TEMPERATURE | FLD / MCC | X-Y | °C | RTD | E | AI | - | | | | | | RTD | NIS | - | by other | by other | 40001 | LATER | | |
| 14 | 44 TE - 80050 64 B | NON-DRIVE END BEARING TEMPERATURE | FLD / MCC | X-Y | °C | RTD | E | AI | - | | | | | | RTD | NIS | - | by other | by other | 40001 | LATER | | |



PROJECT NO. : 3944
 MR NO. : 171
 DOC TITLE : IO LIST (POWDER)
 DOC NO. : 3944-VD-0171-DYP-RE-400-LST-0080
 REV : 01

IO LIST FOR POWDER TRANSFER PACKAGE



| NO | TAG NO. | SERVICE DESCRIPTION | FROM /TO | RANGE | UNIT | SIGNAL TYPE | PWR SRC | I/O TYPE | CONT -ACT | FUNCTION | | | | | | INST TYPE | IS / NIS | VALVE ACTION | LOOP TAG NO. | JUNCTION BOX NO. | P&ID NO. | LOGIC NO. (3944-VD-0171-DYP-RE-400-DIA-0083 Sh.NNN) | REMARK |
|--------------------|--------------------|-----------------------------------|-----------|-------|-------|-------------|---------|----------|-----------|----------|---|---|---|---|-----------------------------------|-----------|----------|--------------|--------------|------------------|----------|--|--------|
| | | | | | | | | | | C | I | R | A | Z | SOE | | | | | | | | |
| Instruments | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 44 PDT - 80050 02 | INLET DIFFERENTIAL PRESSURE | FLD / DCS | X-Y | bar | 4-20mA | I | AI | - | | O | | O | | DIFFERENTIAL PRESSURE TRANSMITTER | IS | - | by other | by other | 40001 | LATER | | |
| 2 | 44 PT - 80050 04 | INLET PRESSURE | FLD / DCS | X-Y | bar.g | 4-20mA | I | AI | - | | O | | O | | PRESSURE TRANSMITTER | IS | - | by other | by other | 40001 | LATER | | |
| 3 | 44 TT - 80050 42 | OIL TEMPERATURE | FLD / DCS | X-Y | °C | 4-20mA | I | AI | - | | O | | O | | TEMPERATURE TRANSMITTER | IS | - | by other | by other | 40001 | LATER | | |
| 4 | 44 PT - 80050 42 | OIL PRESSURE | FLD / DCS | X-Y | bar.g | 4-20mA | I | AI | - | | O | | O | | PRESSURE TRANSMITTER | IS | - | by other | by other | 40001 | LATER | | |
| 5 | 44 PT - 80050 05 | DISCHARGE PRESSURE | FLD / DCS | X-Y | bar.g | 4-20mA | I | AI | - | | O | | O | | PRESSURE TRANSMITTER | IS | - | by other | by other | 40001 | LATER | | |
| 6 | 44 TT - 80050 03 | DISCHARGE TEMPERATURE | FLD / DCS | X-Y | °C | 4-20mA | I | AI | - | | O | | O | | TEMPERATURE TRANSMITTER | IS | - | by other | by other | 40001 | LATER | | |
| 7 | 44 TE - 80050 65 A | WINDING RTD PHASE A SLOT 1 | FLD / MCC | X-Y | °C | RTD | E | AI | - | | | | | | RTD | NIS | - | by other | by other | 40001 | LATER | | |
| 8 | 44 TE - 80050 65 B | WINDING RTD PHASE A SLOT 2 | FLD / MCC | X-Y | °C | RTD | E | AI | - | | | | | | RTD | NIS | - | by other | by other | 40001 | LATER | | |
| 9 | 44 TE - 80050 66 A | WINDING RTD PHASE B SLOT 1 | FLD / MCC | X-Y | °C | RTD | E | AI | - | | | | | | RTD | NIS | - | by other | by other | 40001 | LATER | | |
| 10 | 44 TE - 80050 66 B | WINDING RTD PHASE B SLOT 2 | FLD / MCC | X-Y | °C | RTD | E | AI | - | | | | | | RTD | NIS | - | by other | by other | 40001 | LATER | | |
| 11 | 44 TE - 80050 67 A | WINDING RTD PHASE C SLOT 1 | FLD / MCC | X-Y | °C | RTD | E | AI | - | | | | | | RTD | NIS | - | by other | by other | 40001 | LATER | | |
| 12 | 44 TE - 80050 67 B | WINDING RTD PHASE C SLOT 2 | FLD / MCC | X-Y | °C | RTD | E | AI | - | | | | | | RTD | NIS | - | by other | by other | 40001 | LATER | | |
| 13 | 44 TE - 80050 68 A | DRIVE END BEARING TEMPERATURE | FLD / MCC | X-Y | °C | RTD | E | AI | - | | | | | | RTD | NIS | - | by other | by other | 40001 | LATER | | |
| 14 | 44 TE - 80050 68 B | NON-DRIVE END BEARING TEMPERATURE | FLD / MCC | X-Y | °C | RTD | E | AI | - | | | | | | RTD | NIS | - | by other | by other | 40001 | LATER | | |



PROJECT NO. : 3944
 MR NO. : 171
 DOC TITLE : IO LIST (POWDER)
 DOC NO. : 3944-VD-0171-DYP-RE-400-LST-0080
 REV : 01

IO LIST FOR POWDER TRANSFER PACKAGE



| NO | TAG NO. | SERVICE DESCRIPTION | FROM /TO | RANGE | UNIT | SIGNAL TYPE | PWR SRC | I/O TYPE | CONT -ACT | FUNCTION | | | | | | INST TYPE | IS / NIS | VALVE ACTION | LOOP TAG NO. | JUNCTION BOX NO. | P&ID NO. | LOGIC NO. (3944-VD-0171-DYP-RE-400-DIA-0083 Sh.NNN) | REMARK |
|--------------------|--------------------|-----------------------------------|-----------|-------|-------|-------------|---------|----------|-----------|----------|---|---|---|---|-----|-----------------------------------|----------|--------------|--------------|------------------|----------|--|--------|
| | | | | | | | | | | C | I | R | A | Z | SOE | | | | | | | | |
| Instruments | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 44 PDT - 80050 03 | INLET DIFFERENTIAL PRESSURE | FLD / DCS | X-Y | bar | 4-20mA | I | AI | - | | O | | | | | DIFFERENTIAL PRESSURE TRANSMITTER | IS | - | by other | by other | 40001 | LATER | |
| 2 | 44 PT - 80050 06 | INLET PRESSURE | FLD / DCS | X-Y | bar.g | 4-20mA | I | AI | - | | O | | | | | PRESSURE TRANSMITTER | IS | - | by other | by other | 40001 | LATER | |
| 3 | 44 TT - 80050 43 | OIL TEMPERATURE | FLD / DCS | X-Y | °C | 4-20mA | I | AI | - | | O | | | | | TEMPERATURE TRANSMITTER | IS | - | by other | by other | 40001 | LATER | |
| 4 | 44 PT - 80050 43 | OIL PRESSURE | FLD / DCS | X-Y | bar.g | 4-20mA | I | AI | - | | O | | | | | PRESSURE TRANSMITTER | IS | - | by other | by other | 40001 | LATER | |
| 5 | 44 PT - 80050 07 | DISCHARGE PRESSURE | FLD / DCS | X-Y | bar.g | 4-20mA | I | AI | - | | O | | | | | PRESSURE TRANSMITTER | IS | - | by other | by other | 40001 | LATER | |
| 6 | 44 TT - 80050 04 | DISCHARGE TEMPERATURE | FLD / DCS | X-Y | °C | 4-20mA | I | AI | - | | O | | | | | TEMPERATURE TRANSMITTER | IS | - | by other | by other | 40001 | LATER | |
| 7 | 44 TE - 80050 69 A | WINDING RTD PHASE A SLOT 1 | FLD / MCC | X-Y | °C | RTD | E | AI | - | | | | | | | RTD | NIS | - | by other | by other | 40001 | LATER | |
| 8 | 44 TE - 80050 69 B | WINDING RTD PHASE A SLOT 2 | FLD / MCC | X-Y | °C | RTD | E | AI | - | | | | | | | RTD | NIS | - | by other | by other | 40001 | LATER | |
| 9 | 44 TE - 80050 70 A | WINDING RTD PHASE B SLOT 1 | FLD / MCC | X-Y | °C | RTD | E | AI | - | | | | | | | RTD | NIS | - | by other | by other | 40001 | LATER | |
| 10 | 44 TE - 80050 70 B | WINDING RTD PHASE B SLOT 2 | FLD / MCC | X-Y | °C | RTD | E | AI | - | | | | | | | RTD | NIS | - | by other | by other | 40001 | LATER | |
| 11 | 44 TE - 80050 71 A | WINDING RTD PHASE C SLOT 1 | FLD / MCC | X-Y | °C | RTD | E | AI | - | | | | | | | RTD | NIS | - | by other | by other | 40001 | LATER | |
| 12 | 44 TE - 80050 71 B | WINDING RTD PHASE C SLOT 2 | FLD / MCC | X-Y | °C | RTD | E | AI | - | | | | | | | RTD | NIS | - | by other | by other | 40001 | LATER | |
| 13 | 44 TE - 80050 72 A | DRIVE END BEARING TEMPERATURE | FLD / MCC | X-Y | °C | RTD | E | AI | - | | | | | | | RTD | NIS | - | by other | by other | 40001 | LATER | |
| 14 | 44 TE - 80050 72 B | NON-DRIVE END BEARING TEMPERATURE | FLD / MCC | X-Y | °C | RTD | E | AI | - | | | | | | | RTD | NIS | - | by other | by other | 40001 | LATER | |