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|--|--|----|----|-----|----|-----|--|-------------|-----------------|
| OWNER:  شرکت سست موبلی آوند ایرپاکن (سهامی خاص) | BUSHEHR PETROCHEMICAL COMPANY MEG PLANT | | | | | | EPC CONTRACTOR:  Chagalesh-Enerchimi-Steam Joint Venture BUPC-MEG PLANT PROJECT | | |
| MC :  شرکت سست موبلی آوند ایرپاکن (سهامی خاص) | LOOP DIAGRAM FOR NITROGEN GAS BOOSTER | | | | | |  | | |
| Owner Document Number: 17811-30A | | | | | | | Project | Area | Phase |
| | BU | 20 | VD | 303 | IN | DIG | 0036 | Rev.: 02 | Page 1 of 35 |

LOOP DIAGRAM FOR NITROGEN GAS BOOSTER

| | | |
|--|---|---|
|  شرکت سست موبلی آوند ایرپاکن (سهامی خاص) |  Chagalesh-Enerchimi-Steam Joint Venture BUPC-MEG PLANT PROJECT | BUSHEHR PETROCHEMICAL COMPANY MEG PLANT |
| Document Review | | |
| Issue Purpose: | AFC | |
| Result Code: AP,AN,CM,RE,NC | AP | |
| Next Status : IFC,IFA,IFI,AFC,AB | - | |
| Responsible Department | MECHANICAL | |
| Commented Date | Sep/18/2022 | |
| Approval or review hereunder shall not be construed to relieve Vendor / Subcontractor of his responsibilities and liability under the contract. | | |

| | | | | | | |
|------|------------|---------------------------|----------|---------|----------|----------|
| | | | | | | |
| 02 | 05/09/2022 | Approved for Construction | RT | KP | JR | |
| 01 | 15/07/2022 | For approval | MG | RB | KP | |
| 00 | 18/10/2021 | For approval | HT | KP | JR | |
| Rev. | Date | Purpose of Issue | Prepared | Checked | Approved | AC Code |
| | | | | | Class: 1 | Phase: P |



Airpack B.V.

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The Netherlands

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E-MAIL : AIRPACK@AIRPACK.NL

WEBPAGE : WWW.AIRPACK.NL

| | | | | |
|-----------------------|---|--------------------------------------|--------------|------|
| Client | : | Bushehr Petrochemical Company (BUPC) | | |
| Equipment location | : | Iran, Onshore | | |
| Client reference | : | Bushehr MEG Plant Project | | |
| Client dwg. no. | : | BU-20-VD-303-IN-DIG-0043 | | |
| Airpack reference | : | 17811-30A | | |
| Airpack dwg. no. | : | 17811-05 | | |
| Generation date | : | 06-Nov-20 | | |
| E & I manager | : | RBE | Revision no. | : 02 |
| Last modifications | : | 24-Aug-22 | | |
| Last modifications by | : | RTR | | |

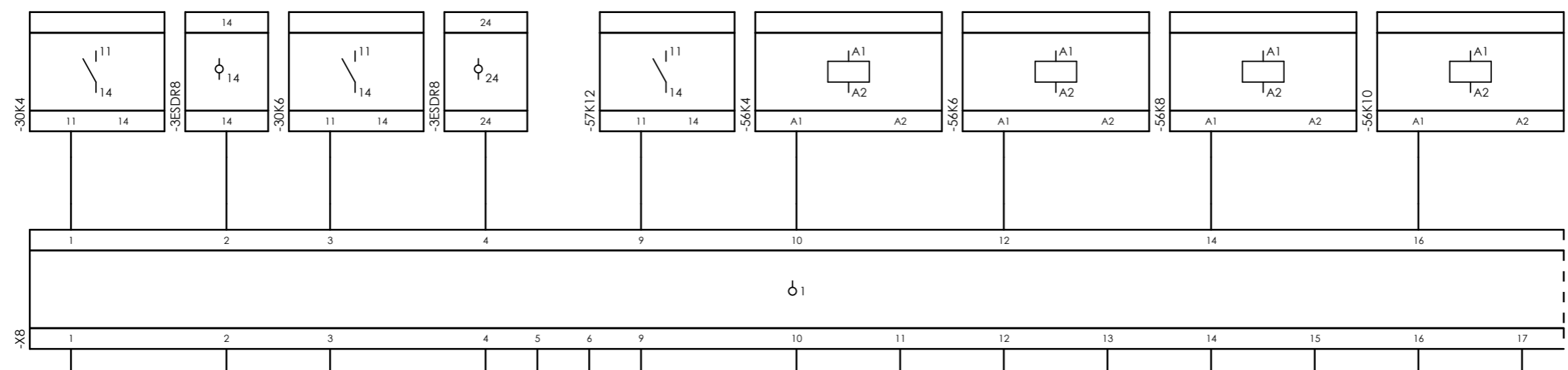


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| CLIENT DWG NO. | BU-20-VD-303-IN-DIG-0043 |
| EQUIPMENT NO. | 20-C-1002 |
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| THIS DRAWING IS OWNED BY AIRPACK, AND SHALL NOT BE PRINTED OR COPIED IN ANY OTHER WAY THAN WITH AIRPACKS PERMISSION! | |

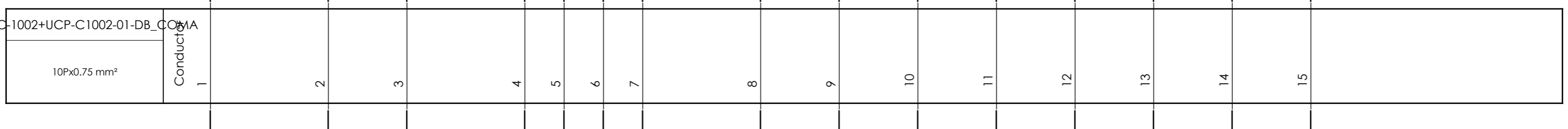
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| SUBJECT Title page / cover sheet | |
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| CLIENT | Bushehr Petrochemical Company (BUPC) |
| CLIENT REF. | Bushehr MEG Plant Project |
| AIRPACK REF. | 17811-30A |

| | | |
|------------------------|----------|--------------|
| DRAWN BY | RTR | = |
| CHECKED BY | RBE | + |
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| AIRPACK DWG NO. | 17811-05 | |
| REVISION | 02 | |
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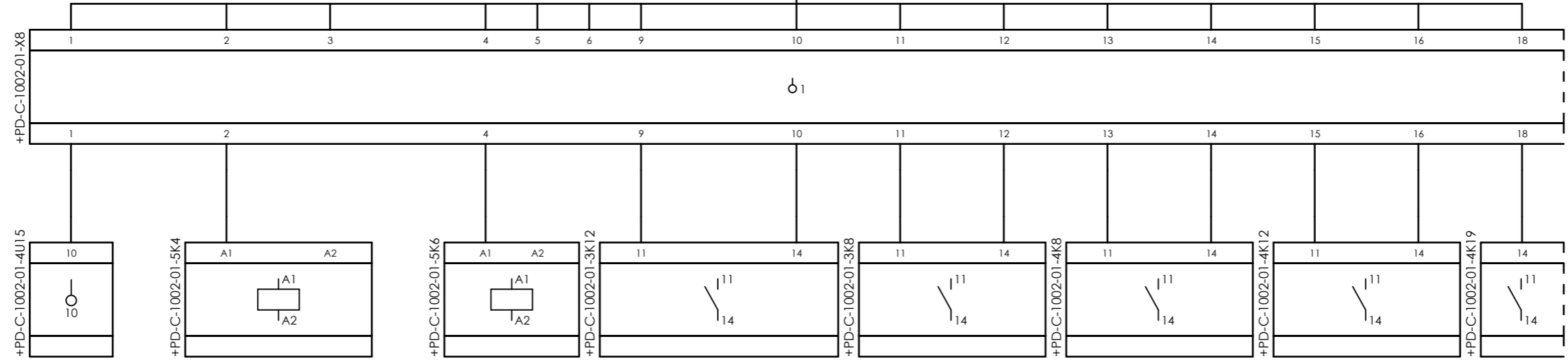
Internal targets



=20-C-1002+UCP-C1002-01-DB_COMA



External targets



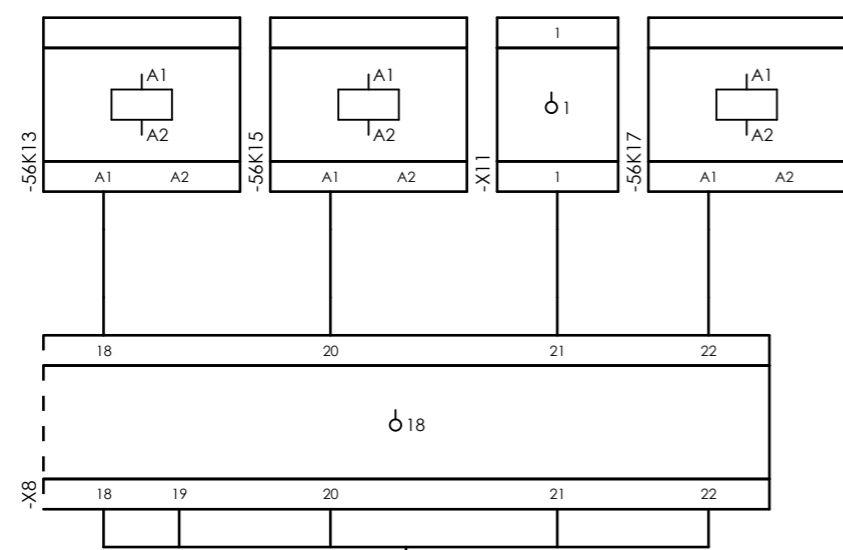
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SUBJECT Cable-connection diagram =20-C-1002+UCP-C1002-01-DB_COMA
 ADAPTED TO P&ID REVISION 06
 CLIENT Bushehr Petrochemical Company (BUPC)
 CLIENT REF. Bushehr MEG Plant Project
 AIRPACK REF. 17811-30A

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 REVISION 02
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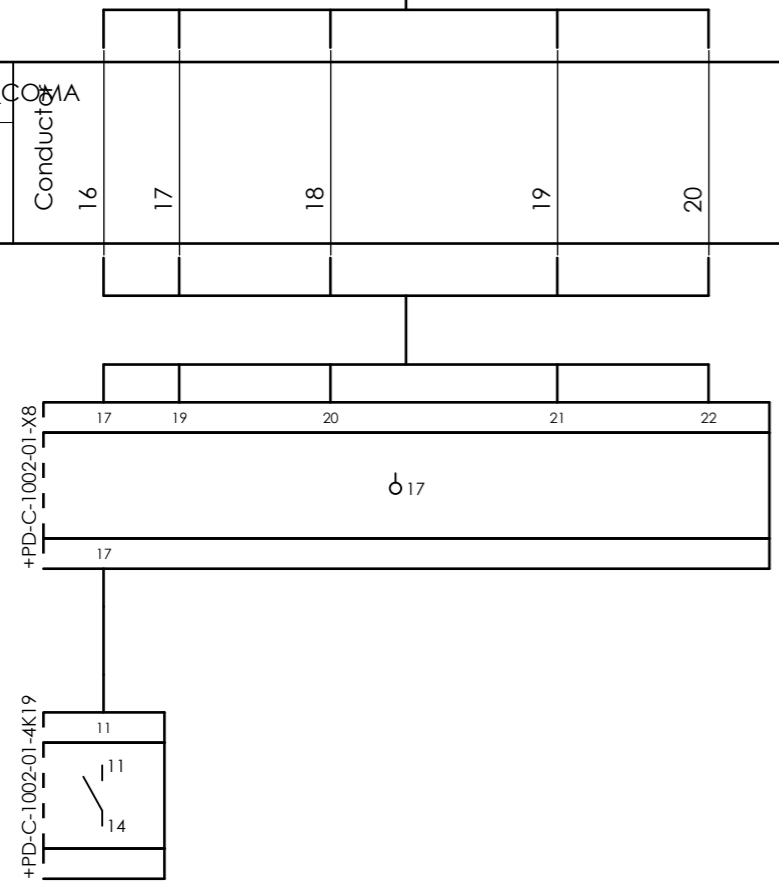
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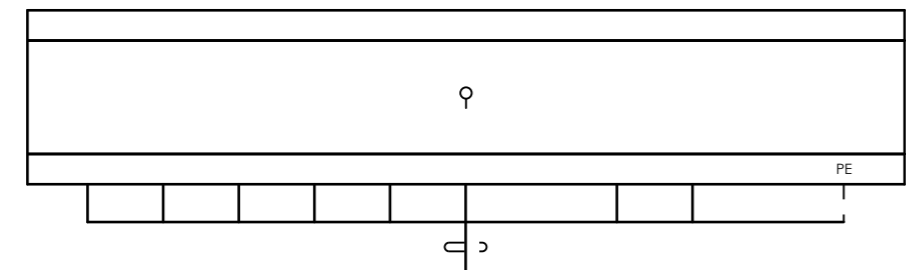
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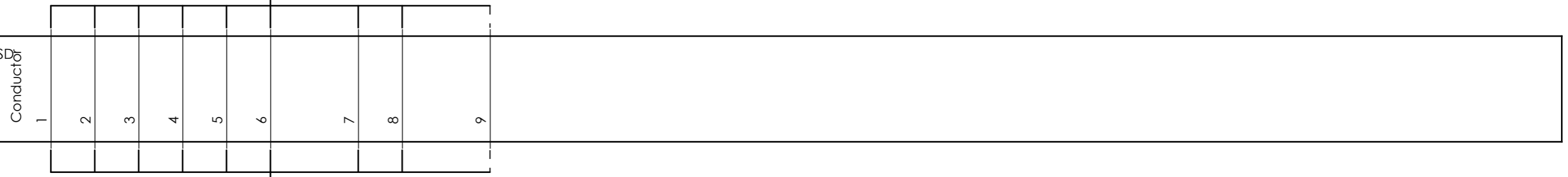
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| CLIENT | Bushehr Petrochemical Company (BUPC) | AIRPACK DWG NO. | | 17811-05 | | | |
| CLIENT REF. | Bushehr MEG Plant Project | REVISION | | 02 | | | |
| AIRPACK REF. | 17811-30A | TOTAL PAGE AMOUNT | | 3 | | | |

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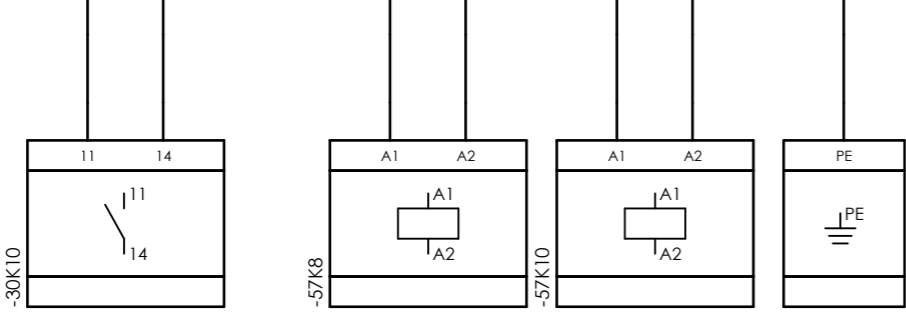
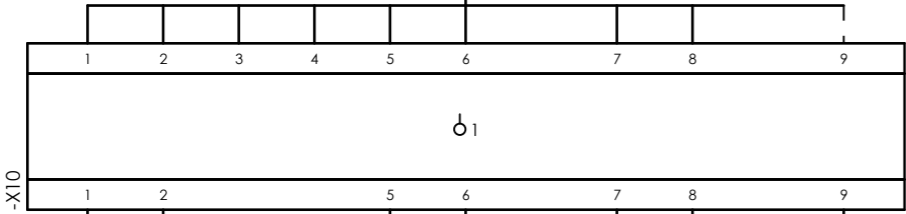


=20-C-1002+UCP-C1002-01-ESD

5Px0.75 mm² mm²



External targets



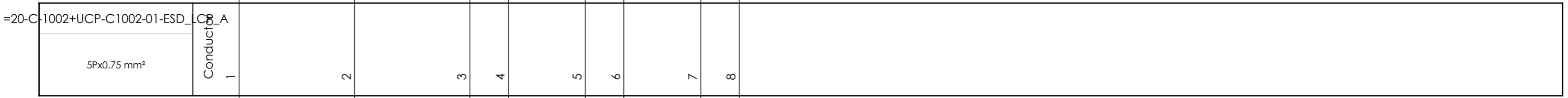
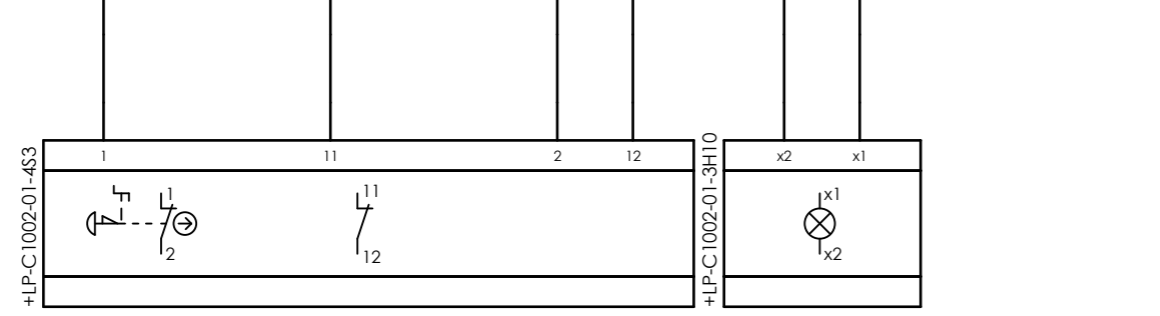
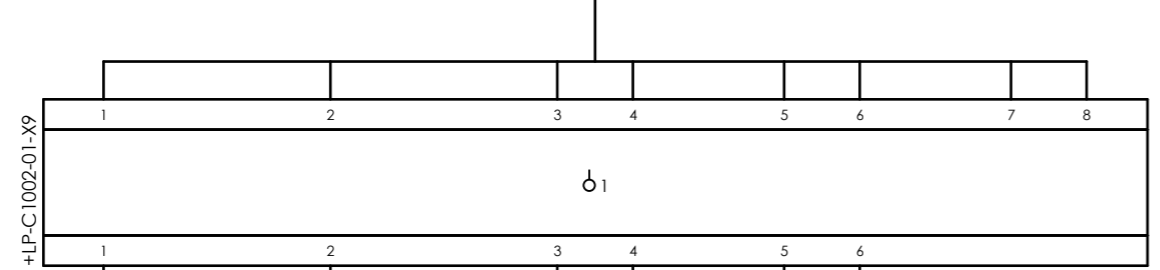
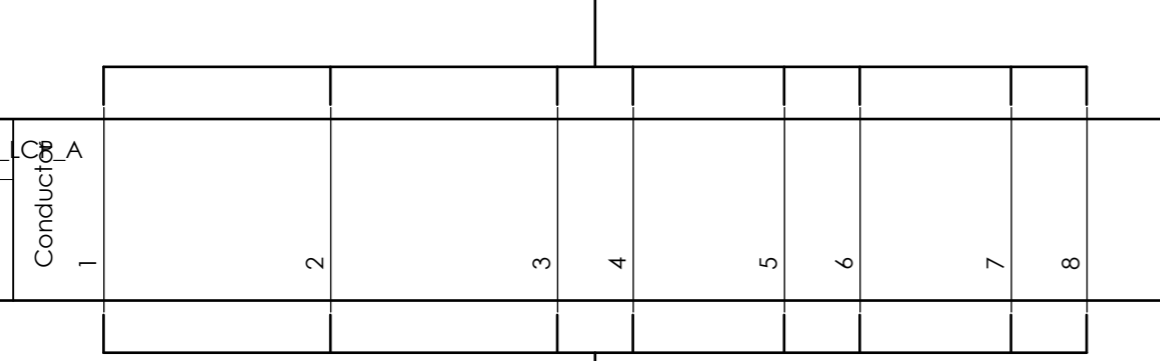
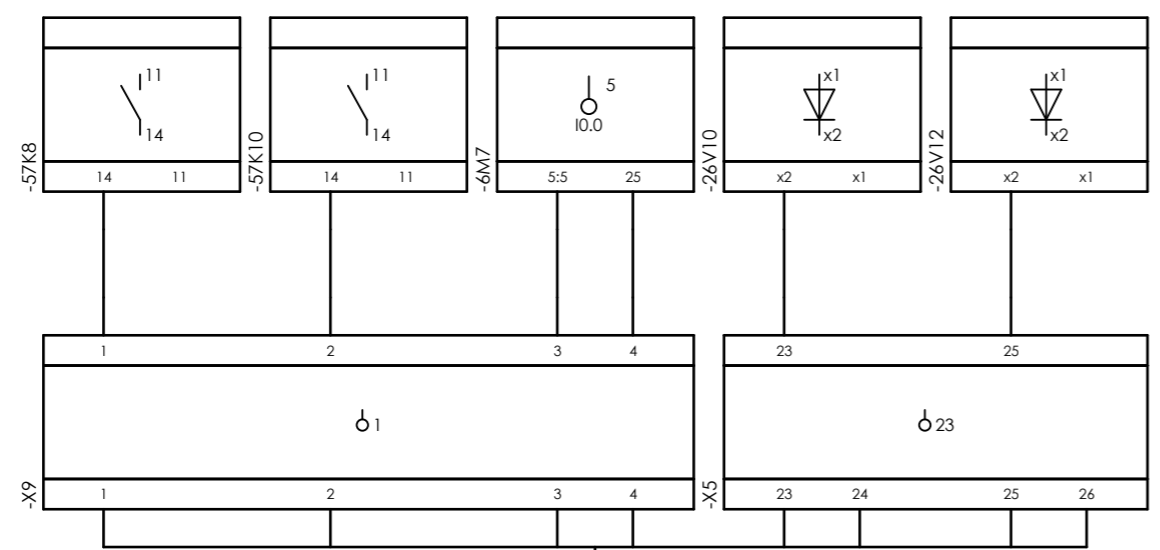
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SUBJECT Cable-connection diagram =20-C-1002+UCP-C1002-01-ESD
 ADAPTED TO P&ID REVISION 06
 CLIENT Bushehr Petrochemical Company (BUPC)
 CLIENT REF. Bushehr MEG Plant Project
 AIRPACK REF. 17811-30A

DRAWN BY RTR
 CHECKED BY RBE
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 AIRPACK DWG NO. 17811-05
 REVISION 02
 TOTAL PAGE AMOUNT 4

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Internal targets



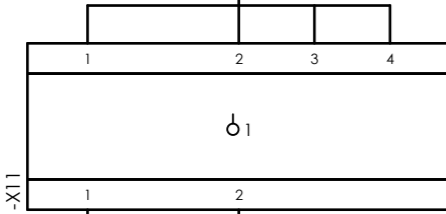
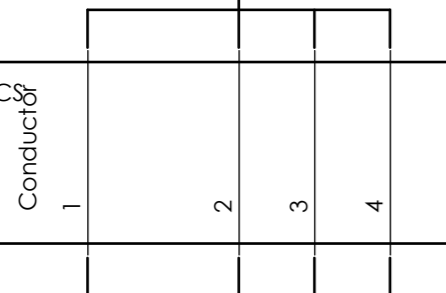
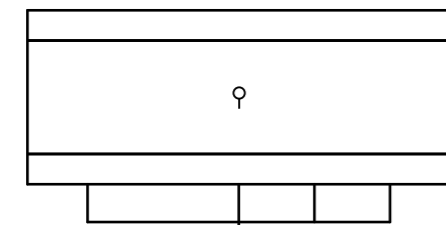
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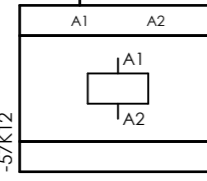
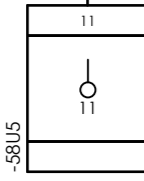
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| EQUIPMENT NO. | 20-C-1002 | Cable-connection diagram =20-C-1002+UCP-C1002-01-ESD_LCP_A | | CHECKED BY | RBE | + |
| EQUIPMENT LOCATION | Iran, Onshore | ADAPTED TO P&ID REVISION | 06 | LAST MODIFICATION DATE | | CURRENT PAGE |
| THIS DRAWING IS OWNED BY AIRPACK, AND SHALL NOT BE PRINTED OR COPIED IN ANY OTHER WAY THAN WITH AIRPACKS PERMISSION! | | CLIENT | Bushehr Petrochemical Company (BUPC) | AIRPACK DWG NO. | 17811-05 | |
| | | CLIENT REF. | Bushehr MEG Plant Project | REVISION | 02 | |
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| REVISION | 02 | |
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Internal targets



External targets



=20-C-1002+UCP-C1002-01-FCS
4Px1 mm² mm²
Conductors

-X11

-58U5

-57K12

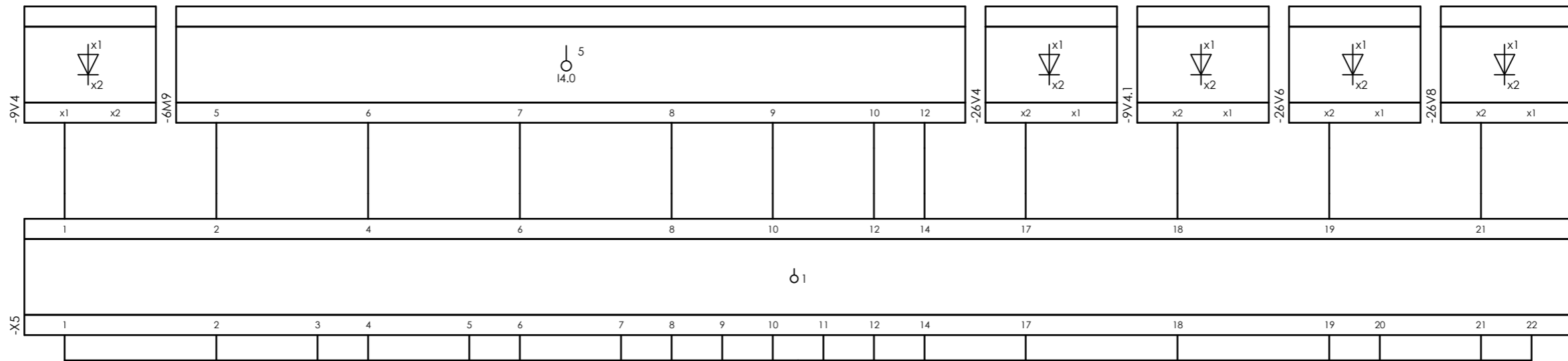


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| EQUIPMENT NO. | 20-C-1002 |
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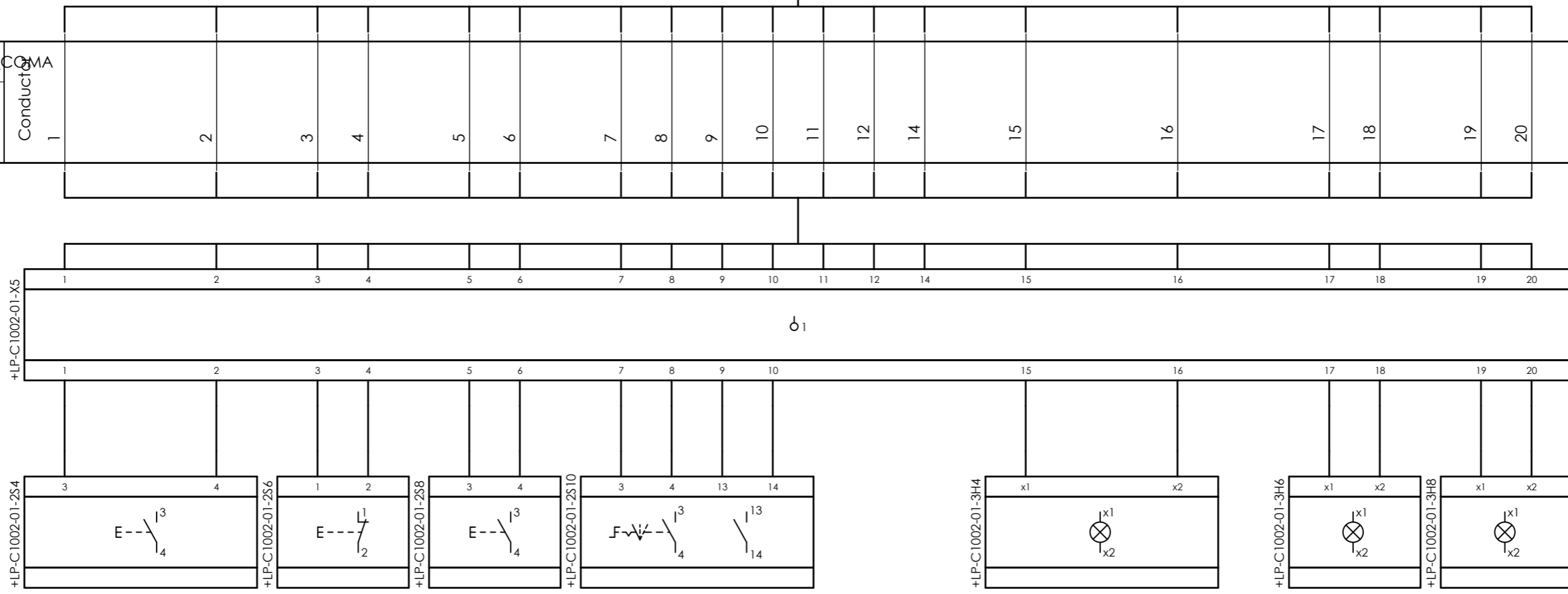
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| CLIENT REF. | Bushehr MEG Plant Project | AIRPACK REF. | 17811-30A |

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Internal targets



External targets



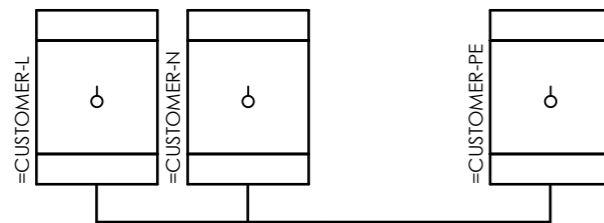
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 EQUIPMENT NO. 20-C-1002
 EQUIPMENT LOCATION Iran, Onshore
 THIS DRAWING IS OWNED BY AIRPACK, AND SHALL NOT BE PRINTED OR COPIED IN ANY OTHER WAY THAN WITH AIRPACKS PERMISSION!

SUBJECT Cable-connection diagram =20-C-1002+UCP-C1002-01-LCP_COMA
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 CLIENT Bushehr Petrochemical Company (BUPC)
 CLIENT REF. Bushehr MEG Plant Project
 AIRPACK REF. 17811-30A

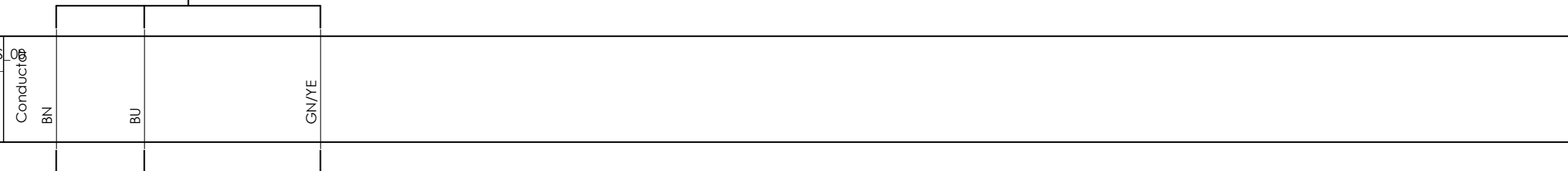
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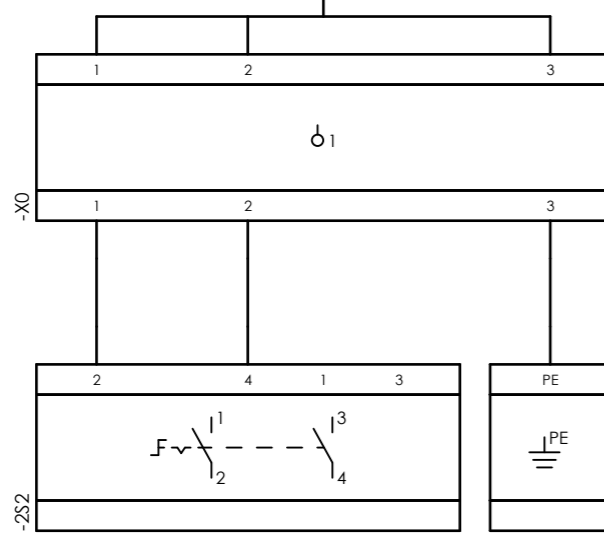
Internal targets



=20-C-1002+UCP-C1002-01-PS_06
3x2.5 sqmm



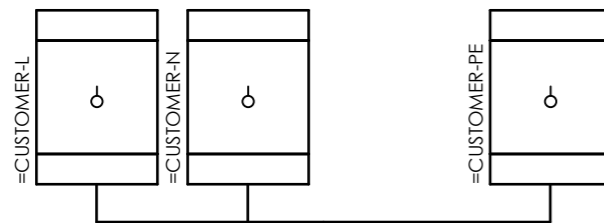
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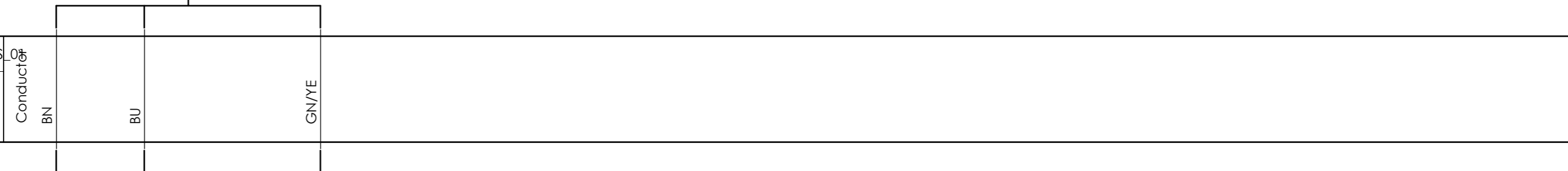
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| CLIENT DWG NO. | BU-20-VD-303-IN-DIG-0043 |
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| EQUIPMENT LOCATION | Iran, Onshore |
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| SUBJECT | | DRAWN BY | RTR | = |
| Cable-connection diagram =20-C-1002+UCP-C1002-01-PS_00 | | CHECKED BY | RBE | + |
| ADAPTED TO P&ID REVISION | 06 | LAST MODIFICATION DATE | | CURRENT PAGE |
| CLIENT | Bushehr Petrochemical Company (BUPC) | AIRPACK DWG NO. | 17811-05 | |
| CLIENT REF. | Bushehr MEG Plant Project | REVISION | 02 | |
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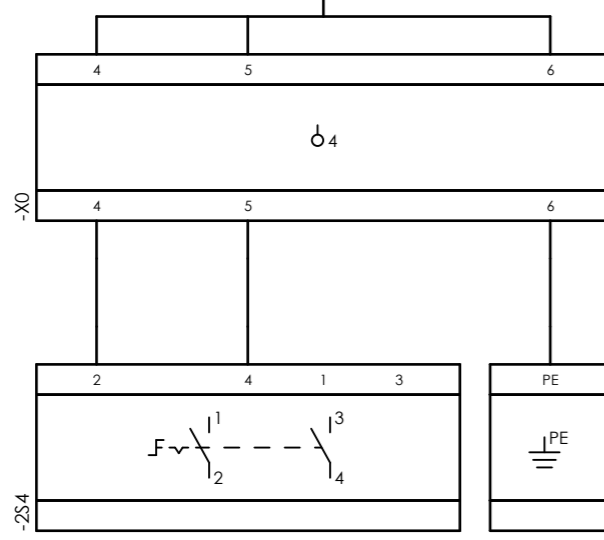
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3x2.5 sqmm



External targets

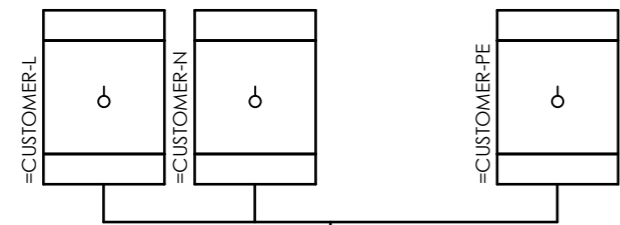


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| EQUIPMENT NO. | 20-C-1002 |
| EQUIPMENT LOCATION | Iran, Onshore |
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| ADAPTED TO P&ID REVISION | 06 | CLIENT | Bushehr Petrochemical Company (BUPC) |
| CLIENT REF. | Bushehr MEG Plant Project | AIRPACK REF. | 17811-30A |

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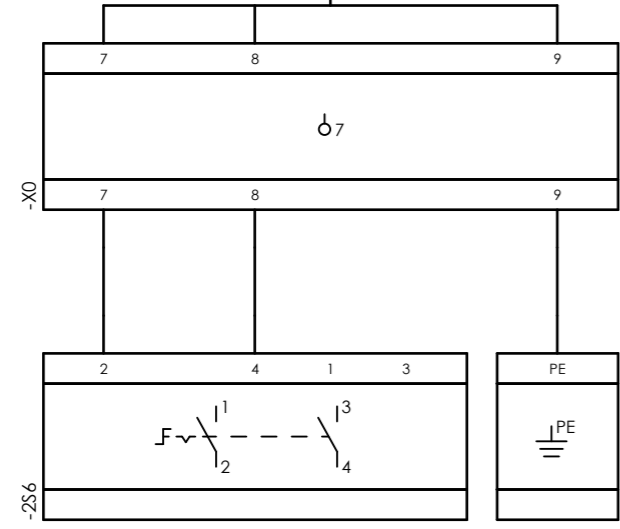
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External targets

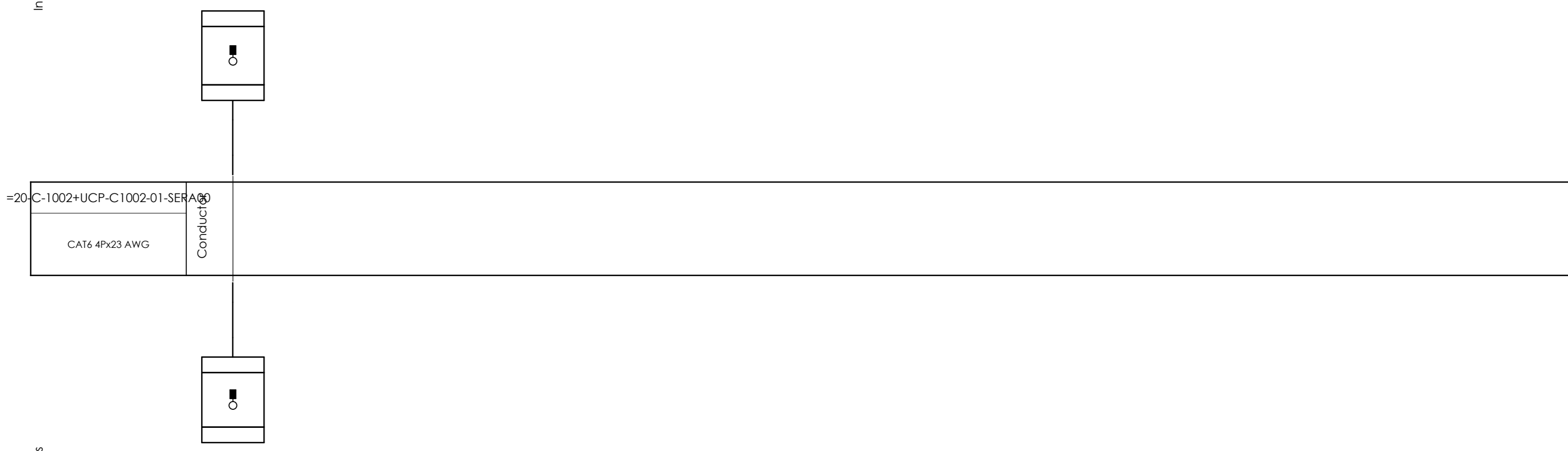


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| ADAPTED TO P&ID REVISION | 06 |
| CLIENT | Bushehr Petrochemical Company (BUPC) |
| CLIENT REF. | Bushehr MEG Plant Project |
| AIRPACK REF. | 17811-30A |

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Internal targets

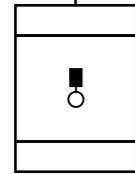
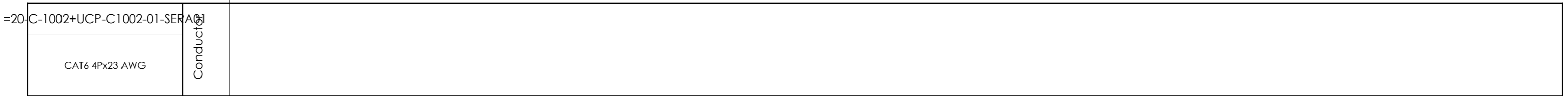
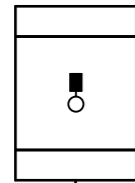


External targets



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| THIS DRAWING IS OWNED BY AIRPACK, AND SHALL NOT BE PRINTED OR COPIED IN ANY OTHER WAY THAN WITH AIRPACKS PERMISSION! | | CLIENT | Bushehr Petrochemical Company (BUPC) | AIRPACK DWG NO. | 17811-05 | |
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Internal targets



External targets

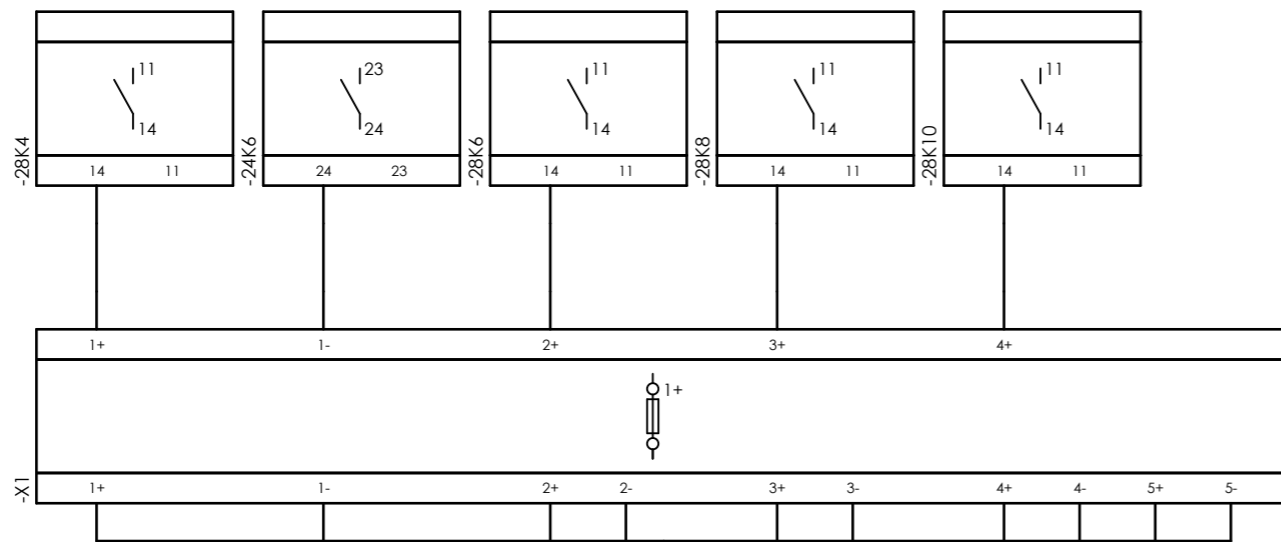


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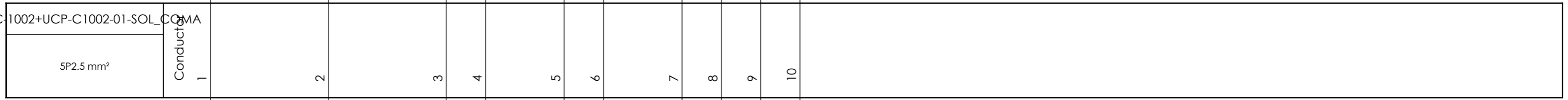
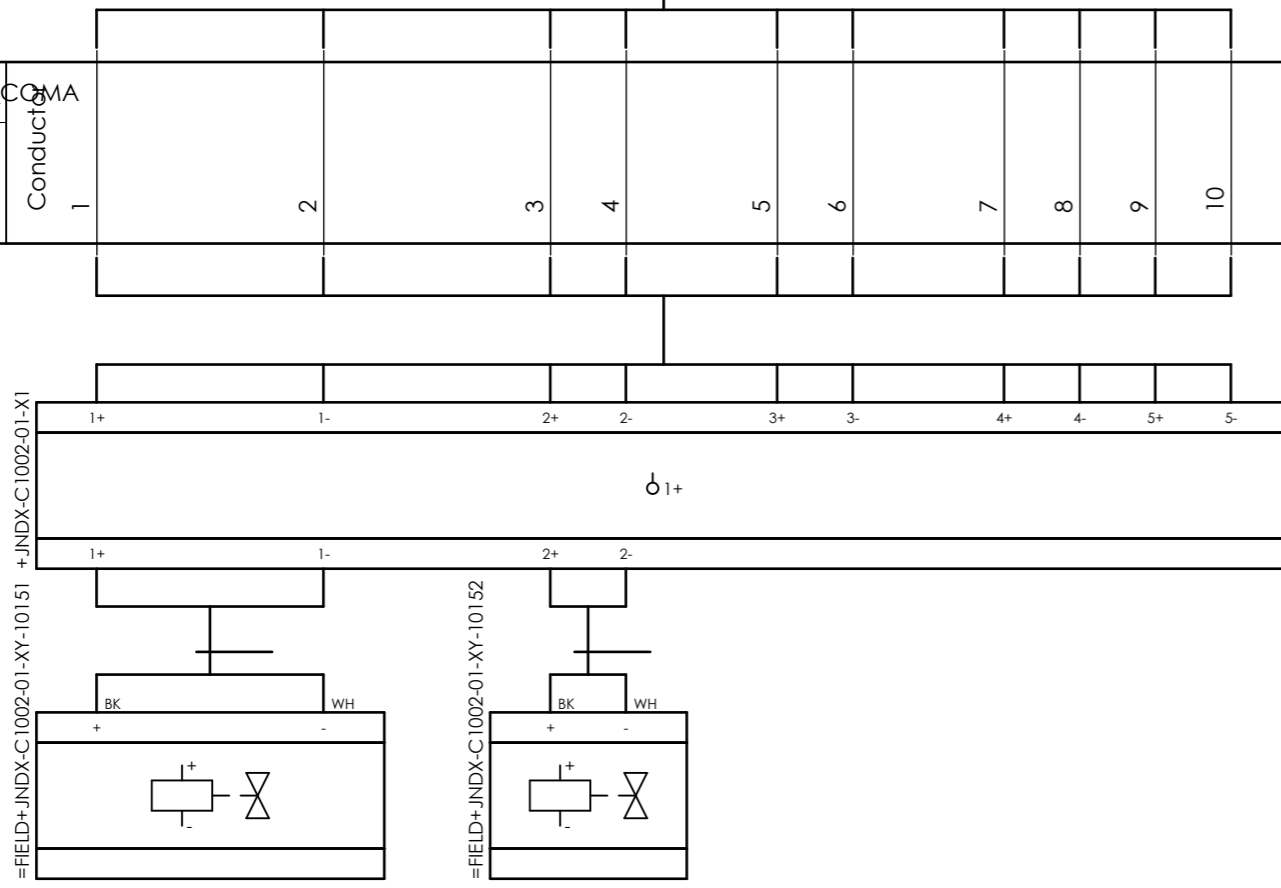
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| CLIENT REF. | Bushehr MEG Plant Project | REVISION | 02 | | |
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Internal targets



External targets

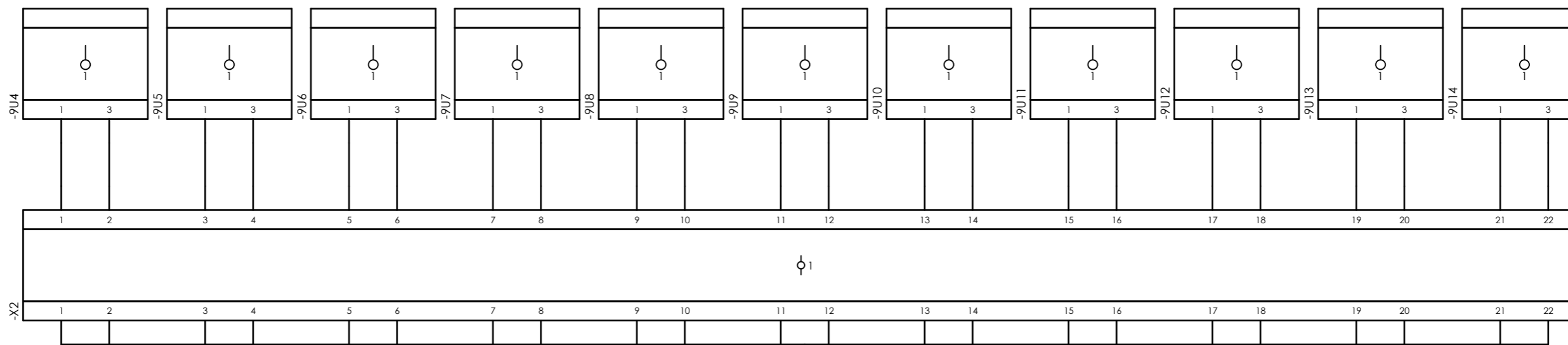


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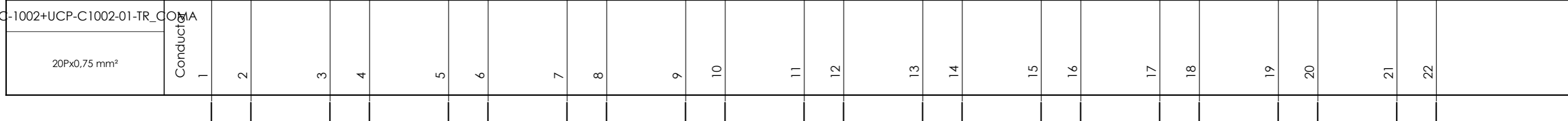
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| ADAPTED TO P&ID REVISION | 06 |
| CLIENT | Bushehr Petrochemical Company (BUPC) |
| CLIENT REF. | Bushehr MEG Plant Project |
| AIRPACK REF. | 17811-30A |

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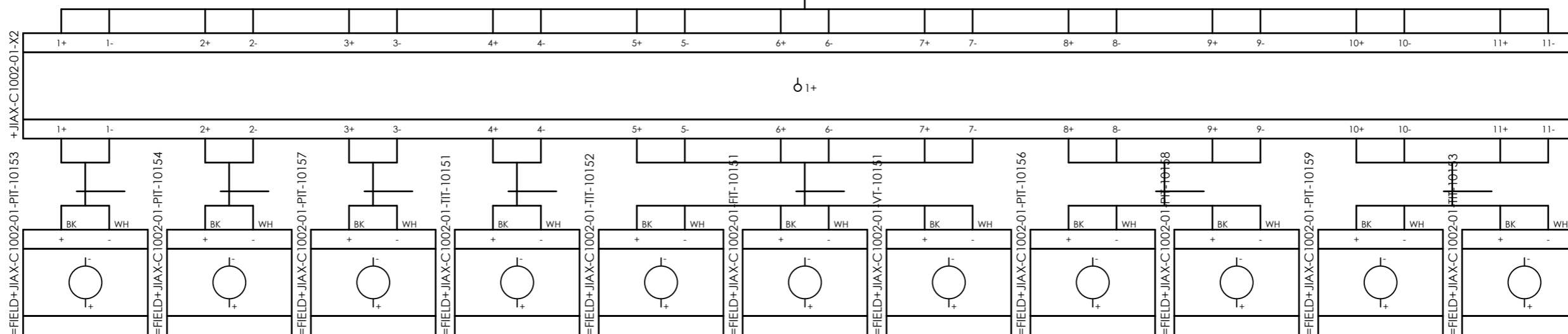
Internal targets



=20-C-1002+UCP-C1002-01-TR_COMA



External targets

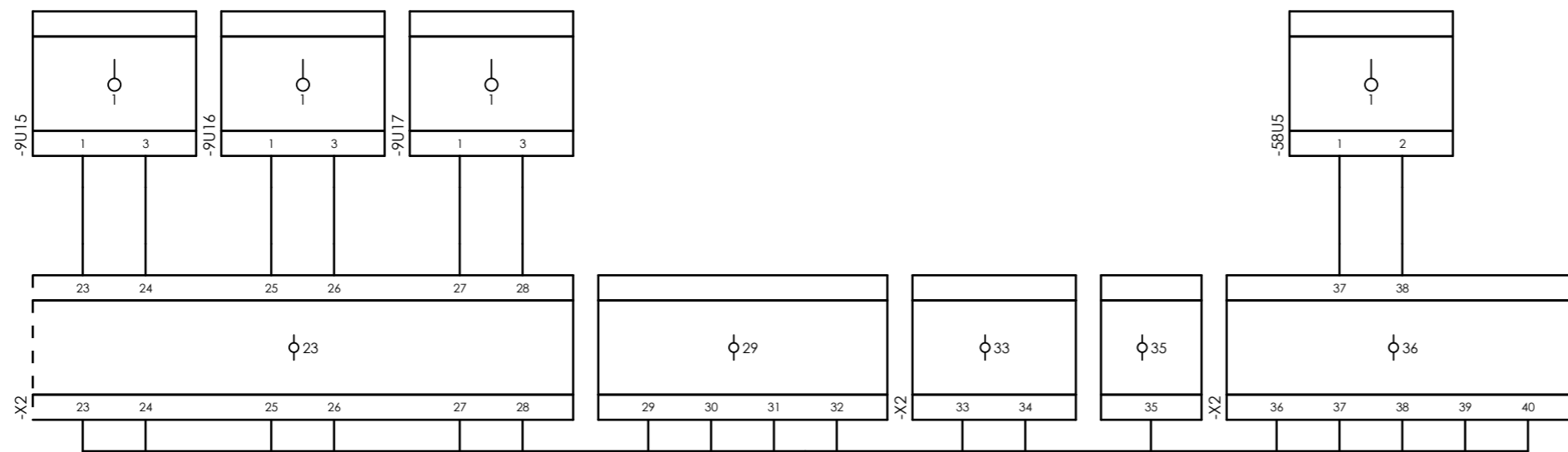


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| EQUIPMENT NO. | 20-C-1002 |
| EQUIPMENT LOCATION | Iran, Onshore |
| THIS DRAWING IS OWNED BY AIRPACK, AND SHALL NOT BE PRINTED OR COPIED IN ANY OTHER WAY THAN WITH AIRPACKS PERMISSION! | |

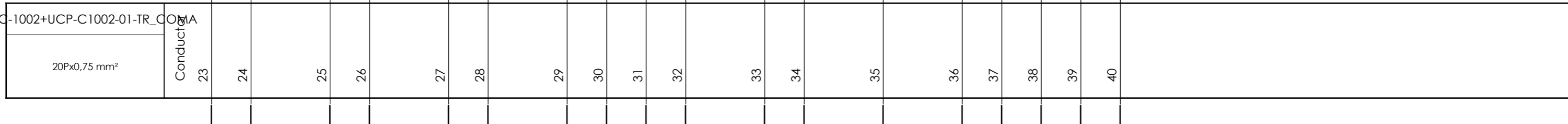
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| ADAPTED TO P&ID REVISION | 06 | | |
| CLIENT | Bushehr Petrochemical Company (BUPC) | | |
| CLIENT REF. | Bushehr MEG Plant Project | | |
| AIRPACK REF. | 17811-30A | | |

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| DRAWN BY | RTR | = |
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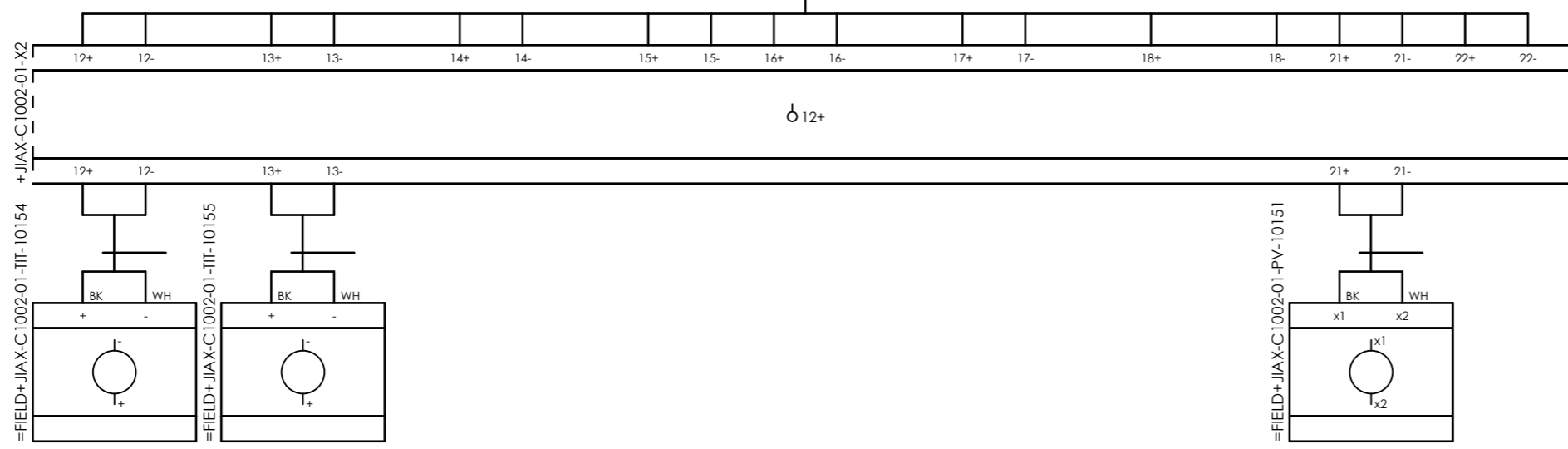
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=20-C-1002+UCP-C1002-01-TR_COMA



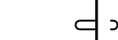
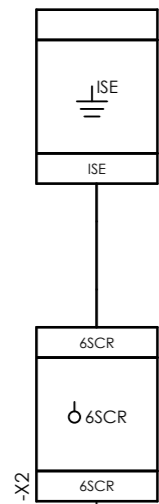
External targets



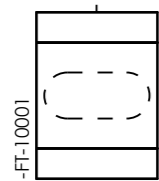
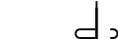
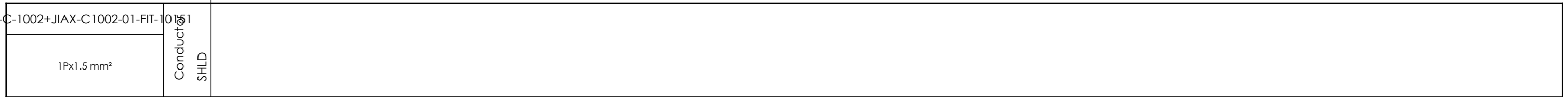
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| EQUIPMENT NO. | 20-C-1002 | ADAPTED TO P&ID REVISION | 06 |
| EQUIPMENT LOCATION | Iran, Onshore | CLIENT | Bushehr Petrochemical Company (BUPC) |
| THIS DRAWING IS OWNED BY AIRPACK, AND SHALL NOT BE PRINTED OR COPIED IN ANY OTHER WAY THAN WITH AIRPACKS PERMISSION! | | CLIENT REF. | Bushehr MEG Plant Project |
| | | AIRPACK REF. | 17811-30A |

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| LAST MODIFICATION DATE | | CURRENT PAGE |
| AIRPACK DWG NO. | 17811-05 | |
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| TOTAL PAGE AMOUNT | 15 | |

Internal targets



=20-C-1002+JIAX-C1002-01-FIT-10151



External targets

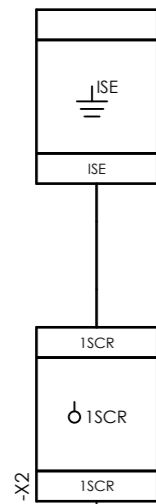


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| EQUIPMENT NO. | 20-C-1002 |
| EQUIPMENT LOCATION | Iran, Onshore |
| THIS DRAWING IS OWNED BY AIRPACK, AND SHALL NOT BE PRINTED OR COPIED IN ANY OTHER WAY THAN WITH AIRPACKS PERMISSION! | |

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|---|--------------------------------------|
| SUBJECT | |
| Cable-connection diagram =20-C-1002+JIAX-C1002-01-FIT-10151 | |
| ADAPTED TO P&ID REVISION | 06 |
| CLIENT | Bushehr Petrochemical Company (BUPC) |
| CLIENT REF. | Bushehr MEG Plant Project |
| AIRPACK REF. | 17811-30A |

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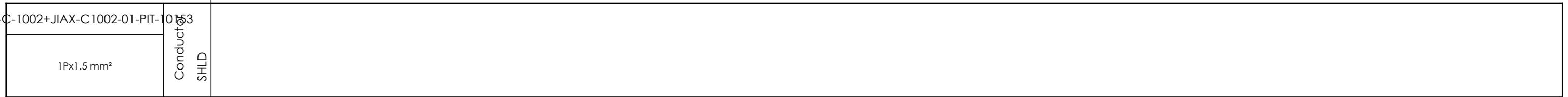
Internal targets



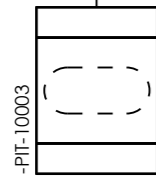
-X2



=20-C-1002+JIAX-C1002-01-PIT-10153



-PIT-10003



External targets



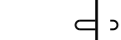
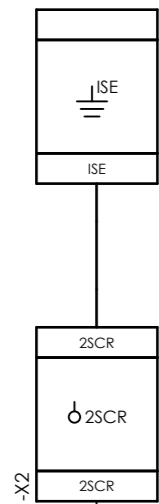
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| CLIENT DWG NO. | BU-20-VD-303-IN-DIG-0043 |
| EQUIPMENT NO. | 20-C-1002 |
| EQUIPMENT LOCATION | Iran, Onshore |

THIS DRAWING IS OWNED BY AIRPACK, AND SHALL NOT BE PRINTED OR COPIED IN ANY OTHER WAY THAN WITH AIRPACKS PERMISSION!

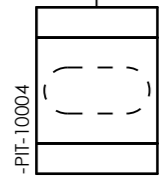
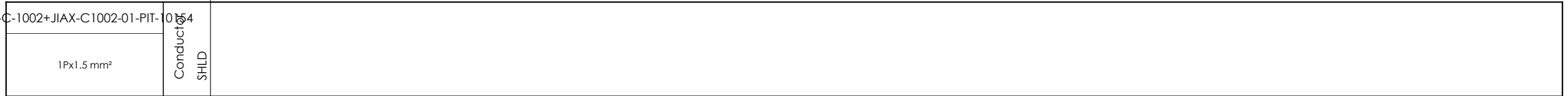
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| ADAPTED TO P&ID REVISION | 06 | CLIENT | Bushehr Petrochemical Company (BUPC) |
| CLIENT REF. | Bushehr MEG Plant Project | AIRPACK REF. | 17811-30A |

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Internal targets



=20-C-1002+JIAX-C1002-01-PIT-10154



External targets

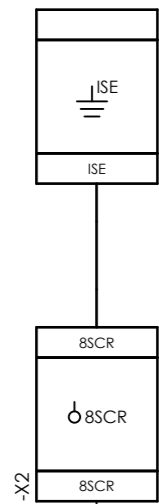


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| CLIENT DWG NO. | BU-20-VD-303-IN-DIG-0043 |
| EQUIPMENT NO. | 20-C-1002 |
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| THIS DRAWING IS OWNED BY AIRPACK, AND SHALL NOT BE PRINTED OR COPIED IN ANY OTHER WAY THAN WITH AIRPACKS PERMISSION! | |

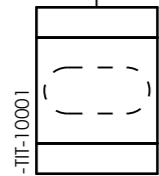
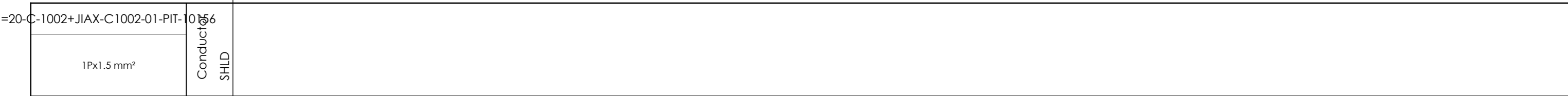
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| ADAPTED TO P&ID REVISION | 06 | CLIENT | Bushehr Petrochemical Company (BUPC) |
| CLIENT REF. | Bushehr MEG Plant Project | AIRPACK REF. | 17811-30A |

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| DRAWN BY | RTR | = |
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Internal targets



-X2



External targets



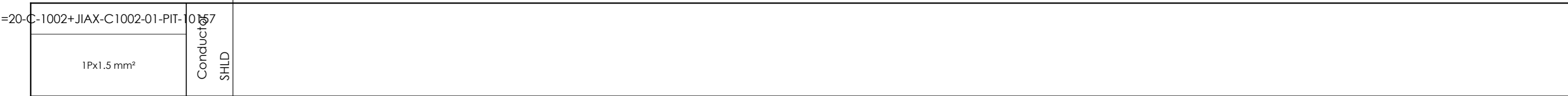
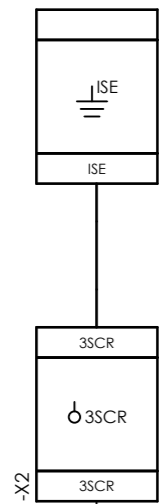
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| CLIENT DWG NO. | BU-20-VD-303-IN-DIG-0043 |
| EQUIPMENT NO. | 20-C-1002 |
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THIS DRAWING IS OWNED BY AIRPACK, AND SHALL NOT BE PRINTED OR COPIED IN ANY OTHER WAY THAN WITH AIRPACKS PERMISSION!

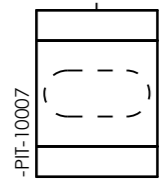
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| ADAPTED TO P&ID REVISION | 06 | CLIENT | Bushehr Petrochemical Company (BUPC) |
| CLIENT REF. | Bushehr MEG Plant Project | AIRPACK REF. | 17811-30A |

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Internal targets



External targets



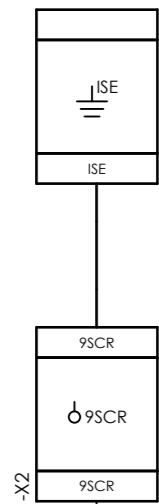
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| EQUIPMENT LOCATION | Iran, Onshore |
| THIS DRAWING IS OWNED BY AIRPACK, AND SHALL NOT BE PRINTED OR COPIED IN ANY OTHER WAY THAN WITH AIRPACKS PERMISSION! | |

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| SUBJECT | | Cable-connection diagram =20-C-1002+JIAX-C1002-01-PIT-10157 |
| ADAPTED TO P&ID REVISION | 06 | |
| CLIENT | Bushehr Petrochemical Company (BUPC) | |
| CLIENT REF. | Bushehr MEG Plant Project | |
| AIRPACK REF. | 17811-30A | |

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Internal targets

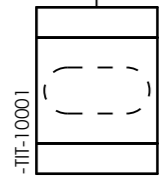


X2

=20-C-1002+JIAX-C1002-01-PIT-10158



-TIT-10001



External targets

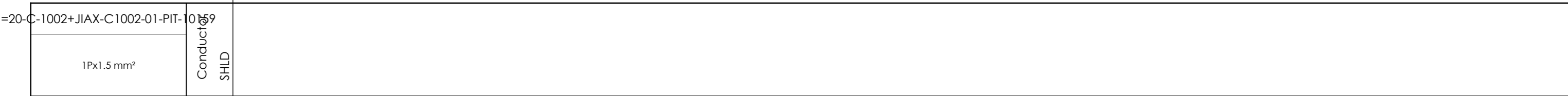
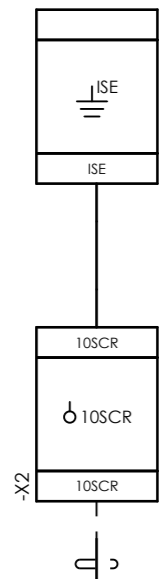


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| CLIENT DWG NO. | BU-20-VD-303-IN-DIG-0043 |
| EQUIPMENT NO. | 20-C-1002 |
| EQUIPMENT LOCATION | Iran, Onshore |
| THIS DRAWING IS OWNED BY AIRPACK, AND SHALL NOT BE PRINTED OR COPIED IN ANY OTHER WAY THAN WITH AIRPACKS PERMISSION! | |

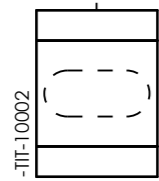
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| ADAPTED TO P&ID REVISION | 06 | CLIENT | Bushehr Petrochemical Company (BUPC) |
| CLIENT REF. | Bushehr MEG Plant Project | AIRPACK REF. | 17811-30A |

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Internal targets



External targets

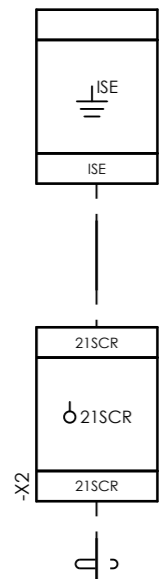


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| EQUIPMENT NO. | 20-C-1002 |
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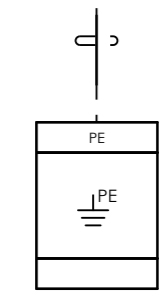
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| CLIENT REF. | Bushehr MEG Plant Project | AIRPACK REF. | 17811-30A |

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| REVISION | 02 | |
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Internal targets



=20-C-1002+JIAX-C1002-01-PV-10151
 Conductor
 SHLD
 1Px1.5 mm²



External targets

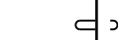
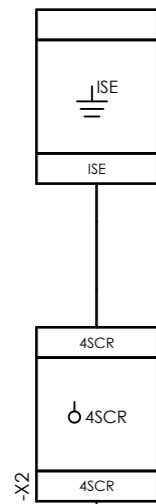


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| EQUIPMENT NO. | 20-C-1002 |
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| THIS DRAWING IS OWNED BY AIRPACK, AND SHALL NOT BE PRINTED OR COPIED IN ANY OTHER WAY THAN WITH AIRPACKS PERMISSION! | |

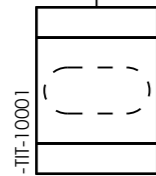
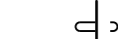
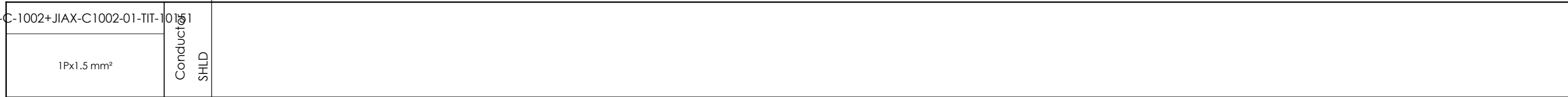
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| CLIENT REF. | Bushehr MEG Plant Project |
| AIRPACK REF. | 17811-30A |

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| REVISION | 02 | |
| TOTAL PAGE AMOUNT | 23 | |

Internal targets



=20-C-1002+JIAX-C1002-01-TIT-10151



External targets



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|--------------------|--------------------------|
| CLIENT DWG NO. | BU-20-VD-303-IN-DIG-0043 |
| EQUIPMENT NO. | 20-C-1002 |
| EQUIPMENT LOCATION | Iran, Onshore |

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| SUBJECT | |
| Cable-connection diagram =20-C-1002+JIAX-C1002-01-TIT-10151 | |
| ADAPTED TO P&ID REVISION | 06 |

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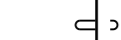
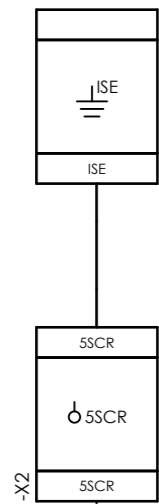
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| | |
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| CLIENT | Bushehr Petrochemical Company (BUPC) |
| CLIENT REF. | Bushehr MEG Plant Project |
| AIRPACK REF. | 17811-30A |

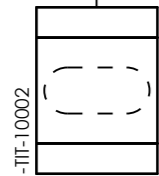
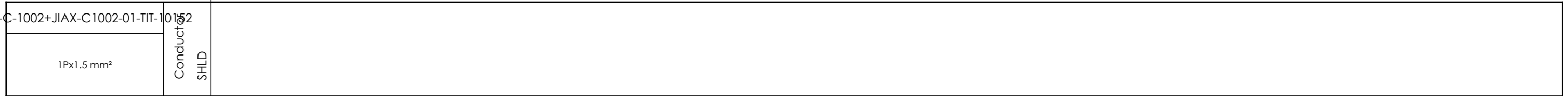
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CURRENT PAGE

Internal targets



=20-C-1002+JIAX-C1002-01-TIT-10152



External targets



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|--------------------|--------------------------|
| CLIENT DWG NO. | BU-20-VD-303-IN-DIG-0043 |
| EQUIPMENT NO. | 20-C-1002 |
| EQUIPMENT LOCATION | Iran, Onshore |

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| ADAPTED TO P&ID REVISION | 06 |

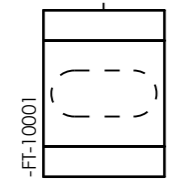
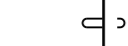
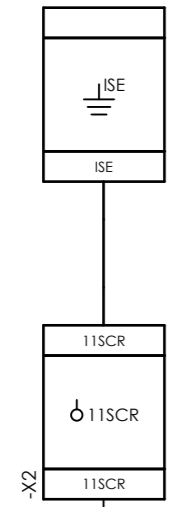
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| | |
|--------------|--------------------------------------|
| CLIENT | Bushehr Petrochemical Company (BUPC) |
| CLIENT REF. | Bushehr MEG Plant Project |
| AIRPACK REF. | 17811-30A |

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Internal targets

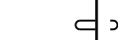
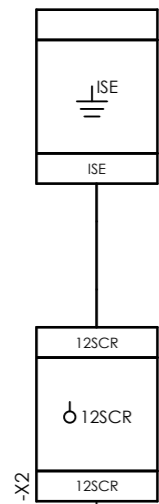


External targets

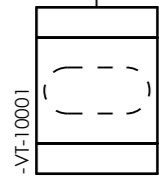
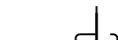
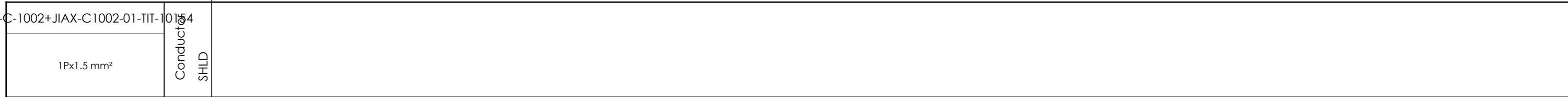


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| CLIENT DWG NO. | BU-20-VD-303-IN-DIG-0043 | SUBJECT | | DRAWN BY | RTR | = |
| EQUIPMENT NO. | 20-C-1002 | Cable-connection diagram =20-C-1002+JIAX-C1002-01-TIT-10153 | | CHECKED BY | RBE | + |
| EQUIPMENT LOCATION | Iran, Onshore | ADAPTED TO P&ID REVISION | 06 | LAST MODIFICATION DATE | | CURRENT PAGE |
| THIS DRAWING IS OWNED BY AIRPACK, AND SHALL NOT BE PRINTED OR COPIED IN ANY OTHER WAY THAN WITH AIRPACKS PERMISSION! | | CLIENT | Bushehr Petrochemical Company (BUPC) | AIRPACK DWG NO. | 17811-05 | |
| | | CLIENT REF. | Bushehr MEG Plant Project | REVISION | 02 | |
| | | AIRPACK REF. | 17811-30A | TOTAL PAGE AMOUNT | 26 | |

Internal targets



=20-C-1002+JIAX-C1002-01-TIT-10154



External targets

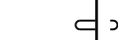
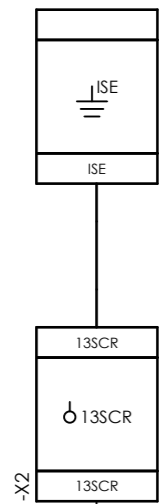


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| CLIENT DWG NO. | BU-20-VD-303-IN-DIG-0043 |
| EQUIPMENT NO. | 20-C-1002 |
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| THIS DRAWING IS OWNED BY AIRPACK, AND SHALL NOT BE PRINTED OR COPIED IN ANY OTHER WAY THAN WITH AIRPACKS PERMISSION! | |

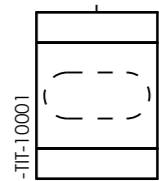
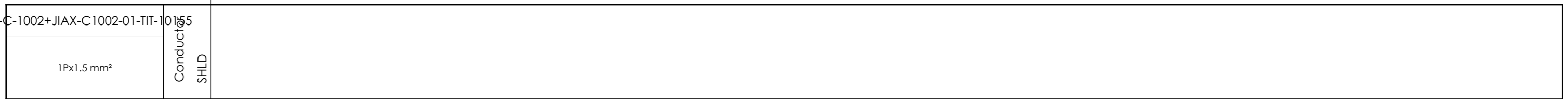
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| ADAPTED TO P&ID REVISION | 06 |
| CLIENT | Bushehr Petrochemical Company (BUPC) |
| CLIENT REF. | Bushehr MEG Plant Project |
| AIRPACK REF. | 17811-30A |

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| DRAWN BY | RTR | = |
| CHECKED BY | RBE | + |
| LAST MODIFICATION DATE | | CURRENT PAGE |
| AIRPACK DWG NO. | 17811-05 | |
| REVISION | 02 | |
| TOTAL PAGE AMOUNT | 27 | |

Internal targets



=20-C-1002+JIAX-C1002-01-TIT-10155



External targets

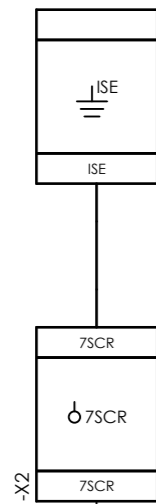


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| EQUIPMENT LOCATION | Iran, Onshore |
| THIS DRAWING IS OWNED BY AIRPACK, AND SHALL NOT BE PRINTED OR COPIED IN ANY OTHER WAY THAN WITH AIRPACKS PERMISSION! | |

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| SUBJECT | | Cable-connection diagram =20-C-1002+JIAX-C1002-01-TIT-10155 | |
| ADAPTED TO P&ID REVISION | 06 | CLIENT | Bushehr Petrochemical Company (BUPC) |
| CLIENT REF. | Bushehr MEG Plant Project | AIRPACK REF. | 17811-30A |

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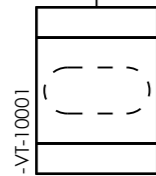
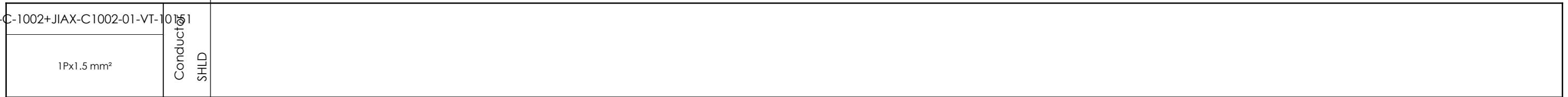
Internal targets



-X2



=20-C-1002+JIAX-C1002-01-VT-10151



External targets



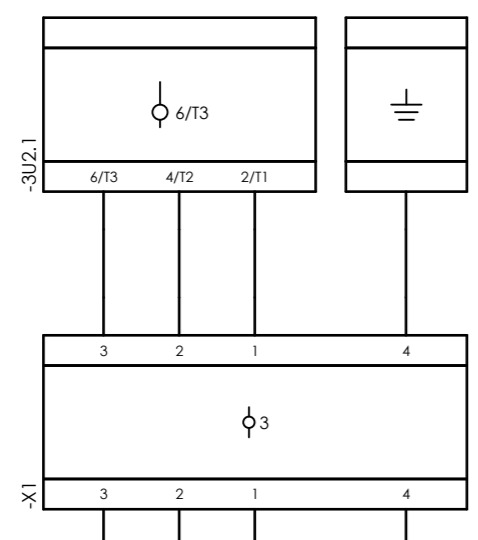
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| EQUIPMENT NO. | 20-C-1002 |
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THIS DRAWING IS OWNED BY AIRPACK, AND SHALL NOT BE PRINTED OR COPIED IN ANY OTHER WAY THAN WITH AIRPACKS PERMISSION!

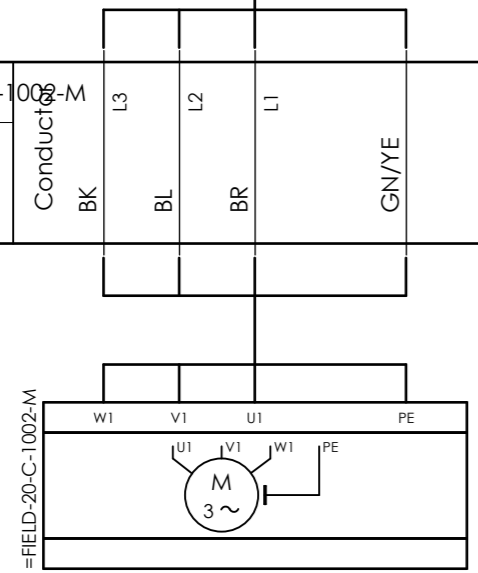
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| ADAPTED TO P&ID REVISION | 06 | CLIENT | Bushehr Petrochemical Company (BUPC) |
| CLIENT REF. | Bushehr MEG Plant Project | AIRPACK REF. | 17811-30A |

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| DRAWN BY | RTR | = |
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| REVISION | 02 | |
| TOTAL PAGE AMOUNT | 29 | |

Internal targets



External targets

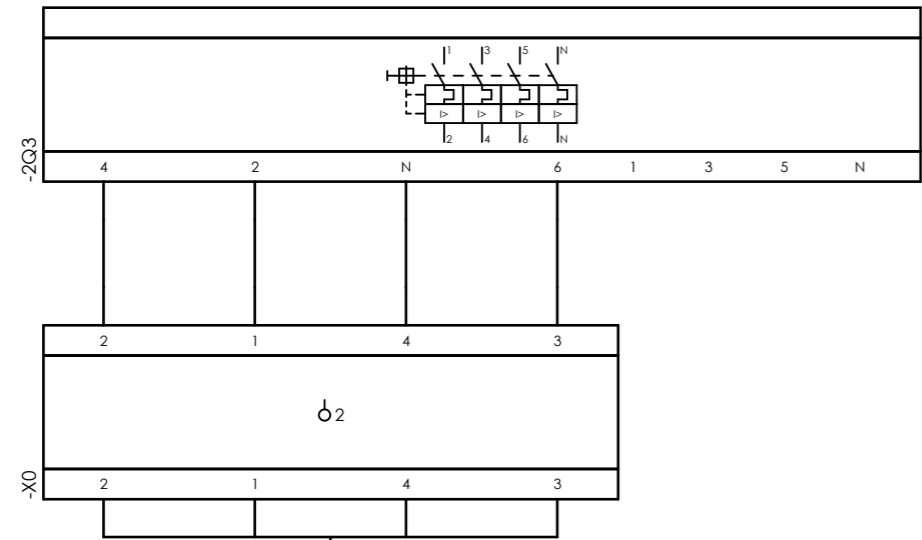


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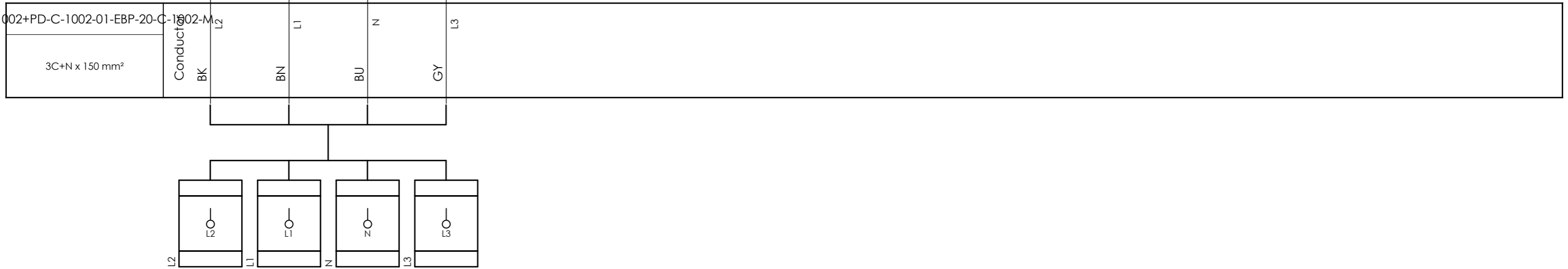
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| CLIENT | Bushehr Petrochemical Company (BUPC) |
| CLIENT REF. | Bushehr MEG Plant Project |
| AIRPACK REF. | 17811-30A |

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| DRAWN BY | RTR | = |
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Internal targets



External targets



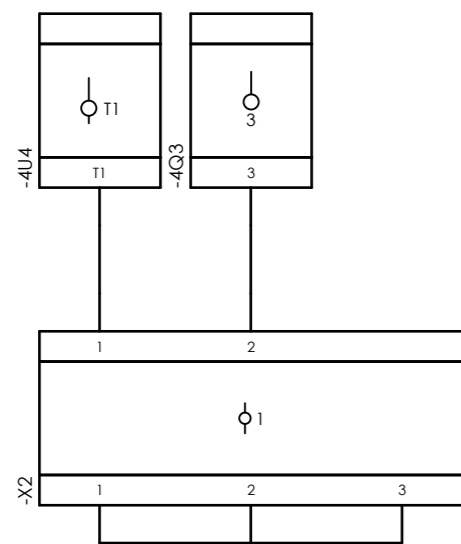
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| EQUIPMENT LOCATION | Iran, Onshore |
| THIS DRAWING IS OWNED BY AIRPACK, AND SHALL NOT BE PRINTED OR COPIED IN ANY OTHER WAY THAN WITH AIRPACKS PERMISSION! | |

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| SUBJECT | | Cable-connection diagram =20-C-1002+PD-C-1002-01-EBP-20-C-1002-M |
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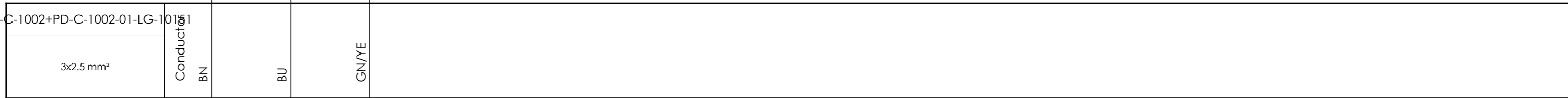
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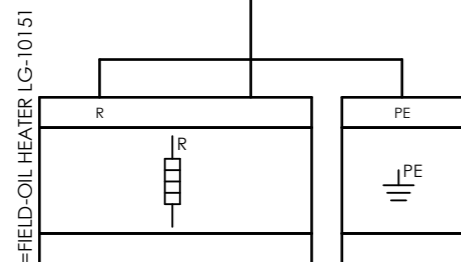
Internal targets



=20-C-1002+PD-C-1002-01-LG-10151



External targets



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| EQUIPMENT NO. | 20-C-1002 |
| EQUIPMENT LOCATION | Iran, Onshore |
| THIS DRAWING IS OWNED BY AIRPACK, AND SHALL NOT BE PRINTED OR COPIED IN ANY OTHER WAY THAN WITH AIRPACKS PERMISSION! | |

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| CLIENT REF. | Bushehr MEG Plant Project | AIRPACK REF. | 17811-30A |

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