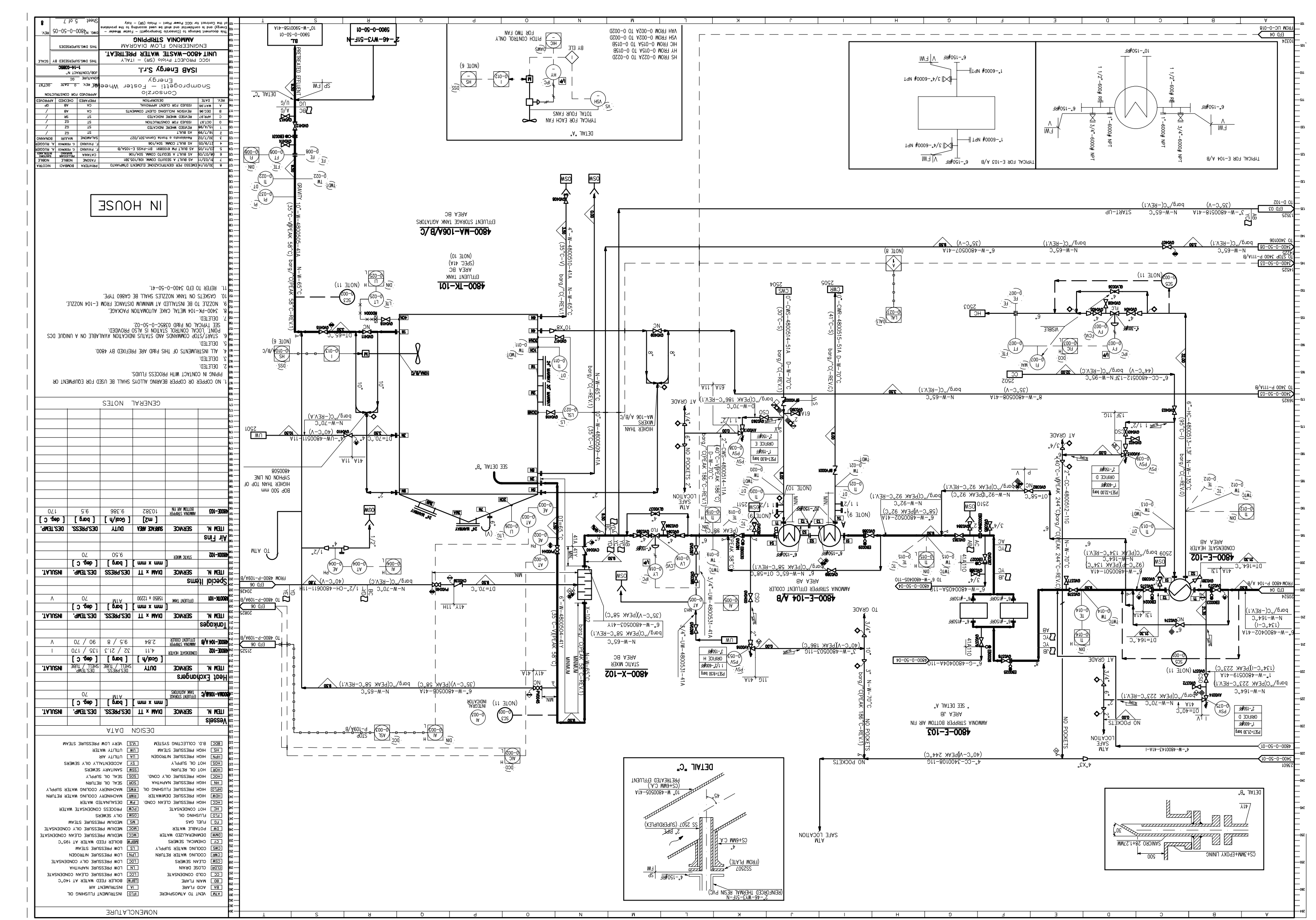
4800-MA-106A/B/C
EFFLUENT STORAGE TANK AGITATORS AREA BC
4800-TK-101
EFFLENT TANK AREA BC (SPEC. 41A) (NOTE 10)
4800-X-102
STATIC MIXER AREA BC
4800-E-104 A/B
AMMONIA STRIPPER EFFLUENT COOLER AREA AB
4800-E-103
AMMONIA STRIPPER BOTTOM AIR FIN AREA JB
4800-E-102
CONDENSATE HEATER AREA AB
IN HOUSE
GENERAL NOTES
1. NO COPPER OR COPPER BEARING ALOYS SHALL BE USED FOR EQUIPMENT OR PIPING IN CONTACT WITH PROCESS FLUIDS.
2. DELETED.
3. DELETED.
4. ALL INSTRUMENTS OF THIS P&ID ARE PREFIXED BY 4800.
5. DELETED.
6. START/STOP COMMANDS AND STATUS INDICATION AVAILABLE ON A UNIQUE DCS POINT. LOCAL CONTROL STATION IS ALSO PROVIDED.
7. DELETED.
8. 3400-PK-104 METAL CAKE AUTOMATION PACKAGE.
9. NOZZLE TO BE INSTALLED AT MINIMUM DISTANCE FROM E-104 NOZZLE.
10. GASKETS ON TANK NOZZLES SHALL BE GA860 TYPE.
11. REFER TO EFD 3400-0-50-41.
DESIGN DATA
Vessels
ITEM N. | SERVICE | DIAM x T | DES.PRESS. | DES.TEMP. | INSULAT.
[ ] | [ ] | [mm x mm] | [barg] | [deg. C] |
4800A-106A/B/C | EFFLUENT STORAGE TANK AGITATORS | ATM | 70
Heat Exchangers
ITEM N. | SERVICE | DUTY | DES.PRESS. | DES.TEMP. | INSULAT.
[ ] | [ ] | [Gcal/h] | SHELL / TUBE | SHELL / TUBE | [deg. C] | [deg. C]
4800E-102 | CONDENSATE HEATER | 4.11 | 32 / 21.3 | 135 / 170 | I
4800E-104 A/B | AMMONIA STRIPPER EFFLUENT COOLER | 2.84 | 9.5 / 8 | 90 / 70 | V
Tankages
ITEM N. | SERVICE | DIAM x T | DES.PRESS. | DES.TEMP. | INSULAT.
[ ] | [ ] | [mm x mm] | [barg] | [deg. C] |
4800TK-101 | EFFLENT TANK | 15850 x 12200 | ATM | 70 | V
Special Items
ITEM N. | SERVICE | DIAM x T | DES.PRESS. | DES.TEMP. | INSULAT.
[ ] | [ ] | [mm x mm] | [barg] | [deg. C] |
4800X-102 | STATIC MIXER | | 9.50 | 70
4800E-103 | AMMONIA STRIPPER BOTTOM AIR FIN | 10382 | 9.386 | 9.5 | 170
ITEM N. | SERVICE | SURFACE AREA | DUTY | DES.PRESS. | DES.TEMP.
[ ] | [ ] | [m2] | [Gcal/h] | [barg] | [deg. C]
Air Fins
ITEM N. | SERVICE | DUTY | DES.PRESS. | DES.TEMP.
[ ] | [ ] | [Gcal/h] | [barg] | [deg. C]
4800E-102 | CONDENSATE HEATER | 4.11 | 32 / 21.3 | 135 / 170
4800E-104 A/B | AMMONIA STRIPPER EFFLUENT COOLER | 2.84 | 9.5 / 8 | 90 / 70
4800E-103 | AMMONIA STRIPPER BOTTOM AIR FIN | 10382 | 9.386 | 9.5 | 170
NOMENCLATURE
ATM | VENT TO ATMOSPHERE | IFLO | INSTRUMENT FLUSHING OIL
BA | ACID FLARE | IA | INSTRUMENT AIR
BD | MAIN FLARE | LBFW | BOILER FEED WATER AT 140°C
CC | COLD CONDENSATE | LCC | LOW PRESSURE CLEAN CONDENSATE
CD | CLOSE DRAIN | LN | LOW PRESSURE NAPHTHA
CSW | CLEAN SEWERS | LOO | LOW PRESSURE OILY CONDENSATE
CWR | COOLING WATER RETURN | LPN | LOW PRESSURE NITROGEN
CWS | COOLING WATER SUPPLY | LS | LOW PRESSURE STEAM
CY | CHEMICAL SEWERS | MBFW | BOILER FEED WATER AT 195°C
DMW | DEMINERALIZED WATER | MCC | MEDIUM PRESSURE CLEAN CONDENSATE
DW | POTABLE WATER | MOC | MEDIUM PRESSURE OILY CONDENSATE
FO | FUEL GAS | MS | MEDIUM PRESSURE STEAM
FLO | FLUSHING OIL | OSW | OILY SEWERS
HC | HOT CONDENSATE | PCW | PROCESS CONDENSATE WATER
HCS | HIGH PRESSURE CLEAN COND. | PW | DESALINATED WATER
HDW | HIGH PRESSURE DEMINWATER | RMS | MACHINERY COOLING WATER RETURN
HFLO | HIGH PRESSURE FLUSHING OIL | RMS | MACHINERY COOLING WATER SUPPLY
HN | HIGH PRESSURE NAPHTHA | SOR | SEAL OIL RETURN
HOC | HIGH PRESSURE OILY COND. | SOS | SEAL OIL SUPPLY
HOR | HOT OIL RETURN | SSW | SANITARY SEWERS
HOS | HOT OIL SUPPLY | SY | ACCIDENTALLY OILY SEWERS
HPN | HIGH PRESSURE NITROGEN | UA | UTILITY AIR
HS | HIGH PRESSURE STEAM | UW | UTILITY WATER
IBDC | B.D. COLLECTING SYSTEM | VLS | VERY LOW PRESSURE STEAM
Consorzio Somprogetti – Foster Wheeler Energy
ISAB Energy S.r.l.
IGCC PROJECT Priolo (SR) – ITALY
ENGINEERING FLOW DIAGRAM
AMMONIA STRIPPING
UNIT 4800–WASTE WATER RETREAT.
THIS DWG.SUPERSEDES
DWG N.4800-0-50-05 REV.
Sheet 5 of 7
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