ATM	VENT TO ATMOSPHERE
BA	ACID FLARE
BD	MAIN FLARE
CC	COLD CONDENSATE
CLDR	CLOSE DRAIN
CSW	CLEAN SEWERS
CWR	COOLING WATER RETURN
CWS	COOLING WATER SUPPLY
CY	CHEMICAL SEWERS
DMW	DEMINERALIZED WATER
DW	POTABLE WATER
FG	FUEL GAS
FLO	FLUSHING OIL
HC	HOT CONDENSATE
HCC	HIGH PRESSURE CLEAN COND.
HDW	HIGH PRESSURE DEMIWATER
HFLO	HIGH PRESSURE FLUSHING OIL
HN	HIGH PRESSURE NAPHTHA
HOC	HIGH PRESSURE OILY COND.
HOR	HOT OIL RETURN
HOS	HOT OIL SUPPLY
HPN	HIGH PRESSURE NITROGEN
HS	HIGH PRESSURE STEAM
BDC	B.D. COLLECTING SYSTEM
IFLO	INSTRUMENT FLUSHING OIL
IA	INSTRUMENT AIR
LBFW	BOILER FEED WATER AT 140°C
LCC	LOW PRESSURE CLEAN CONDENSATE
LN	LOW PRESSURE NAPHTHA
LOC	LOW PRESSURE OILY CONDENSATE
LPN	LOW PRESSURE NITROGEN
LS	LOW PRESSURE STEAM
MBFW	BOILER FEED WATER AT 195°C
MCC	MEDIUM PRESSURE CLEAN CONDENSATE
MOC	MEDIUM PRESSURE OILY CONDENSATE
MS	MEDIUM PRESSURE STEAM
OSW	OILY SEWERS
PCW	PROCESS CONDENSATE WATER
PW	DESALINATED WATER
RWR	MACHINERY COOLING WATER RETURN
RWS	MACHINERY COOLING WATER SUPPLY
SOR	SEAL OIL RETURN
SOS	SEAL OIL SUPPLY
SSW	SANITARY SEWERS
SY	ACCIDENTALLY OILY SEWERS
UA	UTILITY AIR
UW	UTILITY WATER
VLS	VERY LOW PRESSURE STEAM

DESIGN DATA

ITEM N.	SERVICE	NOMINAL CAPACITY	I.D. x LENGHT	DESIGN PRESSURE	TEMPERATURE DESIGN / OPERATIVE
		[m^3]	[mm x mm]	[atm]	[deg. °C]
5000-D-101	FORMED OIL FROM 5000-TK-101A/B	10.7	1600 x 4500	1	60 / 30

PUMP					
ITEM N.	SERVICE	RATED CAPACITY	DENSITY AT PUMP TEMP.	PRESSURE, SUCTION / DISCH.	ABSORBER POWER
		[m^3/h]	[kg/m^3]	[barg]	[kW]
5000-P-103A/B	WATER FROM 5000-D-101	1.1	1000	0.12/1.2	0.2
5000-P-104A/B	SLOP FROM 5000-D-101	8	900/1000	0.16/6	6
5000-P-106A/B	OIL TRANSFER PUMPS	1	900/1000	atm/1.2	0.1
5000-P-113A/B	WASTE WATER TO IAS	250	1000	-/5	68

SUMP					
ITEM N.	SERVICE	NOMINAL CAPACITY	LENGHT x WIDTH	HEIGHT	DESIGN TEMP.
		[m^3]	[mm x mm]	[mm]	[deg. °C]
5000-S-104	DRAINS FROM D-101 P-103A/B & P-104A/B	10	–	–	60
5000-S-105	DRAINS FROM S-101 TK-102 & P-106A/B	85	–	–	60
5000-S-107	TWO CHANNEL API SEPARATOR	72	15000 x 5200	1500	60
5000-S-113	OILY AND GREY WATER COLLECTING SUMP	60	5500 x 5000	3000	60

TANK					
ITEM N.	SERVICE	I.D. x HEIGHT	NOMINAL CAPACITY	DESIGN TEMP.	DESIGN PRESSURE
		[mm x mm]	[m^3]	[deg. °C]	[atm]
5000-TK-102	OILY DRAINS TANK	950 x 1250	1	60	1

GENERAL NOTES

1) FOR NOTES SYMBOLS & DETAILS SEE DWG. 0-50-01.
2) ALL INSTRUMENT TAGS SHOWN ON THIS P&ID HAVE DIGITS "5000" AS A PREFIX.
3) FOR SAMPLE POINT ARRANGEMENT SEE DWG. N° 00-GA-A-60063.

NOTES

1) (DELETED).
2) INTERNAL PERFORATED TUBES.
3) SELF-PRIMING PUMPS TYPE.
4) (DELETED).
5) START/STOP COMMANDS AND STATUS RUN. INDICATION AVAILABLE ON A UNIQUE DCS POINT. LOCAL CONTROL STATION IS ALSO PROVIDED.
6) FT-0-004 HAS BEEN LOCATED IN UNIT 5900.

SERVICE		REFERENCE P&I DIAGRAM
IA	LPN	DWG. 5300-GD-B-6920

Il presente disegno costituisce un nuovo formato elettronico del disegno di stesso numero Rev. 15 emesso dal consorzio Snamprogetti-Foster Wheeler

REV.	DATA	DESCRIZIONE	PREP.	DIS.	CONTR.	APPR.
17	12-09-22	INSERITA PRESA CAMPIONE SU MANDATA POMPA S113.		D.F.	L.I.	D.R.
16	20-07-09	AS BUILT COMM. S03/319 – S04/109		MIDOLO	PELLICCIARI RIZZA S.	SANTORO SUMMA
15	23-12-05	AS BUILT COMM. S04/109		PAVANO	RUGGIERI	RUGGIERI
14	09-11-05	AS BUILT COMM. S04/607		PAVANO	FEDERICO	RUGGIERI
13	27-09-05	AS BUILT COMM. S04/106		PAVANO	FEDERICO	RUGGIERI
12	27-09-05	AS BUILT COMM. S03/319		PAVANO	RUGGIERI	RUGGIERI
11	18-11-03	AS BUILT AL 18/11/03	SALAMONE	MARANO	MAJURI	BONANNO
10	15-11-02	REVISED WHERE INDICATED		SALAMONE	MAJURI	BONANNO
9	11-12-00	AS BUILT REVISION AT NOVEMBER / 2000		ROPPOLO	BETTINO	LA MANTIA
8	31-05-99	REVISED AS BUILT		ROPPOLO	BETTINO	LA MANTIA
7	20-04-98	REVISED WHERE INDICATED ◆ AND FURTHER MACC.		ROPPOLO	BETTINO	LA MANTIA

ISAB Energy

Questo disegno non puo' essere ne' riprodotto ne' comunicato a terzi, senza l'approvazione della ISAB Energy.

OGGETTO: UNIT 5000

TITOLO: OIL SEWER WATER

P&I DIAGRAM (2 OF 4)

IMPIANTO: 5000

DIS.	CONTR.	APPR.
DATA	SCALA	COMM.

N°: 5000-GD-A-86222 REV. 17