



POS.	DESCRIPTION	ITEM
1	ENGINE WATER TEMPERATURE GAUGE	
2	LOW WATER LEVEL SWITCH (ENGINE) - ALARM	
3	WATER LEVEL GAUGE (ENGINE)	
4	PRECIRCULATION WATER ELECTRIC PUMP	
5	ENGINE MAX WATER TEMPERATURE SWITCH - TRIP	
6	ENGINE HIGH WATER TEMPERATURE SWITCH - ALARM	
7	ENGINE WATER PREHEATING RESISTORS (9HW)	
8	LOW WATER LEVEL SWITCH (AFTERCOOLER) - ALARM	
9	WATER LEVEL GAUGE (AFTERCOOLER)	
10	AFTERCOOLER WATER TEMPERATURE SWITCH	
11	AFTERCOOLER HIGH WATER TEMPERATURE SWITCH - TRIP	
12	AFTERCOOLER HIGH WATER TEMPERATURE SWITCH - ALARM	
13	ENGINE LOW WATER TEMPERATURE SWITCH - ALARM	

NOTES:
 1. COOLING SYSTEM IS PROVIDED FOR EACH EMERGENCY GENERATOR

OPERATION LOGIC
 - AIR COOLERS FANS START ALL TOGETHER WHEN THE DG SET STARTS AND STOP WHEN THE DG SET STOPS.
 - WATER PREHEATING AND PRE-CIRCULATION WATER PUMP ARE "ON" WHEN THE DG SET IS NOT RUNNING AND ARE "OFF" WHEN THE DG SET IS RUNNING.
 - ALL THIS SEQUENCE ARE CONTROLLED BY THE DG SET CONTROL PANEL FITTED INSIDE CONTAINER

REV.	DATE	DESCRIPTION	COMP.	REV.	DATE	DESCRIPTION
1	30-09-08	FOR FINAL	M.B.	M.B.	F.Barrat	G.Bono
0	20-11-07	FIRST ISSUE	M.B.	M.B.	F.Barrat	G.Bono

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CLIENTE: GS IMPIANTO: SALALAH
 client: plant: Scale / Scale: 1 / 1
 TITOLO/Title: P&ID COOLING CIRCUIT
 REV. 0 1 1
 DOC. N. 943-M-011
 Doc. no.

QUESTO DOCUMENTO E TUTTE LE ANNOTAZIONI AD ESSO SONO PRELIMINARI E NON DEVONO ESSERE USATE PER SCOPI OPERATIVI. PER ULTERIORI INFORMAZIONI, SI RIFERISCE ALLE SPECIFICAZIONI TECNICHE E ALLE CONDIZIONI DI FORNITURA.
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SALALAH METHANOL PROJECT
 Salalah, Sultanate of Oman

MFR

ENG'G GS E&C Corporation
 SEOUL, KOREA

DRAWING TITLE: P&ID COOLING CIRCUIT (20-22902)

UNIT NO. 29	DRAWING NO. 7S72-VP-PO-EL001-003	REV. 1
SCALE /	JOB. NO. 7S72	

CLIENT: GS ENGINEERING
 ORDER N° 6608

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DRN. BY: A.N.
 DATE: 20-11-07
 APPD. BY:
 DATE:

TITLE: P&ID COOLING CIRCUIT
 SHEET SIZE: A1
 ORIGINAL SCALE: /
 DRAWING N°: 6608-P-701
 REV. 2

THIS DRAWING AND THE DESIGN SHOWN ARE THE PROPERTY OF C.T.M. S.p.A. AND MUST NOT BE USED OR COPIED WITHOUT THEIR PERMISSION
 ALL DIMENSIONS IN MILLIMETERS UNLESS OTHERWISE STATED
 3rd ANGLE PROJECTION

REV.	DESCRIPTION	BY	DATE	APPROVED
2	FOR FINAL	A.N.	30-09-08	
1	CLIENT COMMENTS INCORPORATED	A.N.	30-09-08	
0	FIRST ISSUE	A.N.	20-11-07	

TOLERANCES EXCEPT WHERE OTHERWISE STATED
 0 - 500mm, ± 1mm.
 500-2000mm, ± 2mm.
 OVER 2000mm, ± 3mm.
 STRUCTURAL ANGULAR ± 0.5°

DO NOT SCALE