

4. SAFE AND CORRECT USE OF THE DIESEL UPS SYSTEM

4.1 General warning statements

- DANGER** The Power Generating Module may start up automatically. Do not perform any activities on or near the Power Generating Module unless all necessary safety precautions have been taken (see section D).
- DANGER** Do not remove any protective covers from the Power Generating Module or the Electrical Panels. Rotating parts or live conductive parts may cause serious injuries or death!
- WARNING** The diesel engine exhaust manifolds can have operating temperatures of several hundred degrees centigrade and may cause serious burns.
- WARNING** The cooling water circuit has an operating temperature up to 100 degrees centigrade and may cause serious burns.
- WARNING** If no protective ear cover is worn when entering Power Module Room, the operating noise may cause serious affection of the sense of hearing.
- DANGER** Do not perform any activities on the electrical circuit of the starting batteries. Short-circuiting of the battery poles or the starter motor terminals may lead to explosion of the batteries, which may cause serious injuries or death!
- DANGER** No smoking or open fire is allowed in the rooms where Power Generating Module(s) and/ or fuel system and/or starting batteries are located. Smoking or open fire may lead to explosion, which may cause serious injuries or death!
- CAUTION** Be aware of the possibility of leakage of oil, fuel or water and the related risk of slipping. Always remove leaked liquids immediately!
- CAUTION** In reference to Electro-Magnetic Compatibility (EMC), the UPS system is seen as a class A product. In a domestic environment this product may cause "radio interference" in which case the user may be required to take adequate measures.

4.2 General information regarding safe operation

Read this "User Guide" carefully and pay special attention to operating instructions in section D. Wrong operation may cause considerable damage to the equipment.

For safety reasons special attention has to be given to the following:

- In case of **fire**, act according to local "fire regulations".
- Be aware of all escape ways.
- Be aware of the fact that an UPS unit can **start-up automatically** when in "on" position.
- Be aware of the **Emergency Stop Function**.
When activated, the emergency stop function will change the loads over to bypass and stop the UPS system.
In case of no mains voltage present, it will switch off all loads.
- For **preventive maintenance** activities, it is recommended to check the rooms where the diesel UPS system is situated on following items (daily):
 - Leakage of any fluid
 - Presence of protection covers on rotating parts
 - Presence of protection covers on diesel engine exhaust manifolds
 - Presence of protection covers on electrical parts
 - Grounding of metal parts
 - Other checks according maintenance instructions in section E of this "User Guide"

5. ABBREVIATIONS & DEFINITIONS

5.1 Abbreviations

The following abbreviations are used for location of panels or modules:

UCP	Unit Control Panel
UPP	Unit Power Panel
URP	Unit Reactor Panel
BCP	Bypass Control Panel
MCP	Master Control Panel
MPB	Main Power Board
MDB	Main Distribution Board
ADP	Auxiliaries Distribution Panel
ATP	Auxiliaries Transformer Panel
DCP	DC Panel
PGM	Power Generating Module
SRM	System Room
PMR	Power Module Room
GDP	Generator Disconnect Panel
CPR	Control & Panel Room
ODL	Out Door Location
RFL	Roof Location
BRM	Battery Room
FRM	Fuel Room

An explanation of above-mentioned definitions is found in following paragraph.

The following abbreviations can be used for sections inside above panels or modules:

NB	No Break section or destination
SB	Short Break section or destination
BM	Bus Measuring section
MM	Mains Measuring section
OM	Output Measuring section