

## CHAPTER 1

### INTRODUCTION

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**DRESSER-RAND-POWER**

DR61G(000)-1-1-1

**1 GENERAL**

This Operating Manual is comprised of four Parts that together form a 'stand-alone' document for the operation of the Gas Turbine and Driven Equipment. This first Part of the Manual contains the general overviews of the installation and the related documentation. The subsequent Parts cover the Operator Facilities; Operating Procedure and Operator Maintenance for the equipment provided under this contract.

**2 WARNINGS**

Only personnel of approved status should attempt to gain access to either the exposed or enclosed components of the installation.

Furthermore it is of vital importance that all personnel should be aware of the inherent dangers present in the installation, as mentioned briefly in the following.

Due to the high-frequency sounds generated by the gas turbine, when operating, it should be mandatory for all personnel in the proximity of the turbine unit to wear ear protection. Continued exposure to high-frequency noise, without ear protection, can result in partial deafness and loss of balance.

The turbine when on stand-by shall be considered as an operational unit and it should therefore be locked-out to prevent an automatic start (where this facility exists), in the event of a power failure, when working on the unit.

The turbine air inlet ducting or filter should not be serviced while the turbine is running (or on stand-by) as the high-velocity intake of air can draw objects into the unit causing damage and even physical injury.

The turbine exhaust system carries gases at very high temperatures, thus exposed exhaust ducting and other components may have a high surface temperature. Care must be taken to prevent personnel from coming into contact with these surfaces; however, if a burn should be received, immediately apply clean cold water to the affected part, for sufficient time to reduce the initial effects.

If it is necessary to come in physical contact with any components of the turbine ignition system, ensure first that the system is isolated and has had at least 10 minutes to de-energize.

Extreme caution should be exercised when inspecting or carrying out any operations within the control cabinets or alternator electrical connections. All power to the area should be switched off and if applicable the Circuit-Breakers withdrawn and locked in the isolated position.

The power supply batteries for the control system will emit a flammable gas while they are being charged. No smoking or naked lights should therefore be permitted in the area. If the battery electrolyte is splashed on the skin or clothing, apply boric solution or copious quantities of clean water.

It is vital that any physical injury, or burn resulting from contact with either high temperature surfaces, electricity or corrosive liquids, is examined as soon as possible by a qualified medical attendant.

Site management should ensure that notices warning of potential hazards and prohibited actions are prominently displayed; and that all personnel with access to the installation area can understand them or are made aware of the instructions.

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