

DRESSER-RAND-POWER

DR61G(000)-1-2

CHAPTER 1

INTRODUCTION

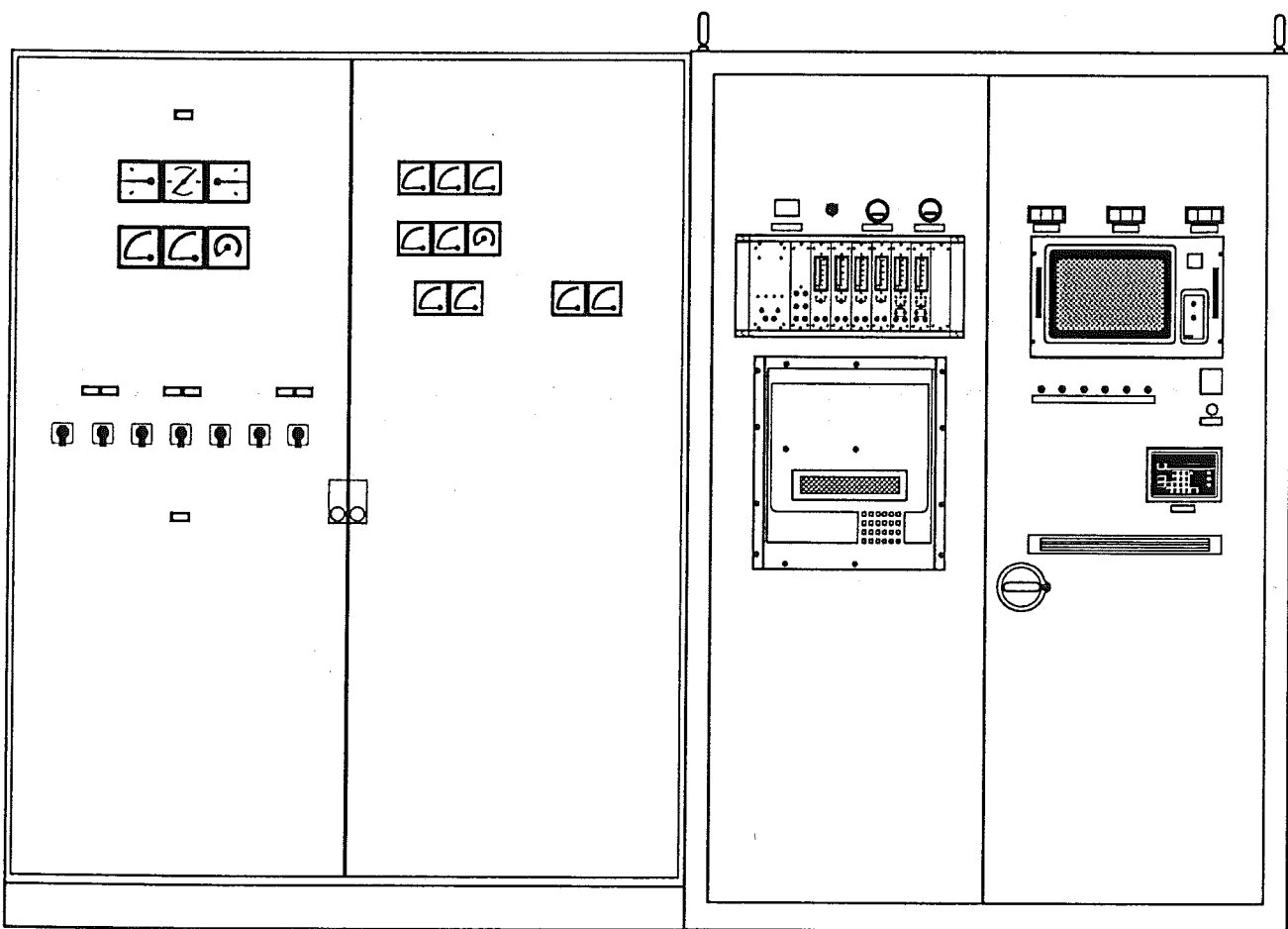


Figure 1.1 - Turbine and Generator Control Cabinets

The Turbine Generator Unit has been installed as a continuous duty system.

During the start sequence, and subsequent operation of the Turbine Generator Unit, monitors will sense if conditions are not correct, or a potential fault is developing, and take the necessary action to protect the unit and systems.

Should the Turbine Generator Unit be on 'stand-by', for an extended period of time, it is desirable to run the Turbine Generator Unit at intervals to keep all systems in good working order and to carry out routine maintenance and operating checks. The controls, in the local Control Room, may be set to allow the operation of the Turbine Generator Units for test procedures.

NOTE: Normal operation of the generator unit will be controlled from a 'Remote' terminal at another location at the installation site. In addition to status indications, the remote terminal provides for the control of those functions operable from the video screen and keyboard of the Turbine Control Panel. Additionally an emergency stop switch is provided at the remote terminal location.

Therefore, where reference is made within this document to 'remote' switching or operation of functions, that reference is to the signals provided to, and from, the remote terminal.

The following Chapters describe the functions of the controls and monitoring equipment provided within local control room. The Control Cabinets within the room are only described where operator facilities exist on the front panel or access within the panel may be required to check and/or reset switches prior to operation of the unit. Those cabinets referred to within this Part of the operating Manual may be found in the following Chapters :

- » Turbine Control Panel (2)
- » Video Display and Keyboard (3)
- » Vibration Monitoring Unit (4)
- » Fuel Control Computer and keypad (5)
- » Steam Flow Computer and keypad (6)
- » Generator Control and Synchronizing Control Panels (7)
- » Generator Protection Panel (8)
- » Motor Control Centre and Circuit-breakers (9)
- » Fire and Gas Detection and CO₂ Release panel (10)
- » DC/DC Converter (11)
- » Rectifier - Battery Charger Cabinets (12)
- » 110 v dc Distribution Panel
- » 220 v ac Distribution Panel

For the setting of the Controls and operating procedure refer to Part 3 of this Manual. Also referred to within Part 3 of this Manual are those operator facilities on the turbine/generator unit and ancillary systems. These facilities are described in Chapter 15.

Chapters 16 and 17 of this Part of the manual describe the Remote Terminal and Datalogger Printer and ancillary items.