

## CHAPTER 12

### RESTART

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**DRESSER-RAND-POWER**

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**1 GENERAL**

The following descriptions relate to the functions and observations made at the Control Panels within the Local Control Room and the Remote Terminal.

**NOTE:** For details of the operator facilities at the Main Computer refer to the installer's documentation.

The gas turbine can be restarted at any time that all the items on the START PERMISSIVE Screen are positive.

In order to restart the unit after operating at an exhaust temperature above 621.1°C within a two hour time period since shut-down, a hot start is required. The starter will crank the unit at 2050 RPM instead of the normal 1200 RPM in order to provide a high speed purge. After the high speed purge is completed, the unit slows to 0 RPM and is cranked at 1200 RPM for the normal start sequence to be followed. Refer to Chapter 5 of this Part of the Operating Manual for the start sequence.

To achieve a 'Permissive to Start' indication and enable a restart the parameters below must be met.

**2 RESTART PARAMETERS**

1. All Shut-down Alarm Indications must be cancelled and the Systems reset at appropriate Control Panel.
2. The Gas Generator speed is below 100 rpm.
3. The Generator Lubricating Oil Pump may still be operating in the final stages of the 10 minute Cool-down period.
4. The 'Gas Fuel Supply Temp' value has to entered at the respective Control Panel. Refer to Chapter 4 of this Part of the Operating Manual for full details of the entry procedure at the respective Control Panel.
5. The PERMISSIVE TO START Indicator on the Turbine Control Panel will be illuminated.

A restart may then be initiated.

**3 RESTART**

At the active Operator Interface Terminal.

1. At the CONTROL FUNCTIONS Screen move the screen cursor to the 'Start' command and depress the ENTER Key to instigate.
2. The 'Start' indication will change colour to yellow to indicate that the sequence has been initiated.
3. The start sequence will proceed as described above and continue to normal running as detailed in Chapter 5 of this Part of the Operating Manual.