

CHAPTER 10

EMERGENCY STOP OR SHUT-DOWN ALARM

List of Contents

Para.	Title	Page
1	GENERAL	10-2
2	SHUT-DOWN SEQUENCE	10-2

DRESSER-RAND-POWER

DR61G(000)-1-3-10

1 GENERAL

An emergency stop may be initiated automatically in the event of a malfunction in the gas turbine generator unit or ancillary systems; or detection of a fire or gas in the unit or environment.

It is also possible to manually instigate an emergency stop by activating an EMERGENCY STOP Switch on the Local Control Room Turbine Control Panel, at the Remote Terminal or on the exterior of the Gas Turbine/Generator Unit Enclosures.

WARNING: These switches must not be used for normal shut-down; only the STOP Control from the appropriate CONTROL FUNCTIONS Screen should be used unless an emergency is considered to exist. Using the Emergency Stop control indiscriminately can invalidate any warranty then currently in force on the turbine generator unit.

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.

A Shut-down Alarm will be instigated where a parameter is exceeded for which continued operation of the Gas Turbine Generator Unit is considered either undesirable or impracticable.

2 SHUT DOWN SEQUENCE

On initiating the Start Sequence Start Hold Relays are energized and remains so all the time that the Gas Turbine Generator Unit is operating normally. Should there be a loss of Control System Power or the Generation of a Shut-down Alarm these Relays are de-energized. All systems are then Shut-down without the benefit of a cool-down sequence.

In addition to functional Alarms generated by the various Control Systems monitoring of the Gas Turbine and Generator Operation a Shut-down can be instigated where an Alarm is given by a Fire or Gas Detection System.

If an Emergency Stop or Shut-down is instigated the observations at the respective display screens will show the following events:

1. Where Control Power is available, the cause of a Shut-down Alarm will be indicated. The audible and visual alarms will be activated.

Refer to Chapter 8 of this Part of the Operating Manual for reference to the generation of an alarm.

2. The Generator and Field Circuit-Breakers will be tripped (where still closed).
3. The gas turbine will immediately begin the Run-down Sequence without running at idle for a cool-down period. *it normal stop*
4. The Turbine Generator will continue with the Run-down sequence described in Chapter 11.