

CHAPTER 11

RUN-DOWN SEQUENCE

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DRESSER-RAND-POWER

DR61G(000)-1-3-11

1 GENERAL

The Run-Down sequence occurs as a result of a Normal or Emergency Stop. Refer to Chapters 9 and 10 for detailed information.

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

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

2 RUN DOWN

During the Run-down sequence the progress can be observed on Video Displays at the Remote Terminal when operating in 'Remote' mode or at the Turbine Control Panel Video Display Unit when operating in 'Local' mode.

The progress of the Run-down sequence can be observed at the respective Control Panel by accessing the correct display screens. The Run-Down sequence proceeds as follows without Operator intervention.

1. The Generator Space Heater will be switched on where not already instigated during a Normal Stop sequence.
2. The Fuel Control Valves are closed. Observe the indication on the respective display.
3. The Gas Generator and Power Turbine Rotor speeds indicated on the respective display screen (and the Turbine Control Panel Meters) will commence to fall.
4. The Exhaust Gas Temperatures shown on the respective display will fall rapidly.

When operating in 'Local' mode the indication on the Turbine Control Panel EXHAUST TEMPERATURE Meter, will fall rapidly. As the temperature reduces below 204°C the HOUR COUNTER on the Turbine Control Panel will cease to record the elapsed time.

5. As the Gas Turbine Power Rotor and Generator Rotor come to rest the Gas Turbine Enclosure Ventilation Fan timer is started to continue ventilation of the enclosure for a further two hours.
6. Also the Generator Lubricating Oil Pump timer commences operation to maintain the circulation of the lubricating oil through the Generator Bearings for ten minutes. This will help remove some of the latent heat from the generator bearings.