

Operation Statistics

for

YAMAMA GT6 – GT9

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1. Log sheet (template): Operating statistics – Gas Turbine monthly report
2. Example

1 Introduction

1.1 Before reading this document

Make sure that you are familiar with the following documents in this manual:

- **Operating Safety**
Deals with the safety precautions concerning the gas turbine and its auxiliary systems.
- **Human-Machine Interface (HMI)**
Describes the basic principles in working with the computerised control system.

1.2 Purpose of this document

The document contains a chapter describing operating statistics for availability and reliability.

The major part to this is registration of the gas turbine performance.

Performance data should be registered by the end of each month in either of the following two ways:

1. By feeding data into our web based Operation Statistics tool, whereby an immediate feed-back is given in the form of an automatically generated report.

This option is open to any customer after having applied for authorisation to access "customers only" information on the Siemens Industrial Turbomachinery AB (SIT) web portal, as specified for his Order no.

Please, use the following web address: www.powergeneration.siemens.com. Choose: /Service Solutions /Industrial power & compression services /E-Service 15 to 50MW and then download the Registration Extranet PDF. This contains both instructions and an application form.

2. By entering data on log sheets - paper copies or electronic templates - and sending them by mail /fax or e-mail to the appointed SIT contact person. For reporting by e-mail a template can be made available.

Attached to this document is a hard copy template: *Operating statistics – gas turbine monthly report* (Appendix A).

2 Operating Statistics

A base for SIT's development of the gas turbine and its service program is the feedback information from our customers. This information makes it possible for us to:

- Direct our development activities to improve availability and reliability.
- Evaluate the operating availability and reliability and in specific cases determine and propose what improving actions should be taken.

The information SIT receives will be evaluated and compiled for a number of purposes:

- Reported problems and failures will be analysed. Severe problems will be detected and actions can be proposed to reduce the risk of reoccurrence.
- Evaluation of each unit's availability and reliability, forced outage factor and scheduled outage factor is done on monthly basis. These figures make it possible for us to follow the outcome of performed availability and reliability improvements in the long term.

Reported problems and malfunctions will be registered in an existing database. The database contains all types of reported failures or other non-conformance events. This data is used in the engineering work for developing the service programs as well as new designs.

Reports on availability and reliability for the unit, including comparison with the main values of the product type, are available on the SIT web-portal.

SIT's comments and recommendations are updated every third month.

For the customer without access to the web-portal, paper copies of the web-portal information for unit, will be sent to the customer every third month.

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