

# Virtual Witness System

The Virtual Witness System is a Web application that shows, in Real time, the measured parameters and the collected data during Factory Standard Centrifugal Compressors and Gas Turbines Tests. GE Oil & Gas Customers can access the application via a secure Internet connection and witness Official Tests from at their sites thus saving money and time.

In order to facilitate the use of the VWS, the graphical pages that are displayed have the same format as those that the Test Bed technician sees during the test.

All the operating parameters such as gas and oil pressures and temperatures, speed, bearing temperatures etc. are monitored in real time. Also the test performance curves can be constantly seen during the progress of the test and compared with the expected curves.

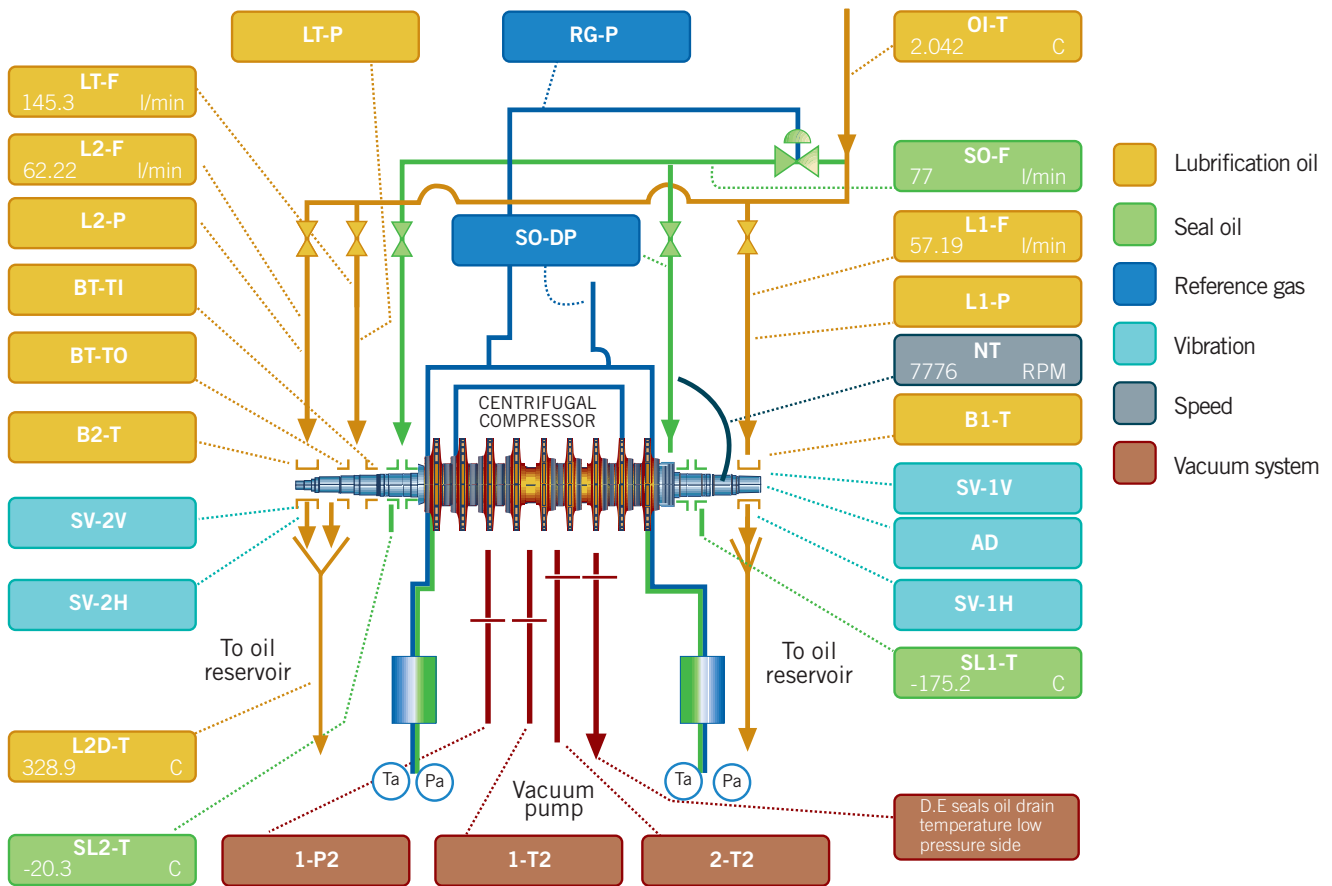


Internet Connection

GE imagination at work



# Mechanical oil seals 2BCL



VWS is available for Centrifugal Compressors mechanical (API 617\*) and Centrifugal Compressors performance (Type II ASME PTC10\*) tests.

The compressor types that can be monitored using VWS are:

- BCL, 2BCL, 3BCL
- MCL, DMCL, 2MCL, 3MCL
- PCL
- SRL

The Gas Turbines models available through this tool for mechanical test (API 616\*) are:

- MS3002, MS5002
- MS5001, MS6001
- PGT5, PGT10
- GE10-2

This tool is also available for performance testing (ASME PTC22\*) of the following Gas Turbines type:

- GE5-1
- GE10-1

The application was built using Web tools that require only a PC with a browser and a connection to the Internet to use VWS.

The tool is accessible from any location once the Customer has been given access to the application. Customers that want access to VWS will be provided with a User ID and Password that guarantees security. When the Customer connects, the system opens a connection dedicated to the Customer that will deny access to unauthorized parties. Confidentiality of the information is guaranteed.

The data displayed by the system are gathered exclusively by Data Acquisitions Systems that collect Test information. No input is allowed by anyone. Therefore the Customer will have a transparent view of what is happening on a Test Bed.

Please ask your Oil & Gas Representative to provide you with access to the Virtual Witness System so that you can benefit from the advantages of witnessing tests directly from your location.

\*according to NP Oil & Gas exceptions



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