

Certificate

No. SEBS-A.111036/15, V1.0

TÜV NORD Systems GmbH & Co. KG hereby certifies

Siemens AG
Power and Gas Division
Functional Integration (PG GT GCO PC FI)
91058 Erlangen
Germany

that the safety related protection system of the Gas Turbine

SGTx-8000H

including the safety instrumented functions Overspeed Protection (capable up to SIL 3),
Flame Monitoring (capable up to SIL 2), Emergency Trip System (capable up to SIL 3),
Overfuel Protection (capable up to SIL 2), Differential Pressure Seal Oil/H₂
(capable up to SIL 2), H₂-Generator Casing Pressure Protection (capable up to SIL 2), Bearing
Casing Protection (capable up to SIL 1), Stator Water Flow Protection (capable up to SIL 2)
and Stator Water Temperature Protection (capable up to SIL 2) meets the applicable
requirements listed in the following standards

- IEC 61508: part 1:2010
- IEC 61511: part 1, chapters 5-7 and 11: 2003

The certification is based on the report No
SEBS-A.111036/15TB in the valid version
adherence to the listed constraints in the
report.

This certificate entitles the holder to use the
pictured Safety Approved mark.

Expiry date: 2020-12-13
Reference No.: 8112507592

Hamburg, 2015-12-14


Bianca Pfuff

Certification body SEECERT
TÜV NORD Systems GmbH & Co. KG
Große Bahnstraße 31, 22525 Hamburg, Germany

