Generator stator cooling air temperature

With regard this, it takes a 150 MW, two-pole air-cooled turbine generator as a test generator, as shown in Fig. 1, stator temperature fields under the ground-wall insulation shellings are ...

In order to try to get an axial temperature distribution in existing stator, we have started to test a commercial DTS system to measure the air temperature using a continuous optic fiber installed as a ...

Addressing generator cooling issues can be approached from two perspectives: firstly, by reducing generator losses, and secondly, by implementing a well-designed cooling structure.

The advantage of using Hydrogen as a cooling media is that it provides efficient cooling due to its low density and high thermal conductivity. A hydrogen cooled generator has greater ...

As the cooling water is pumped around the circuit, heat from the stator coils is reduced. The water is re-circulated in a loop through the ion exchange system to reduce dissolved minerals that can cause ...

Learn the two main ways a generator can be cooled, ensuring reliable performance, efficiency, and longer lifespan.

This document discusses the cooling methods for generators, focusing on thermal ratings, standard duty cycles, and operating conditions. It highlights the advantages of hydrogen cooling over air cooling, ...

In general, the temperature of the stator winding, field winding, iron core, collector ring are about 80°C when the generator is in operation. If it exceeds, it is the temperature rise is too high.

A novel stator teeth internal ventilation structure of the air-cooled turbo-generator is proposed to solve the problem of cooling difficulty in the generator stator.

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