



Generator rotor blade welding



Overview

This work describes the repair procedure conducted on the High Pressure/Intermediate Pressure (HP/IP) and generator rotors of a 180 MW steam turbine General Electric (GE) - STAG207FA type D11 installed at La Sierra Thermoelectric Power Plant in Puerto Nare, Colombia. The paper will present examples of overlay, shape and joint welding which is performed during the fabrication and repair of operationally stressed rotors at Siemens Power Generation. In addition to welding processes, applied materials, thermal requirements during welding and post weld heat. Yes, this one was repair welded with a new stub shaft!! Boiler Compound Buildup - SCC Coming ! This rotor was less than 5 years old ! Weld wire?

Probably not. Thank You !! Orbital Energy Services is the hydro-electric power generation industry's preferred source for precision on-site machining and welding. Our skilled technicians coupled with our specialized equipment enables us to accommodate any customer requirement, from planned maintenance or modernization to. osses due to lost generation. A lubricant supply failure at. The invention relates to a method for welding together rotor shafts and rotor shaft segments (discs), wherein a metal-shielding gas (MSG) narrow gap welding method is used, the welding electrode (3) moving in circulating manner parallel to the shaft surface (22, 23) at a wire-feed speed (v) and.

Article Content

PAW and GTAW Welding Repair of HP/IP and Generator Rotors of a ...

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The invention relates to a method for welding together rotor shafts and rotor shaft segments (discs), wherein a metal-shielding gas (MSG) narrow gap welding method is used, the welding...

CASE STUDY Generator rotor weld repair

Rotor in furnace with the lid open life, and met all operational demands. Post-repair testing confirmed compliance with specifications, and the rotor was rewound, at-speed balanced, and returned to ...

Combined cycle steam turbine repairs and ...

With over 570 rotor welding projects completed, GE Vernova has the experience you can rely on for your combined cycle steam turbine.

REPAIRS ADVANCED ROTOR WELDING

The welding station is capable of performing weld repairs / restorations of steam turbine, gas turbine, and generator rotating fields up to 45" in length, 12" in diameter, and 100 tons in weight.

TURBINE & GENERATOR ROTOR WELD RESTORATION

We possess profound depth and expertise in manual, machine, and remote machine welding. Orbital's custom welding processes are applicable to butt, cladding, fillet, overlay, seal and temper bead weld ...

Repair of the steam turbine rotor by welding.

The repair of a rotor by welding is very profitable, because the cost of a new one is very high. In addition, if a good repair is made, the turbine's downtime will be much less than if the turbine ends up having a ...

Turbine & Generator Rotor Welding to Solve Reliability and ...

Rotor Welding History Rotor welding was developed in the U.S. in the late 1970's
Turbomachinery OEM's will try and sell new rotors to customers versus repair by
welding Thousands of rotors have ...

Welding on Rotors for Power Plant Turbo Sets State of the Art

Figure 1 provides a listing of materials used with the customary permissible operating
temperatures. The paper will present examples of overlay, shape and joint welding
which is performed during the ...

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For more information, pricing, or custom solutions, please contact us:

Website: <https://www.lup.edu.pl>

Email: info@lup.edu.pl

Phone: +48 512 478 936

Address: ul. Marszałkowska 10, 00-001 Warsaw, Poland

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