LINE REACTOR EXCHANGE PROGRAM

Upgrading inductor performance and reliability

• Exchange units available for immediate delivery
  • GE part no. 121X1220FC01
  • Hitran part no. ZP0015-80

• IPS upgrades include:
  • Increased thermal rating
  • Additional cooling ducts
  • Increase in copper conductor
  • Impedance within 1% of rating
  • 1-year warranty

IPS engineers applied their expertise in rewind technologies, insulation systems and equipment design to significantly upgrade the reliability of existing wind turbine line reactors. Our approach to remanufacturing line reactors targets problems instead of symptoms, drilling down for root cause analysis and setting the stage for definitive solutions. Our proprietary line reactor remanufacture process and design upgrades provide superior insulation dielectrics and heat transfer throughout the inductors. The resulting benefits are higher breakdown voltages, increased efficiency and extended service life.

Wind operators exchange their failed line reactors for replacements remanufactured to IPS engineering specifications, and backed by a one-year warranty. When customers place an order, IPS adds a core deposit for the failed unit. Customers have fifteen days to return the failed unit to IPS—once we’ve inspected and approved the returned unit for repair, it becomes a replacement unit and IPS issues a credit for the core charge. Our line reactor exchange program maintains stocked inventory to minimize total downtime. Please call 888-694-6200 to request a quote.

How the IPS Line Reactor Exchange Program works

All line reactors are tested before and after remanufacture

Remanufactured line reactor, including IPS upgrades ready for shipment. (Pictured: Upgraded line reactor for GE 1.5, 1.5S and 1.5SLE turbines)

Exchange units in stock for immediate delivery
IPS WIND POWER SERVICES

UP-TOWER FIELD SERVICES

- Generator and gearbox repair
- Bearing changeouts and upgrades
- Slip ring replacements, refurbishments and upgrades
- Grounding system upgrades
- Rotor lead changeouts
- Housing and component rebuilds
- Brush holder upgrades
- Pitch tube seal replacements
- Up-tower shaft repair
- General labor and maintenance
- Scheduled and emergency maintenance
- Predictive and preventive maintenance, including electric and mechanical diagnostics

IN-SHOP REPAIR SERVICES

- Authorized OEM repair
- Electrical repair
  - Generators—rewind, recondition, mechanical and machining
  - Pitch and yaw motors
  - Oil pump motors
  - Cooling fans
  - Hydraulic pump motors
  - Electronic board repair
- Mechanical repair
  - Generator and gearbox housings
  - Gearboxes and gears
  - Main and High-speed shafts
  - Slip rings
  - Heat exchangers
  - Random-wound coil manufacturing up to 2m
  - Premium VPI systems up to 15 kV

PRODUCTS AND PARTS SALES

- Generator and gearbox components
- Bearings—Steel, Insulated and Ceramic
- Brush holder retrofit
- Replacement motors—pitch, yaw, cooling pump and all metric motors
- High-speed generator couplings
- Pitch control battery pack upgrades
- Generator encoders—hollow and solid shaft
- Power slip rings—new or rebuilt
- Pitch control and custom slip rings
- Shaft grounding systems
- Auto-lubrication systems
- Brake pads
- Brushes and brush holders
- Shaft grounding rings
- Pitch encoders

ONE STANDARD FOR SAFETY, QUALITY AND REPAIRS—ACROSS NORTH AMERICA

WIND POWER FIELD SERVICE
Denver, CO 800.448.0899
Indiana, PA 800.537.0097
Lake Benton, MN 507.368.4015
Portland, OR 800.366.4951
Shreveport, LA 800.366.6030
Sweetwater, TX 325.933.4275
Winnipeg, MB 204.237.6066

WIND POWER DISTRIBUTION
Dassel, MN 320.204.0582

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Winnipeg, MB 204.237.6066

Wind power service centers
Wind power field service
IPS regional service centers

ONE STANDARD FOR SAFETY, QUALITY AND REPAIRS—ACROSS NORTH AMERICA

This repair meets safety, quality and repair standards

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