



Nuclear Regulatory Commission
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SNC000030

Overview of GE Single-Exhaust, Dual-Flow Turbine Designed for “Medium Fossil Applications”



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D Series Fossil Steam Turbines

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For Medium Fossil Applications

GE's D series are full-arc or partial-arc admission, tandem compound reheat steam turbines, ideal for 50 and 60 Hz subcritical and supercritical power generation applications up to 550 MW. D series turbines feature a two-casing, double-flow design for 2,400 or 3,500 PSI applications.

Features & Benefits

- Single-casing HP/IP section reduces turbine hall construction cost and shortens installation time
- Dense Pack™ steam path mean increased stage count, higher reaction
- Integral cover buckets (ICBs) improve tip sealing and reliability
- Partial-arc (2) or full-arc admission: 360-degree nozzle box/plate
- Control valves with individual actuators permit online selection between full-arc and partial-arc admission modes

Product Characteristics

- Power rating: 200-550 MW
- Subcritical or supercritical steam conditions
- Full-arc/partial-arc (2) admission
- Opposed-flow combined HP/IP
- Double-flow LP:
 - 60 Hz: 2x26" / 2x30" / 2x33.5" / 2x40"
 - 50 Hz: 2x26" / 2x33.5" / 2x42" / 2x48"

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