

EQUIPMENT

SUPPLIER NAME

4Q06 Supplier List

☐☐ PROPRIETARY INFORMATION

The below listing identifies key suppliers for **Steam Turbine and Generator** components. It may or may not list all suppliers that have licensees, partnership, or manufacturing arrangements of these suppliers to produce their design. GE may utilize the prime suppliers or their licensees, partners and manufacturing associates interchangeably. GE requires the same level of quality from these suppliers and does qualify, support, and monitor these suppliers with the same basis and level of intensity as the prime suppliers listed below.

All major equipment suppliers listed have the capability to design and manufacture the equipment as defined for the purpose for which it is to be used. These suppliers have previously designed/manufactured functionally equivalent power plant equipment that is similar or equal in capacity and performance for components listed below.

4Q06 Supplier List – Steam Turbine / Generator

Supplier List. Contractor (GE) reserves the right to use other approved suppliers. Contractor reserves the right to select the final supplier.

EQUIPMENT	SUPPLIER NAME
<u>Bucket / Partition Bar Stock</u>	
Bohler- Austria	Carpenter Technologies- USA
Doosan - Korea	Teledyne- USA
Universal Stainless- USA	Patriot Forge-Canada
	Cruesot Loire- France
	Toshiba- Japan
	Gloria - ROC
<u>Bucket / Partition Forgings</u>	
Binder Technologie AG - Switzerland	Bohler- Austria
GTTC- Mexico	Doosan - Korea
LTZL- Russia	Pietro Rosa- Italy
TGTC- Japan	Thyssen- USA
Doncasters, Storms Forge Div.- USA	Consolidated Forge- USA
	Canton Drop Forge MFG- USA
	Interstate Forgings- USA
	Setforge LA-Clayette- France
	Toshiba- Japan
	Nichia - Japan
<u>Couplings</u>	
Arland Tool & MFG Inc-USA	Kop- Flex- USA
Production Tool- USA	Toshiba- Japan
	Lucas- USA
	Zurn- USA
<u>Crossovers/ Bellows Fab & Mach & Assembly</u>	
Badger-USA (Crossovers)	Process Engineering- USA
	Senior Flexonics- USA (Crossovers)
<u>Diaphragm Ring Suppliers</u>	
Frisa- Mexico	Forgital-Italy
Standard Steel- USA	Rotek- USA
Ringmasters- USA	McInnes- USA
Tae Woong – Korea	
<u>Front / Mid- Standard Fab & Machining</u>	
DMD-CHINA	Izar - Spain
Fitchburg Welding- USA	Romenergo SA- Romania
Skoda Turbiny - Czech	Toshiba- Japan
	Marmen- Canada
	SK Plant - Korea
	Warren Fab- USA
TATA –India	Maris Machine Works- USA

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EQUIPMENT		SUPPLIER NAME	
<u>Gears</u>			
Foote Jones/ Illinois gear- USA	Koenig- Germany	Lufkin- USA	
Philadelphia Gear Corp- USA	Brush Electric- Czech	Toshiba- Japan	
Westech- USA			
<u>Generator End Shields and Domes Fab & Machining & Assembly</u>			
Arland Tool & MFG Inc- USA	Brush Electric – Czech Republic	Consorcio Industrial, S A - Mexico	
Doosan Heavy Industries- Korea	Elin-Austria	Fitchburg Welding Co Inc- USA	
Komatsu Mexicana SA DECV- Mexico	Marmen- Canada	Seoul Plant Engineering and Construction- Korea	
Toshiba- Japan			
<u>Generator Stator Frame Fab & Machining</u>			
Brush Electric - Czech Republic	Elin/ VATECH - Austria	Inepar FEM- Brazil	
GE Hydro/Inepar - Brazil	Doosan Heavy Industries- Korea	Hitachi- Japan	
Marmen - Canada	PT Pal - Indonesia	Romenergo SA - Romania	
Toshiba- Japan	Warren Fabrication - USA	Zwack- USA	
PT Perkasa Heavynido – Indonesia	Dong Fang Electric – China		
<u>Heat Exchanger & Gland Condensers</u>			
Alfa Laval Inc- USA	American Precision- USA	Basco- USA	
GE Tidewater- USA	Gustavo Preston- USA	Hebeler Welding CO Inc- USA	
ITT- USA	Senior Engineering- USA	Toshiba- Japan	
Thermal Engineering- USA			
<u>High Pressure Head & Shell Castings</u>			
Atlas- USA	Japan Casting & Forging- Japan	Japan Steel Works – Japan	
Skoda Kovarny- Czech Republic	Voest Alpine Steel- Austria	Doosan Heavy Industries – So Korea	
Voith Foundry - Brazil			

High Pressure Head & Shell Machining

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EQUIPMENT SUPPLIER NAME		
Doosan – Korea (Outsourced Units)	Toshiba- Japan (Outsourced Units)	Voest Alpine/Steel - Austria
<u>High Voltage Bushings</u>		
ABB Power T & D- USA	Haefely Trench Inc- USA	Lapp- USA
Passoni Villa- Italy		
<u>Hvd. Cylinders</u>		
Miller Fluid Power Corp- USA	Parker Hannifin- USA	Toshiba- Japan
Bosch/Rexroth - Germany		
<u>Low Pressure Diaphragms (Typically Larger L-0 to L-4)</u>		
Doosan – Korea	Alstom Power – Mexico	Marmen - Canada
Hitachi – Japan	Toshiba – Japan	Izar - Spain
MC Machine - USA		
<u>Low Pressure Hood Fabrication Machining and/or Assembly</u>		
Izar- Spain	FabSpec Inc- Canada	Fitchburg Welding Co Inc- USA
GE Hydro- Canada	Doosan – Korea	Hitachi- Japan
Romenergo SA- Romania	Skoda Turbiny - Czech	Toshiba- Japan
Warren Fab Mach Corp- USA	L&T - India	
<u>Low Pressure Piping Oil, Steam Water</u>		
Avondale Service Foundry- USA	Pasadena Piping Products- USA	Shaw- USA
Toshiba- Japan		
<u>Main / Thrust Bearings</u>		
Kingsbury Inc- USA	Dong Yang Metal Inc.- Korea	Orion Corp- USA
Waukesha Bearings Corp- USA	Zollern – Brazil	
<u>Metal Sections (partition stock)</u>		
Universal Stainless PRP Division- USA	Precision Profiles Inc.- USA	Leistriz- Germany

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Retaining Ring Forging (Gen. Non Magnetic)

JSW- Japan	Aubert & Duval-Airforge- France	Toshiba- Japan
Energietechnik /Thyssen Krupp Steel Products- Germany		Saarschmeide - Germany

Rotor Field Forgings (Std. & Mono)

Buderus- Germany	Forcast- France	Doosan - Korea
Japan Casting & Forging- Japan	JSW- Japan	
Ellwood -USA	Saarschmeide- Germany	Brush Electric- Czech
Toshiba- Japan	Groeditz – Germany	Sidenor – Spain
FOMAS - Italy		

Steam Valve Castings (Main, RHT etcl)

Atlas- USA	Doosan – Korea (Outsourced units)	Goodwin Steel Castings - UK
Toshiba – Japan (Outsourced units)	Uttar Pradesh Steel - India	Voest Alpine - Linz, Austria
Voest Alpine - Traisen, Austria		

Stop / Control Valves (Main Steam)

GE – USA	Gimpel Corp - USA	General Turbo- Romania
Doosan – Korea	Keystone Vanessa - Italy	Kent - UK
Rexroth Corp - Germany	S & K- GE	Toshiba - Japan

Stop Control Valves - Potentials

Fischer- USA	Nuovo Pignone- Italy	Toshiba- Japan
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Vane Machining

4Q06

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Eagle- USA			Doosan - Korea		GTTC- Mexico
Jasco Tools Inc- USA			Jarvis- USA		MAL Tool & Engineering- USA
Peitro- Italy			Turbo Products- USA		Sterling Engineering Corp- USA
Thyssen- Germany			Toshiba- Japan		Rich Tool & Die- USA
Maclean Precision Machine- USA			A S Thomas Inc.- USA		IZAR – Spain