

4Q06

4Q06 Supplier List - Gas Turbine

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

EQUIPMENT	SUPPLIER NAME
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4Q06 Supplier List

☐☐ PROPRIETARY INFORMATION

The below listing identifies key suppliers for Gas Turbine 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. Note: suppliers with “m” suffix indicates that they are multinational and manufacturing and design may be done in whole or part by their licensees, partners and manufacturing associates.

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EQUIPMENT	SUPPLIER NAME
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7E - Accessory Module

Avondale-USA (Will need to be Re-Qualified Last Order Over 2 Years Old)

7E - Accessory Base Components- Accessory Drive

Flender –Graffenstaden - France

Skoda – Czech

Chicago Gear-USA

7E - Accessory Base Components- Auxiliary Lube Oil Pump

Buffalo Pumps Inc - USA

7E - Accessory Base Components- Booster Atomizing Air Compresor

Gardner Denver - USA

7E - Accessory Base Components- Emergency Lube Oil Pump

Buffalo Pumps Inc - USA

7E – Accessory Base Componenets – Fabrication

Avondale – USA

MARIS-Canada

7E - Accessory Base Components- Flow Divider

Roper Pump Co - USA

7E - Accessory Base Components- Heat Exchangers

Hebeler Welding Co Inc - USA

ITT - USA

7E - Accessory Base Components- Liquid Fuel Pump

IMO Industries - USA

7E - Accessory Base Components- Liquid Fuel Shutoff Valve

Young & Franklin Tool – USA

Woodward-USA

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7E - Accessory Base Components- Liquid Fuel Stop Valve

Young & Franklin Tool – USA Woodward - USA

7E - Accessory Base Components- Main Atomizing Air Compressor

Atlas Copco Comptec Inc - USA

7E - Accessory Base Components- Starting Motor

GE Motor - USA

7E - Accessory Base Components- Torque Converters

Voith - USA

Bar Stock – Raw Material

Allvac - USA	Aubert & Duval - France	BGH – Germany	Bohler – Austria
Castle – USA	Carpenter – USA	COST – Romania	Dalian – China
Gloria – Taiwan	Republic – China	Slater/Atlas – Canada	Slater – USA
Universal – USA	Valbruna – Italy		

Bearing Housing Machining

Doosan – Korea	Harkers Engineering – UK	Kvaerner Energy Ltd. –UK	Voest Alpine – Austria
Stanley Machining & Tool Corp. – USA		Thomassen Machining bv – Netherlands	

Buckets- Coatings

Houston Service Shop	Thermetech	Turbine Components Services TCS Goodrich
Greenville GT Manufacturing	EPE Manufacturing	

Buckets- Cooling Holes

Eldim	Metem- USA	Meyer Tool Cincinnati – USA (NPI Only)
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Buckets- Investment Castings

Howmet-Hampton/Exeter/Dover/Dives

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EQUIPMENT		SUPPLIER NAME	
PCC-Mentor – USA	PCC-AETC - England	Doncaster's TFB - m	PCC-Minerva - USA
Deritend Precision Casting – England			
<u>Buckets- Machining</u>			
Abrasive Form – USA	Moeller - USA	Honeywell – USA	
Turbine Components Services TCS Goodrich			
<u>Casing Machining</u>			
Buderus- France	Deshors – France	General Turbo SA – Romania	Brenner Tool & Die, Inc. –USA
Doosan – Korea	Harkers Engineering – UK	Hitachi – Japan	Minnotte Cleveland – USA
MC Machine	Skoda Turbines - Czech Rep.	Voest Alpine - Austria	Thomassen Machining bv - Netherlands
<u>Casings-Bearings</u>			
CW Taylor - England	Doosan - Korea	Thyssen Guss AG - Germany	
<u>Casings-CCC</u>			
CW Taylor -England	Doosan - Korea	Middleburg – Netherlands	Thyssen Guss AG – Germany
Skoda –Czech Rep.			
<u>Casings-CDC</u>			
Doosan - Korea	Hitachi - Japan	Hi-Tec – m	Litostroj - Slovenia
NKS - Mexico	Voest Alpine/Zdas - Austria		
<u>Casings-Exhaust Frame</u>			
Doosan - Korea	Hitachi – Japan	Patterson Pump – USA	CFI-USa
Tigep – Hungary	SFAR – France	Hudong – China	Patterson-UNEX-Czech Republic
YMD – China	Hitachi-Canada	DMD- China	L&T- India
Romenergo- Romania	Hitachi- China		
<u>Casings-Inlet</u>			
CW Taylor – England	Doosan – Korea	Middleburg – Netherlands	Thyssen Guss AG - Germany

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EQUIPMENT		SUPPLIER NAME	
<u>Casings-Inner Barrel</u>			
CW Taylor - England	Thyssen Guss AG - Germany		
<u>Casings-Turbine Shell</u>			
Hitachi - Japan	Hi-Tec - m	Doosan – Korea	Litostroj - Slovenia
NKS - Mexico	Voest-Alpine – Austria		
<u>Combustion-Aft Frames</u>			
Acraline - USA China	Jet Products Corporation - USA		Shenyang Liming Engine Mfg. Corp-
<u>Combustion-Caps/liners</u>			
Acraline - USA	Samsung Techwin – Korea	DGT - USA	Aero Manufacturing Corp – USA
<u>Combustion-Combustion Cans</u>			
D & G	Machine Products - USA	Meconst – Romania	Minotte Machining Corporation- USA
MGO- France	CMN- France	UZUC	Xian Aeero Engine Corp (XAE)
<u>Combustion-End Covers</u>			
Acraline - USA	Gloenco Newport - USA	Aerofab – USA	Samsung Techwin – Korea
Major Tool – USA	Goodwin		
<u>Combustion-Fuel Nozzles</u>			
Acraline - USA	Delavan - USA	Woodward FST	Woodward Governor Co – USA
Woodward Hoofddorp - Holland (Plant Closed, Sales Office ONLY)			
<u>Combustion-Transition Piece Bodies</u>			
Hitachi – Japan	GCE Industries Inc – USA	Liming – Shengyang, China	FAST – Chengdu, China
Turbomecanica – Romania	Ace Clearwater Enterprise - USA		

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EQUIPMENT		SUPPLIER NAME	
<u>Compressor Airfoils- IGVs</u>			
Doncasters Inc - USA		CEGC/FAST – CHINA	
GE Power Systems Airfoils- USA			
<u>Compressor Airfoils- Rings</u>			
Frisa - Mexico	Forgital- Italy	Ajax- USA	Mid-State Machine Prod – USA
<u>Compressor Airfoils- Rotor Blades</u>			
Chengdu Engine Co – China	Doncasters Inc – USA	Doncasters – Mexico	
GE Power Systems Airfoils (GEPSA) (formerly JARCO) - USA			
<u>Compressor Airfoils- Stator Blades</u>			
Chengdu Engine Co - China	Doncasters Inc – USA	GE Power Systems Airfoils (GEPSA) (formerly JARCO) - USA	
<u>Compressor Wheels/ Shafts- Forgings-Alloy Steel Wheels</u>			
Fomas S.R.L. - Italy	Daido-Japan	RingMill S.P.A. – Italy	Groditzter Stahlwerke – Germany
<u>Compressor Wheels/ Shafts- Forgings-Alloy Steel Shafts</u>			
Fomas S.R.L. - Italy	Tecphy - France	Daido-Japan	RingMill S.P.A – Italy
Groditzter Stahlwerke – Germany			
<u>Compressor Wheels/ Shafts- Machining-Alloy Steel</u>			
A&D Precision – USA	McSwain Manufacturing - USA		
<u>Diaphragms</u>			
DW Clark	AG Anderson	ACC Nihon	Quaker City Castings – USA
<u>Exhaust Diffuser</u>			
Doosan - Korea	Hitachi – Canada	SDMS -France,	DMD
SFAR – France	Tigep – Hungary	SK Plant (Sekwang)	Patterson Pump - USA

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EQUIPMENT		SUPPLIER NAME	
<u>Exhaust Plenums</u>			
Bhuler	CFI	J & G Steel	Automatic Weld Manufacturing
<u>Flow Hose</u>			
Microflex- USA	FMI_ USA	Tubest- France	Senior Flexonics (In Qual Now)
<u>Flow Sleeves</u>			
CEC - USA	Shenyang – China	Aero Manufacturing- USA	
<u>Material Shipped Direct (MSD)-Piping</u>			
Shaw Group – USA	Cimtas – Turkey	AECON/FABCO - Canada	
<u>Nozzles-Coatings</u>			
Engelhard Surface - USA	Howmet – Thermatech – USA	Turbine Component Services (TCS)- USA	
Goodrich Corporation	Flamespray-Hungary/ Italy		
<u>Nozzles-Cooling Holes</u>			
Johnson Technology - USA	Metem – USA	Douglas Machine – USA	
Meyer Tool – USA (NPI ONLY)	Anton- Hungary		
<u>Nozzles-Investment Castings</u>			
Howmet – Hampton - USA	PCC-AETC – England	PCC-Deer Creek – USA	Howmet Dives- France
PCC SSBO- USA	Deritend Precision Casting – England		
<u>Nozzles-Machining</u>			
Douglas Machine – USA	Mid-State Machine Products – USA	GT Manufacturing Greenville SC	
EPE-France	GE Hungary Manufacturing		
HTM- Hungary	Metem- USA/Hungary		
<u>Nozzles-Retaining Rings</u>			
Forgital USA - Italy	Steel Industries –USA	Doncasterss FVC- England	Mid-State Machine Products – USA

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<u>Rotor Bolts</u>			
B & G MFG Co Inc - USA	Specialty Bar Products – USA	Mecair	
<u>Shrouds-Castings</u>			
PCC- USA			
<u>Shrouds-Forgings</u>			
Carlton - USA	Forgital - USA	Viking- USA	ASFO- Italy
<u>Turbine Base</u>			
Butler Weldments Corp - USA	O’Neal Steel	Mukand LTD.	Custom Engineering Co - USA
HuDong Shipyard - China	Yichang Marine Diesel – China		
<u>Turbine Piping</u>			
Cimtas Turkey	BFC/AECOM		
<u>Turbine Shell</u>			
Doosan NKS – Korea	Litostroj – Slovenia	Sulzer – m	Voest/ZDAS - Austria
Hitachi - Japan			
<u>Turbine Wheels/ Spacers- Forgings-Alloy Steel Wheels</u>			
Fomas S.R.L. - Italy	RingMill S.P.A. – Italy	Groditzter Stahlwerke – Germany	
<u>Turbine Wheels/ Spacers- Forgings-Inconel</u>			
Aubert & Duval - France	Alcoa – USA	Wyman-Gordon – USA	
<u>Turbine Wheels/ Spacers- Machining-Alloy Steel</u>			
McSwain Manufacturing – USA		Mid-State Machine Products-USA	
<u>Turbine Wheels/ Spacers- Machining-Inconel</u>			
ABA – USA	A&D Precision – USA	Mid-State Machine Products – USA	

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Wrapper

Romenergo- Romania

Patterson Pump- USA

Hitachi- Canada

SFAR- France

Yichang Marine Diesel – China

All Other – Bearings

Orion, USA

All Other – Hardware

Pentacon, USA

B&G, USA