



Qualification Package

Advance Boiler & Tank Co., LLC

SINCE 1919
Office: 414-475-3120
Fax: 414-475-3129

6600 West Washington Street, #700
West Allis, Wisconsin 53214

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ADVANCE Boiler & Tank Co., LLC

*6600 West Washington Street • #700 • West Allis, Wisconsin 53214
Phone (414) 475-3120 • Fax (414) 475-3129*

HISTORY

From its inception in 1919, Advance Boiler and Tank Company has been specifically focused in the power generation industry:

1919 - Present

Erecting and repairing stationary boilers.

1950's - Present

Repairing marine boilers and ships from our location in the Port of Milwaukee - under A.B.S. and U.S.C.G. certification.

1960's - Present

Fabricating A.S.M.E. vessels for the power industry.

1980's

Started NDT Specialists - A complete NDE service organization (now an independent company).

1980's - Present

Boiler repairs/construction in the paper and utility industry.

1999

The purchase of Merco Thermotec (refractory construction and materials), now Advance Thermotec.

2000

Added 15'H x 45'L x 20'W heat treat oven.

2002

Moved to larger quarters in West Allis.

2003

New ownership, moved to larger quarters.

If you are looking for a specialized contractor of boiler repair and construction services, Advance is uniquely qualified:

1. Advance can assure your company of competent, qualified, unionized craft on a continuous basis.
2. Advance is able to bring its repair/construction services to the field and also fabricate to A.S.M.E. standards in our new 62,730 square foot vessel shop and offices.
3. Advance can provide strong experience in shop/field services - all with specific emphasis on continuously lowering your costs.
4. Advance can provide seamless coordination of auxiliary services like NDE, heat treatment and complete refractory repairs/construction and materials.

Please call with any questions regarding this Vendor Qualification and Capability package and start building a partnership with a local Wisconsin organization uniquely experienced in solving your boiler repair/construction problems.

Sincerely,

Dan Andrae
(414) 475-3122

HISTORY - ADVANCE THERMOTEC

1940's

Company established as J. D. Wilson - Performing boiler and incineration installations.

1960's

Business sold and became Crichton Corp. - expanded into repairing industrial aluminum, heat treat and forge furnaces.

1980's

Company sold and became C. C. Refractories and then name changed to Merco Thermotec - Services expanded into power plant refractory repairs and construction.

1999

Purchased by Advance Boiler & Tank Co. and renamed Advance Thermotec - expanding Advance Boilers' specialized power plant repair/construction services with knowledgeable, unionized refractory services personnel.

2002

Moved into larger 31,000 square foot quarters in West Allis.

Vendor Qualification and Capability Information Continued

2. Supplies/equipment/services we desire to bid on:
 - 2.1 ASME vessels/repair/alterations/re-rates
 - 2.2 Boiler and auxiliary-equipment maintenance/repairs
 - 2.3 Refractory materials and construction

 3. Size of Business:
 - 3.1 The vendor/contractor certifies that is is a Small Business concern under the criteria and size standards in 13CFR121.

 4. *See attached References and Experience Lists*

 5. Labor:
 - 5.1 Shop agreement - Boilermakers 107
 - 5.2 Field agreement - *See attached list of trades*
 - 5.3 Number of permanent labor force is approximately 60.
 - 5.4 Superintendents resumes available upon request.

 6. Equipment/facilities:
 - 6.1 *See attached pictures*
 - 6.2 Fabrication plant - 62,730 square feet, 5,000 square feet of offices
 - 6.3 Equipment/repair and refractory warehouse - 31,000 square feet
 - 6.4 All equipment owned by our firm.
-

Vendor Qualification and Capability Information Continued

9. Safety:

In-house safety programs and incentives

<u>Year</u>	<u>Mod</u>
2007	1.08
2008	1.06

Our Field Safety Manual can be furnished upon request.

Safety Consultant:

Safety Connections
1911 Kaat Lane
Sheboygan, WI 53081
Attn: Jim Lehrke
1-800-634-7233

10. Certificates of insurance furnished upon request.

11. Pricing:

11.1 Current labor rates and equipment rental rates can be supplied.

12. Attachments:

List of major shop equipment
Pictures of facilities
Reference list
Experience list
Organization Chart
Certificate of Authorization/Registration
ASME-U, S, R, National Board
Trades list

UNION AFFILIATION

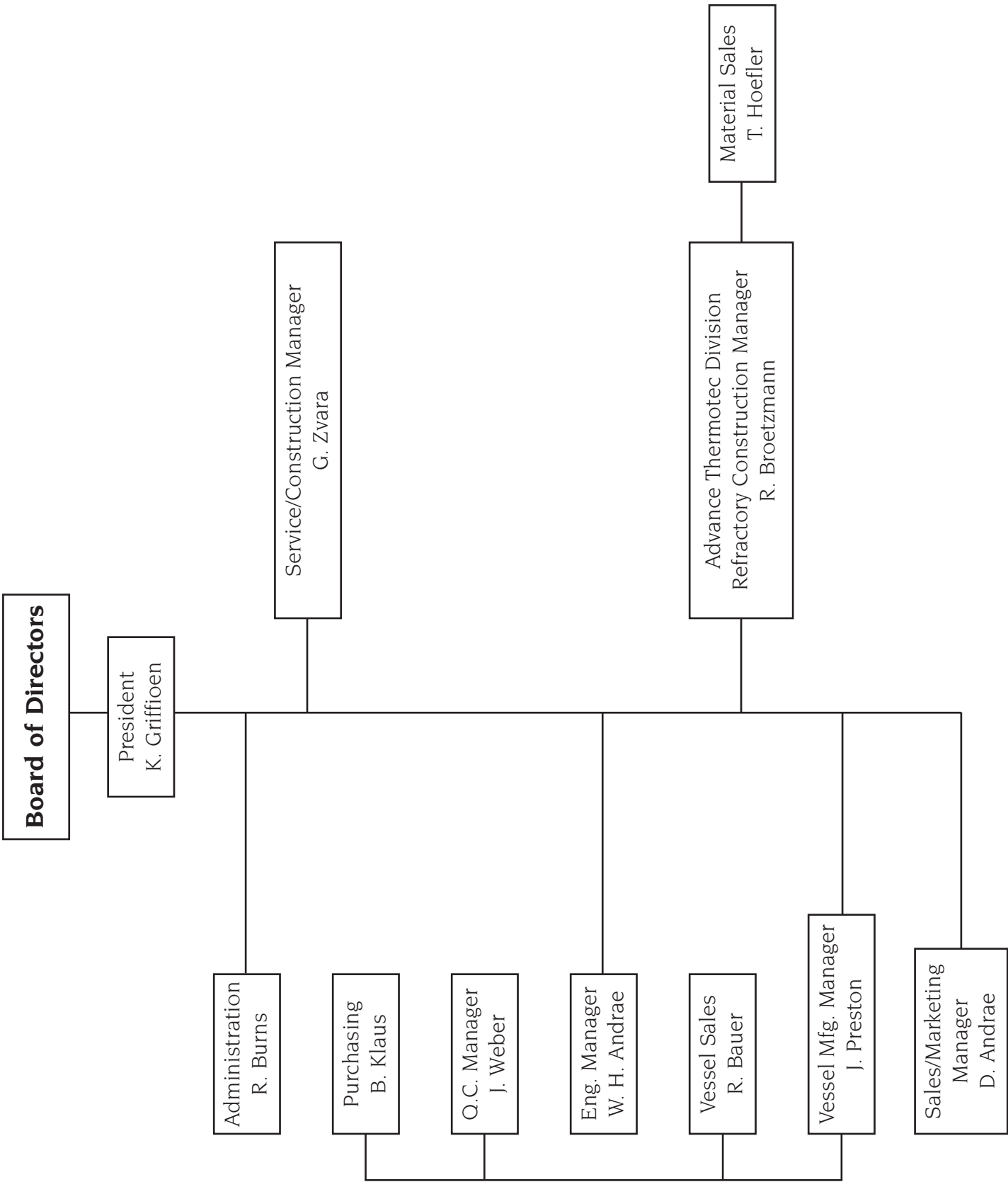
Advance Boiler & Tank Company is signatory to National Maintenance Agreements administered by the National Maintenance Agreement Policy Committee (NMAPC) with the following Building and Construction Trades Unions:

- Boilermakers
- Carpenters/Millwrights
- Bricklayers
- Ironworkers
- Laborers
- Operating Engineers
- Sheet Metal Workers
- Teamsters
- United Association
- Steam Fitters

In addition, Advance Boiler & Tank Company is signatory to numerous local/area and project agreements in various regions of the United States.

FABRICATIONS/REPAIRS

WAUSAU PAPER	REBUILD/RE-RIVET (2) 15' DIA. DIGESTERS
PPG INDUSTRIES	ALTERATION OF 11' - 6" O.D. REACTOR
A. O. SMITH (TOWER AUTOMOTIVE)	COMPLETE RE-TUBE AND RENEWED REFRACTORY OF WICKS "A" TYPE BOILER 125,000 LBS./HR.
LUEDTKE ENGINEERING	(2) - 80' DIAMETER CANOPIES FOR ZEBRA MUSSEL PROJECT
WE ENERGIES	BOILER, ECONOMIZER & AIR HEATER
AMEREN CIPS	BOILER, AIR HEATER, CONDENSER AND ECONOMIZER
ALLIANT	AIR HEATER, FEEDWATER HEATER
COM-ED	FEEDWATER HEATER
STATE OF WISCONSIN	BOILERS AND AUXILIARY EQUIPMENT
GEORGIA PACIFIC (Port Edwards, WI)	RECASED BOILER AND REACTOR MODIFICATIONS
FOX RIVER PAPER	CASING REPLACEMENT - KEYSTONE BOILER
GENENCOR INTERNATIONAL (Enzyme Bio Systems)	RETUBE - AMMONIA CONDENSERS A.S.M.E. PRESSURE VESSEL ALTERATIONS
CONSUMER POWER	PRECIPITATOR ERECTION
ALSTOM POWER ENVIRONMENTAL DIVISION	2205 ABSORBERS/BAG HOUSE (BARGED TO WE ENERGIES)



Advance Boiler & Tank Co., LLC

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PHONE: 1-414-475-3120 FAX: 1-414-475-3129

Advance Thermotec (A Division of Advance Boiler)

PHONE: 1-414-475-2120 FAX: 1-414-475-2129

Staff

Ken Griffioen - President.
Dial Direct (414) 475-3125

Bill Andrae - Engineering Manager -
35+ years. Dial Direct (414) 475-3121
bandrae@advanceboiler.com

Gerry Zvara - Service Manager -
40+ years. Dial Direct (414) 475-3142
gzvara@advanceboiler.com

Dan Andrae - Sales/Marketing,
Customer Service Manager -
30+ years. (414) 475-3122
dandrae@advanceboiler.com

Randy Bauer - Inside Sales
Estimating - Tanks. (414) 475-3123
rbauer@advanceboiler.com

Bob Klaus - Purchasing
(414) 475-3124
bklaus@advanceboiler.com

Rick Broetzmann - Advance
Thermotec - General Manager -
Refractory - 35+ years. (414) 475-2123
rbroetzmann@advancethermotec.com

Tom Hoefler - Advance Thermotec -
Distribution Manager - 15+ years.
(414) 475-2124
thoefler@advancethermotec.com

John Weber - Quality Control.
475-4151
johnweber@advanceboiler.com

Jeff Preston - Manufacturing Manager.
(414) 475-4150
jpreston@advanceboiler.com

Boiler Repairs

- Boiler Re-tubing and Repairs
 - New Pressure Parts
- All Types of Welded Repairs
 - Hand-Hole Seat Grinding
 - Manhole Seat Grinding
 - Casing Repairs
- Fire Tube or Water Tube Boilers
- Air Heaters, Superheaters, Mills, Precipitators, Economizers
- Nozzle Replacement or Additions
- Tube Sheet Repairs or Replacement
 - Power Piping
 - Marine Boilers

Customers

WE Energies, Central Illinois Power, Consumers Energy, PPG Industries, Appleton Paper, Georgia Pacific, Miller Brewing, Vulcan Chemical, Milwaukee Public Schools, Bay Shipbuilding Company, Fort James Paper, Wisconsin Power & Light, Fox River Paper, University of Wisconsin Systems, Alstom Power - Environmental Div.

Refractory Material Sales & Construction Services

Power/Recovery Package Boilers

Ash Hoppers/Cyclones, Burners

Heat Treat/Forging/ Atmospheric/Car Bottom, and Annealing Furnaces

Foundry and Metal Castings Industry

- ◆ Lining Repairs/Removal/Replacement
 - ◆ Castables - Conventional/LW/AR/LC
 - ◆ High Alumina Plastic
 - ◆ Fire Brick - High Duty/High Alumina/Insulating
 - ◆ Mortars
 - ◆ Ceramic Fiber - Blanket/Board/Paper
 - ◆ Mineral Wool Board
 - ◆ Pre-cast Shapes
- ◆ Silicon Carbide Heating Elements - Globars
 - ◆ Sampling Cups
 - ◆ Cupola Blocks
- ◆ Insulating Castables
 - ◆ Door Blades
 - ◆ Tap Out Cones

Customers

WE Energies, Milwaukee Forge, Rexnord, GKN Sintered Metals, FPM Heat Treating, Service Heat Treating, Treat All Metals, Regal Beloit Corporation, Alcoa Aluminum, Waupaca Foundry, Thermal Transfer, PH Mining, Surface Combustion - State of Wisconsin

Tanks & Pressure Vessels

- ◆ Custom ASME and non-Code
 - ◆ U (Unfired) Stamp
- ◆ S (Fired) (Includes PP) Stamp
- ◆ Up to 15' in diameter, 60' long
 - ◆ Up to 220,000#
- ◆ Full Vacuum to 3000 PSIG
 - ◆ Carbon Steel

- ◆ 3xx Series Stainless Steels
 - ◆ Deaerators
 - ◆ Steam Drums
- ◆ Blowdown Tanks
- ◆ Custom Air Receivers
 - ◆ Storage Tanks
- ◆ Welded Pressure Parts
 - ◆ Simple Jackets
 - ◆ Ammonia Tanks

Tank Repair or Alteration (Shop or Field)

- ASME and non-Code
- Change in Design Pressure, Design Temperature
- Nozzle Replacement/Additions
 - Component Replacement
- Additional Access/Inspection Openings
 - Weld Build-up
 - Crack/Leak Repairs
 - Gasket Surface Repairs

Heat Exchanger Repair/Alteration (Shop or Field)

- Re-tube and Cleaning
- Replace Shell, Tube Sheets Nozzles, Packing, Baffles
- Straight Tube, U-tube, Finned
- Carbon Steel, 3xx Series Stainless Steels, Brass, Copper
 - De-scaling
- Additional Nozzles

Miscellaneous

- Dimple Jacket and Half Pipe Repairs
- ASME and non-Code Tank Erection
 - B31.1 (PP) Pressure Piping
 - Petroleum Terminal Repairs, Bottoms, Roofs, Shells
 - Armature Welding
- Hydrostatic Testing to 5000 PSIG

Major Customers

Fox River Paper, Appleton Paper, Georgia Pacific, Miller Brewing, Vulcan Chemicals, Milwaukee Public Schools, Fort James Paper, Wisconsin Power & Light, PPG, Duke Power, Fluor, Bechtel, Sterling, KCD, University of Wisconsin Systems, WE Energies, Alstom, Bay Shipbuilding Company, numerous school systems and other industrial installations



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6600 W. Washington, #700 & #100
West Allis, Wisconsin 53214

Phone: 1-414-475-3120 Fax: 1-414-475-3129
Refractory: 1-414-475-2120 Fax: 1-414-475-2129
Boiler Repair: 1-414-475-3142/43 Fax: 1-414-475-2129

Boiler & Pressure Vessel Repairs & Alterations
Refractory Materials and Construction Services
ASME & Non-Code Tanks & Pressure Vessels
Heat Exchanger Repairs, Retubing, & Alterations

Address Correction Requested



A DIVISION OF ADVANCE BOILER & TANK CO., LLC

HEAT PROCESS INDUSTRY

**COMPLETE REFRACTORY CONSTRUCTION,
MAINTENANCE AND MATERIAL SALES SINCE 1948**

HEAT TREAT-FORGE-SINTERING- KILNS-INCINERATORS

LINING REPAIRS, REMOVAL AND REPLACEMENT

- Batch, Continuous, Car Bottom, Pit, Integral Quench, Atmospheric, Nitriding, Carburizing, Roller Hearth, Tempering, Brazing, Salt Bath
- Experience with *All* Manufacturers... GE, Westinghouse, Pacific Scientific, CanEng, Lindberg, Despatch, Johnston, Ipsen, Flinn & Drefflein, Surface Combustion, Holcroft, BeaverMatic, Drever, C.I. Hayes and others.

MATERIALS ARE IN STOCK FOR IMMEDIATE DELIVERY

- Glo-Bars - Silicon Carbide Heating Elements
- Fire Brick - High Alumina and Super Duty Straight, Wedge and Arch
- Insulating Fire Brick - 2300°, 2600°, 3000°, Low-Iron Straight, Wedge, Arch
- Ceramic Fiber - Blanket, Board, Paper, Rope, Gasket, Module, Vacuum-Formed Shapes, and Low-Iron, High Purity
- Castable Refractory - Conventional, Low Cement and Insulating
- Pre-Cast and Pre-Fired Shapes
- Exclusive Wisconsin MonoMax Licensed Installer

COMPLETE SHOP CAPABILITIES

- See us for Custom Plate Fabrication and Boiler/Heat Exchanger/Pressure Vessel Fabrications and Repairs.

6600 W. WASHINGTON STREET ■ #700 ■ WEST ALLIS, WI 53214
(414) 475-2120 ■ FAX (414) 475-2129
www.advancethermotec.com



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INDUSTRIAL BOILERS

COMPLETE REFRACTORY CONSTRUCTION, MAINTENANCE AND MATERIAL SALES SINCE 1948

POWER, RECOVERY, PACKAGE BOILERS

- Baffle Tile
- Lining Repairs, Removal and Replacement
- Castables -
Vibration, Pumping, Conventional, Light Weight, Abrasion Resistant, Low Cement
- High Alumina Plastic
- Fire Brick -
High Duty, High Alumina, Insulating
- Mortars
- Ceramic Fiber - Blanket, Board, Paper, and Pumpable
- Mineral Wool Board
- Pre-Cast Shapes
- Mechanical Anchors

SPECIAL APPLICATIONS - ASH HOPPERS, CYCLONES, BURNERS

- Castables -
Abrasion Resistant, Low Cement, Silicon Carbide
- Plastics -
Silicon Carbide, Mullite Based, Gunning Materials, High Alumina

COMPLETE ASME SHOP FACILITY

- See us for Custom Plate Fabrication, ASME Boiler, Heat Exchanger, Pressure Vessel Repairs

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FOUNDRY AND METAL CASTINGS INDUSTRIES

**COMPLETE REFRACTORY CONSTRUCTION,
MAINTENANCE AND MATERIAL SALES SINCE 1948**

FERROUS METALS

INDUCTION FURNACES, PITS, CUPOLAS, LADLES

- Lining Repairs, Removal and Replacement
- Fire Brick - High Alumina, High Duty
- Castables - Conventional, Low Cement
- Mortar
- High Alumina and Graphitic-Plastics
- Dry and Granular Vibratables
- Ceramic Fiber Blanket, Board, Paper, Modules, Pumpable
- Pre-Cast Shapes
- Sampling Cups
- Cupola Block
- Exclusive Wisconsin MonoMax Licensed Installer

NON-FERROUS METALS

REVERBERATORY, HOLDING, FILTER & CRUCIBLE FURNACES, LADLES

SILICON CARBIDE HEATING ELEMENTS - GLOBARS

- Lining Repairs, Removal and Replacement
- Fire Brick - High Alumina and High Duty Insulating
- Castables - Non-Wetting and Low Cement
- Mortar
- Plastics - Non-Wetting High Alumina
- Insulating Castables
- Ceramic Fiber Blanket, Board, Modules, Paper and Well Covers
- High Temperature Non-Wetting Boards
- Door Blades, Pre-Cast Shapes, Tap Out Cones

COMPLETE SHOP CAPABILITIES

- See us for Custom Plate Fabrication and Boiler/Heat Exchanger Repairs.

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