

THOMAS D. BURNETT **Manager Power Projects**

SPECIALIZED PROFESSIONAL COMPETENCE

Mr. Tom Burnett has extensive experience in fossil power plant design, construction, start-up, controls, operation, maintenance, procedures, training, system upgrades, and performance analysis. Developed and wrote utility specifications for critical steam piping inspections and repairs, and managed projects in replacement of major components from concept to final acceptance testing. Has supervised critical steam piping and hanger inspections. Extensive experience in lignite, coal, oil, and gas combustion in utility and industrial boiler applications.

Additional experience includes supervision of major outage projects, such as turbine generator inspection and repair, and boiler component replacement; conception and development of welder training program and nondestructive examination training; analysis of power plant heat rate, including air preheater and burner performance improvements; and development of first system procedural guidelines for extended storage of plant equipment on a unit basis. Developed an outage management philosophy from conceptual phase to a proficient team of coordinators, engineers, and foremen; trained system and plant personnel in coordination and execution of major maintenance utilizing current computerized project management programs. Assisted in the revision of a corporate manual of welding specifications and procedures.

Recent work includes managing overall plant condition assessment and remaining useful life projects; hot reheat and main steam line inspections; determining the remaining useful life of superheaters and reheaters in utility boilers; and reviewing the support systems in high energy critical piping. Other recent activities include developing a database and providing testimony in a major litigation, and supplying economic justification and specifications for the replacement and repairs of utility power plant boiler and turbine components, including superheaters, burner management and combustion control systems, reheaters, critical piping support systems, and plant extended lay-up procedures; and review of coatings and insulation application in a nuclear utility plant.

EDUCATION AND PROFESSIONAL BACKGROUND

- B.S. (Marine Engineering), United States Merchant Marine Academy (1973)
- Repairs and Alterations, American Society of Mechanical Engineers (ASME) Boiler and Pressure Vessels (1985)
- International Seminar, Pipe Design and Stress Analysis, Texas A&M University (1986)

- Member, American Society of Mechanical Engineers
- Patent: Method For Reduction of Sulfur Oxides and Particulates in Coal Combustion Exhaust Gases

SELECTED REPORTS, PUBLICATIONS, AND INVITED LECTURES

Investigation of Boiler 24-2 Superheater Tube Failure, APTECH Report AES 05126026-2-2 (January 2006).

Martin Drake Plant, Units 5, 6, and 7, Life Assessment for Colorado Springs Utilities - Volume 2, with G. Grimsrud, J. Lesiuk, and R. Wesley, APTECH Report AES 05015656-2-3 (October 2005).

Life Assessment Overview for Colorado Springs Utilities - Volume 1, with G. Grimsrud, J. Lesiuk, and R. Wesley, APTECH Report AES 05015656-2-2 (September 2005).

R. D. Nixon, Unit 1, Life Assessment for Colorado Springs Utilities - Volume 3, with G. Grimsrud, J. Lesiuk, and R. Wesley, APTECH Report AES 05015656-2-1 (September 2005).

Birdsall, Life Assessment for Colorado Springs Utilities - Volume 4, with G. Grimsrud, J. Lesiuk, and R. Wesley, APTECH Report AES 05015656-2-4 (September 2005).

Boilers 1, 2, and 3 Review, APTECH Report AES 04125617-3-1 (January 2005).

Big Cajun II - Unit 2 Boiler Tube Failure Reduction Program Component Review and Inspection Plan, APTECH Report AES 04095512-2-2 (December 2004).

Big Cajun II - Unit 3 Boiler Tube Failure Reduction Program Component Review and Inspection Plan, APTECH Report AES 04095512-2-3 (December 2004).

Big Cajun II - Unit 1 Boiler Tube Failure Reduction Program Component Review and Inspection Plan, APTECH Report AES 04095512-2-1 (December 2004).

Deaerator Examination at Northeastern Generating Station, Unit 3, with V. Nichols, APTECH Report AES 04035364-2-1 (December 2004).

Martin Drake Unit 5 Life Assessment for Colorado, with G. Grimsrud, O. Nye, and J. Lesiuk, APTECH Report AES 04045390-2-1 (July 2004).

Martin Drake Unit 6 Life Assessment for Colorado, with G. Grimsrud, O. Nye, and J. Lesiuk, APTECH Report AES 04045390-2-2 (July 2004).

Martin Drake Unit 7 Life Assessment for Colorado, with G. Grimsrud, O. Nye, and J. Lesiuk, APTECH Report AES 04045390-2-3 (July 2004).

Gas Turbine Damage on Coach Ella, Unit 4, Imperial Irrigation District, APTECH Report AES 04015262-2-1 (June 2004).

Evaluation of AK Steel Failed Turbine Rotor - Trip Report, APTECH Report AES 04045404-2-1 (May 2004).

Metallurgical Evaluation of Two Failed Steam-Cooled Tubes from Little Gypsy, Unit 2, with T. Kuntz, APTECH Report AES 04035333-2-2 (April 2004).

Metallurgical Evaluation of Two Waterwall Tubes from Little Gypsy, Unit 2, with T. Kuntz, APTECH Report AES 04035333-2-1 (April 2004).

An Examination and Remaining Useful Life Evaluation of the Secondary Superheater Tubing at AEP SWEPCO, Pirkey Generating Station, Unit 1, with V. Nichols, APTECH Report AES 03024984-2-1 (March 2004).

Response to Pressure Sciences Incorporated Report Concerning the Mlasofsky & Co., et al v. Riggs Distler & Co., Inc. et al. State of Ohio Court of Claims, with M. Cohn, APTECH Report AES 02074821-2-3 (March 2004).

Examination and Remaining Useful Life Evaluation of Reheat Superheater Tubing at AEP-Swepco's Welsh Generating Station, Unit 2, TubeAlert Report, with V. Nichols, APTECH Report AES 03105192-2-1 (February 2004).

Superheater Assessment of Boilers 1A, 2A, and 3A at Louisiana Station, APTECH Report AES 03105193-2-1 (January 2004).

Preliminary Expert Opinion on the Mlasofski & Co Et al v Riggs Distler & Co Inc. et al State of Ohio Court of Claims (Case No. 2001-10409PR), APTECH Report AES 02074821-2-2 (August 2003).

TubeAlert Examination and TubeMod Evaluation of Reheat Superheater at OGE Energy Corporation Seminole Power Plant Unit 3, with K. Hara, APTECH Report AES 03024986-2-1 (August 2003).

Preliminary Evaluation of Long Term Effects of HRSG Carryover, APTECH Report AES 03065104-2-1 (July 2003).

Ten Year Maintenance, Inspection Plans, and Budget Forecast for Encina Units 4 and 5, with G. Grimsrud, APTECH Report AES 03055070-2-1 (July 2003).

Cold Walkdown of Main Steam Line at AES Deepwater, Pasadena, Texas, APTECH Report AES 03024985-2-3 (May 2003).

Field Report of Initial Finding Concerning Main Steam Line at AES Deepwater, APTECH Report AES 03024985-2-1 (May 2003).

Cost of Cycling Phase I Analysis for Entergy's Power Plants: Lake Catherine 4, Nelson 3, Sabine 5, Sterlington 6, and Waterford 1, with S. Lefton, P. Besuner, G. Grimsrud, K. Hara, O. Nye, and R. Dail, APTECH Report AES 03024983-2-1 (May 2003).

Waterwall Assessment on Boiler 3A at Louisiana Generating Station, with T. Kuntz, APTECH Report AES 02104899-2-1 (March 2003).

Condition Assessment of Main Steam, Hot Reheat, Feedwater, and Piping Systems of Victor Braunig Generating Station, Unit 3, APTECH Report AES 01104517-2-1 (April 2002).

Condition Review and Inspection Recommendations at El Segundo, Units 3 and 4, with G. Grimsrud, APTECH Report AES 01114563-2-1 (April 2002).

Examination of Lower Reheat Piping at Tulsa Station, Unit 2, APTECH Report AES 02024656-2-1 (April 2002).

Examination of Selected Components for Riverside Generating Station, Unit 9, MidAmerican Energy Company, APTECH Report AES 01104515-2-1 (March 2002).

Preliminary Conclusions Concerning McClain Station IP Turbine Damage, APTECH Report AES 01114557-2-1a (November 2001).

Failure of Two English Boilers Supply to the Mount Vernon Mill, APTECH Report AES 01094509-2-1 (October 2001).

Oxide Measurements Taken at Little Gypsy Generating Station, Unit 3, APTECH Report AES 01054401-2-1 (July 2001).

Proposed Examination Locations for Flow Accelerated Corrosion at Oklahoma Gas & Electric's Sooner Generating Station, Unit 1, APTECH Report AES 01014258-2-2 (July 2001).

Proposed Examination Locations for Flow Accelerated Corrosion at Oklahoma Gas & Electric's Horseshoe Lake Generating Station, Unit 6, APTECH Report AES 01014258-2-1 (June 2001).

ADDITIONAL INFORMATION

For more information regarding APTECH's personnel and services, please contact our Corporate Headquarters in Sunnyvale, California (USA) at 408/745-7000 or visit our website (www.aptecheng.com).