

RODNEY L. DAIL
Metallurgical Engineer

SPECIALIZED PROFESSIONAL COMPETENCE

Areas of expertise include metallurgical engineering, welding engineering, failure analysis, mechanical testing, nondestructive examination, corrosion engineering, and technical training. Experience includes a broad range of materials and special processes consulting activities in the petrochemical, fossil and nuclear power, and shipbuilding industries.

Work experience includes responsibility for selection and use of materials in power generation and petrochemical plants; welding and inspection of piping and components during and after plant construction; analysis of equipment failures; and technical training in inspection and code-related subjects. Recent work includes reviews and audits of construction and maintenance welding and inspection programs; management of fossil power plant piping and boiler condition assessment programs; evaluations of equipment remaining life; chemical plant fire incident investigations; technical consulting on large legal cases involving refinery and chemical plant equipment integrity and corrosion in nuclear power facilities; and asset evaluations of petrochemical plants and power generation facilities.

EDUCATION AND PROFESSIONAL BACKGROUND

- B.S. (Metallurgical Engineering), North Carolina State University (1967)
- Certified Welding Inspector, American Welding Society
- Member, American Society for Metals
- Member, American Welding Society
- Member, National Association of Corrosion Engineers

SELECTED REPORTS, PUBLICATIONS, AND INVITED LECTURES

TubeAlertSM Inspection of the Boiler Reheater Tubing at Glenwood Station, Unit 40, APTECH Report AES 00104168-2-1 (January 2001).

TubeAlertSM Inspection of the Unit 6 Boiler Finishing Superheater and Reheater Tubing at Gerasul's Jorge Lacerda Plant, APTECH Report AES 00074071-2-1 (with T. Kuntz) (September 2000).

Inspection of Selected Boiler and Piping Components at Wyman, Unit 4, APTECH Report AES 99103822-2-1 (with S. Nelson) (December 1999).

Inspection of Northside Station, Unit 3, Secondary Superheat Outlet Header, Reheat Outlet Header, and High Energy Piping Components, APTECH Report AES 99093786-2-1 (with J. Yavelak) (December 1999).

Deaerator and Deaerator Storage Tank Inspection at Deepwater Generating Station, Unit 1, APTECH Report AES 99103814-2-1 (November 1999).

Independent Review of Riser Tube Inspection and Acceptance Criteria, APTECH Report AES 99093806-2-1 (with S. Paterson) (October 1999).

Deaerator and Deaerator Storage Tank Inspection at Deepwater Generating Station, Unit 6/8, APTECH Report AES 99033639-2-1 (July 1999).

Inspection of a Used 750 kVA Electrical Transformer, APTECH Report AES 99043665-2-1 (June 1999).

Evaluation of the General Condition of PacifiCorp's Centralia Generating Station, APTECH Report AES 99013607-2-1 (February 1999).

Edmonton Power, Inc. Generating Stations Life Assessment Study - Genesee Generating Station, APTECH Report AES 98083471-2-2 (with L. Ludlum, and A. Smithson) (January 1999).

TubeAlert Survey of Hudson Avenue Generating Station Boiler 72 Superheater, APTECH Report AES 97103212-2-1 (December 1998).

Evaluation of San Diego Gas & Electric Company's Encina Power Plant and Combustion Turbine Units, APTECH Report AES 98103535-2-1 (with K. Hara and T. Kuntz) (November 1998).

Capital and Major Maintenance Cost Forecasts and Evaluation of Operational Variables that Affect Costs, APTECH Report AES 98063432-2-2 (with J. Yavelak, et.al.) (October 1998).

TubeAlert Study of the Secondary Superheater and Reheater at Canal Station, Unit 1, for Commonwealth Electric Company, APTECH Report AES 98043371-2-1 (with K. Hara) (June 1998).

Assessment of the East Syracuse Generating Plant, APTECH Report AES 98043352-2-1 (with T. Burnett) (April 1998).

TubeAlert Survey of Consolidated Edison's Ravenswood Generating Station, Unit 20, Superheater Section, APTECH Report AES 98013292-2-1 (with J. Yavelak) (February 1998).

TubeAlert Survey of Hudson Avenue Unit 71, APTECH Report AES 97083151-2-1 (February 1998).

Assessment of the East Syracuse Cogeneration Plant, Asset Evaluation Project for Orion Power Holdings, Inc., APTECH Report AES 98043352-2-1 (with T. Burnett) (April 1998).

Evaluation of the New England Electric System, Asset Evaluation Project for U.S. Generating Company, APTECH Report AES 97043032-2 (with T. Burnett) (April 1997).

TubeAlert Study for ESKOM's Kriel Power Station, Unit 4, APTECH Report AES 96102891-2-2 (with R. Moser) (December 1996).

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 (<http://www.aptecheng.com>).