

CLAYTON Q. LEE

Mechanical Engineer

SPECIALIZED PROFESSIONAL COMPETENCE

- Heat Transfer
- Failure Analysis
- Thermo Dynamics
- Remaining Life Analysis
- Computational Fluid Dynamics using Flow Plus
- Design Defect Analysis
- Fluid Mechanics
- Condition Assessment
- Stress Analysis
- Finite Element Analysis using COSMOS Analysis)
- Software Development using Fortran, VBA
- Project Management

EDUCATION AND PROFESSIONAL BACKGROUND

- M.S. (Mechanical Engineering), University of California, Berkeley (1985)
- B.S. (Mechanical Engineering), University of California, Berkeley (1983)
- Registered Professional Mechanical Engineer, California Certificate No. M25808
- Patent Holder, Method for Extending the Useful Life of Boiler Tubes (TubeMod), Patent No. 5,050,108
- Associate Member, American Society of Mechanical Engineers

SELECTED REPORTS, PUBLICATIONS, AND INVITED LECTURES

Waterwall Finite Element Model - Matla Station, APTECH Report AES 99033657-2-1, with M. Cronin (February 2000).

Stress Analysis of Hot Reheat Piping at Salt River Project's Agua Fria Station, Unit 3, APTECH Report AES 98113565-2-1 (December 1998).

High Energy Piping System Evaluations at Cheswick Power Station, APTECH Report AES 98043364-2-2, with M. Cohn and R. Yee (August 1998).

High Energy Piping Inspection and Analysis at Cheswick Power Station, APTECH Report AES 98043364-2-1, with J. Yavelak (May 1998).

Evaluation of Albright 1 Generator Rotor, APTECH Report AES 97113238-2-1, with W. Brose and M. Cronin (April 1998).

Calculation of Size and Length of Jumper Tube Replacements for the Wraparound Tubes in the Secondary Superheater Intermediate Bank of Gerald Gentlemen Station, Unit 2, APTECH Report AES 97123267-2-2 (February 1998).

Calculation of Size and Length of Jumper Tube Replacements for the Wraparound Tubes in the Secondary Superheater Intermediate Bank of Gerald Gentlemen Station, Unit 2, APTECH Report AES 97123267-2-1 (January 1998).

Review of the Electrical Cable Operability Evaluation Report, APTECH Report AES 97103197-1-1 (November 1997).

Third Party Review of Condition Report 97-2129, APTECH Report AES 97113230-1-1 (November 1997).

Finite Element Stress Analysis of a 48-Inch Outside Diameter 90° Metered Elbow, APTECH Report AES 96122920-2-1 (April 1997).

Evaluation of Fort Martin 2 Steam Chest, APTECH Report AES 96082834-2-1, with W. Brose and R. Moser (March 1997).

Root Cause Failure Investigation at the Shell Oil Company, Wood River Facility - "Things To Do" List Items 1 and 7, APTECH Report AES 97022959-2-1, with M. Cohn (March 1997).

Boiler Condition and Life Assessment of Boiler 1 for National Steel Corporation, APTECH Report AES 96092858-2-1, with K. Hara, et. al. (November 1996).

Evaluation of Weld Flaws in a San Jose Valley Medical Center Building, APTECH Report AES 96042711-5-1, with G. Egan, et.al. (July 1996).

Investigation of Scrubbed Coke Oven Gas Pipeline Leak at AK Steel Middletown Works, APTECH Report AES 96022675-4-2, with P. Lindsay and K. Clark (May 1996).

Evaluation of a Steam Turbine Rotor Which was Overheated During Heat Treatment, APTECH Report AES 96022655-4-1, with E. Sullivan and M. Cronin (March 1996).

TubeMod Analysis of the Neal Station, Unit 4, Reheater, APTECH Report AES 95022371-2-1, with K. Ecoffey (April 1995).

Additional Analysis of Tosco Avon Refinery FCCU Reactor Vessel Post Weld Heat Treatment, APTECH Report AES 95012356-3-2 (February 1995).

Analysis of Tosco Avon Refinery Fluidized Cat Cracker Unit Reactor Vessel Post Weld Heat Treatment, APTECH Report AES 95012356-3-1 (January 1995).

Pendant Superheat Outlet Header Study to Determine Probable Root Cause of Tube Stub Cracking at Lake Shore Station, Unit 18, APTECH Report AES 92091770-2-1, with B. Siegel (December 1994).

Examination of Hot Reheat Piping Elbows at Gordon Evans Energy Center, Unit 2, APTECH Report AES 93031892-2-2, with H. Vaillancourt (June 1993).

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>).