

William F. Weitze, P. E.

Sr. Consulting Engineer

Education

MS, Mechanical Engineering, University of California at Berkeley (1985)

BS, Mechanical Engineering, Rutgers University (1982)

Professional Associations

Registered Professional Engineer, State of California

Member, American Society of Mechanical Engineers (ASME)

Chair and Vice-Chair, ASME Pressure Vessel and Piping Conference Technical Sessions

Past Chair, ASME Santa Clara Valley Section

Professional Experience

1997 to present Structural Integrity Associates, San Jose, CA
Sr. Consulting Engineer/Project Manager

1982 to 1997 General Electric Co., San Jose, CA
Senior Engineer

1990 to 1995 Engineering Consulting Services, Sunnyvale, CA
Consultant

Summary

Mr. Weitze has over 20 years of expertise in the power industry. He has performed structural, stress, fracture mechanics, and dynamic analysis of ASME Code Section III nuclear piping and vessel components. He has developed and applied finite element modeling for stress, vibration, creep, and heat transfer using ANSYS, SAP, PISYS (GE), CAEPIPE, PS-CAEPIPE, I-DEAS, SUPERPIPE, and ALGOR. He has performed Litigation Support for Engineering Consulting Services, on various cases in the areas of Human Factors and Slip-and-Fall. He is also experienced in using FORTRAN, C, and BASIC computer languages.

Since coming to Structural Integrity, Mr. Weitze has expanded his knowledge of PWRs, performing several analyses of PWR piping systems and reactor vessels. His expertise encompasses the entire scope of analysis, starting with examining data and plant operating instructions to determine the load

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specification, determining stratification loading, performing heat transfer and thermal-hydraulic analyses to determine temperature and pressure conditions, performing the ASME Code analysis, and preparing the stress report. He has also become proficient in using several of Structural Integrity's in-house computer programs, such as ANSC, PIPETRAN, PIPEFAT, VESLFAT, PIPE-TS2, TOPBOT, and **pc-CRACK for Windows**. Mr. Weitze is the project manager for the SI-developed pc-CRACK for Windows program, handling technical support and marketing.

While at GE, Mr. Weitze performed stress and fatigue analyses of reactor pressure vessel components to support power uprate and other operating condition changes. This includes rapid cycling analysis of BWR feedwater nozzles to support NUREG-0619. He was responsible for concept study and stress analysis of piping and structural support for the ground test of the SP-100 space reactor, using high-temperature design rules (Code Case N-47).

Recent Clients for Professional Services

William F. Weitze, P. E.

1. Diehl, Steinheimer, Riggio, Haydel & Mordaunt: Vavzincak v. Stockton Terminal (Calculated stress caused by worker falling through skylight and compared with required load capacity.)
2. Willett & McKay: Marlett v. Keller Ladder (Inspected defective ladder and gave deposition.)
3. Willett & McKay: Anderson v. Schwinn (Calculated stopping distances and acceleration for scooter during braking.)
4. Bell, Sheppard & Faria: Heer v. Kaiser (Slip and fall; measured sliding force at accident site and calculated coefficient of friction.)