

intertek

Total Quality. Assured.

INTERTEK AIM
HIGH ENERGY PIPING SERVICES
PUBLICATIONS LIST





PARTIAL LIST OF PUBLICATIONS

- *Remaining Life Case History Studies for High Energy Piping Systems Using Equivalent Stress*, M. J. Cohn, 1987 ASME PVP Fall Conference (October 21-23, 1987).
- *A Life Assurance Program for High Energy Steam Lines*, M. J. Cohn, International Conference of Life Assessment and Extension (June 13-15, 1988).
- *Cost Effective High Energy Piping Life Assurance*, M. J. Cohn, 1988 ASME PVP Conference (June 19-23, 1988).
- *Examination and Repair of High Energy Piping Systems*, M. J. Cohn, 1989 Golden Gate Materials Technology Conference (February 8, 1989).
- *Mathematical Simulation of Thermal Displacements for a Steam Piping System in the Material Creep Regime*, M. J. Cohn, 1989 ASME PVP Conference (July 23-27, 1989).
- *Remaining Life of High-Energy Piping Systems Using Equivalent Stress*, M. J. Cohn, Transactions of the ASME (August 1990).
- *Penstock Failure Evaluation and Support Redesign*, M. J. Cohn, C. C. Vass, S. R. Paterson, R. A. Uffer, and S. Nikkhah, 1992 ASME PVP Conference (June 21-25, 1992).
- *Sensitivity of Typical Temperature or Stress Variations on the Remaining Life of High Energy Piping Systems*, M. J. Cohn, 1993 ASME PVP Conference (July 25-29, 1993).
- *High Energy Steam Line Examinations, - A Realistic Approach*, S. D. Miller, S. R. Paterson, T. D. Burnett, M. J. Cohn, Aptech Technical Paper 039 (January 1994).
- *Life Management of High Energy Piping Girth Welds*, M. J. Cohn and S. R. Paterson, 1994 ASME PVP Conference (June 19-23, 1994).
- *Prediction of Creep Life Exhaustion in High Energy Piping System Girth Welds*, M. J. Cohn, 1995 ASME PVP Conference (July 23-27, 1995).
- *Evaluation of Limit Stop User Input Errors in Piping Flexibility Analyses*, M. J. Cohn and G. H. May, 1996 ASME PVP Conference (July 21-26, 1996)
- *Reducing the Cost of Reexaminations in High Energy Piping Systems*, M. J. Cohn and V. W. Spangler, POWER-GEN International '96 (December 1996).
- *High Energy Piping Reexaminations, Fewer Locations, Higher Confidence*, M. J. Cohn, 1997 ASME PVP Conference (July 27-31, 1997).
- *Nonintrusive Inspection for Flow-Accelerated Corrosion Detection*, M. J. Cohn and J. A. de Raad, 1997 ASME PVP Conference (July 27-31, 1997).
- *INCOTEST Projects in the United States for the Detection of Flow-Accelerated Corrosion*, M. J. Cohn, Failures '98 Conference (July 6-10, 1998).
- *Pulsed Eddy Current Projects for the Detection of Flow-Accelerated Corrosion*, M. J. Cohn and J. A. de Raad, 1998 ASME PVP Conference (July 26-30, 1998).
- *Creep Relaxation Behavior of High Energy Piping*, M. J. Cohn and R. K. Yee, 1998 ASME PVP Conference (July 26-30, 1998).
- *Recent Developments in Measurement and Evaluation of FAC Damage in Power Plants*, M. J. Cohn, Y. S. Garud, and J. A. de Raad, Corrosion 99 (April 1999).
- *Predicting, Examining, and Evaluating FAC in US Power Plants*, M. J. Cohn, Y. S. Garud, and J. A. de Raad, Corrosion 99 (April 1999).



- *Comparison of Flow-Accelerated Corrosion Prediction and Field Measurement Results*, M. J. Cohn, 1999 ASME PVP Conference (August 1-5, 1999).
- *Software and Pulsed Eddy Current Analysis Enhanced Detection of Flow Accelerated Corrosion*, M. J. Cohn, Y. S. Garud, and J. A. de Raad, Power Engineering (November 1999).
- *HEP Life Management at TransAlta Utilities*, W. Smith and M. J. Cohn, Pressure Equipment Industry Conference (February 2000).
- *Pulsed Eddy Current Experiences in Fossil and Nuclear Power Plants*, M. J. Cohn, EPRI Balance-of-Plant Heat Exchanger NDE Symposium (June 19-21, 2000).
- *The TransAlta High Energy Piping Program - A Five-Year History*, M. J. Cohn, 2000 ASME PVP Conference (July 23-27, 2000).
- *Creep Relaxation Behavior of High-Energy Piping*, M. J. Cohn and R. K. Yee, Transactions of the ASME (November 2000).
- *The TransAlta High Energy Piping Program - A Five-Year History*, M. J. Cohn, Transactions of the ASME (February 2001).
- *Effect of Operation Temperature on Life Consumption for 1-1/4Cr 1/2Mo Si and 2-1/4Cr 1 Mo Materials*, M. J. Cohn, 2001 ASME PVP Conference (July 22-26, 2001).
- *Case History of Solidification Cracks in 2-1/4Cr 1Mo Low Carbon Welds - Cholla Unit 2*, M. J. Cohn and D. Nass, 2002 ASME PVP Conference (August 5-9, 2002).
- *Creep Life Prediction For High Energy Piping Girth Welds Case History - Cholla Unit 2*, M. J. Cohn and D. Nass, 2002 ASME PVP Conference (August 5-9, 2002).
- *Case Studies of Ultrasonic Thickness and Pulsed Eddy Current Nondestructive Examinations for the Detection of Wall Loss on Feedwater Heater Shells*, M. J. Cohn and J. Norton, 2002 ASME PVP Conference (August 5-9, 2002).
- *Comparison of a Life Consumption Analysis to Section III, Subsection NH Design Rules for a Main Steam Girth Weld Creep Crack*, M. J. Cohn, 2003 ASME PVP Conference (July 21-24, 2003).
- *Case Studies of Pulsed Eddy Current to Measure Wall Loss in Feedwater Heater Shells*, M. J. Cohn and J.W. Norton, 2003 ASME PVP Conference (July 21-24, 2003).
- *An Estimator for the Influence of Service Temperature on Creep Rupture Life*, M. J. Cohn, 2004 ASME PVP Conference (July 25-29, 2004).
- *Fabrication, Construction, and Operation Problems for Grade 91 Fossil Power Components*, M. J. Cohn, J. F. Henry, and D. E. Nass, 2004 ASME PVP Conference (July 25-29, 2004).
- *Creep Rupture Properties of Grade 91 Weldments*, M. Cohn, S. Paterson, and K. Coleman, 2004 EPRI International Conference (October 26, 2004).
- *Evaluation of Short and Long-Term Creep Rupture Properties for Grade 91 Materials*, M. J. Cohn, 2005 ASME PVP Conference (July 17-21, 2005).
- *Fabrication, Construction, and Operation Problems for Grade 91 Fossil Power Components*, M. J. Cohn, J. F. Henry, and D. E. Nass, Transactions of the ASME (May 2005).
- *Life Management of Main Steam and Hot Reheat Piping Systems - Part 1*, M. J. Cohn, 2006 ASME PVP Conference (July 27, 2006).
- *Life Management of Main Steam and Hot Reheat Piping Systems - Part 2*, M. J. Cohn, 2006 ASME PVP Conference (July 27, 2006).
- *A Strategy for Life Management of Main Steam and Hot Reheat Piping Systems*, M. J. Cohn, 2006 EPRI International Conference (October 17, 2006).
- *Life Management of Three Main Steam Piping Systems*, M. J. Cohn, 2006 EPRI International Conference (October 17, 2006).



- *Risk-Based Inspection Applied to Main Steam and Hot Reheat Piping Systems*, M. J. Cohn, 2007 ASME PVP Conference (July 26, 2007).
- *Evaluation of Historical Longitudinal Seam Weld Failures in Grades 11, 12, and 22 Materials*, M. J. Cohn and S. R. Paterson, 2008 ASME PVP Conference (July 28, 2008).
- *Case Studies of Pulsed Eddy Current to Measure Wall Loss in Feedwater Piping and Heater Shells*, M. J. Cohn and J. W. Norton, 2008 ASME PVP Conference (July 28, 2008).
- *A Quantitative Approach to a Risk-Based Inspection Methodology of Main Steam and Hot Reheat Piping Systems*, M. J. Cohn, P. Besuner, and J. T. Fong, 2008 ASME PVP Conference (July 31, 2008).
- *Estimating Main Steam Piping Circumferential Weldment Creep Life Consumption*, M. J. Cohn, International Conference Welds 2009 (June 25, 2009).
- *Main Steam Piping Girth Weldment Stresses and Life Consumption Considering Malfunctioning Supports*, M. J. Cohn, 2009 ASME PVP Conference (July 29, 2009).
- *Fitness-For-Service of Longitudinal Seam Welds*, M. J. Cohn, 2010 ASME PVP Conference (July 21, 2010).
- *Estimating Main Steam Piping Circumferential Weldment Creep Life Consumption*, M. J. Cohn, Materials at High Temperatures (September 2010).
- *Main Steam Piping Girth Weldment Stresses and Life Consumption Considering Malfunctioning Supports*, M. J. Cohn, Transactions of the ASME (October 2010).
- *Main Steam Piping Creep Life Consumption in Circumferential Welds*, M. J. Cohn, 2011 ASME PVP Conference (July 21, 2011).
- *Fitness for Service of Degraded Grade 91 Pipe*, M. J. Cohn and S. R. Paterson, 2012 ASME PVP Conference (July 16, 2012).
- *Comparison of ASME B31.1 Sustained Load Stresses to Corresponding Tresca Stresses*, M. J. Cohn, 2012 ASME PVP Conference (July 16, 2012).
- *Fitness for Service of Low Hardness Grade 91 Pipe*, M. J. Cohn and S. R. Paterson, European Technology Development (November 29, 2012).
- *Asset Integrity Management of High Pressure Piping Systems Subject to Creep*, M. J. Cohn, 2013 ASME PVP Conference (July 17, 2013).
- *Creep Life Evaluations of ASME B31.1 Allowance for Variation from Normal Operation*, M. J. Cohn, 2014 ASME PVP Conference (July 24, 2014).
- *Frequency Distribution Curves for Main Steam Piping Multiaxial Stresses*, M. J. Cohn, F. Faham, and D. Patel, 2014 ASME PVP Conference (July 24, 2014).
- *Optimization of NDE Reexamination Locations and Intervals for Grade 91 Piping System Girth Welds*, M. J. Cohn, M. Cronin, F. Faham, and D. Bosko, 2015 ASME PVP Conference (July 20, 2015).
- *Optimization of NDE Reexamination Locations*, M. J. Cohn and F. Faham, 2016 ASME Power and Energy Conference (June 28, 2016).
- *Grade 91 Power Piping Time-Dependent Viscoplastic Stresses and Cumulative Creep Damage in Circumferential Welds*, M. J. Cohn, M. Cronin, 2016 ASME PVP Conference (July 18, 2016).
- *A Statistical Approach to Estimating a 95% Confidence Lower Limit for the Design Creep Rupture Time vs. Stress Curve When the Stress Estimate has an Error up to 2%*, J.T. Fong, J.J. Filliben, N.A. Heckert, P.V. Marcel, and M. J. Cohn, 2016 ASME PVP Conference (July 18, 2016).
- *Creep Life Evaluations of ASME B31.1 Allowance for Variation from Normal Operation*, M. J. Cohn, Transactions of the ASME (August 2016).
- *Ranking of Creep Damage in Main Steam Piping System Girth Welds Considering Multiaxial Stress Ranges*, M. J. Cohn, Transactions of the ASME (August 2016).
- *Enhanced Creep Life Evaluations for Grade 91 Circumferential Welds*, M. J. Cohn, 2017 ASME PVP Conference (July 20, 2017).



- *Fitness-for-Service Creep Life Evaluation of a Hot Reheat Piping System at 400,000 Operating Hours*, M. J. Cohn, 2017 ASME PVP Conference (July 20, 2017).
- *Evaluation of Unintended High Stresses for Power Piping Systems Operating in the Creep Regime*, M. J. Cohn, Energy-Tech (August 2017).
- *Fitness-for-Service Evaluation of a Gr 91 to Gr 22 Dissimilar Metal Weldment Subject to Creep*, M. J. Cohn, 2018 ASME ETAM Symposium (April 5, 2018).
- *Creep Life Evaluations of ASME B31.1 Allowance for Variation from Normal Operations - 11 Materials*, M. J. Cohn and R. Haupt, 2019 ASME PVP Conference (July 19, 2019).
- *Large Ranges in Power Piping Girth Weld Creep Rupture Lives*, M. J. Cohn and F. Faham, 2019 ASME PVP Conference (July 19, 2019).
- *Power Piping Grade 91 In-service Cracks*, M. J. Cohn, S. Paterson, K. Rapkin, C. Henley, E. Liebl, and M. Johnson, 2019 ASME PVP Conference (July 19, 2019).

For any questions regarding the information provided in these publications, please contact us at marvin.cohn@intertek.com or fatma.faham@intertek.com.