

DISCUSSION GROUP T14 VERIFICATION of PROTECTIVE SYSTEMS



Lil Kassie is presently Rotating Equipment Advisor for BP refining. He is located at BPs Whiting, Indiana, refinery where he has worked for 24 years. He has held positions as Rotating Equipment Specialist, Superintendent of the Rotating Equipment and Reliability Engineering Group, and Senior Rotating Equipment Consultant. In his present position, Mr. Kassie is responsible for providing machinery expertise, sharing and implementing equipment practices, and development coaching for improving equipment reliability and plant availability throughout BP. Prior to his tenure at BP, Mr. Kassie worked as Rotating Equipment Superintendent for Energy Cooperative Inc. and as a Field Service Engineer for Ingersoll Rand. He has presented technical papers at various rotating equipment conferences including the Turbomachinery Symposium and Rotating Machinery Users Council. Mr. Kassie holds B.S. and M.S. degrees (Mechanical Engineering) from the University of Wisconsin.



Stephen R. (Steve) Locke is a Senior Consultant in DuPont Engineering Technology Rotating Machinery Group in Old Hickory, TN. He had plant assignments in the Petrochemical Department starting in 1972 for technical assistance to operations and maintenance including responsibility for startup and oversight of several large process compressors and other equipment. He moved to corporate engineering in 1983 to consult in turbomachinery for reliability improvements, retrofits, performance analysis, and for specification and startup of new equipment. More recently, Steve has also been leading a corporate effort to identify machinery credible failure modes and appropriate steps to quantify and manage safety risk. Steve received a BS degree (Mechanical Engineering, 1972) from Purdue University and is a member of ASME. He has been active on the Turbomachinery Symposium advisory committee, authored several papers, case studies, leading discussion groups, and represents DuPont on the Texas A&M Turbomachinery Research Consortium.



Stanley Stevenson is Service Engineering Manager for Siemens Power Generation Industrial Applications (formerly Demag Delaval), in Trenton, New Jersey. He has been with them for more than 27 years and has been involved in the design, manufacture, and testing of rotating equipment for the chemical, oil and gas, utility, and power generation markets. In his current role, Mr. Stevenson is responsible for the design and component selection for rotating equipment trains and auxiliary support systems, technical interface with customers, field service support during equipment installation, startup, and field operational problems. Mr. Stevenson has received both B.S. and M.S. degrees (Mechanical Engineering, 1980, 1983) from Drexel University. He is a member of ASME and is a registered Professional Engineer in the State of Pennsylvania. Mr. Stevenson is a member of PMI, where he is a certified PMP.



L. E. (Ed) Watson is a consultant with the DuPont Company in Houston, Texas. He works in the DuPont Engineering Technologies and Research Division of DuPont Engineering. His responsibilities include the specification and repair of turbomachinery and other rotating equipment, vibration and stress analysis, predictive maintenance and reliability improvement, process equipment application, and general engineering consultation on machinery and processes. Mr. Watson has been with DuPont for over 35 years and works on capital projects and engineering support of plant operations. He previously worked as a designer for Lufkin Industries and as a production engineer with Humble Oil. Mr. Watson has a B. S. degree from Lamar University and a M. S. degree from The University of Texas at Austin (both in Mechanical Engineering). He is active in the Vibration Institute and is past chairman of both the Triplex Chapter and the Houston Chapter of the Vibration Institute.

Robert Kranz

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George Seamon is a Principal Design Engineer, Expanders for Dresser-Rand Company, in Olean, New York. For the last 26 years, he has been responsible for the aerodynamic and mechanical design and development of hot gas expanders for FCC and Nitric Acid service. Additional responsibilities include working in the field diagnosing mechanical and performance problems. Prior to 1987, he spent six years on design of Dresser Clark gas turbines and another four years on the design of the GHH type hot gas expander. Before joining Dresser-Rand, George worked for 10 years with General Electric and Pratt & Whitney on heat transfer, aerodynamic, and mechanical design of the turbine section of jet engines. George graduated with a BSME/AE degree from Northwestern University (1967).



Justin Kassie is a rotating equipment engineer at BP's Carson Refinery with over 9 years' experience. He holds a B.S. from Carnegie Mellon University in Pittsburgh, PA.



Curt Miller has over 25 years of experience in process instrumentation, control and automation, safety instrumented systems design, and project execution. He is a Principal Engineer / Partner with Exida and is responsible for functional safety lifecycle support applications including risk assessment, LOPA/SIL analysis, SRS development, SIS design, assessments/audits, test practices, and SIS lifecycle management plans. Mr. Miller has previously worked with Exxon, Siemens, and Honeywell in the Texas & Louisiana Gulf of Mexico area. He has solid experience in risk assessment and SIS implementation projects for a variety of turbo-machinery applications across multiple industries. Based on his experience in protective control aftermarket applications, he firmly believes that there are compelling safety and reliability reasons to support such upgrade investments. Mr. Miller has a B.S. in chemical engineering from Texas A&M and has authored over 10 papers/articles on SIS application, as well as publishing a book entitled "Win/Win: A Manager's Guide to Functional Safety".
