

## DISCUSSION GROUP P10 PIPELINE APPLICATION

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**William R. (Bill) Litton** is the Pump Initiative Manager with Magellan Midstream Partners, LP, in Tulsa, Oklahoma. He is an experienced professional engineer with 25 years of experience in the petroleum industry. He has ability and experience in mechanical equipment, prime mover economics, power optimization, and pipeline system hydraulics. Mr. Litton also has project engineering ability and experience in handling pipeline expansions, pipeline pump stations, refineries, fractionators, gas and processing facilities and crude oil, refined products, NH<sub>3</sub>, and propane terminals (brine cavern and excavated caverns). He also has experience in maintaining mechanical equipment company-wide to provide reliable and economical service. This includes rerating of pumps and pump modifications to reduce resonant and nonresonant vibration levels. Mr. Litton has a B.S. degree (Mechanical Engineering, 1979) from Kansas State University and a B.S. degree (Mathematics, 1978) from Emporia State University. He is a registered Professional Engineer in the State of Oklahoma.

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**Bruce Weber** is responsible for the technical support of the mechanical seal division at the Champion Group in Houston, Texas. In this capacity, he supports customers during preliminary selection, design, installation and operation of sealing systems. Mr. Weber's other major role with Champion is customer training. In addition to mechanical seals, this training includes rotating equipment; selection, operation and other associated support systems. Previously, Mr. Weber was the Operations Manager for Best Equipment. His duties included supervision of the pump repair facility, consulting with clients concerning pumping systems, and pump troubleshooting. Prior to that, Mr. Weber was associated with Koch Hydrocarbon, in Medford, Oklahoma, for 18 years. His responsibility as Maintenance Supervisor included 10,000 miles of pipelines that employed 2300 pumps. He also served as a rotating equipment consultant for Koch's four Gas Liquid fractionators. Mr. Weber is currently enrolled at the University of Houston, working toward a B.S. degree.

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**Morgan M. (Morg) Bruck** is an independent consultant with Hydraulic, Measurement, and Inspection Consulting, LLC of Dayton, Ohio. Before retiring to form HMIC, LLC, Morg was with Marathon Petroleum Company in the Engineering Standards and Technical Support Group. Morg wrote standards related to rotating equipment and measurement systems and provided tech support in these areas for Marathon Pipe Line and Marathon Terminals. Prior to his position at Marathon, Morg worked in plant, project, and reliability engineering with The Dayton Power & Light Company and Sohio/BP Pipe Line Company. Morg is an active member of API Sub-committee on Mechanical Equipment and also API measurement standards. Morg is Chairman of API 675, Vice-chairman of API 674 and API 676; and a member of API 610, API 682 and API 687 task forces. Morg is a graduate of Rose-Hulman Institute of Technology (BSME 1969).

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**Ralph Dickau** is a Senior Engineering Specialist with Enbridge Pipelines in Edmonton, Alberta. His responsibilities include pumping equipment specifications, selection, installation and startup. He was team leader for several large pump and motor replacement and rerate programs on the pipeline system. Mr. Dickau is also responsible for troubleshooting pump and motor operating problems. He has presented seminars on pump technology for other pipeline companies through Enbridge Technology and has authored several technical papers. Mr. Dickau has been with the company for 28 years. Mr. Dickau received a B.Sc. degree in Mechanical Engineering at the University of Alberta (1978) and is a registered professional engineer in the Province of Alberta.

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**George J. Maddox** is the Engineering/Global Hydraulics Manager at Best Pumpworks located in Tyler, Texas. He has more than 32 years' experience in a variety of engineering design and engineering management positions. Mr. Maddox is currently involved in the design, remanufacture, repair, re-rating, and packaging of centrifugal pumps. His responsibilities include the hydraulic and mechanical design and design evaluations of centrifugal pumps and pump units. Mr. Maddox has a BSME degree from the University of Texas At Arlington and an MBA from Amber University. He is a registered Professional Engineer in the State of Texas.

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**Mike Nigro** works at Weir Oil and Gas.