

DONALD W. JOHNSON, P.E.

Mr. Johnson is a registered professional engineer in the State of Texas with over thirty years experience engineering, testing, and analyzing offshore hose, flexible pipe, tanker loading/offloading systems, and subsea equipment and systems.

EDUCATION

BS Mechanical Engineering Texas A&M University, 1986

EMPLOYMENT HISTORY

2001-Present: ETA International Inc., President and Principal Engineer

1997-2001: Manuli Oil & Marine (USA) Inc., Engineering Manager

1987-1997: Southwest Research Institute, Senior Research Engineer

AFFILIATIONS

Registered Professional Engineer, Texas

American Society of Mechanical Engineers

Tau Beta Pi Engineering Honor Society

API-ISO Flexible Pipe Task Group

Marine Technical Society

PATENTS / PUBLICATIONS

Patent No. 5,954,095 - "Apparatus and Method for Sealing a Damaged Pipe"

Patent No. 5,920,976 - "Apparatus and Method for Remotely Sealing a Damaged Pipe"

Patent No. 11,021,946 B2 - "Systems and Methods for Measuring Loads Applied to Downhole Structures"

Offshore Technology Conference, Paper 8241, "Deepwater Tests of Wet Mated Electrical and Hydraulic Connectors"

OMAE 2007 Paper No. 29578, "Hatch Seal Design Parameters for Manned Submersibles"

Underwater Intervention 2008, "A Compliant Yoke System for Hatches in Manned Submersibles"

Offshore Technology Conference, Paper 21128, "Development and Testing of a Non-interlocked Hoop Strength Layer for Unbonded Flexible Pipe"

TYPICAL PROJECT EXPERIENCE

Mr. Johnson's project experience includes the following categories.

Single Point Mooring Hose

Performance testing in accordance with OCIMF and company-specific standards; in laboratory and on location.

OrcaFlex® analysis of subsea hose strings and FPSO offloading systems.

Flow and surge analysis of subsea pipeline – hose string – buoy – tanker systems.

Onsite supervision of assembly, installation, and commissioning of hose strings and ancillary equipment.

Development of leak alarm systems including telemetry to buoy.

Development of ancillary equipment including a gravity-based tether point for an FPSO offloading system.

Failure analysis, on location and in laboratory, including negotiation with interested parties.

Long-length Offshore Hose and Flexible Pipe

System design of early production and tanker loading/offloading systems including riser analysis, flow analysis, and deployment/retrieval planning and analysis.

Performance testing in accordance with API, DNV, and military standards; in laboratory and on location.

Onsite supervision and Subject Matter Expertise for installation, repair, and re-commissioning.

Failure analysis on location and in laboratory.

Subsea Equipment and Vehicles

Development of hatch system and ballast/trim components for submersible vehicles.

Pressure vessel design and analysis to ASME Section VIII

Deep ocean simulation testing

Test program and equipment development to ABS and NAVSEA MAN-10 and P9290 specifications.