



WEBINAR TALK ON “CRA MECHANICAL LINED PIPE FOR HPHT PIPELINE APPLICATION”

**20 FEBRUARY 2021
9.00 AM TO 11.00 AM**

SYNOPSIS

PETRONAS is developing a new gas field in offshore east Malaysia. The gas from this field will be exported to a nearby platform through 18" x 8km pipeline for further processing. The reservoir is expected to have high CO₂ content with high temperature & high pressure, hence high corrosion rate is expected.

PETRONAS has conducted qualification on the suitability of CRA Lined pipe for HPHT field application. The assessment consists of Finite Element Analysis (FEA) on liner wrinkling sensitivity, full scale testing and fatigue performance of the seal weld.

Both FEA and full-scale testing showed that the liner pipe was not susceptible to wrinkling at the maximum global buckling loading, even without pressure. There was also indication of residual gripping force even though the pipe had gone through full cycle of operation stage. The low cycles fatigue tests also show high safety factor for the fatigue life.

This sharing session is intended to improve industry awareness, understanding and knowledge on technical capability of CRA lined pipe for HPHT offshore pipeline application.

SPEAKERS BIODATA

I Wayan Eka Putra has Twenty years' experience in consultant, contractors and oil & gas operating company, covers engineering design, procurement, construction/fabrication, operation, inspection, maintenance repair and rehabilitation for oil and gas pipelines. He is currently a Staff (Specialized) Pipeline Engineer, Offshore Design, in Group Technical Solutions (GTS) PETRONAS, appointed as Technical Authority for Pipeline Projects within PETRONAS, Malaysian and international operation, including Joint Ventures (JV). In addition, he is also Discipline Resource Person (DRP) for Offshore Pipeline and Geotechnical Skill Group, regular trainer at Institute Technology PETRONAS (INSTEP) for conducting various Level 1 & 2 Pipeline Engineering Skill Group trainings. He is also responsible to update or develop new for PETRONAS Technical Standards (PTS), PETRONAS Technical Guideline (PTG), and in-house engineering pipeline engineering software. He is key person for qualification, and development of new technology for pipeline in PETRONAS.

Farahiah Rosli has fourteen years' experience in design and installation of offshore pipelines projects. She is a Senior Pipeline Engineer (Offshore Design) in Group Technical Solutions (GTS), PETRONAS. In 2017, she was a Project Team Leader who execute engineering, procurement, installation, pre-commissioning and commissioning for a CRA Pipeline Project which was piloting CRA pipeline 1st application in PETRONAS and world's first CRA lined pipe for HPHT. She is currently been assigned to GTS for various Front End projects execution.

**BEM Approved CDP: 2 Hours
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**Registration fee
IEM Members: RM15.00
Non-Members: RM70.00**

Organised by: Oil, Gas and Mining Technical Division (OGMTD)

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