



S. ANDREW MCINTOSH



Mr. McIntosh is a Senior Principal with Long International and has 50 years of engineering, construction, and energy and management consulting experience. He has extensive international greenfield and brownfield project development and project management experience in diverse areas such as oil and gas, including refinery, pipelines, and offshore projects, LNG, petrochemical and ferrous metallics. Mr. McIntosh has been involved in projects ranging in value from US\$20 million to US\$1.8 billion. He has provided expert analysis of technical issues and their causes and effects related to project management performance on multibillion-dollar EPC projects. In addition, Mr. McIntosh has extensive experience in the development of project management and project execution plans and procedures, stage-gate processes for project development, and the analysis and resolution of engineering and construction claims involving disputed

change orders, schedule delay, and loss of productivity claims. More recently, he completed expert analysis of technical issues, and the causes and effects of an EPC contractor's project management performance on a major LNG project

During his career, Mr. McIntosh provided expert advice to foreign governments on major LNG project development and natural gas monetizing strategies from natural gas offshore fields and from associated gas derived from offshore oil producing fields. He has prepared and submitted various independent expert reports including an expert report involving a US\$2.7 billion refinery upgrade project in South America and a US\$270 million claim arising out of EPC works on the project. His report was presented to the International Chamber of Commerce (ICC), resulting in a favorable outcome for the client. Moreover, he submitted an expert report to IDRC and testified on technical matters before a tribunal on a major arbitration arising out of EPC works on a refinery project in Vietnam. Mr. McIntosh has also prepared expert reports for two other major arbitrations arising out of EPC works on two LNG projects in Australia and testified on technical matters for one of those projects. Before joining Long International, he served as President of the Natural Gas Company of Trinidad and Tobago and was a Senior Operations Advisor, Vice President – Operations, and Vice President – Technical Services for several international energy companies.

EDUCATION

Certificate in Petroleum Engineering – Oil & Gas Consultants' Institute, 1993

B.S. (Honors) Mechanical Engineering – University of West Indies, 1971

TECHNICAL EXPERIENCE

- Extensive leadership experience, recognized as a visionary, dynamic, results-oriented, and trusted leader
- Fifty years of experience in natural gas-driven industries including 17 years as a senior-level executive, and three years as President of The National Gas Company of Trinidad and Tobago
- Experienced with major EPC project management and plant operations with a proven record of completing major expansion projects on schedule and within budget
- Expertise with greenfield and brownfield project development, execution, commissioning, and startup
- Extensive experience in the assessment of change orders and closure of punch list items arising from a systems approach to process plant mechanical, pre-commissioning and commissioning, and start-up activities
- Expertise in analyzing technical issues and EPC and EPCm project management performance issues relative to multibillion-dollar construction claims