



Executive Brief

Independent Technical Advisory for Strategic Aviation Fuel Infrastructure

Peter M. Buckley - Executive Director

Executive Summary

PMC Engineering provides independent technical advisory, project assurance and specialist aviation fuel infrastructure consultancy services to government entities, airport authorities, public-sector project owners, engineering consultants and EPC contractors. The objective is to support the planning, procurement, delivery and operation of aviation fuel infrastructure that is safe, compliant, resilient and aligned with long-term national airport development objectives.

Led by Peter M. Buckley, PMC Engineering brings more than **30 years of international experience** across strategic aviation fuel infrastructure programmes in the Middle East, South Asia, Southeast Asia, Europe and Australia. This experience includes fuel farms, Jet A-1 transfer pipelines, hydrant systems, fuel storage terminals, fuel quality management, design review, procurement support, commissioning oversight and operational assurance.

PMC Engineering acts as an independent, vendor-neutral technical adviser and does not operate as an EPC contractor or equipment supplier. This independence enables public-sector clients and project owners to obtain objective technical input, strengthen governance over key project decisions and reduce technical, operational, compliance and commercial risk throughout the asset lifecycle.

Core Advisory Capability

Infrastructure Planning, Design and Delivery

- Aviation Fuel Farms
- Jet A-1 Transfer Pipelines
- Airport Fuel Hydrant Systems
- Fuel Storage Terminals
- Aviation Fuel Depots
- Fuel Quality Management

Compliance, Quality and Technical Assurance

- Joint Inspection Group (JIG)
- Energy Institute (EI)
- International Aviation Fuel Best Practice
- Technical Due Diligence
- Design Review
- Vendor Evaluation
- Project Assurance

Government Advisory and Project Support

- Government Advisory
- Airport Development
- Procurement Support
- EPC Technical Evaluation
- Risk Management
- Stakeholder Coordination
- Independent Technical Assurance



Importance of Independent Technical Assurance

Aviation fuel infrastructure forms part of the strategic national transport and energy supply chain. Such assets are typically required to operate safely and reliably over extended service lives, often exceeding forty years. Decisions made during concept development, procurement, detailed design and equipment selection can have significant implications for public safety, operational continuity, regulatory compliance, maintainability, resilience and whole-of-life cost.

Independent assurance provides structured, objective review at the stages where project risk is most commonly introduced. It assists government entities and project owners by challenging assumptions, validating design intent, reviewing technical submissions and helping ensure that recognised international aviation fuel requirements are translated into infrastructure that is buildable, operable, maintainable and suitable for long-term public-sector stewardship.

This independent review supports:

- Compliance with Joint Inspection Group (JIG), Energy Institute (EI) and other recognised international aviation fuel requirements.
- Transparent evaluation of technical submissions, equipment selections and approved manufacturers.
- Long-term operational reliability, maintainability and service continuity.
- Reduction of lifecycle risk, operational risk and avoidable public-sector cost exposure.
- Effective commissioning, operational readiness and compatibility with future airport expansion.

PMC Engineering's role complements the work of EPC contractors, owner's engineers and engineering consultants by providing independent technical oversight focused on project-owner interests, regulatory confidence and the long-term performance of nationally significant infrastructure.

Relevant Sri Lanka Experience and Local Context

PMC Engineering has direct aviation fuel infrastructure experience in Sri Lanka, including technical advisory support associated with Mattala Rajapaksa International Airport, its aviation fuel farm and fuel handling system.

- Mattala Rajapaksa International Airport (Hambantota)
- Aviation Fuel Farm
- Fuel Handling System
- Technical Advisory Services
- Greenfield Airport Development

This experience provides practical insight into Sri Lanka's aviation fuel infrastructure requirements, CPC's operational expectations and the application of internationally recognised aviation fuel standards within the local operating environment. It also supports informed engagement with public-sector stakeholders responsible for aviation, fuel supply, airport development and national infrastructure resilience.

Selected International Experience

Airport	Country	Experience
Changi East Terminal 5	Singapore	Strategic Aviation Infrastructure Advisory
Dubai World Central (DWC)	UAE	Airport Fuel Depot & Aviation Fuel Infrastructure
Zayed International Airport	UAE	Airport Expansion Programme



New Muscat International Airport	Oman	Fuel Farm & Hydrant System
King Khalid International Airport	Saudi Arabia	Fuel Hydrant Network & Airside Development
King Abdul Aziz International Airport	Saudi Arabia	Aviation Fuel Infrastructure
Prince Nayef International Airport	Saudi Arabia	Design Review & Technical Advisory
Sharjah International Airport	UAE	Airport Expansion Programme
Rajiv Gandhi International Airport	India	Aviation Infrastructure Advisory
Perth International Airport	Australia	Airport Expansion Advisory
Heraklion International Airport	Greece	Aviation Fuel Infrastructure Advisory
Mattala Rajapaksa International Airport	Sri Lanka	Fuel Farm & Fuel Handling System

Representative Public-Sector Clients and Industry Stakeholders

Airport Authorities

- Riyadh Airports
- Abu Dhabi Airports
- Dubai Aviation Engineering Projects
- Sharjah Airport Authority
- GMR Airports

International EPC Contractors

- Consolidated Contractors Company (CCC)
- Larsen & Toubro
- Wade Adams
- Al Naboodah Contracting
- TAV Construction

Aviation & Industry Stakeholders

- Air BP
- Airport Fuel Consortia
- General Authority of Civil Aviation (GACA)

Value to Government and Public-Sector Project Owners

PMC Engineering provides focused, independent support across the project lifecycle, assisting public-sector clients to make technically sound decisions, manage specialist aviation fuel risks, strengthen procurement and delivery assurance, and maintain alignment with recognised international standards.

- Independent, vendor-neutral technical advice.
- Objective project assurance for public-sector decision-making.
- Oversight of JIG, EI and international aviation fuel compliance requirements.
- Technical due diligence.
- Procurement support and technical bid evaluation.
- Design review.
- Delivery assurance, commissioning support and operational readiness review.
- Stakeholder coordination.
- Lifecycle risk mitigation and long-term asset performance support.



PMC Engineering (Private) Limited
Planning | Management | Consulting

Independent specialist aviation fuel advisory supporting government entities, airport authorities, owner's engineers, engineering consultants and EPC delivery teams.

Contact

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