



HCP

Engineering Capability

From the first master plan to bringing an ageing system back to life, we are with you at every stage of your fuel infrastructure.

WHAT THIS BROCHURE COVERS

The engineering capability catalogue

Within our engineering capability, we provide everything from master planning and feasibility studies to system design, project management, and system remediation services, ensuring your aviation fuel systems are efficient, compliant, and future-ready. The pages that follow set out each service in turn, and the standards our engineers work to.

01 Master plan

02 Feasibility study

03 Aviation fuel system design services

04 Industry-leading design standards manual

05 Project management

06 Project oversight and governance

07 System commissioning

08 System remediation services



Planning, feasibility and design

01 Master plan

We provide comprehensive master planning services, outlining the strategic direction and development framework for your aviation fuel systems. This includes forecasting future needs and ensuring the infrastructure is designed to accommodate growth and change.



02 Feasibility study

Our team conducts detailed feasibility studies to assess the viability of your aviation fuel system projects. This includes evaluating technical, economic, and legal aspects to ensure the project is feasible and beneficial.



03 Aviation fuel system design services

We offer specialised design services for aviation fuel systems. Our team of experts uses the latest technology and industry best practices to create efficient, safe, and compliant fuel systems.



04 Industry-leading design standards manual

We adhere to an industry-leading design standards manual, ensuring that all our projects meet the highest standards of safety, efficiency, and compliance. This manual guides our design process and ensures consistency and quality in our work.



Delivery, commissioning and remediation

05 Project management

Our project management services ensure that your aviation fuel system projects are executed efficiently and effectively. We oversee all aspects of the project, from initiation to completion, ensuring that it is delivered on time and within budget.



06 Project oversight and governance

We provide rigorous project oversight and governance, ensuring that all project activities align with your strategic objectives and comply with industry standards and regulations.



07 System commissioning

Our team manages the commissioning of your aviation fuel systems, ensuring they are fully functional, safe, and ready for operation. This includes testing all components and training your team on system operation and maintenance.



08 System remediation services

We offer system remediation services to address any issues or deficiencies in your aviation fuel systems. Our team will diagnose the problem, develop a remediation plan, and implement the necessary changes to ensure your system operates at peak efficiency.



DELIVERY ASSURANCE

Design intent survives into handover

Every stage is governed by the same design standards, so the requirements set at the feasibility stage are the requirements tested at commissioning. Where we are engaged as an independent client-side expert, compliance checkpoints are defined across the whole programme rather than reviewed at the end.

STAGE 01

Feasibility and master plan

STAGE 02

Design and specification

STAGE 03

Construction supervision

STAGE 04

Commissioning and start-up

STAGE 05

Handover and remediation



HCP IN BRIEF

Who you are working with

Hansaconsult Projects DWC LLC (HCP) specialises in aviation fuel infrastructure, product quality assurance and fuel facility operations. Our team holds current aviation fuel qualifications and includes senior JIG Inspectors who have delivered design reviews, construction supervision, commissioning support and JIG/EI 1530 inspections at depots and airports worldwide.

Risk and compliance

Operational governance and project management that keep you inside the standards.

Sustainability

Energy-efficient design, material optimisation and SAF-ready infrastructure.

Operations and maintenance efficiency

Asset life extension and proactive maintenance built into the design.

Capital efficiency

Engineering judgement applied at every stage of the project life cycle.

THE HCP TEAM ARE REPRESENTATIVES ON



The API inspectors group, Defence Standards 91-091 and 91-090, Energy Institute aviation committees, the IATA Technical Fuels Group and the Joint Inspection Operations and PQ Committees. Full detail in the HCP company brochure.

STANDARDS WE DESIGN TO

Every deliverable is written against a published standard

Our design standards manual is built on published industry standards and regulatory frameworks, so every drawing, specification and test can be traced to a named requirement. API and ASTM International standards govern tank, pipework and product quality design. JIG and IATA guidelines set the operability and inspection requirements a design has to satisfy.

NFPA and IEC standards govern fire protection and electrical design in hazardous areas. EPA and OISD requirements shape environmental containment and separation distances. Alignment with BSI, ANSI and ISO standards keeps deliverables consistent and auditable across jurisdictions.

 ANSI American National Standards Institute	 API American Petroleum Institute	 ASTM ASTM International
 BSI British Standards Institution	 EI Energy Institute	 EPA Environmental Protection Agency
 IATA International Air Transport Association	 IEC International Electrotechnical Commission	 ISO International Organization for Standardization
 JIG Joint Inspection Group	 NFPA National Fire Protection Association	 OISD Oil Industry Safety Directorate

Design and commissioning deliverables are prepared against Defence Standard 91-091, EI 1530, JIG 1, JIG 2 and JIG 4 where applicable. Marks remain the property of their owners.

CONTACT

Let's talk about your project

Every fuel system carries its own history and constraints, so we start by listening. Tell us where the project stands and what you need it to achieve, and we will talk it through with you, share what we have learned on similar schemes and agree the right way forward together.

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