



Solutions Across the Aviation Fuel Supply Chain

Consulting, engineering, construction, commissioning and training for the aviation fuel industry, from feasibility studies to daily operations.

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ABOUT US

Creating value through partnership

At HCP, our values are embodied in our name: Honesty, Commitment, and Purpose. These principles guide us in delivering exceptional results that not only meet but exceed expectations, fostering long-term success for our clients and their projects.

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.

In addition to our exceptional project management services, we proudly offer a comprehensive suite of solutions tailored for the aviation fuel industry, including consulting, engineering, construction, commissioning, and training. You gain a strategic partner dedicated to your business objectives, working to the highest standards of safety, quality, and environmental responsibility.

OUR COMPANY VISION

Innovative, end-to-end solutions

At HCP, our vision is to revolutionise the aviation fuel industry by providing innovative, end-to-end solutions that ensure safety, compliance, and efficiency.



We are dedicated to preserving the quality and quantity of aviation fuel from receipt to delivery, while continuously exploring and implementing smart, sustainable, and innovative solutions.

We envision a future where we create value through partnership, working closely with all stakeholders to meet and exceed current and future requirements. Our commitment extends beyond delivering successful projects.

We strive to optimise operations, reduce costs, and improve efficiency, thereby creating value for our clients and the aviation industry as a whole.

HOW WE CREATE VALUE

Four measures we hold ourselves to

Risk and compliance

We ensure that clients are aware of the risks present in their operations whilst ensuring they are supported with the knowledge and tools to manage these risks. Key to this is operational governance and project management services. In a highly regulated environment, we equip clients with the knowledge and the tools to ensure compliance with industry standards and expectations.

Operations and maintenance efficiency

HCP provides the expertise, tools, and processes to maximise the operational efficiency of aviation fuel systems. Through proactive maintenance strategies, operational governance, and hands-on support, we help clients reduce downtime, extend asset life, and achieve their business objectives safely and cost-effectively.

Sustainability

Sustainability is embedded in everything HCP does. From energy-efficient design and material optimisation to leak detection, asset life extension, and SAF-ready infrastructure, we ensure our clients' systems are environmentally responsible, operationally resilient, and positioned to meet the evolving sustainability demands of the aviation industry.

Capital efficiency

Through rigorous engineering judgement applied at every stage of the project life cycle, we ensure client investments deliver maximum value. From feasibility through to delivery, our solutions are optimised to minimise capital expenditure whilst meeting operational requirements, regulatory obligations, and long-term stakeholder expectations.

TAILORED SERVICES FOR YOUR NEEDS

Eight ways we work alongside your team



Consulting

Strategic guidance for operational efficiency and business growth.



Engineering

Innovative, sustainable solutions across multiple disciplines.



Commissioning

Rigorous system testing for seamless implementation.



Feasibility studies

Assessing financial, technical, and legal viability.



Construction supervision

Safe, timely, and high-quality project execution.



Project management

End-to-end oversight to ensure precision and success.



Training

Industry-specific programmes to enhance team competency.



Technical service agreements

Custom service contracts ensuring continuous compliance, maintenance, and operational excellence.

WHAT WE CAN DO

Precision, compliance and efficiency in aviation fuel management

Our work spans the whole fuel system: supply logistics, product quality assurance, operations management, ongoing operational support, training and commercial analysis, backed by an engineering capability that runs from master planning to remediation. The examples below are where clients most often ask us to start.

Feasibility studies and detailed design

Feasibility studies, master planning, options analysis and detailed design, with bespoke financial modelling to test project viability and phase capital expenditure. Experience across a broad range of operations means their lessons can be leveraged whilst efficient solutions are sought.

Technical service agreements and JIG inspections

HCP has provided technical service agreements and technical support since 2012, delivering compliant operational solutions through qualified independent JIG inspectors and training staff. A support agreement de-links product quality and technical support from your supply arrangements.

Training

An industry best practice portal of JIG and EI aligned programmes in several common languages, supported by classroom training and field assessment. You can also upload your own content.

Leak detection

HCP's advanced Leak Detection System, powered by Pressure Step Technology, ensures tightness integrity monitoring in full compliance with JIG and EI1540/EI1560 standards, delivering reliability and safety at every stage.



ACROSS THE FUEL SYSTEM

From receipt to the wing, and the records that follow

Our specialised solutions attach to specific points in the fuel chain. Wherever your system needs attention, there is a stage below that covers it.

01	Design, build and handover New systems, extensions and upgrades brought safely into service.	Construction supervision	Commissioning and start-up
02	Store and distribute Tank farm and hydrant integrity, monitored continuously.	Leak detection	Engineering and automation
03	Fuel the aircraft The apron operation, and the transactions it generates.	Into-plane dispatch	Inventory management and e-ticketing
04	Prove and improve Evidence for the regulator, and readiness for what comes next.	Inspections and compliance	Operational Readiness and Airport Transfer (ORAT)

HCP is your trusted partner in aviation fuel management, driving compliance, efficiency, and innovation.



RISK MANAGEMENT

Knowing the risk, and holding the tools to manage it



Expertise

Our associates have broad ranging and deep experience across a wide variety of operations. You are connected to a knowledge network well beyond the size and scale of your own operation.



Management systems

A management system for environment, health and safety management, aligned with JIG EHSMS requirements and therefore with industry best practice.



Risk assessment

Within the framework of the EHSMS, the knowledge and tools to formally identify and manage the risks inherent in the business.



Work control

A highly developed work control procedures system, so that risks associated with operations and works can be managed effectively, with tools and training provided.

TYPES OF PROJECTS

Infrastructure and operational projects

HCP specialises in a wide range of aviation fuel infrastructure and operational projects, ensuring compliance with industry standards and delivering high-quality engineering, design, and training solutions.

Fuel farm and fuel hydrant system design and engineering

Basic and detailed engineering

Hydraulic studies with dynamic simulation

Fuel farm infrastructure planning

Fire safety system design and equipment specifications

Fuel hydrant system extensions and upgrades

Expansion for additional aircraft stands

Line sizing and flow rate calculations

System optimisation and capacity upgrades

Automation and control systems

SCADA systems, PLC (F-systems) programming

Electrical and Instrumentation (E&I) design and commissioning

System integration and monitoring solutions

Project management and consultancy

Contract management and tendering support

Procurement quality control and construction supervision

Feasibility studies, master planning, and validation

Inspections and compliance audits

JIG inspections and technical support

Aviation fuel system safety and operational audits

Regulatory compliance assessments

Training and standards development

Aviation fuel operations and handling training

Development of industry standards (EI/JIG)

Online training portal access for fuel operators

Design and engineering

Design and engineering for fuel farms and hydrant systems, from first concept through to a specification a contractor can build to.

Concept and detailed engineering design

Concept and detailed design packages, developed to JIG and EI requirements and to the standards of the jurisdiction.

Hydraulic studies with dynamic simulation

Dynamic simulation of the system under operational load, so surge, flow and pressure behaviour are understood before construction.

Fuel farm infrastructure planning

Layout, capacity and phasing set against the operation the facility has to serve, now and at build-out.

Fire safety system design and equipment specifications

Fire protection design and equipment specifications prepared to NFPA and jurisdictional requirements.



HYDRANT SYSTEM EXTENSIONS

Extensions and upgrades to a live system

Additional stands, higher throughput and ageing equipment are handled as an extension of the system already in service, not as a separate project alongside it.

Expansion for additional aircraft stands

Extension of the hydrant loop to new stands, with the phasing planned around a running apron.

Line sizing and flow rate calculations

Line sizing and flow rate calculations confirming the extended system meets demand at the required delivery pressure.

System optimisation and capacity upgrades

Capacity upgrades and optimisation of existing assets, so investment goes where it changes the operation.



AUTOMATION AND CONTROL SYSTEMS

Control, instrumentation and monitoring

Control and instrumentation work covering the whole chain, from the field device through the programmable controller to the screen an operator reads.

SCADA systems and PLC programming

SCADA and PLC (F-systems) programming, configured to the way the facility is actually operated.

Electrical and instrumentation design

Electrical and Instrumentation (E&I) design and commissioning, including hazardous area requirements.

System integration and monitoring

Integration and monitoring solutions that bring tank gauging, leak detection and dispatch data together.



Delivery, procurement and the business case

Support on the commercial side of a project as well as the technical one, from feasibility and options analysis through tendering to supervision on site.

Contract management and tendering support

Tender documentation, evaluation and contract management, so the scope you pay for is the scope you receive.

Procurement quality control and construction supervision

Inspection of procured equipment and supervision on site, with non-conformances raised while they are still cheap to correct.

Feasibility studies, master planning and validation

Significant project experience across a broad range of operations, so the lessons of other operations can be leveraged whilst efficient solutions are sought.

Options analysis

Support in completing effective options analysis, so the projects developed are the most effective and efficient possible.

Third party design review

Design review and evaluation support, so any third party design is rigorously reviewed.

Commercial analysis

Bespoke financial modelling for accurate IRR calculations, determining project viability and the phasing of capital expenditure.

INSPECTIONS AND COMPLIANCE AUDITS

Inspection, audit and the findings that follow

Inspections and audits carried out to the industry frameworks, with findings written up so they can be prioritised and closed out.

JIG inspections and technical support

JIG inspections and the technical support that follows them, from baseline survey to close-out.

Aviation fuel system safety and operational audits

Audits covering plant condition, procedure and practice, carried out with your operators.

Regulatory compliance assessments

Assessment against the standards and regulations of the jurisdiction the facility operates in.



Training, standards and the documents that carry them

Training delivered online, in the classroom and in the field, drawn from the same document sets we develop and maintain for the industry.

Aviation fuel operations and handling training

A world best practice portal of JIG and EI aligned programmes in several common languages, supported by classroom training and field assessment.

Development of industry standards

Development of EI and JIG standards, and of the manuals, procedures and record sets that put them into daily use.

Online training portal access for fuel operators

Portal access for your operators, with completion and assessment records held against each individual.



STANDARDS ADHERED TO

Compliance across jurisdictions

HCP adheres to and complies with industry standards and regulatory frameworks to ensure safe, legal, and efficient operations. Compliance with API and ASTM International standards ensures fuel quality, handling, and distribution integrity. JIG and IATA guidelines establish best practices for aviation fuel management and operational safety.

Adherence to NFPA and IEC standards ensures fire protection and electrical safety in hazardous environments. Regulatory compliance with EPA and OISD guarantees environmental responsibility and occupational safety. Alignment with BSI, ANSI, and ISO standards enhances operational consistency and global credibility.

 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

INDUSTRY REPRESENTATION

We sit on the committees that write the standards

THE HCP TEAM ARE REPRESENTATIVES ON



API inspectors group



The Executive Committee of Defence Standards 91-091 (Jet A-1) and 91-090 (Avgas)



The Energy Institute Aviation Committee, Filtration, Equipment, Hydrant, Operations and Supply Chain Sub-Committees



IATA Technical Fuels Group and many of the special working groups (filtration, biocide, inspection harmonisation)



The Joint Inspection Operations and PQ Committees

HCP has a global representation ensuring personalised service in Asia-Pacific, Africa, the Middle East, UK, USA and South America. Specialising in aviation fuel infrastructure, our customer approach is bespoke, ensuring we offer value at every stage of the project life cycle.

An extension to our services is the provision of oversight by highly experienced and qualified technical inspectors. This service gives our clients the ultimate assurance of project compliance, in accordance with industry standards.



CLIENTS WORKED WITH



Recognised globally

AERTEC

Aertec
Middle East

AMANA.
WE BUILD WITH YOU

Amana Aviation
Middle East



APSCO
Kingdom of Saudi Arabia



EKO ABEE
Greece



ENOC
United Arab Emirates

H.H.Op.Co.

HHOpCo
United Kingdom

Jacobs

Jacobs
Middle East



NPMC
Trinidad and Tobago

PetroOceania

Petro Oceania
Fiji



PPS
Samoa



Quadrante
Portugal



State Trading Organisation
Maldives



Tristar
United Arab Emirates



Vital
Federated States of Micronesia

Vitol Aviation

Vitol Aviation
Middle East



VTTI
South Africa

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CONTACT US

Get in touch with us

Take the first step towards optimising your operations.
Our team is eager to assist you and provide detailed
insights into how our services can propel your success.



EMAIL

sales@hcp-me.com

OFFICE

Dubai World Central
PO Box 712952
Dubai
United Arab Emirates

WEBSITE

hcp-me.com



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