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BPA designs new bulk fuel storage in Ascension Island

Defence Infrastructure Organisation (DIO) has selected BPA to carry out a complete outline design of their project to construct a new 6.4M litre aviation fuel tank at Catherine Point Petroleum Storage Depot in Ascension Island. This extends BPA's ongoing involvement in the development of both military and commercial fuel facilities in the South Atlantic.

Right: Part of Petroleum Storage Depot in Ascension Island.



The site at Catherine Point in Ascension Island is an existing Petroleum Storage Depot (PSD), supplied by an offshore tanker via a floating hose system. It provides both ground and aviation fuels to RAF and USAF airfield facilities. BPA was commissioned to carry out complete outline design of a new 6.4 million (M) litre (l) Aviation turbine fuel (AVTUR – F35) storage facility. The objective being to improve site capacity and replace redundant infrastructure.

BPA's design included Civil, Mechanical, Electrical as well as Control and Instrumentation disciplines. It also considered complex operational, safety and environmental requirements. The design includes specification for the decommissioning and demolition of the existing storage facility to provide space for the construction of the new tank and bund.

All works will be carried out within the footprint of the existing PSD but will respect the client's wishes for no disruption to normal operations and

minimal disruption to adjacent facilities. BPA's design is in accordance with military standards and ensures 25 years design life. It also addresses the recommendations on design and operation of fuel storage sites resulting from the Buncefield Incident Investigation.

BPA delivered the design under budget and ahead of time which allowed the client to progress with the next phase of the project.