

Case Study – Cape Verde Islands

ACS
airport capacity

Cargo Handling – Baggage Handling – Passenger Scanning 'In A Box' Modular Systems







CASE STUDY NOTES [Pg. 1 of 4]

We were approached by our Clients to investigate the feasibility of providing a modular, low-cost Domestic Inter-Island Airport Terminal facility on the Island of Sao Nicolau, which forms part of the Cape Verde Island chain.

We utilised this experience to develop our Statement of Needs questionnaire. This was the first step we undertook with our Clients in understanding their needs in terms of Flight profiles, Passenger and Baggage throughput.

The next stage was to take the output from our Questionnaire and feed it into our specially developed design and planning process. This enables us to balance the Operational requirements with the available space, to develop a series of 'options' for the Client to consider.















CASE STUDY NOTES [Pg. 2 of 5]

Once settled on an Option, our Clients' were very proactive in the Production Design phase, and were fully engaged as we specified everything from the location of the proposed facility, the foundations required and the Operational processes right through to the internal and external colour scheme. During this process, we were also able to develop the initial overall detailed integrated Project Programme, which forms the basis of our end to end delivery schedule.

With Production Design complete and a full set of working drawings available, we entered the manufacturing stage of the Project. This is where our key strength of modularity comes into it's own, by reducing lead times for both procurement and manufacturing. We utilise the modular approach in everything we do, from the external structure to the internal fittings and fixtures, including Baggage Handling Systems. In this instance, our Client had a preference for their own Baggage Handling Supplier, and we were able to proactively work with them to help with the overall integrated design and delivery programme.



Pre-scanning waiting area









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CASE STUDY NOTES [Pg. 3 of 5]

Having completed our manufacturing phase and utilizing our Global Network, we were able to source materials from around the World enabling us to offer best value to the Client and organize shipments. The materials sourced from within Europe were consolidated at our Manufacturing Facility in Bad Rappenau in Germany, where everything was checked for quality, before being carefully packaged and loaded into Containers for the journey to Sao Nicolau.

With careful planning and timing everything arrived on site at the scheduled date to be greeted by our Project Manager and Installation Supervisors. One of our most important considerations is the ability to utilise local labour in the delivery of our Turnkey Solutions.

We strongly believe that having this opportunity was the most beneficial means of the local community and economy being able to maximise the potential of such a Project.









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CASE STUDY NOTES [Pg. 4 of 5]

Within ten days the external structure was complete and hermetically sealed against the elements. This enabled the internal fit out to commence with our first fix electrical installation being completed shortly afterwards. During this time, the Baggage Handling System was installing complete with Integrated Hold Baggage Screening. We then commenced the installation of our Modular Internal Walling systems; in conjunction with the second fix electrical installation. Following this activity was the installation of the modular, pre-assembled joinery items, such as the Bar/Café area, Airline Offices and Security Desks.

Installation of the facility was completed within a 5 week period from first arriving on site. Week 6 was the assembly of the furniture items such as bench seating for Passengers, Operations office furniture, Public Address Systems and Trolley rails. During this period, the all important Testing, Commissioning and Hand-Over Training was completed, along with the final passenger way-finding and signage being installed. It is at this stage, that we are able to finally measure how our original Brief and Design has managed to meet the Clients' original requirements.

The facility has now been open for business for the last seven years, with flights departing and arriving as per the original Client brief.













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CASE STUDY NOTES – Power Notes [Pg. 5 of 5]

Subject: Cape Verde Power Calculations

Background:

When the original power consumption figures were provided, these were an estimate based on general International Airport Standards and were provided as such by a well recognised company, that produces these figures for Heathrow Airport, Gatwick, Stansted and other major European Airports. At the time of writing, the only measure we could use was based on an average Wattage per Square Metre.

Once the drawings were completed and he had better 'visibility' of the actual equipment and areas to be cooled, we were able to calculate, with a better certainty of accuracy, the actual demand per area.

Area Description	Total Watts	Total kVA
Canopies	880	1.1
WC's	12000	15
Check -in	1760	2.2
Baggage Screening	1760	2.2
Cabo Verde Express	880	1.1
Halcyon Air	880	1.1
TACV	880	1.1
Café	9860	12.325
Passport Control	880	1.1
Security Search	1760	2.2
Departures Lounge	1760	2.2
Airside Op's	1760	2.2
VIP Room	1760	2.2
Baggage Handlers/Security	1760	2.2
Public Hall (departures and arrivals)	3600	4.5
Arrivals Lounge	3600	4.5
Baggage Screening	3600	4.5
Baggage Conveyors (Arr&Dep't)	9600	12
Losberger Lighting/Roof Pump	3600	4.5
Total Watts	62580	
Total Single Phase	20860	78.225
Total per Phase		26.075
Air Conditioning (3 Phase)	90000	112.5
Total Required Watts Total kVA Required	110860	138.575



Cable Size Requirements 46.19166667 Min

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Team

Alistair Herriot Managing Director, Founder

Alistair has over 20 years experience in the Airports sector and brings a wealth of experience in Capital Infrastructure Projects from both the Client and Supplier perspective. Having worked at most large Airports within the UK, he brings a fresh perspective to traditional issues and is true innovator.





Bernie Herriot Director, Co-Founder

Bernie has 34 years experience in both Credit Control and Sales Administration and has worked for the Motor and Building industries before joining ACS as a co-founder and Company Director in 2007. Bernie is currently managing Finance, HR/Compliance and Project Administration.

Simon Underwood

Simon is proactive, commercially focused Finance Director with over 30 years' experience, including more than 15 years in a top 20 firm of Chartered Accountants (MacIntyre Hudson). He spent seven years in the Financial Services Sector, initiating new commercial strategies including remodeling and execution of new business plans.





Stephen Lyons

Non-Executive Director

Stephen has over 30 years' experience of aviation finance and investment banking with a successful track record of closing large and complex financing transactions and brings an innovative approach to projects. He has covered aviation finance from many angles and has extensive experience of structured finance, ABF leasing, capital markets, and aviation equity investments. He has acted as a principal and as an advisor to aviation companies and their stakeholders.



Neill is a vastly experienced, cross industry Project Director with over 30 years in the property, military and aviation sectors. Neill is responsible for all projects in the Asia Pacific/Oceania region.





Gary Dennison

Asia Pacific Compliance Manager

Gary Providing CNS/ATM advice to industry, UNDP/ICAO, airlines and Service Providers. Gary has managed projects for ICAO in numerous countries globally including Papua New Guinea; Bangladesh, Somalia., Philippines, Singapore, Afghanistan, Pakistan, Uzbekistan, Iran, Iraq, Kuwait, Syria and others.

Experienced team with deep knowledge of its markets.





Asia Pacific Regional Capability

APAC Surveillance is the Asia Pacific Agent and project management team that represent ACS in the Asia Pacific region.

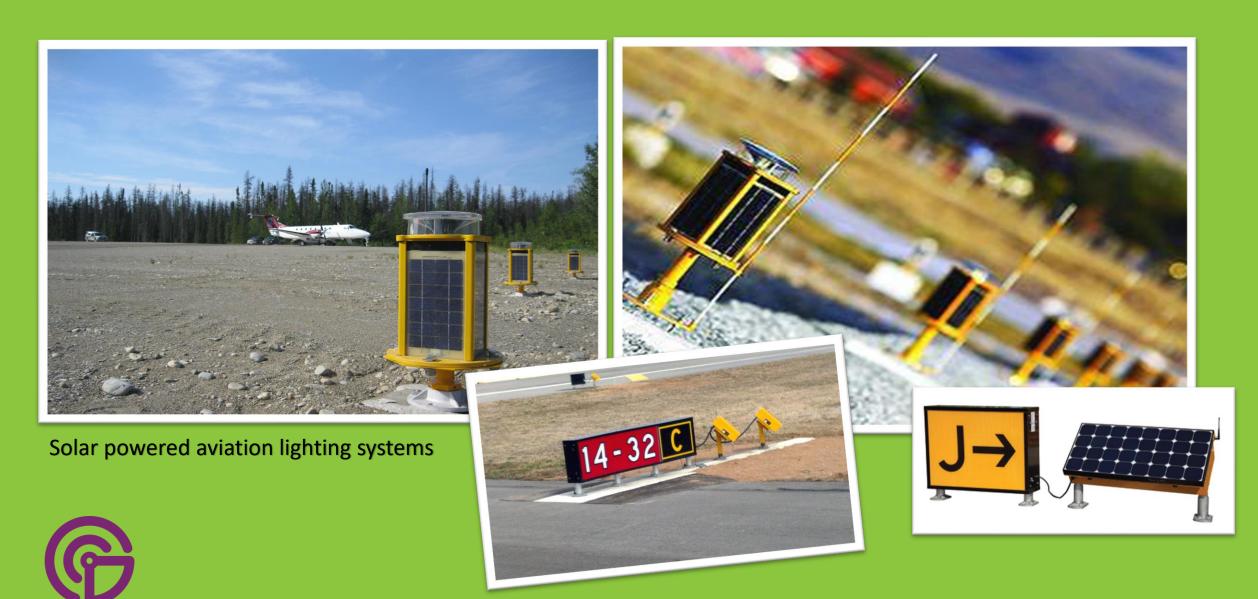
We have a comprehensive team and cross-region networks of Engineers, contractors and suppliers with significant experience in all facets of design and project delivery and management, to professionally deliver a project of this nature anywhere in the Asia Pacific region.

Wkltd also has additional products that may provide opportunity for even greater project cohesiveness, please see the following pages.

Neill Laurenson
Director







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Thank you www.apacsurveillance.com



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