



Naval Support Facility - Diego Garcia

Energy Assessments and Retro Commissioning Services

About the Facility:

The Diego Garcia Military Base is located in the Indian Ocean's Chagos Archipelago, more than 1,000 miles from the nearest continent. Its position is strategically vital for the U.S., allowing it to project its military strength quickly into Asia and Africa. Building types on this base, include: housing, medical, public service, administration, data centers and fitness facilities.

Scope of Work

To be in compliance with EISA 2007, Sain Engineering Associates, Inc. (SEA) was contracted by G4S-Parsons Pacific to conduct an ASHRAE Level II Audit for 116 buildings across 1.5 million square feet. The project began with SEA providing expert energy, utility and water consulting by evaluating control systems and placing an emphasis on the identification of operations and conditions that significantly impacted indoor environmental air quality. SEA was also expected to provide the data needed to benchmark, measure and monitor current facility requirements and energy consumption to aide with continued future improvements. This audit resulted in the identification of 15 Energy Conservation Measures for lighting, building envelope, water, HVAC, controls and renewables.

Based on the results of the Audit, SEA was then contracted to perform retro commissioning services for 42 buildings across 879 thousand square feet at the Naval Support Facility. Additionally, SEA performed a thermal imaging survey to help identify problems experienced by occupants involving moisture build-up in certain facilities. The survey indicated that several leaks to the exterior envelope were causing excess humidity and required improvements to reduce the infiltration of outside air into the facility. While SEA did not make the initial repairs, we were instrumental in the investigation of the systems to create the requirements needed for the installation and ensured repairs were accurate. As a result, utility costs could be reduced by 2-10% annually and the lifecycle of the equipment was extended.

SEA helps Naval Support Facility identify and repair issues with excessive humidification.

Part 1 - Audits

116

Buildings Audited

15

ECMs Identified

1.5M

Total Square Feet of Audited and Commissioned Space

Part 2 - Commissioning

42

Buildings Commissioned

879k

Square Feet