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AVIATION

TESTING SOLUTIONS

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100,000 LBF

AERO ENGINE TEST FACILITY

CUSTOMER

Royal Air Maroc
Casablanca, Morocco

FACILITY TYPE

100,000 lbf Turbofan and 6000 shp Turboshift/
APU Repair & Overhaul Gas Turbine Engine Test
Facility

ENGINE TYPES

Turbofan: PW 2037, CFM56-3C, CF6-80C2, & ATAR
9K50 (a military engine with afterburner capability)
Turboshift/APU: PW120A, T56-A15-LFE, & Garrett
APUs (GTCP 85-98Ck/-129, GTCP 36-280, GTCP
331-200)



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DESCRIPTION

MDS was responsible for all aspects of this turnkey project, including project management, architectural design, and facility construction.

This multi-test bed facility is now equipped for repair and overhaul testing of turbofan, turboshaft, and APU gas turbines.

SCOPE OF WORK

- ▶ Inlet and Exhaust Systems
- ▶ Quick engine change out capability
- ▶ 100Hz Steady-State and Transient Data Measurement
- ▶ Thrust Measurement System
- ▶ Monorail Engine Handling
- ▶ Engine Adapters
- ▶ Fuel Delivery and Measurement Systems
- ▶ Engine Start Systems
- ▶ Oil Inhibiting and Preservation Systems
- ▶ Hydraulic Lift Platform
- ▶ Engine Bleed Systems
- ▶ Compressor Wash System
- ▶ Load Absorption System including Dynamometer
- ▶ Instrumentation and Control System Wiring
- ▶ PLC-based Facility Control System
- ▶ Two EDAS Data Acquisition Systems
- ▶ Automated Engine Test Procedures
- ▶ Throttle System
- ▶ Trim Balance System



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