All Weather, Inc. AWOS Case Summary

Murtala Muhammed International Airport

Lagos, Nigeria

The Murtala Muhammed International Airport located in Lagos Nigeria is the nation's major airport that servers a multitude of international flights each day as well as flights domestically from the entire nation. The airport has two parallel runways. One serving the international community while the other is dedicated to domestic flights.

Recent years have seen substantial improvements at Murtala Muhammed International Airport in many of its functional areas. Much of the airports internal infrastructure such as air conditioning and luggage belts have been repaired. The entire airport has been cleaned, and many new restaurants and duty-free stores have opened.

On the safety side, one of the most important improvements has been the addition of the All Weather, Inc. **MetObserver AWOS** systems for both active runways. The addition of this system has dramatically reduced the risks in decision making for take offs and landings by providing accurate and current weather measurements to the pilots and airport personnel. The system, specified by the Nigerian Meteorological Agency (NIMET), who have been fully trained at the AWI facility in Sacramento, has been installed and maintained by the AWI local representative, Security Maintenance and Culture headed up by Mr. Mike Kabba.

Now activated, the airport now has fully functioning weather monitoring and reporting equipment covering the entire aerodrome. The feature rich AWOS system provides each runway end with CAT II approach capabilities.

The following is a summary of the equipment improvements to the airport.

Sensor Stations

The Lagos airport has two parallel runways — 18L/36R and 18R/36L. The identical suite of sensors is installed at each runway.

1.1 Tower-Mounted Sensors

The sensor station, located at the tower, measures a full array of meteorological parameters, including wind speed and direction, barometric pressure, temperature, dew point temperature, and relative humidity. The system consists of the following tower-mounted sensors and auxiliary equipment.

Model 2040	Ultrasonic wind sensor
Model 3120-A	Silicon Cell Pyranometer
Model 11906	Model 7150 dual digital barometer with pressure port
Model 5190-F	Temperature/Relative Humidity probe

1.2 Pad-Mounted Sensors

The following sensors are installed on concrete pads near the tower to the side of the runway midpoint.

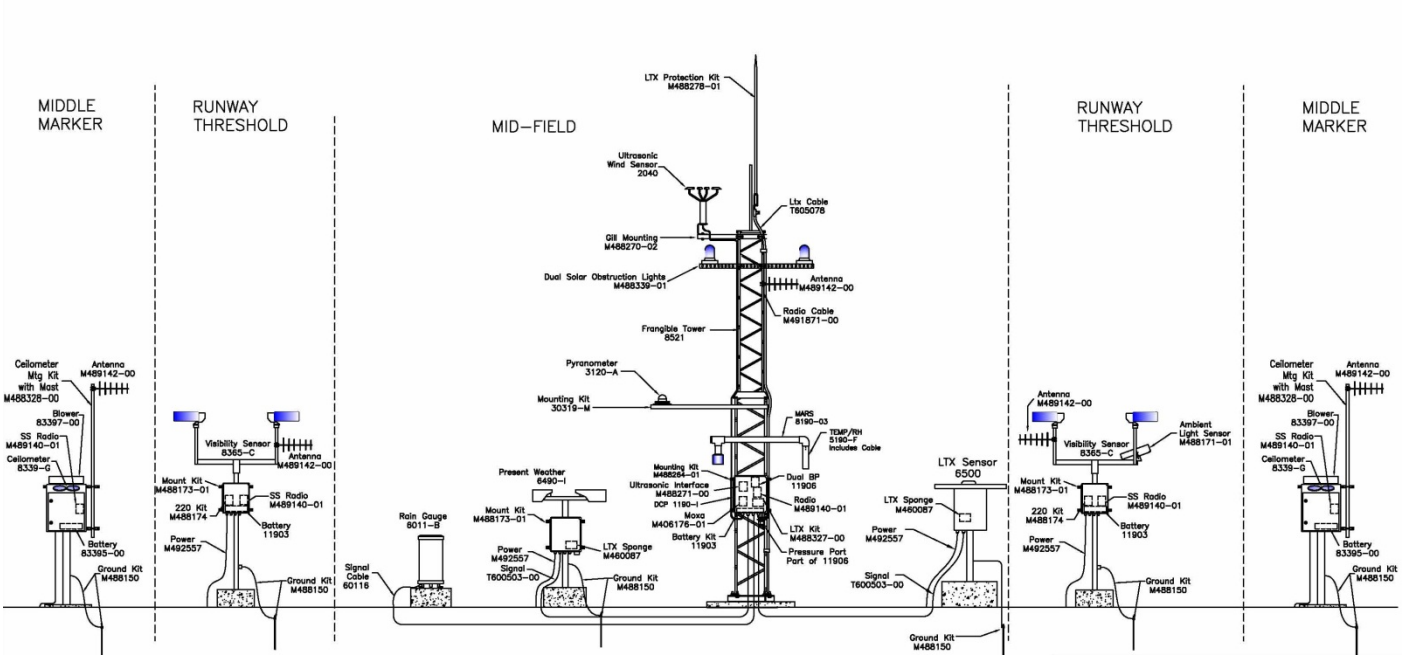
Model 6011-B	Rain Gauge
Model 6490-I	Present Weather Sensor
Model 6500	Thunderstorm/Lightning Sensor

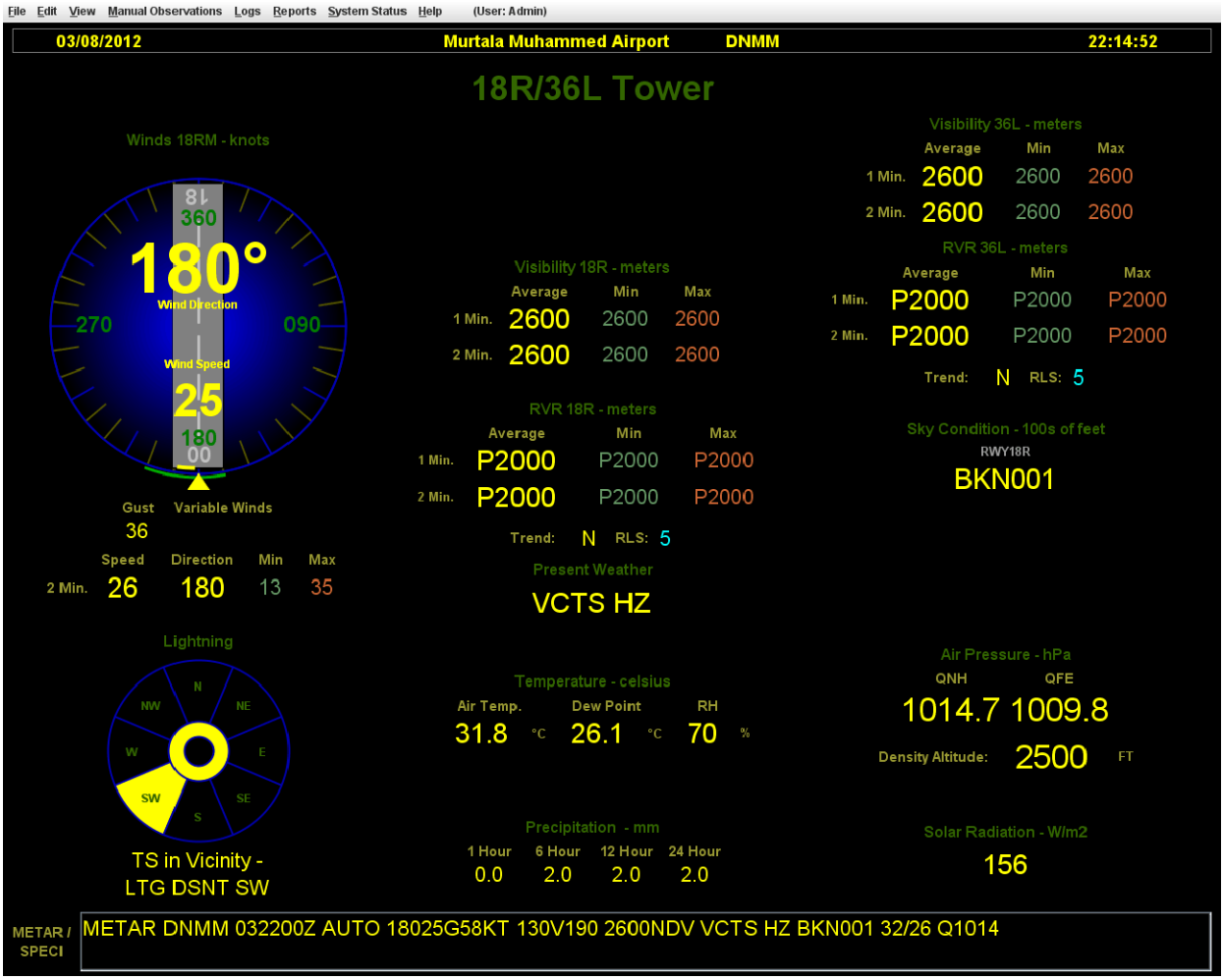
Visibility/RVR sensors are installed on concrete pads at the threshold of each runway end.

Model 8365-C	Visibility Sensors (one with Ambient Light sensor)

A Ceilometer is installed on concrete pads at the middle marker of each runway end.

Model 8339-G	Laser Ceilometers





Air traffic at the Lagos International airport is significantly increasing each year and the need for accurate and timely weather information has never been greater. The weather data and reports generated by the new state-of-the-art AWI AWOS system is providing the needed information to properly coordinate the increasing flight activities for take offs and landings while mitigating risk and enhancing critical decision making. When every decision counts, airport professionals choose AWI AWOS systems.