

Client: Zambia Airforce
 Services: Airport Upgrade, Geometric Design
 Appointment Date: 2019

Lusaka City Airport, Zambia

Airport Upgrade: Geometric Design

The Task

Zambia Airforce required an upgrade of the Lusaka City Airport runway to the maximum length achievable. The request was initially for a 2,200m runway, but due to encroaching structures and the restriction on land available, a runway length of 2,165m was the longest length of runway achievable.

The existing runway also had a permanently displaced threshold on the 08 side which needed to be honoured during the design as development has encroached on the approach path.

Design Services

Nurizon was appointed by ILISO Consulting to undertake the geometric design for the upgrading of the runway, taxiways and extended apron.

The upgrades to the airport included:

- A 135m extension of the runway on the 08 side to a total length of 2,165m
- Widening of the runway to 45m
- A reduced graded strip of 45m on either side of the centreline for a code 3C facility
- Introduction of a 60m end strip with a 90m RESA area on both sides
- Widening of the taxiways required 15m width with 5m unpaved shoulders on either side.
- A new apron extension that will accommodate 3 Gulfstream G650 stands.

