

Client: Department of Civil Aviation Zambia

Value: R1million (fees)

Services: Airport planning and design; stormwater design

Project Duration: Jan 2013 – Aug 2013

# Zambia District Airports

## Airport Upgrades: Tender Design

## The Task

ILISO, Nurizon and Zambian partner, Gladstone, were appointed to produce a tender design for the upgrade of 4 district airports in Zambia – Chinsali, Mpika, Serenje and Mkushi (termed “Lot 1”). The project concentrated on the upgrade and extension of the existing gravel runways (with the exception of Mkushi which had to be relocated) to 2.2km-long paved runways, accommodating ATR72 aircraft operations.

## Design Services

Nurizon undertook the geometric design works associated with the new runway infrastructure, i.e. horizontal layout planning and vertical site profiling; and stormwater infrastructure design.

A generic infrastructure footprint was applied to each site and then adapted to suit existing access road infrastructure, services and site topography. Quantities and a design report were produced for the submission to accompany the tender design drawings. Rescue and Fire Fighting (RFF) requirements for each facility were also detailed as part of the design report.

## The Result

A functional airport design to suit the client's requirement to operate the facilities as part of Zambia's national (domestic) airport network, with provision made in the layout planning for future site development/expansion.

