

Client: Airports Company South Africa (ACSA)

Value: R 60 million

Services: Stormwater and wet services design; geometric planning and design; structural engineering

Project Duration: July 2013 – Ongoing

OR Tambo International Airport Jet Fuel Farm

Fuel Farm Upgrade and Rehabilitation: Infrastructure Detail Design

The Task

The jet fuel farm at OR Tambo required significant infrastructure upgrades and rehabilitation works in order to address fundamental operational issues and proposed internal fuel pipework modifications (and new fuel line additions). Issues ranged from stormwater and ground water contamination, to distressed concrete pavements, inadequate access for fire tenders and obsolete fuel handling facilities.

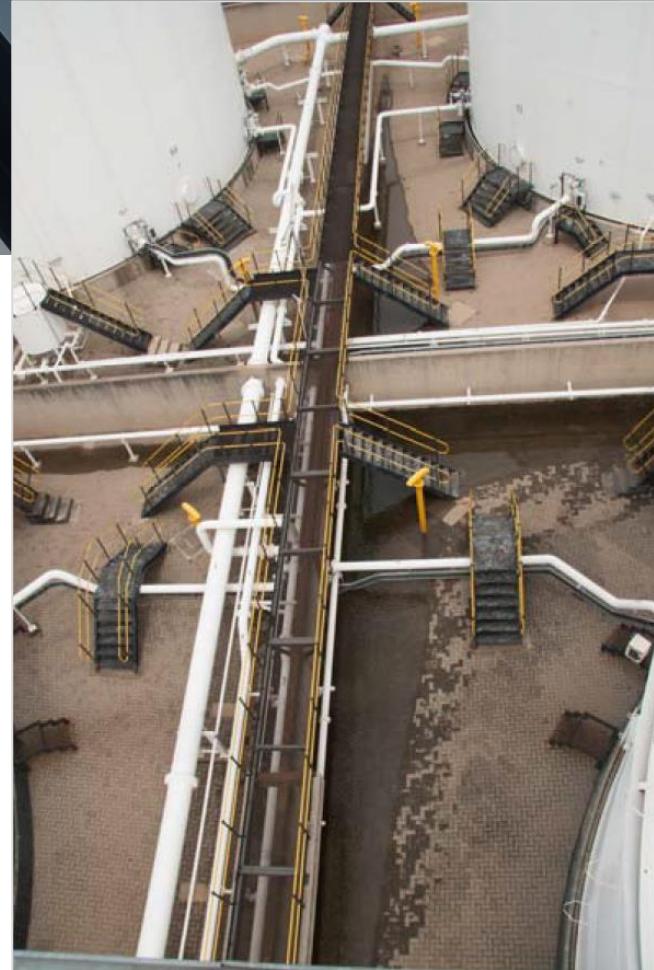
Nurizon was appointed as part of a Gibb design team, which also included Megchem – responsible for the fuel infrastructure design elements and developing the process flow diagram requirements for several of the civil works elements.

Design Services

Nurizon was tasked with the civils design and production of the associated tender documents for the project, as well as design integration between mechanical and electrical suppliers. Design services included stormwater management planning and engineering design, e.g. separation of clean and dirty catchment areas; fuel containment and stormwater treatment infrastructure design; structural roof detailing; fuel pipe service culvert design; pavement design and profiling; and vehicle movement area spatial planning.

The Result

An existing brownfields site, the project was complex due to services coordination issues, site level constraints, existing services and the requirement to maintain daily operational activities.



At the time of this case study's publication, the project is approaching Stage 3 sign-off, followed by the issue of the design to ACSA procurement.



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