



PROJECT: NGC VALVE STATION
LOCATION: POINT LISAS, TRINIDAD
OWNER: NATIONAL GAS COMPANY OF TRINIDAD & TOBAGO (NGC)
CLIENT: WORLEY PARSONS TRINIDAD LIMITED
SECTOR: ENERGY/INFRASTRUCTURE
PROJECT VALUE: US\$20m
PROJECT COMPLETION: Ongoing

Project Description

This project consists of the structural and civil engineering analysis and design of a major energy sector asset upgrade. The valve station acts as an integral part of the energy infrastructure that supplies the Point Lisas Industrial Estate. The upgrade of the new infrastructure posed a challenge as the existing plant had to remain operational during construction.

The overall project specifications were as follows:

- 104,000m² (25acres) of land area
- 2,000m of plant access roadways
- 1,200m of industrial plant fencing
- 1,700m surface drainage
- 345 Nr. augered piles
- 68 discrete pipe and equipment supports

Our role

- Work with established preliminary designs for the plant civil and infrastructure works and develop these into detailed designs
- Work at the Puerto La Cruz offices of Venezuelan engineering consultants INELECTRA SA to co-ordinate civil works designs
- Perform structural analysis on equipment and pipe supports to accommodate static and dynamic loading
- Work with piping and mechanical disciplines to co-ordinate the equipment specifications and dimensions
- Prepared contact documents (Bills of Quantities, Specifications and Contract conditions) to enable the Client to solicit competitive tenders

