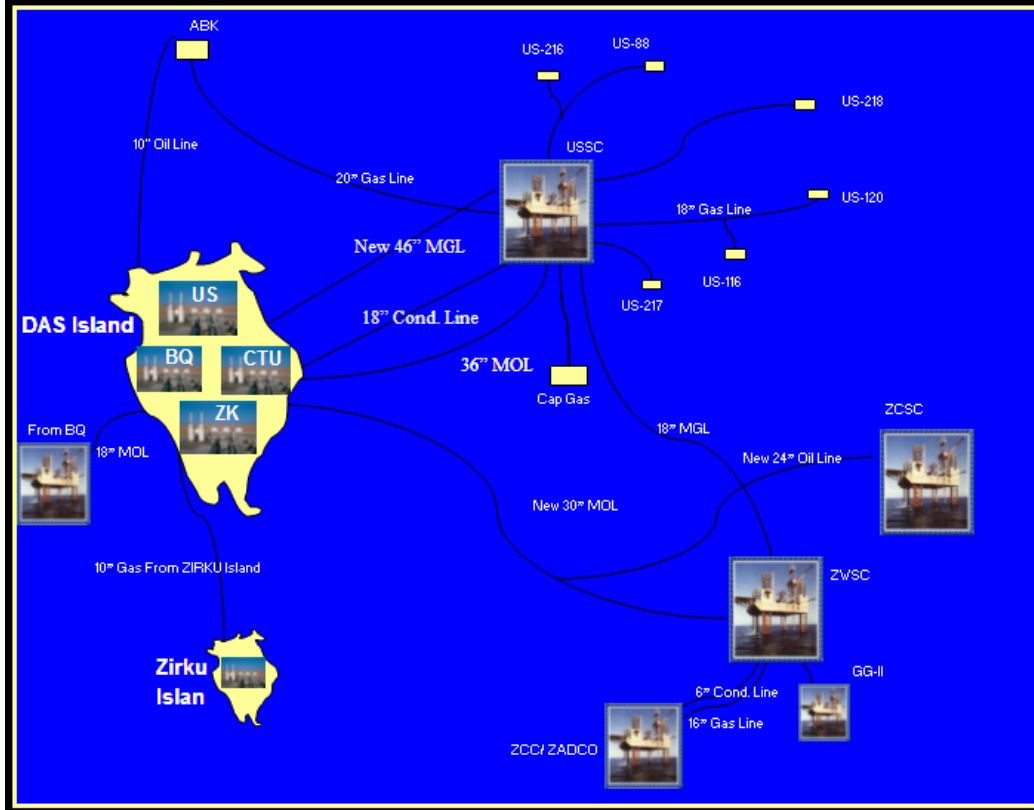


Development of Production Planning Tool and Dynamic Modeling for ADMA OPCO



CLIENT

ADMA OPCO Abu Dhabi (UAE)

SUMMARY

ADMA intended to develop a Production Planning Tool and dynamic models for their facilities at DAS Island.

The project outlines included:

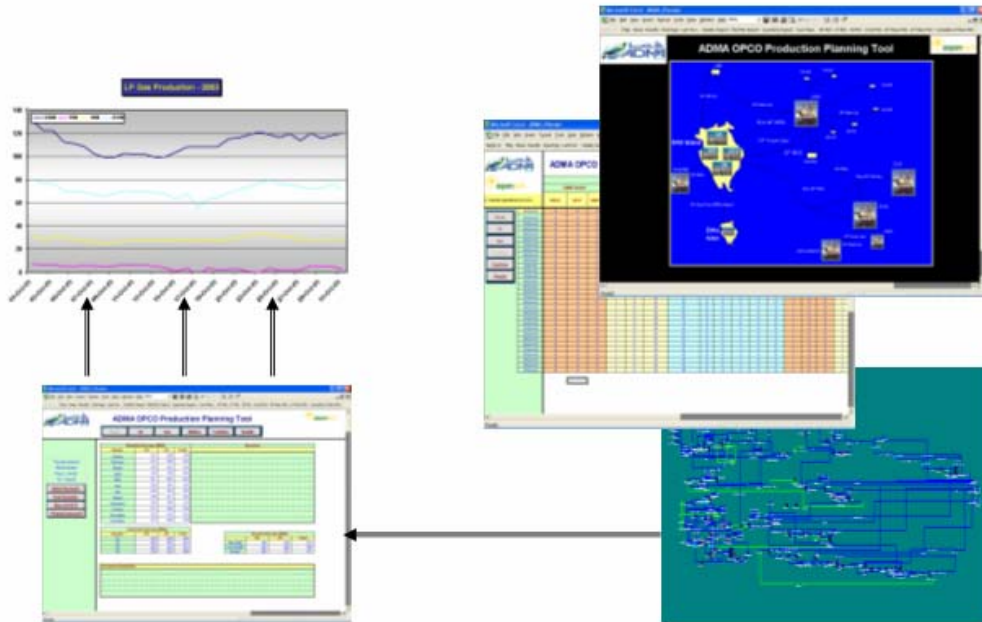
1. Build steady state simulation model for all the production facilities located at DAS Island (UMM Shaif, Zakum, and Bondq).
2. Build a production planning tool through an Excel based graphical user interface.
3. Build dynamic simulation model for all the production facilities located at DAS Island (UMM Shaif, Zakum, and Bondq).

SCOPE

Steady State Model

The steady state model is capable of providing information to be used for the following:

- Tuning and troubleshooting of any equipment.
- Optimization to run the plant safely and economically.
- Planning and Scheduling.
- Plant performance monitoring.
- Process design and de-bottlenecking studies
- Detailed equipment design, rating, and costing
- Performance and economics monitoring.



Production Planning Tool

The production planning tool is capable to provide the following:

- Perform simultaneous runs and record the results
- Ability to run multiple scenarios
- Fast system (365 runs in less than one hour)
- Generate different reports for the selected scenario
- Easy to use and user friendly

Dynamic Model

The dynamic model is capable of providing information to be used for the following:

- Process design and de-bottlenecking studies
- Process operations troubleshooting

- Advanced process control implementations (e.g., off-line step testing)
- Control System and safety related studies
- Emergency shut downs,
- Start up scenarios.