

## + WOODSIDE NORTH RANKIN (NR2) REDEVELOPMENT OFFSHORE PROJECT



### + PROJECT OVERVIEW

North Rankin 'A' Platform (NRA) has been installed on the North West Shelf of Western Australia since 1984. The Woodside North Rankin Redevelopment Project (NR2) project will unlock low-pressure reserves from the North Rankin and Perseus fields, which are currently produced via the NRA platform. The new North Rankin B (NRB) platform was installed 100 metres west of the existing NRA facilities and is linked to NRA via a bridge. The prime function of the NRB platform is to provide low pressure separation, compression and condensate pumping for the fluids produced from the NRA wells and from the NRA export facilities as well as providing new power generation and accommodation facilities for the complex.

### + OUR SERVICES

The control and safety systems integration of NRA and NRB required that the NRA systems be upgraded over a period of time prior to the arrival of NRB and then connected to the NRB systems during a scheduled shutdown window.

### + OUR SERVICES

I&E Systems scope of work included:

- The development of implementation strategies and management of upgrades to the NRA systems.
- Providing support to Honeywell during factory testing of the NRB safety systems with particular reference to the NRA integration.
- Development of the control and safety system integration strategies for NRA and NRB.
- Prior to system integration the coding, testing and implementation of software modifications to NRA control and safety systems resulting from ongoing NR2 brownfield projects.
- Specifying, designing, coding, testing and implementation of software modifications to the NRA safety systems for integration with NRB. This required that the system be flexible to allow the three processing trains to operate in either high or low pressure modes during the process integration and commissioning phases of the project.
- Management of the NRA safety system software during NR2 integration code development whilst brownfield changes from NR2 and other small projects were ongoing.

### + CURRENT STATUS

Control systems integration was completed whilst the NRA platform was operational and the NRB platform was being commissioned. "Overrides" are in place to prevent NRB commissioning activities affecting continued NRA operations and vice versa. These overrides will be removed as process systems become ready for integration.

### + OUTCOMES

The control systems integration shutdown was the most critical step in joining together the NRA and NRB platform's control and safety systems to prove integrated functionality. I&E System's work was completed in September 2012 on time and without any incidents. This was completed in September 2012, on time and without any incidents.

### + CONTACT US

For further information about Systems Upgrades & Replacements services please contact an I&E Systems Business Development Manager:

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