

# New Generation Rollingstock project

The New Generation Rollingstock (NGR) project will see a significant increase in the train fleet to meet the growing demand for rail services in south-east Queensland.



*Artist's impression of the Wulkuraka NGR maintenance centre.*

The Queensland Government has awarded the contract to purchase and maintain 75 new six-car train sets, and to construct and maintain the purpose-built maintenance centre, to Bombardier NGR Consortium (comprising Bombardier Transportation, John Laing, ITOCHU Corporation and Uberior).

The consortium is responsible for the delivery of the new trains and associated maintenance over the 32 year contract period.

The Department of Transport and Main Roads is delivering the project with Queensland Rail providing technical input and ensuring the new trains will integrate with the existing network.

The construction and operation of the maintenance centre will establish Ipswich as a world-class rail hub, creating business, employment, education and training opportunities.

## About the maintenance centre

Following an assessment of potential sites against civil, operational and environmental criteria, the site at 1 Ada Street, Wulkuraka was identified as the preferred location for the new maintenance centre.

The site, located adjacent to Wulkuraka Station, will be a maintenance centre, not a depot. This means that a state-of-the-art maintenance centre will be built to service, maintain and clean NGR trains only. The maintenance centre will not service diesel or other electric locomotives or wagons.

The maintenance centre will include buildings, supporting rail infrastructure, administration offices, car parking, and staff amenities.

Around 150 full-time maintenance staff will be employed at the centre during the operational period. It is anticipated that there will be no more than 100 operational staff on-site at any one time. The maintenance centre will have a 24 hour, 7 day a week operational capability, however it may not necessarily operate at these times.

Hours of operation will be determined by the Bombardier NGR Consortium.

A maintenance building will accommodate the majority of the repair and maintenance work and forms the integral component of the site. The maintenance building will be approximately 170 metres in length and generally rectangular in shape. It will hold six-car train sets for maintenance and testing with additional room for staff to access the train set at either end.

Supporting rail infrastructure will include overhead powerlines, signalling and a train cleaning facility. Administration offices will also be located on site along with crew amenities (toilet and shower facilities), car parking, roads and pedestrian walkways.

The maintenance centre will be fenced and lit for security and safety reasons.

## NGR maintenance centre

The maintenance centre at Wulkuraka will service, maintain and repair the new trains.

### Key components of the maintenance centre will include:

- maintenance building
- train cleaning and decant facility
- storage areas
- administration office with staff amenities (toilet and shower facilities)
- car parking, access roads and pedestrian walkways
- utility services (electricity, water and stormwater drainage)
- site track work, including holding roads for trains, hand-over roads and maintenance roads
- signalling and yard control
- overhead traction power for trains
- fencing, lighting and security
- landscaping
- temporary on-site office during construction.

## Project delivery

The Bombardier NGR Consortium has selected Laing O'Rourke as its design and construction subcontractor for the train maintenance centre.

## Delivery schedule

Preliminary survey, geotechnical testing works and environmental assessments were undertaken in late 2013. Further testing has been undertaken since then.

As part of site preparation works, temporary fencing will be erected to secure the site.

The construction phase will take place over a two-year period, from early 2014. The maintenance centre will be built in time for the first NGR train service expected in June 2016.

The Bombardier NGR Consortium will operate the centre during a 30-year operational phase.

## What to expect during the construction phase

Residents living in close proximity to the worksite may be impacted by general construction activity of the maintenance centre.

Construction is expected to start in February 2014 and will continue for two years. Works will take place from 6.30am to 6.30pm, Monday to Saturday.

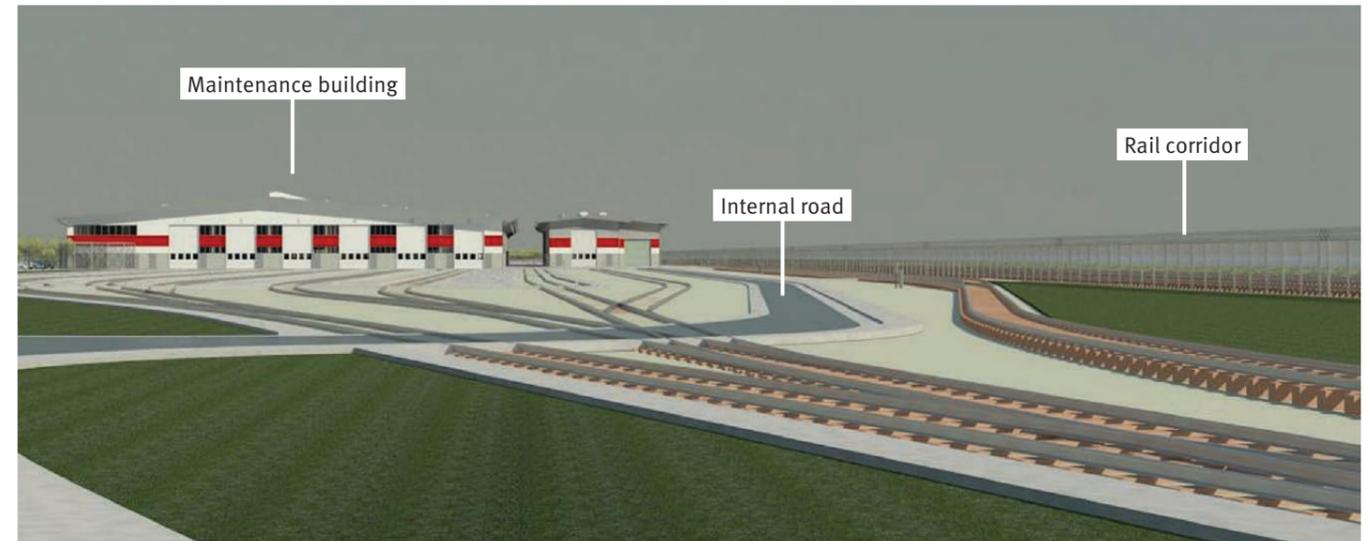
The following works are expected to take place after the site preparation is completed<sup>1</sup>:

### February 2014

- placement of temporary accommodation cabins to facilitate site set-up
- clearing of vegetation for permanent site accommodation and offices, and service connections.

### March 2014

- resurfacing of Dixon Street (West)
- closure of the Dixon Street (West) road, (off Toongarra Road) for site access during construction.



Artist's impression of approach to maintenance centre.

The main access route during construction will be Dixon Street (West), via Toongarra Road. This will be the primary access route for all trucks, delivery and service vehicles. Access via this route will remain in place until a new direct access road from Toongarra Road is built.

During construction, Transport and Main Roads will conduct roadworks to upgrade Dixon Street (East).

It is anticipated that traffic on surrounding local streets will not increase. Only minor traffic increases are expected on Toongarra Road and the Warrego Highway.

Traffic management plans will be in place when required to minimise the impact for residents travelling nearby the construction site.

## What to expect during the operational phase

Trains require regular service and maintenance, and daily cleaning. The maintenance centre will service, maintain and repair all NGR trains.

Once built, the site will have capacity to store up to 11, six-car train sets at any given time.

It is anticipated there will be no more than 100 operational staff on-site at the maintenance centre at any one time.

Typical activities that will be carried out at the maintenance centre include cleaning (internal and external), servicing, repairs and decanting. Residents may experience some noise due to crew and train movement.

Train crew employees will use Dixon Street (East) as the primary access to the centre. All other access to the facility will be via the new access road off Toongarra Road through Dixon Street (West).

## Managing the impacts

During the construction phase, Transport and Main Roads and the Bombardier NGR Consortium will continue to liaise with the community to manage impacts and provide updates.

Where practical, the project team will use on-site management techniques to minimise any construction impacts, particularly around visual amenity, environmental management and noise minimisation.

The team is committed to complying with local requirements for dust and noise mitigation. No night works will be undertaken during construction.

Bombardier NGR Consortium will be responsible for keeping local residents informed of any activity that may cause an impact when the maintenance centre is operating.

## Wulkuraka connection works

As part of operational readiness plans, Queensland Rail will be undertaking work adjacent to the maintenance centre worksite.

Queensland Rail will design and construct the connection works to provide NGR trains access to the Queensland Rail network from the new maintenance centre.

Two sections of rail from the existing mainline connection to the new maintenance centre will be constructed within the rail corridor, with associated rail systems and civil works. A new pedestrian footbridge will provide commuter access to Wulkuraka Station.

Queensland Rail will lay new tracks to the eastern and western sides of the maintenance centre and extend the overhead power and signals associated with this project.

The works are expected to begin in February 2014.

Most work will be conducted during normal working hours and completed in time to enable the new maintenance centre to operate.

To ensure an integrated approach to construction, the department will work closely with Queensland Rail to ensure works are aligned where possible to minimise any potential impacts.



Artist's impression of a new NGR train.

1. All planned activities are subject to weather, schedule changes and other variables.

## Protecting our environment

Transport and Main Roads is committed to protecting Queensland's natural environment by using effective environmental management techniques to improve its environmental performance.

To ensure clearing impacts are minimised, a Koala Action Plan will be in place and include specific measures to ensure the ongoing protection of the koala species.

Laing O'Rourke, as sub-contractor for the Bombardier NGR Consortium will undertake design and construction of the maintenance centre.

Laing O'Rourke is committed to minimising the risk of injury to any fauna that may be residing within the site.

A specialist ecological team, who are fully qualified and licensed to handle native fauna, will identify all possible fauna that may be present and the habitat in which they reside.

The ecological team will undertake pre-clearing surveys and will also be on-site when any tree clearing occurs. This process ensures that fauna present on-site are re-located prior to tree removal.

As part of its commitment to sustainable practices, Transport and Main Roads will also make a financial contribution to the Department of Environment and Heritage Protection to offset the loss of non-juvenile koala trees.

## Next steps

The project team is committed to managing the construction and operational impacts of the maintenance centre in a responsible manner.

The local community will continue to be informed about the design, construction and operation of the centre and will soon receive an introductory communication from the Bombardier NGR Consortium directly.

## Community information session

The department is hosting a community information session to provide local residents with an opportunity to meet and speak with a member of the project team.

### Details of the community information session are:

Date: Wednesday 26 February

Time: 3pm–7pm

Location: Leichhardt One Mile Community Centre  
1–7 Denman St  
Leichhardt

## More information

Further information on the project, including artist's impressions of the maintenance centre and a fly-through of the NGR trains is available on the project website [www.tmr.qld.gov.au/ngr](http://www.tmr.qld.gov.au/ngr)

Community enquiries can be directed to [ngr@tmr.qld.gov.au](mailto:ngr@tmr.qld.gov.au) or call **1800 478 238\*** during business hours.

\* Free call from anywhere within Australia. Check with your service provider for call costs.

## Project milestones

