

THE MORSE

Osborne Naval Shipyard Project Newsletter

JULY 2021

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There has been a flurry of activity at the Osborne Naval Shipyard (ONS) as expansion and modernisation projects are advanced, and the Collins Class sustainment, Hunter Class Frigate and Offshore Patrol Vessel (OPV) programs progress.

Prototyping activities are underway by BAE Systems Maritime Australia (BAE) in the new south yard, and BAE are sharing this activity through their social media channels. ANI's Operations Team moved the fore and aft sections of OPV2 to the dry dock last month for the Luerssen team to commence consolidation works, and OPV1 is advancing towards completion.

Our Operations Team have also been busy with the docking and undocking of several commercial vessels visiting the ONS for repairs and maintenance works. The ability to accommodate multiple commercial vessel dockings has been significantly enhanced now that the shipyard has moved from a

single rail-based vessel transfer system to the latest in self-propelled modular transporters (SPMTs).

Modernisation works in the existing south yard are also advancing with the repurposing of Building 2 from a block fabrication workshop into a pipe fabrication workshop nearing completion. Modernisation works will continue into 2022 with the upgrade of the former small blast and paint facility to support future shipyard operations.

Concrete pours for the main production halls in the new submarine yard at Osborne North have commenced, signalling the end of the longest period of piling at the ONS projects to date. ANI and its managing contractor, Laing O'Rourke (LOR), take this opportunity to thank our neighbours for their tolerance during this time – we understand the impacts these types of works can have on nearby residents and businesses, so we appreciate the continued support and patience of our local community.



The transformation of Building 2 into a pipe fabrication workshop is nearing completion

Expansion ANI Head Office



Artist's impression of ANI's new office facility

Since inception in mid-2017, ANI's team supporting the development and management of the ONS has steadily grown.

Currently located across several locations in Port Adelaide and around the shipyard, ANI commenced the construction of new premises in February 2021 to bring ANI personnel together in a central location within the shipyard precinct.

ANI worked with architects Hames Sharley to progress design of the new office through 2020 and in early 2021 awarded the construction contract to local company, Sarah Constructions (Sarah). Sarah have been building in South Australia for more than 60 years.

Mindful of the site's location adjacent the Port River, Sarah's team has implemented several environmental measures to protect

the sensitive environs surrounding the site. Some examples include:

- Consultation with local dolphin sanctuary authorities seeking advice on any potential construction impacts to the river with a view to minimising risk and protecting marine life.
- Erection of a floating boom in front of the work site for the duration of piling and initial retaining wall works to contain any oils and fuels in the event of an accidental spill.
- To mitigate risk of materials entering the water, catch screens have been installed as far as practicable. Silt traps, silt barriers and environmental controls are also in place and audited on a regular basis at runoff areas and outfalls to ensure their continued integrity.

Sheet piling works were undertaken as part of the project to create a short retaining wall along a portion of the river boundary. This activity was undertaken during low tides to limit vibration transfer through waters and ANI met with renowned dolphin expert, Dr Mike Bossley prior to works commencing to discuss potential impacts on marine life.

ANI subsequently funded a small pilot study by Dr Bossley and the Flinders University into the effects of sheet piling activities on dolphins. Preliminary findings suggest the works had no adverse effect on the dolphin community, with the number of dolphins moving through the area remaining unchanged during and after the works. Dr Bossley will publish his findings at a later date.

ANI will occupy the new office building from early 2022.

Modernisation Building 02 Pipe Workshop

The refurbishment and re-tasking of Building 2 of the existing south yard into a new pipe fabrication workshop is nearing completion.

ANI awarded a design and construction contract for these works to McMahon Services Australia in August 2020, following completion of an early contractor involvement planning and design phase. McMahon Services was established in Dry Creek in 1990 by David and Andrew McMahon and has grown into a successful national company with offices across Australia.

Reclad and reroofed where required, the new workshop now comprises three key production bays: Bay 1 – sheet metal, test and qualification; Bay 2 - module / unit construction; Bay 3 - pipe assembly.

Other changes to the existing building included the construction and installation of new features such as:

- an automated pipe rack storage tower

- a new production office support building
- amenities to support the pipe shop workforce
- installation of state-of-the-art equipment to enable advanced pipe spool manufacturing capability
- pipe cleaning bays, and
- several welding bays.

The building will be handed over to ANI following completion of final testing and commissioning of equipment, after which ANI will progress turnover activities with BAE, who are expected to take operational control later this year.

Works to dismantle and decommission a former smaller blast and paint facility has commenced and this will be followed by minor upgrade works.

A new amenities and lunchroom facility is also expected to start in the latter part of Q3 2021 to support these modernised facilities within the south yard.



Aboriginal Art at ONS

Keen to enhance the precinct and create spaces that support the health and wellbeing of workers whilst paying homage to the traditional custodians of the land on which the shipyard is built, ANI commissioned local Aboriginal artists and illustrators in 2020 to develop artwork to display around the precinct.

One piece, titled 'With; On; Within' by artist Elizabeth Close, is being installed extensively throughout the precinct in the form of safety strips and privacy panels on glazed doors and walls. This piece was developed to reflect the natural environment around the ONS historically and today, and the relationship that Aboriginal people have with the country and waterways more broadly.

It has also been installed on firewater storage tanks as part of the expansion of the south shipyard, and recently the artwork was installed on similar tanks in the existing south yard.

ANI is currently in discussions with artwork project managers Ochre Dawn, Elizabeth and their team to develop artwork for display in other areas of the precinct.

*Modernisation of Building 2
is nearing completion*



Osborne North Development Project



Phase 1 works to deliver the land-based test facilities for Lockheed Martin (LMA) and Naval Group Australia (NGA) continue to advance and the combined structures are now clearly visible on the Osborne landscape.

ANI and LOR remain on track to complete the first facility by the end of 2021 in readiness for tenancy by LMA in early 2022. Similarly, the test facility for NGA remains on track for completion in mid-2022.

Since early 2021, works on Phase 2 have focused on precast pile installation and the advancement of 'deep pit' excavations to support future steel fabrication equipment within the main production buildings. These 'deep pits' are almost 10m deep and have complex temporary propping

requirements to ensure safe access for workers as construction works advance.

Major concrete foundation pours for hull and structure workshops have also commenced and will continue through the remainder of 2021.

Comprising more than 18,000m³ of concrete with individual slab pours of up to 500m³, these slabs are designed to support heavy-load equipment such as presses, welding columns, bevelling, and plasma cutting machines. This equipment will be used in the manufacture of the Attack-Class submarines to be built by NGA.

Commencement of concrete pours is a significant milestone towards completion of the world-class naval submarine construction facility at the Osborne Naval Shipyard.

Construction Notifications

A reminder that some out-of-hours (between 4am-7am and/or 7pm-9pm) low-impact activities may be required from time-to-time.

Out-of-hours activities only occur if required and only low impact activities are undertaken during these times - eg, site setup and/or concrete pours, etc. Increases to ambient noise during such activities is not expected.

Piling is NOT undertaken out-of-hours on the Osborne North Development Project.

All works are undertaken in line with the Council-approved Out-of-hours Management Plan, and an exemption for these activities has also been received through the CPAE. Control measures including the use of noise efficient equipment, reduced truck speeds, and noise monitoring are implemented during such times.

Should you have any queries or feedback in relation to these activities, please contact the ONDP Community Feedback line on **1800 943 022**

ONDP Phases 1 and 2



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