

# STAKEHOLDER CONSULTATION FOR THE STAR MODIFICATION 14

| Stakeholders                                        | Actions                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|-----------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Community Consultation                              | <p>Engagement activities with neighbours, local community groups, local residents, workers, business owners, staff and stakeholders included:</p> <ul style="list-style-type: none"> <li>▪ Distribution of a Community Update about the proposed upgrades through a letter box drop to neighbours.</li> <li>▪ Information for local community groups and key stakeholders via email.</li> <li>▪ Availability of a contact phone number: 1800 798 646 between 9am and 5pm Monday to Friday (AEST) to take queries about the proposal.</li> <li>▪ Availability of a project email address: <a href="mailto:development@star.com.au">development@star.com.au</a> for enquiries about The Star's development plans.</li> </ul>                                                                                                                                                                                         |
| Department of Planning and Environment (Department) | <p>Engagement with the Department has occurred, as outlined below:</p> <ul style="list-style-type: none"> <li>▪ Initial meeting with the Department on 9 May 2016 to discuss Modification 14.</li> <li>▪ Site visit on 20 May 2016.</li> <li>▪ Letter of Intent with indicative concept plans addressed to Mr Ben Lusher, Director – Key Sites Assessment outlined the proposed components of Modification 14 and requested that Modification 14 be lodged without the requirement for further Environmental Assessment Requirements dated 31 May 2016.</li> <li>▪ Letter from the Department to confirm Modification 14 is generally consistent with the SEARs issued for Modification 13 dated 7 June 2016.</li> <li>▪ Site visit with Jeff Parnell from the Department, Urbis and Acoustic Engineers from WSP / Parsons Brinckerhoff on 31 August 2016 to discuss potential acoustic implications of</li> </ul> |

| Stakeholders                                                                       | Actions                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                    | <p>Modification 14.</p> <ul style="list-style-type: none"> <li>Meeting with the Department and Urbis on 2 September 2016 to discuss the consolidation of all City of Sydney consents since the approval of MP08_0098.</li> </ul>                                                                                                                                                                                                                                                                                                                              |
| City of Sydney Council                                                             | <p>Engagement with the City of Sydney has occurred, as outlined below:</p> <ul style="list-style-type: none"> <li>Initial meeting with the City of Sydney to discuss the works included in Modification 14 and the larger masterplan for the site.</li> <li>Site visit to the SELS building with John Poulton, Heritage Officer with the City of Sydney, and Urbis on 24 August 2016.</li> <li>E-mail correspondence with John Poulton to discuss proposed works to the SELS building and proposed works within the vicinity of the SELS building.</li> </ul> |
| Sydney Water                                                                       | <p>An application has been made to Sydney Water for increased water supply and sewer discharge capacity. Sydney Water has responded noting that the existing infrastructure appears adequate for the proposed development.</p>                                                                                                                                                                                                                                                                                                                                |
| Ausgrid                                                                            | <p>Ausgrid have advised that their existing high voltage network has capacity to support 14.4MW.</p> <p>The proposal to support the additional site load is to install on site gas powered electrical generation to avoid increasing the load on the Ausgrid network. The proposed additional generation will run in parallel with the Ausgrid network and replace some of the existing on site diesel generators.</p>                                                                                                                                        |
| Local heritage group/s and Local Aboriginal Land Council and relevant stakeholders | <p>As part of the ongoing consultation process, a Notice of Aboriginal Archaeological Consultation was published in Koori Mail, which is available throughout Australia, on 29 June 2016.</p> <p>Letters were also sent to relevant organisations as identified in the Aboriginal Cultural Heritage Consultation Requirements for Proponents 2010, on 22 June 2016. Their responses are documented below:</p> <ul style="list-style-type: none"> <li>Office to the Registrar, Aboriginal Land Right Act 1983 have searched the Register of</li> </ul>         |

| Stakeholders                                   | Actions                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                | <p>Aboriginal Owners and the site does not appear to have Registered Aboriginal Owners pursuant to Division 3 of the Aboriginal Land Rights Act 1983 (NSW).</p> <ul style="list-style-type: none"> <li>The National Native Title Tribunal search of Schedule of Application, Register of Native Title Claims, National Native Title register, Register of Indigenous Land Use Agreement and Notified Indigenous Land Use Agreements reveals that at the time of the search there were no relevant entries.</li> </ul> |
| Independent Liquor and Gaming Authority (ILGA) | SEGL presented the works associated with Modification 14 and the larger masterplan works for the site to ILGA on 6 July 2016.                                                                                                                                                                                                                                                                                                                                                                                         |
| Environmental Protection Agency (EPA)          | The proposal does not constitute a Scheduled Activity under Schedule 1 of the <i>Protection of the Environmental Operations Act 1997</i> . Consultation with the EPA was conducted in relation to the proposed upgrades to the existing Harbour Heat Rejection System. The EPA advised that the proposal will not require an Environmental Protection Licence (EPL) under the Act. The EPA will comment on the proposal on receipt of referral from the Department.                                                   |
| Department of Primary Industries - Water       | WSP / Parsons Brinckerhoff engaged in e-mail correspondence with the Department of Primary Industries - Water on 25 July 2016. This correspondence confirms that the DPI water does not see any particular role or interest for their agency in the harbour exchange process generally.                                                                                                                                                                                                                               |
| Water NSW                                      | WSP / Parsons Brinckerhoff engaged in e-mail correspondence with Water NSW on 25 July 2016. This correspondence confirms that the advice received from DPI Water is correct.                                                                                                                                                                                                                                                                                                                                          |
| Fire and Rescue NSW                            | Site visit with Fire and Rescue NSW and WSP / Parsons Brinckerhoff occurred on 21 April 2016.                                                                                                                                                                                                                                                                                                                                                                                                                         |



# COMMUNITY CONSULTATION

The Star Entertainment Group intends to lodge a development application known as 'Modification 14' with the Department of Planning and Environment in order to proceed with the approval process for proposed upgrades at The Star Sydney.

The Star is required to operate the integrated resort to a first class international standard and the proposed works will contribute to enhancing the attractiveness and functioning of the integrated resort while, importantly, maintaining The Star's reputation as an international destination.

The Star is in the process of lodging the planning application for the proposed upgrades.

The Department will place the proposal, along with a range of supporting documents and reports, on exhibition for public comment before reviewing and determining the application.

STAR.COM.AU

80 PYRMONT STREET, PYRMONT

THE STAR

*between 9am and 5pm Monday to Friday (AEST).*

phone us on | 1800 798 646

email us | [development@star.com.au](mailto:development@star.com.au)

If you have any questions or queries about our proposal please either:

WOULD YOU LIKE TO KNOW MORE?



TO OUR NEIGHBOURS

# WHAT'S PLANNED?

Below is a detailed list of works associated with Modification 14:



## Basement Level Infrastructure Upgrades

As part of The Star's sustainability objectives upgrades will be undertaken to existing generator, harbour heat rejection system, natural gas pipes, pump and pipes, domestic cold water system and additional sewer connections.



## Astral Luxury Retail Zone

A new luxury retail shopping corridor is to be developed, connecting the existing Astral Hotel Lobby to Jones Bay Road. This will ensure expanded shopping opportunities for visitors thus enhancing the overall experience for The Star's guests.



## Main Gaming Floor Expansion

To provide an improved experience for The Star's guests the Main Gaming Floor will be expanded over the existing main entry foyer facing Pirrama Road. This will involve internal works only.



## Porte-Cochere and Astral Hotel Lobby Upgrade (Pyrmont Street side)

To ensure that international and domestic visitors enjoy an attractive and friendly arrival experience improvements are planned to the main Porte-Cochere off Jones Bay Road to accommodate an upgraded Astral Hotel Lobby, new hotel Lobby Bar, and expansion and upgrades into the Main Casino entry at ground level, including valet improvements to the Porte Cochere. Retail display light boxes are to replace existing windows along eastern building façade within the Porte-Cochere.



## SELS Heritage Building Office Improvements

To ensure an efficient use of space the existing SELS building toilets at the southern end of the building will be converted to a new valet and car park manager's office. Internal alterations are also proposed to the existing retail tenancy. External lighting is to be added to the SELS building along Pyrmont Street to highlight and celebrate the heritage elements of the building. The SELS Building was originally part of the the power station built by the Electric Lighting Department of the Municipal Council of Sydney, and began operations in 1904 as the Sydney Electric Lighting Station.



## Sovereign VIP Gaming Expansion

To provide an improved level of experience for The Star's VIP guests the eastern side of the existing Sovereign VIP Gaming Room on Level 3 will be expanded to include new food and beverage locations, new VIP gaming and unenclosed gaming areas.



## Back of House Upgrades

An efficient back of house operation contributes to the total customer experience as well as providing better facilities for staff and so internal upgrades and improvements are planned for this important heart of The Star's operations.



## New Escalators

New escalators are to be installed at the existing G-Star Raw retail shop in the retail/food arcade to provide access to the Main Gaming Floor. Works also include a new bar adjacent to escalators on the Main Gaming Floor level. This will make it easier for guests to move in and around the property. A new escalator lobby is also to be built to provide better access between the ground floor and Level 5 of the complex.



## Event Centre Pre-function Space

A new pre-function lobby space adjacent to The Star Event Centre is to be constructed to provide more space for functions in The Event Centre.



SYDNEY WATER

Case Number: 151098

3 March 2016

Paul Jacobsen  
c/- MGP BUILDING & INFRASTRUCTURE SERVICES PTY LTD

### FEASIBILITY LETTER

**Developer:** Paul Jacobsen  
**Your reference:** SY073856.s73  
**Development:** No. 80 SP 56913 Pyrmont Street, Pyrmont  
**Development Description:** Proposed upgrade to The Star. The new building features, gaming areas, dining, retail, serviced apartment/hotel. Please note that this includes 2 new proposed hotels/serviced apartment towers.  
**Your application date:** 5 February 2016

Dear Applicant

This Feasibility Letter (Letter) is a guide only. It provides general information about what Sydney Water's requirements could be if you applied to us for a Section 73 Certificate (Certificate) for your proposed development. **The information is accurate at today's date only.**

If you obtain development consent for that development from your consent authority (this is usually your local Council) they will require you to apply to us for a Section 73 Certificate. You will need to submit a new application (and pay another application fee) to us for that Certificate by using your current or another Water Servicing Coordinator (Coordinator).

Sydney Water will then send you either a:

- Notice of Requirements (Notice) and Developer Works Deed (Deed) or
- Certificate.

These documents will be the definitive statement of Sydney Water's requirements.

There may be changes in Sydney Water's requirements between the issue dates of this Letter and the Notice or Certificate. The changes may be:

- if you change your proposed development eg the development description or the plan/ site layout, after today, the requirements in this Letter could change when you submit

your new application; and

- if you decide to do your development in stages then you must submit a new application (and pay another application fee) for each stage.

### **Water**

The following information is provided to assist in planning the servicing needs of the development, based on information supplied with this application:

- A Preliminary Water servicing investigation was based on a supply being sourced from either the 150mm main in Pyrmont Road, the 200mm main in Edward St, and the 250mm main in Pirrama Road. Based on the Building Heights the proposed development will require a connection to either the 200 or 250mm main.

### **Sewer**

- A preliminary study shows that the wastewater gravity system has uncommitted spare capacity for the anticipated additional sewage load. The downstream pumping station has capacity but the dry weather storage is limited.

### **General Advice**

- A more detailed investigation is required with the final development details and the analysis can be performed when the Section 73 application is lodged. The developer needs to engage a Hydraulic Consultant to study full impacts to our existing water and sewer system and any augmentation required.
- More information about the Section 73 application process is available on our web page in the [Land Development Manual](#).
- As part of the Section 73 Application, you will need to get approval for your building plans and you will need to ensure your development satisfies Sydney Water's 'Multi-Level Individual Metering' requirements. In this regard, you must comply at all times and in respects with the requirements of Sydney Water's "Multi-level Individual Metering Guide".

### **OTHER THINGS YOU MAY NEED TO DO**

Shown below are other things you need to do that are NOT a requirement for the Certificate. They may well be a requirement of Sydney Water in the future because of the impact of your development on our assets. You must read them before you go any further.

#### **Disused Sewerage Service Sealing**

Please do not forget that you must pay to disconnect all disused private sewerage services and

seal them at the point of connection to a Sydney Water sewer main. This work must meet Sydney Water's standards in the Plumbing Code of Australia (the Code) and be done by a licensed drainer. The licensed drainer must arrange for an inspection of the work by a NSW Fair Trading Plumbing Inspection Assurance Services (PIAS) officer. After that officer has looked at the work, the drainer can issue the Certificate of Compliance. The Code requires this.

### **Soffit Requirements**

Please be aware that floor levels must be able to meet Sydney Water's soffit requirements for property connection and drainage.

### **Requirements for Business Customers for Commercial and Industrial Property Developments**

If this property is to be developed for Industrial or Commercial operations, it may need to meet the following requirements:

#### **Trade Wastewater Requirements**

If this development is going to generate trade wastewater, the property owner must submit an application requesting permission to discharge trade wastewater to Sydney Water's sewerage system. You must wait for approval of this permit before any business activities can commence.

The permit application should be emailed to Sydney Water's Business Customer Services at [businesscustomers@sydneywater.com.au](mailto:businesscustomers@sydneywater.com.au)

It is illegal to discharge Trade Wastewater into the Sydney Water sewerage system without permission.

A **Boundary Trap** is required for all developments that discharge trade wastewater where arrestors and special units are installed for trade wastewater pre-treatment.

If the property development is for Industrial operations, the wastewater may discharge into a sewerage area that is subject to wastewater reuse. Find out from Business Customer Services if this is applicable to your development.

#### **Backflow Prevention Requirements**

Backflow is when there is unintentional flow of water in the wrong direction from a potentially polluted source into the drinking water supply.

All properties connected to Sydney Water's supply must install a testable **Backflow Prevention Containment Device** appropriate to the property's hazard rating. Property with a high or medium hazard rating must have the backflow prevention containment device tested annually. Properties identified as having a low hazard rating must install a non-testable device, as a minimum.

Separate hydrant and sprinkler fire services on non-residential properties, require the installation of a testable double check detector assembly. The device is to be located at the boundary of the

property.

Before you install a backflow prevention device:

1. Get your hydraulic consultant or plumber to check the available water pressure versus the property's required pressure and flow requirements.
2. Conduct a site assessment to confirm the hazard rating of the property and its services. Contact PIAS at NSW Fair Trading on **1300 889 099**.

For installation you will need to engage a licensed plumber with backflow accreditation who can be found on the Sydney Water website:

<http://www.sydneywater.com.au/Plumbing/BackflowPrevention/>

## Water Efficiency Recommendations

Water is our most precious resource and every customer can play a role in its conservation. By working together with Sydney Water, business customers are able to reduce their water consumption. This will help your business save money, improve productivity and protect the environment.

Some water efficiency measures that can be easily implemented in your business are:

- Install water efficiency fixtures to help increase your water efficiency, refer to WELS (Water Efficiency Labelling and Standards (WELS) Scheme, <http://www.waterrating.gov.au/>
- Consider installing rainwater tanks to capture rainwater runoff, and reusing it, where cost effective. Refer to <http://www.sydneywater.com.au/Water4Life/InYourBusiness/RWTCalculator.cfm>
- Install water-monitoring devices on your meter to identify water usage patterns and leaks.
- Develop a water efficiency plan for your business.

It is cheaper to install water efficiency appliances while you are developing than retrofitting them later.

## Contingency Plan Recommendations

Under Sydney Water's [customer contract](#) Sydney Water aims to provide Business Customers with a continuous supply of clean water at a minimum pressure of 15meters head at the main tap. This is equivalent to 146.8kpa or 21.29psi to meet reasonable business usage needs.

Sometimes Sydney Water may need to interrupt, postpone or limit the supply of water services to your property for maintenance or other reasons. These interruptions can be planned or unplanned.

Water supply is critical to some businesses and Sydney Water will treat vulnerable customers, such as hospitals, as a high priority.

Have you thought about a **contingency plan** for your business? Your Business Customer Representative will help you to develop a plan that is tailored to your business and minimises productivity losses in the event of a water service disruption.

For further information please visit the Sydney Water website at: <http://www.sydneywater.com.au/OurSystemsandOperations/TradeWaste/> or contact Business Customer Services on **1300 985 227** or [businesscustomers@sydneywater.com.au](mailto:businesscustomers@sydneywater.com.au)

## **Fire-fighting**

Definition of fire-fighting systems is the responsibility of the developer and is not part of the Section 73 process. It is recommended that a consultant should advise the developer regarding the fire-fighting flow of the development and the ability of Sydney Water's system to provide that flow in an emergency. Sydney Water's Operating Licence directs that Sydney Water's mains are only required to provide domestic supply at a minimum pressure of 15 m head.

A report supplying modelled pressures called the Statement of Available pressure can be purchased through Sydney Water Tap in<sup>TM</sup> and may be of some assistance when defining the fire-fighting system. The Statement of Available pressure, may advise flow limits that relate to system capacity or diameter of the main and pressure limits according to pressure management initiatives. If mains are required for fire-fighting purposes, the mains shall be arranged through the water main extension process and not the Section 73 process.

## **Private Water Services Connection and Metering**

To provide domestic water to the total development you will need to connect to the Sydney Water main. You must lodge an application for this connection at Sydney Water Tap in<sup>TM</sup>. We will then tell you about any requirements you need to meet. Visit [www.sydneywater.com.au](http://www.sydneywater.com.au) > Plumbing, building & developing > Building > Sydney Water Tap in<sup>TM</sup> to find out more.

Visit [www.sydneywater.com.au](http://www.sydneywater.com.au) > Plumbing, building & developing > Plumbing > Meters & metered standpipes to find out more about our metering requirements for your development.

## **Disused Water Service Sealing**

You must pay to disconnect all disused private water services and seal them at the point of connection to a Sydney Water water main. This work must meet Sydney Water's standards in the Plumbing Code of Australia (the Code) and be done by a licensed plumber. The licensed plumber must arrange for an inspection of the work by a NSW Fair Trading Plumbing Inspection Assurance Services (PIAS) officer. After that officer has looked at the work, the drainer can issue the Certificate of Compliance. The Code requires this.

## **Other fees and requirements**

The requirements in this Notice relate to your Certificate application only. Sydney Water may be involved with other aspects of your development and there may be other fees or requirements. These include:

- plumbing and drainage inspection costs;
- the installation of backflow prevention devices;
- trade waste requirements;
- large water connections and

- council fire-fighting requirements. (It will help you to know what the fire-fighting requirements are for your development as soon as possible. Your hydraulic consultant can help you here.)

**No warranties or assurances can be given about the suitability of this document or any of its provisions for any specific transaction. It does not constitute an approval from Sydney Water and to the extent that it is able, Sydney Water limits its liability to the reissue of this Letter or the return of your application fee. You should rely on your own independent professional advice.**

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**END**



AUSGRID



Address all relevant correspondence to:

Ausgrid Contestability Section  
Level 1, Building 4, 130 Joynton Avenue  
Zetland NSW 2017

E: [Contestability@ausgrid.com.au](mailto:Contestability@ausgrid.com.au)  
F: 02 96639499

24/05/2016

Mr Mark Greig  
Po Box 103  
St Leonards 1590

Email: [mark.greig@umowlai.com.au](mailto:mark.greig@umowlai.com.au)

Reference Number: 700002683

Dear Mark

**Preliminary Enquiry:** The Star Casino - 80 Pyrmont Street, Pyrmont

I refer to your preliminary enquiry received by the Contestability group on 22.02.2016 regarding the electricity connection at the above address and provide the following information.

- ☐ The Ausgrid network does not have the capacity to connect the proposed 5500A per each of the existing six substations.
- ☐ An electricity connection to the property requires an extension/augmentation of the Ausgrid network. This work is Contestable and requires the customer to engage accredited service providers to undertake the design and construction of the required works. Information on how to connect to the Ausgrid network can be found on our website at the following link: <http://www.ausgrid.com.au/Common/Customer-Services/Business-and-commercial/Connecting-to-the-network/How-do-I-connect-to-the-network.aspx#>
- ☐ Refer to the attached preliminary enquiry response for more detailed information on the options available.
- ☐ Ausgrid is unable to provide costs or timeframes for Contestable works. However, accredited service providers may be able to provide the information.
- ☐ The electrical connection will require Ausgrid to provide auxiliary services that only Ausgrid can provide. The auxiliary services and the associated fee are detailed in the Ausgrid document **Connection Policy – Connection Charges**. The document is available on our website at the following link: <http://www.ausgrid.com.au/Common/Customer-Services/Business-and-commercial/Connecting-to-the-network/Charges-for-Customer-Connection-Services.aspx#>
- ☐ To proceed further in obtaining an electrical connection to the property a Connection Application will need to be submitted. The various application forms are available on our website at the following link: <http://www.ausgrid.com.au/Common/Customer-Services/Business-and-commercial/Connecting-to-the-network/How-do-I-connect-to-the-network/Connection-application-forms-and-guides.aspx#>

It should be noted that the above advise is based on Ausgrid's policies and network status as of today and are subject to change.

Connections to the Ausgrid network are governed by a set of laws and rules referred to as the National Energy Customer Framework (NECF). Included in the NECF is the National Electricity Rules (NER). Under these rules, a binding contract may only be formed after a connection application is lodged and Ausgrid has made a connection offer in response to that application. Accordingly, to make arrangements for the electricity connection of the development to the Ausgrid network you should lodge a completed connection application.

Should you require any further information please contact me.

Yours sincerely,



Jeffrey Crough  
Contestability Project Coordinator  
Ausgrid

Direct Telephone Number: (02) 9663 9221  
Email: [jcrough@ausgrid.com.au](mailto:jcrough@ausgrid.com.au)  
Facsimile: 02 96639499

## ASSUMPTIONS

The Star Casino is looking to increase the loading on all 6 existing substations to 5500A (low voltage). They are also looking at the possibility of establishing a 7<sup>th</sup> substation.

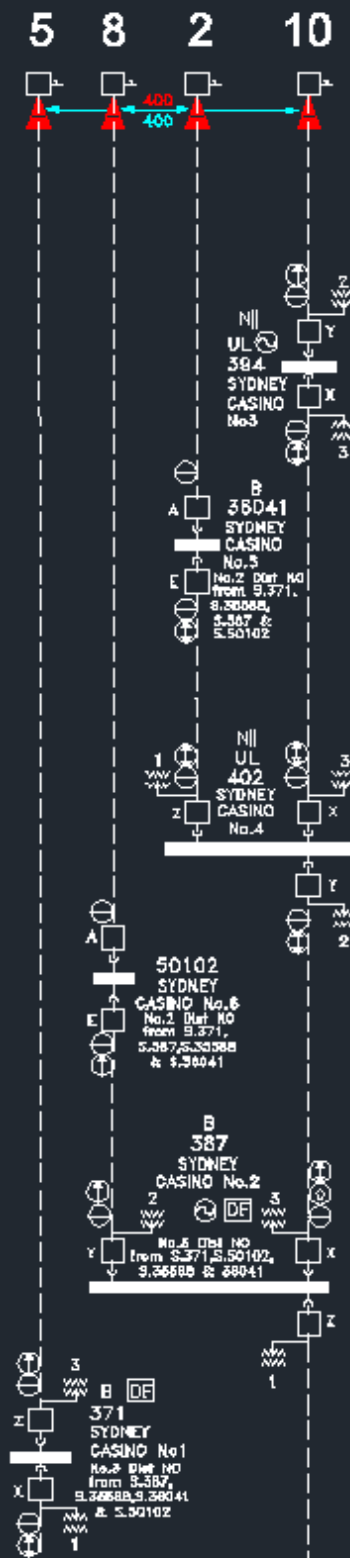
## EXISTING SITE SUBSTATIONS AND RATINGS

| Substation Number | Substation Name     | Substation Type                  | Transformers | Existing Firm Rating*            |
|-------------------|---------------------|----------------------------------|--------------|----------------------------------|
| S.371             | Sydney Casino No. 1 | Basement – Asset Access Required | 3 x 1500kVA  | 5104A                            |
| S.387             | Sydney Casino No. 2 | Basement – Asset Access Required | 3 x 1500kVA  | 5104A                            |
| S.394             | Sydney Casino No. 3 | Upper Level                      | 3 x 1500kVA  | 4714A (winter)<br>4514A (summer) |
| S.402             | Sydney Casino No. 4 | Upper Level                      | 3 x 1500kVA  | 4714A (winter)<br>4514A (summer) |
| S.36041           | Sydney Casino No. 5 | Basement                         | 3 x 1500kVA  | 4597A                            |
| S.50102           | Sydney Casino No. 6 | Elevated                         | 3 x 1500kVA  | 4586A                            |

\*Substations No.3, No.4 and No.6 are currently limited by their dry type transformers while the other 4 substations are currently limited by the summated overcurrent relay protection scheme

## SYSTEM DIAGRAM EXTRACT

The existing Darling Harbour Pa 2-5-8-10 feeder ring network currently supplies the six substations at the casino. An extract of which can be seen on the next page.



## DARLING HARBOUR ZONE No.88

## AUSGRID NETWORK LIMITATIONS

While there are a few options to increase the rating of some of the individual distribution substations the limitations of the request supply increase are not limited to the low voltage network as there are additional limitations further upstream at both 11kV and 33kV.

Based on the existing maximum *peak* readings - (note that this is not the maximum rating of the substations) for substations No. 1 to No. 5 and assuming maximum rating for substation No. 6 - there are no expected constraints under normal operating conditions. However, under N-1 conditions the following is expected under a worst case scenario:

- The Darling Harbour Pa 2 feeder is expected to be overloaded under N-1 conditions (up to about 106% above feeder thermal capacity under the worst case scenario).
- The Darling Harbour Pa 10 feeder is expected to be overloaded under N-1 conditions (up to about 130% above feeder thermal capacity under the worst case scenario).

This means that the existing Darling Harbour Pa 2-5-8-10 (11kV) feeder ring network is not adequate to cater for any additional load let alone the additional load the customer is after.

Furthermore the 11kV limitation is not only on the existing Darling Harbour Pa 2-5-8-10 feeder ring. Due to ongoing Ausgrid works there is no additional capacity remaining in Darling Harbour Zone Substation. As a result supplying the proposed additional load to The Star Casino may require the installation of an additional 33kV/11kV transformer and 33kV feeder at Camperdown and would also require load transfers between Darling Harbour and Camperdown Zone Substations – major network augmentation.

As the proposed total load is greater than 10MVA there is also an option to investigate supplying the The Star Casino at 11kV or at 33kV.

All options requiring augmentations to the zone substations or the sub-transmission networks require an Investigation of Needs (ION) report to be carried out which can be initiated via contacting Ausgrid's Major Connections. This is an in depth report that will determine the point of common coupling and the scope of works. Note that there are fees associated with this and the report can take up to 6 months.

## OPTIONS TO INCREASE THE RATINGS OF THE EXISTING DISTRIBUTION SUBSTATIONS

Assuming that The Star Casino contacts Ausgrid's Major Connections and initiate a project to augment the sub-transmission (33kV) and high voltage (11kV) networks there is further work that would be required to increase the rating out of the existing distribution substations (415V).

Optical arc fault detection (OAFD) has been developed and shown that it delivers a significant improvement in detection and clearing time for arcing faults. Simply put, it means that the full rating of the substation can be achieved with OAFD as it replaces the summated overcurrent relay protection scheme.

All new multi transformer suburban chamber substations are installed with OAFD as per NS114. This is important to note as if it is decided to build a 7<sup>th</sup> substation on site it will be constructed with OAFD protection.

Ausgrid has carried out a few projects on brown filled sites to convert the existing substations from summated overcurrent relay protection to OAFD and in many substations it can be carried out. Initial site visits to the 6 on site substations imply that it can be carried out but this will have to be confirmed through additional scoping and site specific design plans that will have to be developed.

| Substation Number | Substation Name     | Existing Rating                 | Potential OAFD Firm Rating*                                |
|-------------------|---------------------|---------------------------------|------------------------------------------------------------|
| S.371             | Sydney Casino No. 1 | 5104A                           | 5860A                                                      |
| S.387             | Sydney Casino No. 2 | 5104A                           | 5860A                                                      |
| S.394             | Sydney Casino No. 3 | 4714A (winter) / 4514A (summer) | 4714A (winter) / 4514A (summer) – NO INCREASE <sup>1</sup> |
| S.402             | Sydney Casino No. 4 | 4714A (winter) / 4514A (summer) | 4714A (winter) / 4514A (summer) – NO INCREASE <sup>1</sup> |
| S.36041           | Sydney Casino No. 5 | 4597A                           | 5285A                                                      |
| S.50102           | Sydney Casino No. 6 | 4586A                           | 4586A <sup>2</sup>                                         |

\*Potential OAFD rating subject to more thorough investigation and confirmation of suitability of OAFD

<sup>1</sup> No increase in rating due to dry-type transformer limitations. Due to space requirements these two substations cannot be upgraded.

<sup>2</sup> Substation No.6 could possibly get up to 5600A rating if the substation was converted to OAFD and to a non-firm rating. Additional works would be required to achieve this. Due to the enclosed LV board this option has not been fully investigated as it may require an outage to do. Also note that it would impact on the reliability of the HV feeders.

Timing and costs:

Conversion to OAFD would be carried out under the Contestable process and all works would be required to be funded by the customer.

After the completion of a certified design, to carry out these works would require the substation to be cut away from the network for approximately 2.5 to 3 weeks during construction. This would be dependent on the company engaged to carry out the works and the availability of Ausgrid's personnel for commissioning checks.

Note that this timeframe should only be taken as indicative as the required scope of works may result in additional works inside the substations for this project. Furthermore, this timeframe does not consider any unexpected events, such as a substation recall, or job cancellation on customer's request, or network fault that may call away Ausgrid personnel.

The customer would also be responsible for providing electrical supply to their premises at their own cost during all outages.

Reduced reliability:

Refer to the system diagram extract to assist in determining the extent of removing a substation from the network while works are carried out.

In addition to loss of supply from the substation being worked on the configuration of the interconnected HV feeders supplying the casino would be broken, impacting on the HV network's ability to back feed substations in the event of cable or equipment failure.

Furthermore the current set up of the feeders and substations means that to isolate one substation may require disconnecting one transformer from another substation for the duration. For example, to work on substation S.387 would require isolating it from the network which would involve the loss of transformer #1 from S.371 and of transformer #2 from S.402. This would not impact on the rating of substations S.371 & S.402 due to the firm rating as the "minus 1" from the N-1 reliability would be the one HV switch and transformer removed from service during the outage. It should be noted that any additional equipment failure during the outage period would affect supply.

### **POSSIBLE ESTABLISHMENT OF NEW SUBSTATION**

As discussed above this proposed new substation would require OAFD to be installed however the proposed location of the potential 7<sup>th</sup> substation would result in approximately the same rating as substation S.50102 Sydney Casino No. 6 due to the requirement of dry type transformers. Again, the installation of this as a non-firm rated substation would increase its potential rating.

### **ESTABLISHMENT OF CO-GENERATION, SOLAR INSTALLATION & PEAK LOPPING**

To initiate these discussions please contact Ausgrid's Major Connections. The burden of proof will be on the customer to prove that all proposed equipment is capable of handling / limiting prospective fault currents, etc. Contact details below.

### **STAGING OF SHUTDOWNS & UPGRADING OF SPDs**

Malcolm Pickford is the Ausgrid contact who arranges customer outages so they can perform work on their installations. Malcolm can be contacted via email: [mpickford@ausgrid.com.au](mailto:mpickford@ausgrid.com.au)

### **WHAT TO DO NOW**

After discussing options with your client, if they decided to proceed with the embedded generation and/or sub-transmission and high voltage network augmentation, please contact John Duck – Senior Engineer Major Connections South via email [majorconnections@ausgrid.com.au](mailto:majorconnections@ausgrid.com.au). Please reference this preliminary enquiry number – 700002683.



## LOCAL HERITAGE GROUP/S AND LOCAL ABORIGINAL LAND COUNCIL AND RELEVANT STAKEHOLDERS

8 August 2016

Karyn Virgin  
Urbis Heritage  
Level 23, Tower 2 Darling Park  
201 Sussex Street  
SYDNEY NSW 2000

Dear Karyn

**Re: Request - Search for Registered Aboriginal Owners**

I refer to your letter dated 21 June 2016 regarding Aboriginal Cultural Heritage Assessment within Pyrmont area NSW.

I have searched the Register of Aboriginal Owners and the project area described *does not appear* to have Registered Aboriginal Owners pursuant to Division 3 of the *Aboriginal Land Rights Act 1983 (NSW)*.

I suggest that you contact the Metropolitan Local Aboriginal Land Council on (02) 8394 9666. They will be able to assist you in identifying other Aboriginal stakeholders for this project.

Yours sincerely



Tabatha Dantoine  
**Directorate Support Officer**  
Office of the Registrar, *Aboriginal Land Rights Act 1983*

## Indigenous Conference Services

### Invitation to Attend

**Global Indigenous Men's Conference**

Adelaide, SA, 12th-14th September

**International Indigenous Women's Conference**

Adelaide, SA, 12th-14th September

**Global Indigenous Family & Domestic Violence**

Adelaide, SA, 14th-17th September

**National Indigenous Health Conference**

Cairns, QLD, 1st-3rd December

**World indigenous Allied Health Conference**

Cairns, QLD, 1st-3rd December

**Register now as seats are in high demand**

Indigenous Conferences Services (Australia)

Web: indigenousconferences.com / Email:

adminics@inet.net.au / Phone: 07 4194 2803

GML Heritage on behalf of the Office of Environment and Heritage (OEH) are currently preparing a Cultural Heritage Assessment of the Calga Women's Site.

GML invite local Aboriginal women who hold cultural knowledge relevant to determining the significance of the Calga Women's Site to register an interest in community consultation. The aim of consultation is to identify the social, spiritual and cultural significance of the site.

To register you are requested to provide a brief description of your cultural connection with the site, evidence of the community's trust and your authority to speak about the site.

All registrations should be received by GML no later than the 13 July 2016. Written registration should be marked 'Calga Women's Site - Confidential' and sent to:

Erin Mein, GML Heritage, Level 6, 372 Elizabeth Street Surry Hills NSW 2010.

Alternatively registration can be made by email [erinm@gml.com.au](mailto:erinm@gml.com.au)

Please note this project does not relate to work associated with an Aboriginal Heritage Impact Permit (AHIP) under Part 6 of the National Parks and Wildlife Act 1974.



### AbSec Aboriginal Colouring and Art Competition

**AbSec is running 2 competitions giving you the chance to win some great prizes!!**

**Aboriginal Colouring Competition ages 4 to 12 years-**  
First Prize Apple Ipad touch

**Aboriginal Art Competition age 13 to 18 years-**  
First Prize Apple Ipad mini

Entry is open to all Aboriginal Children or Young People. One entry per child only. 5 finalists from each competition will be selected with the winners announced on National Aboriginal & Torres Strait Islander Children's Day (4 August).

**Entries close 5pm Friday 29 July 2016.**

**For full details, terms and conditions go to our website [www.absec.org.au](http://www.absec.org.au)**

### Notice of Aboriginal Consultation The Star, Pyrmont, Sydney

An Aboriginal Archaeological Assessment is proposed for an area in Pyrmont, Sydney, for proposed works associated with The Star. Aboriginal people who hold cultural knowledge and wish to be consulted for this assessment are invited to register an expression of interest by 15th July 2016 by phone (02 8233 7604) e-mail ([kvirgin@urbis.com.au](mailto:kvirgin@urbis.com.au)) or by post (attn: Karyn Virgin, Urbis Heritage, Lvl 23, Darling Park Tower 2, 201 Sussex Street, Sydney NSW 2000).

At this stage of the project there is no formal requirement for consultation, as the *Aboriginal Cultural Heritage Consultation Requirements for Proponents* (ACHCR's) have not been triggered. Informal consultation is, however, required to be undertaken for the project under the Secretary's Environmental Assessment Requirements (SEARs) for this site issued by the Department of Planning and Environment. It is noted that the consultation may be used to assist in the preparation of an application for an Aboriginal Heritage Impact Permit (AHIP) for the proposed development, if required at a later stage of the project.



Local man Stephen 'Baamba' Albert will be one of many performers at this year's A Taste Of Broome.

# Festival offers a taste of Broome and more



THIS year's A Taste Of Broome (ATOB) will celebrate the role of local Indigenous women in the creation of the community's identity through pearling and the town's cultural development.

Visitors can hear their stories and experience Broome's history as seen through the eyes of women.

The event, now in its fourth year, includes three nights of festivities scheduled for July, August and September. The first night of celebration is on Friday (July 1).

ATOB combines Broome's Indigenous culture and multicultural community and features music, dance, food, arts and crafts, tradition and heritage.

This year's festival will also feature performances, artists and cuisine.

Goolarri Media Enterprises chief operations officer Kira Fong said ATOB continues to promote Broome's lifestyle and cultural history, and is the region's premier Indigenous arts event.

"It combines the performing arts mediums of dance, music and film to create a dynamic and rich production that celebrates Broome's identity," she said.

### New director

This year Guy Ghouse takes over from Stephen Pigram as creative director for the festival.

Mr Ghouse's involvement in Broome started when he was 13, watching bands perform at the Roebuck Hotel.

He has since studied at the WA Academy of Performing Arts, toured nationally and internationally, is a four-time WA Music Industry Awards winner, producer, recording artist and educator.

"To be back in Broome is an honour and a chance to give back to the town that has taught me so much," Mr Ghouse said.

Other artists taking part in this year's show include long-time favourites Stephen 'Baamba' Albert, Naomi Pigram, Bojesse Pigram, Lorrae Coffin, Susie Quicke, Tania McKenna, Arnhem Hunter and Mick Stevens.

They will be joined by new talent including Emma Sibosado and Pauline Bin Sali, who comes from a family whose pearling history goes back to the hard hat days of the luggers.

This year there will also be a new food stall called 'Little Feed', which will feature desserts made from locally collected bush foods.

A Taste of Broome is supported by Tourism WA's Regional Events Program, which is funded by the State Government's Royalties for Regions.

# NT service is a major employer



THE Northern Territory Government's Aboriginal Interpreter Service has become one of the largest employers of Aboriginal people in Australia, according to Local

Government and Community Services Minister Bess Price.

Mrs Price said about 35,000 Aboriginal people in the NT spoke an Indigenous language at home.

"The Territory is one of the most linguistically diverse regions globally, due to the diversity of Aboriginal and overseas languages spoken throughout the Territory," she said.

The Aboriginal Interpreter Service was established in April 2000 under a joint agreement between the

NT and Federal governments.

The service provides a 24-hour booking service and operates from offices across the Northern Territory including Darwin, Alice Springs, Katherine, Tennant Creek, Wadeye, Nhulunbuy, Groote Eylandt and Wurrumiyanga.

### Effective

Mrs Price said the service provided effective crosscultural communication between providers and Aboriginal people who did not speak English as a first language.

She said the service now has more than 300 registered interpreters, making it one of the largest employers of Aboriginal people in Australia.

The minister said that from July 2015

to the end of March this year, the service ran 91 interpreter training sessions involving 1047 participants from government and other organisations.

Mrs Price also paid tribute to the service for its role in developing a Plain English Police Caution in 18 Aboriginal languages – a contribution for which it won the Fitzgerald Justice Award after being nominated in the 2015 NT Human Rights Awards.

Three years in the making, the caution was launched last year.

"The caution has been recorded in 18 Aboriginal languages and loaded on to iPads for police to communicate with Aboriginal people so they understand their rights in terms of the law when being interviewed by police," Mrs Price said.



## ENVIRONMENTAL PROTECTION AGENCY (EPA)

## 5 EPA ENGAGEMENT

The project team have engaged with the NSW Environment Protection Authority through the issuing of a preliminary revision of this report and a meeting on 19/07/2016. The outcomes of the meeting are summarised as follows:

- Confirmation has been provided that an Environment Protection Authority licence or permit is not required.
- The Environment Protection Authority will review any project documentation submitted on Modification 14, if required, on the request of the Department of Planning and Environment, post-lodgement.
- The adequacy of project documentation submitted will be determined by the Department of Planning and Environment



## DEPARTMENT OF PRIMARY INDUSTRIES – WATER

**From:** Boyd Dent <boyd.dent@dpi.nsw.gov.au>  
**Sent:** Monday, 25 July 2016 9:20 AM  
**To:** Daykin, Sean  
**Cc:** Water Referrals; Richard Green  
**Subject:** Harbour heat rejection systems

Hi Sean,  
further to our discussion last week about the harbour water-based cooling systems:

I can't see any particular role or interest for DPI Water as regards the heat exchange process generally.

The matter would only be of concern to this Department with respect to:

- 1) tunneling or excavation associated with the installation of the systems;
  - 2) potential contamination of groundwater by the system;
  - 3) any suggestion of re-injection of water or wastes into aquifers; or
  - 4) any proposed extraction or augmentation of the systems from aquifers
- that is in broad terms - any aquifer interference.

I hope this information helps your considerations; don't hesitate to contact me if you need further clarification,  
regards,  
Boyd

--

**Dr Boyd B. Dent | Hydrogeologist - Aquifer Interference**  
**Coastal Groundwater Management Team**

NSW Department of Primary Industries | Water

Level 10 Macquarie Tower | 10 Valentine Avenue | Parramatta | NSW | 2150

**T:** +61 2 8838 7803 | **F:** +61 2 8838 7852

**E:** [boyd.dent@dpi.nsw.gov.au](mailto:boyd.dent@dpi.nsw.gov.au)

**W:** [www.water.nsw.gov.au](http://www.water.nsw.gov.au)

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WATER NSW

**From:** Wayne Conners <Wayne.Conners@waternsw.com.au>  
**Sent:** Monday, 25 July 2016 11:34 AM  
**To:** Daykin, Sean  
**Cc:** 'Water Enquiries'  
**Subject:** RE: Harbour heat exchange systems

Sean,

I can confirm that the advice you received from DPI Water general enquiry line is correct.

**Wayne Conners**

Senior Water Regulation Officer  
Coastal (Parramatta)

**Important:** As a result of NSW water reforms, many functions previously provided by DPI Water have transferred to WaterNSW, effective 1 July. These functions include customer interactions for licencing, compliance and billing – as well as all in-field services and metering operations. Customers will experience streamlined, more convenient and efficient services. Over the coming months, you will begin to see WaterNSW branded materials for these services.



Level 11, 10 Valentine Ave  
Locked Bag 5123  
Parramatta NSW 2124  
T: 02 8838 7531  
[wayne.conners@waternsw.com.au](mailto:wayne.conners@waternsw.com.au)  
[www.waternsw.com.au](http://www.waternsw.com.au)

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**From:** Daykin, Sean <[SDaykin@pb.com.au](mailto:SDaykin@pb.com.au)>  
**Date:** Thu, Jul 21, 2016 at 9:11 AM  
**Subject:** Harbour heat exchange systems  
**To:** Water Enquiries <[water.enquiries@dpi.nsw.gov.au](mailto:water.enquiries@dpi.nsw.gov.au)>

I am working on marine impacts assessment for a Sydney harbour seawater heat exchange system and am required to consult with DPI Water regarding their role, if any, as a stakeholder on such projects.

Following a telephone discussion over the DPI Water general enquiries I have been advised that DPI Water would not be involved in such a project as they are concerned with freshwater in the environment and anything involving seawater would not require their involvement.

Can you please confirm?

Regards

Sean Daykin



**Sean Daykin**  
Senior Hydrogeologist

Level 27, Ernst & Young Centre, 680 George Street  
Sydney NSW 2000  
Australia  
D: [+61 2 92725366](tel:+61292725366)  
M: [+61 413 412980](tel:+61413412980)  
[SDaykin@pb.com.au](mailto:SDaykin@pb.com.au)

[www.wsp-pb.com](http://www.wsp-pb.com)



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## FIRE AND RESCUE NSW

## APPENDIX A-1 FRNSW MEETING ATTENDEES

### Kirk, Dan

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**Subject:** The Star Casino - Site walkthrough and fire strategy meeting  
**Location:** Meet outside Fire Control Room entry, Jones Bay Road  
  
**Start:** Thu 21/04/2016 1:00 PM  
**End:** Thu 21/04/2016 5:00 PM  
  
**Recurrence:** (none)  
  
**Meeting Status:** Meeting organizer  
  
**Organizer:** Kirk, Dan  
**Required Attendees:** Daire Fleming; Mark Reilly (Mark.Reilly@fire.nsw.gov.au); Chris Brown; John Inifer; Bretherton, Wayne; Stephen Natilli; Felice, Sally; Philippou, Tinoulla; Bottrill, Daniel; Dedman, Ben

Afternoon all,

As discussed over the last few days; we would like to invite FRNSW to attend The Star from 1pm on Thursday 21<sup>st</sup> April. This is to enable the Brigade to understand the scale of works taking place, and seek feedback from them on the guiding principles set out in the site masterplan as it stands. This meeting will be split into two distinct parts as follows:

1. Walkthrough of site to understand existing life safety systems and for site familiarisation purposes
2. Presentation of the proposed development works to enable feedback to be sought from FRNSW

The plan is to meet outside the Fire Control Room entry doorway on Jones Bay Road at 1pm, with the location of this being marked with a pin on the Google Maps screenshot below for ease of reference. The presentation part of this will likely take place at The Star project office at 60 Union St (TBC on the day of the meeting).

Any issues with the above, please let me know.