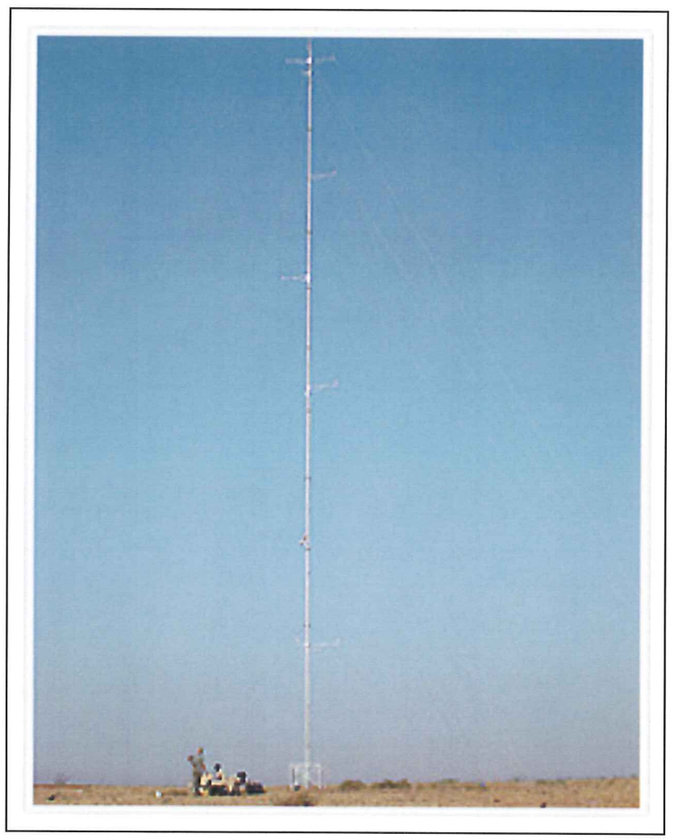
Uranquinty Power Station
Origin Energy

Visual Impact Assessment



Lot 1 DP 1098910
280 Uranquinty Cross Rd
Uranquinty

August 2010

LENNON SALVESTRO planning

Revision History

Revision	Revision Date	Authorised Name/Position	Signature
Draft 1	**7 July 2010**	**J Tubby**	
Draft 2	**9 July2010**	**N Lennon**	
2nd Draft	**9 July 2010**	**J Tubby**	
FINAL	**9 July 2010**	**N Lennon**	

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1 INTRODUCTION

This Visual Impact Assessment is prepared as a result of the proposed installation of a 60m high weather tower at the Uranquinty Power Station site, 280 Uranquinty Cross Road, Uranquinty.

2 LOCATION

Uranquinty is located approximately 14km south west of Wagga Wagga CBD, with the Power Station being approximately 3km west of Uranquinty Village along Uranquinty Cross Road. The following plan shows the location of the Uranquinty Power Station site with respect to Uranquinty.

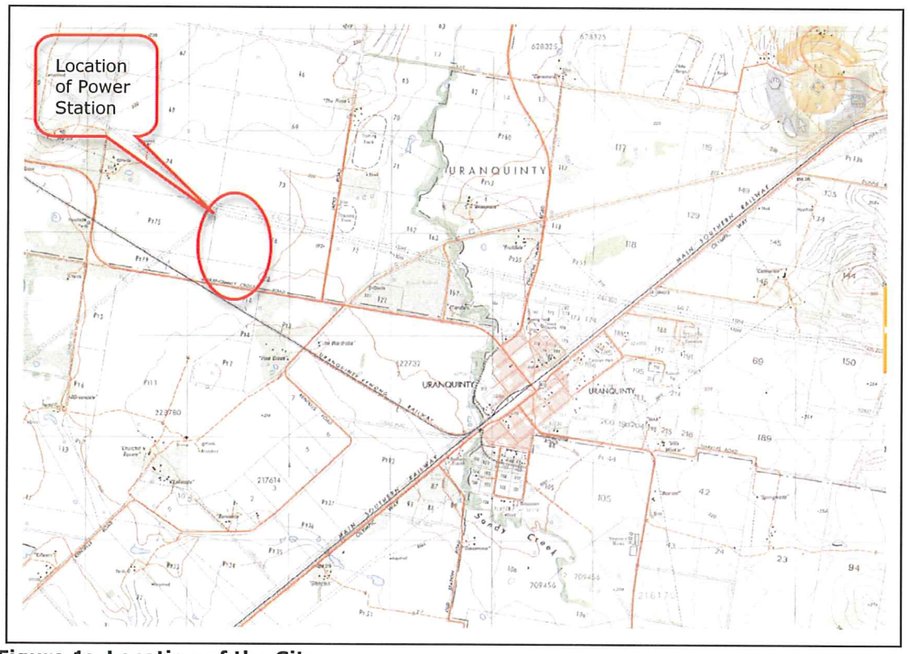


Figure 1: Location of the Site

3 TYPE AND STYLE OF MAST

The type of weather mast to be installed at the site is described as a Tall Tower with anchors (an example is shown on the title page to this assessment). The proposed mast will be approximately 60m high and is a sturdy galvanized steel structure that is constructed of tube sections which slide together and tilt up from the ground using a ginpole and winch. No foundations are required for construction as the tower is stabilized by a number of screw in anchors attached to the tow by guy wires. Anchors are located some 50 metres horizontally from the mast.

The proposed location of the mast is centrally on the western portion of the site. The following figure shows the layout of the Power Station with the proposed location of the mast indicated.

As a result of the height of the mast correspondence was sent to Wagga Wagga City Council as operators of the local airport, due to it's possible impact on flight paths in the vicinity. A copy of this letter is attached as appendix A. Further visual figures are also

presented as attachments to that letter. Verbal advice has been received from Council that they forwarded the letter to CASA and had discussions with Air Services. Advice obtained included the fact that future Obstacle Limitation Surfaces (OLS) at Uranquinty will be 320 m AHD. The height of the mast will be 240 – 250m AHD so it will be well below the OLS but above the airport which is at 213 AHD.

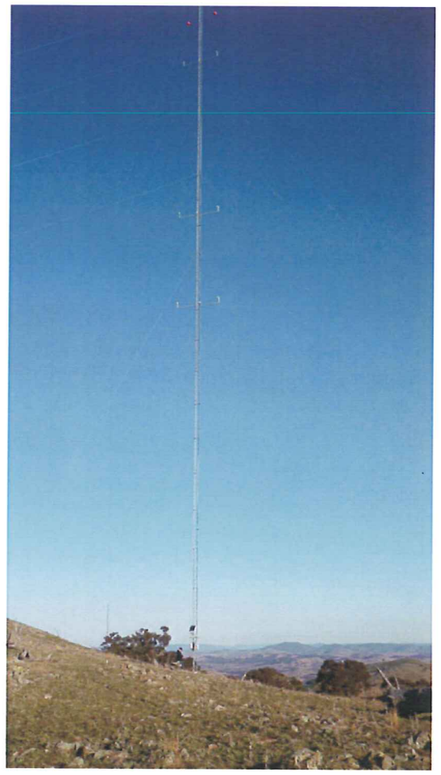
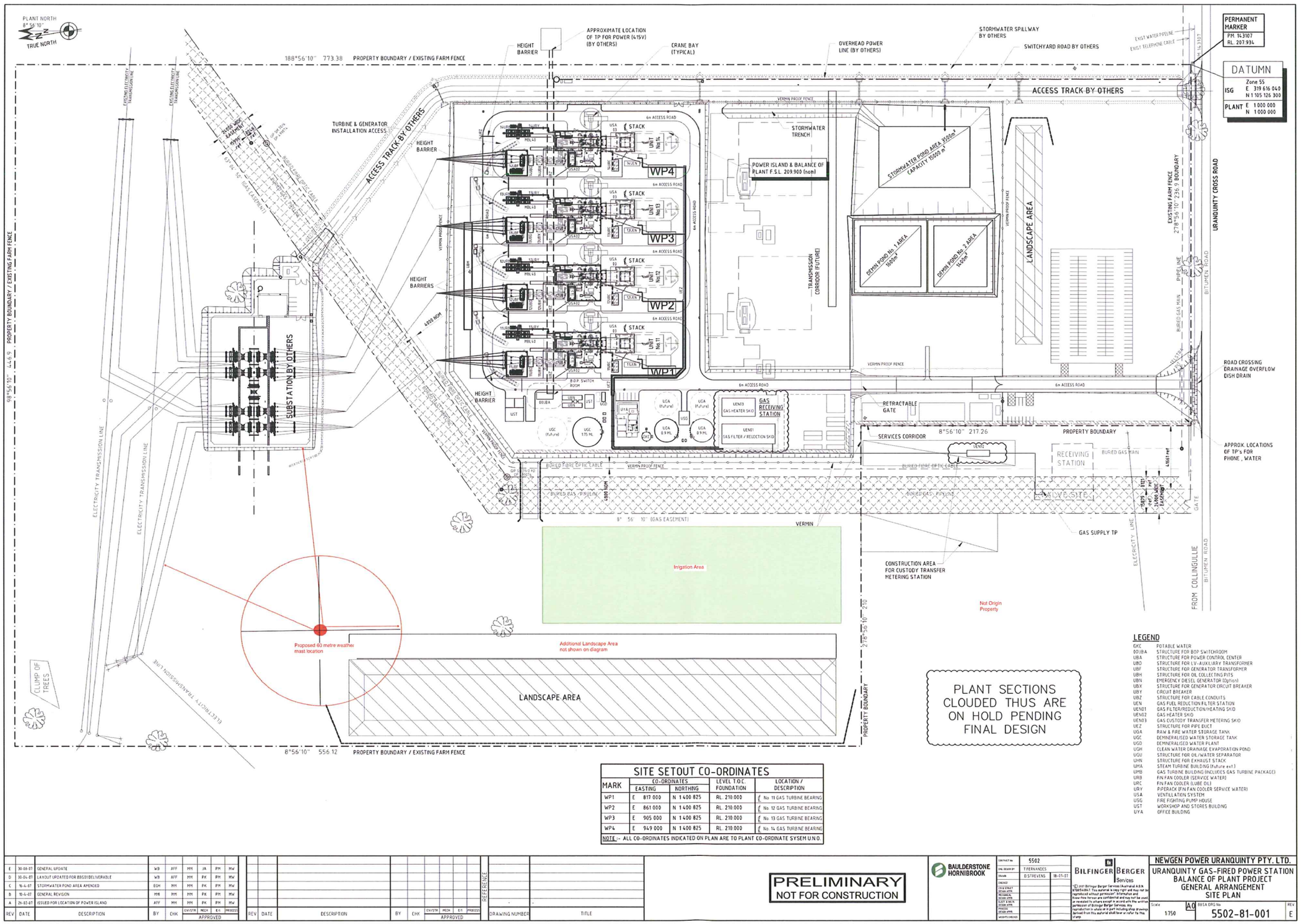


Photo 1: A similar mast located at Yass, NSW



SITE SETOUT CO-ORDINATES

MARK	CO-ORDINATES EASTING	CO-ORDINATES NORTHING	LEVEL T.O.C. FOUNDATION	LOCATION / DESCRIPTION
WP1	E 817 000	N 1 400 825	RL. 210.000	℄ No. 11 GAS TURBINE BEARING
WP2	E 861 000	N 1 400 825	RL. 210.000	℄ No. 12 GAS TURBINE BEARING
WP3	E 905 000	N 1 400 825	RL. 210.000	℄ No. 13 GAS TURBINE BEARING
WP4	E 949 000	N 1 400 825	RL. 210.000	℄ No. 14 GAS TURBINE BEARING

NOTE:- ALL CO-ORDINATES INDICATED ON PLAN ARE TO PLANT CO-ORDINATE SYSEM U.N.O.

REV	DATE	DESCRIPTION	BY	CHK	APPROVED
E	30-08-07	GENERAL UPDATE	WB	AFF	MM JA PM MW
D	30-04-07	LAYOUT UPDATED FOR IBSSI DELIVERABLE	WB	AFF	MM PK PM MW
C	16-4-07	STORMWATER POND AREA AMENDED	EOH	MM	MM PK PM MW
B	10-4-07	GENERAL REVISION	MM	MM	MM PK PM MW
A	29-03-07	ISSUED FOR LOCATION OF POWER ISLAND	AFF	MM	MM PK PM MW

PRELIMINARY
NOT FOR CONSTRUCTION

BAULDERSTONE HORNIBROOK

CONTRACT No. 5502
ENG DESIGN BY T FERNANDES
DRAWN D STREVENS 18-01-07
ENGINEER
CIVIL & STRUCT DESIGN APPR.
MECHANICAL DESIGN APPR.
ELECTRICAL DESIGN APPR.
PROCESS DESIGN APPR.
WEIGHTS CHECKED

BILFINGER BERGER Services

NEWGEN POWER URANQUINTY PTY. LTD.
URANQUINTY GAS-FIRED POWER STATION
BALANCE OF PLANT PROJECT
GENERAL ARRANGEMENT
SITE PLAN

SCALE 1:750 A0 BSA ORG No 5502-81-001 REV E

Figure 2: Site layout.

4 VISUAL IMPACT ASSESSMENT

4.1 General Locality

The following plan is a topographic map showing the Power Station site, the proposed location of the mast within that site and the surrounding residential receptors of the site. Due to the location of the mast towards the west of the power station site, Receptors 1 and 2 were chosen for assessment of impact as they were the receptors most likely to see the mast and to potentially be impacted the most by its presence.

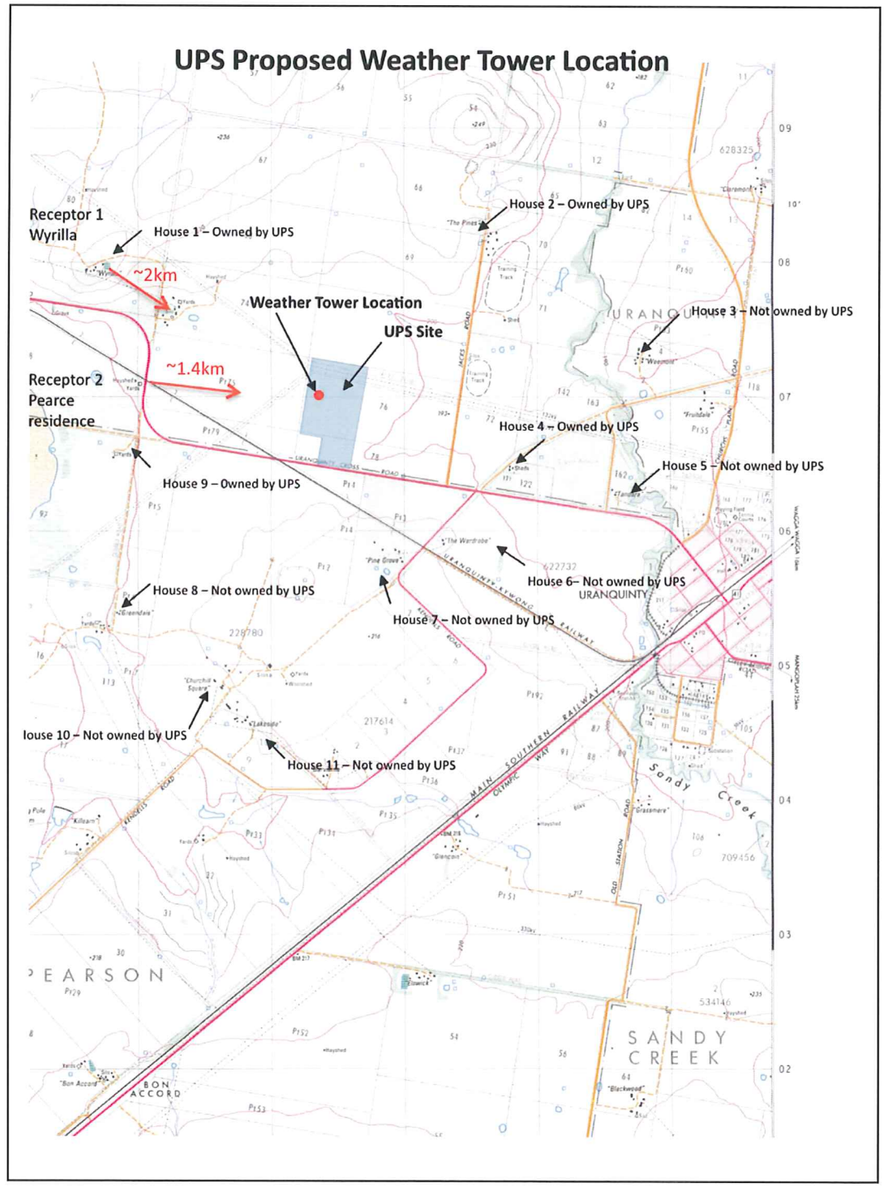


Figure 3: Receptor plan.

4.2 Receptor 1 - Wyrilla

Wyrilla is located approximately 2km north west of the proposed location of the weather tower at approximately 230 m AHD so views from this site will be directly across the power station site and the mast will be visible. The following figure is a photo-montage of the site from Wyrilla which shows the approximate view that property will receive of the tower. The mast will be difficult to see and the stainless steel structure will tend to blend in well with the surrounding environment when viewed from this distance. It is far less bulky than any of the other infrastructure on the power station site, but it will stand above the horizon so will be visible from that perspective. Overall visual impact of the mast is considered to be negligible.

Figure 4: Photo montage of site from Wyrilla.

4.3 Receptor 2

The second receptor to the site is located 1.4 km to the west of the site. The following photo montage shows the views it is likely to have of the weather tower, this photograph was taken at the front gate to the property. Again the mast will be visible above the horizon but its impact will be marginal, especially when compared with the impact of the existing power pole in the middle ground to this picture.

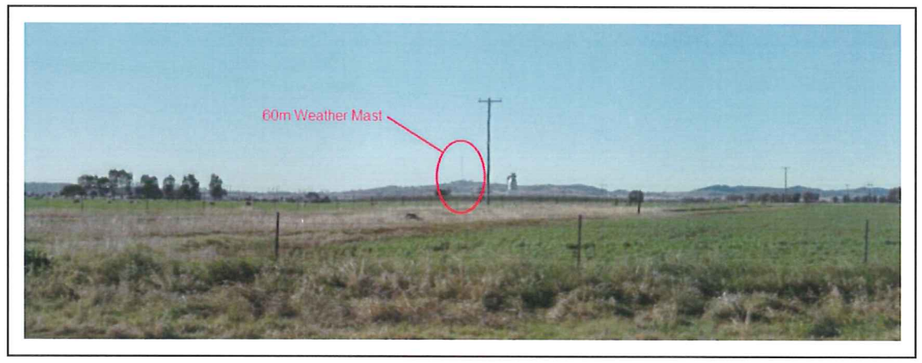


Figure 5: Photo montage of site from receptor 2

5 CONCLUSION

This Visual Impact Assessment has considered the effect as a 60 metre weather mast to be installed at the Uranquinty Power Station site. Montage views have been established for the two nearest and most likely impacted receptors. Results of the information gathered and the montages prepared, suggests that the impact of this mast will be negligible especially when compared to the other infrastructure already existing in the immediate locality. The two nearest receptors will not be impacted by the presence of the mast on the site in the chosen location.

APPENIDICES.

1. Letter to WWCC regarding flight paths.

Origin Energy Uranquinty Power Pty Limited
ACN 120 384 938
Site Address · 280 Uranquinty Cross Roads · PO Box 46 Uranquinty NSW 2652
Site Office · T +61 2 6927 0100 · F +61 2 6927 0150

8 January 2010

General Manager
Wagga Wagga City Council
GPO Box 20
Wagga Wagga NSW 2650

Attention: Steve Prose
Manager Wagga Wagga Airport

Dear Steve

Re: Uranquinty Gas-fired Power Station (UPS) - Addition of 60 Metre Weather Tower

As we discussed on the phone, the UPS is planning to install a 60 meter weather tower on-site. This tower is to provide more accurate information than is currently being provided from the existing 10 meter weather station on-site.

I have discussed the proposed weather tower with the Department of Planning (DoP) and the proposed tower will require a modification to the existing site Development Consent. The main issue DoP had was if the proposed tower was going to impact on flight patterns around the UPS or the operation of the Wagga Wagga City Airport. As such, as requested by you in our phone conversation, I have attached to this letter a number of drawings -

- Regional UPS site location
- Aerial photo of UPS showing proposed location of weather tower
- Site drawing showing proposed location of weather tower
- Proposed weather tower drawing from manufacturer.

I hope the attached information provides enough detail to allow you to determine if the proposed tower will affect aircraft traffic around the UPS or operations at Wagga Wagga City Council. If you require more information please contact myself. If it assists I am more than happy to come to your office to discuss further or I can organise a site meeting at the UPS if you require.

Yours sincerely

Guy Corbett
Environmental Advisor
Origin Energy Uranquinty Power Pty Ltd
0419 648 171

Figure 1 Regional UPS Site Location

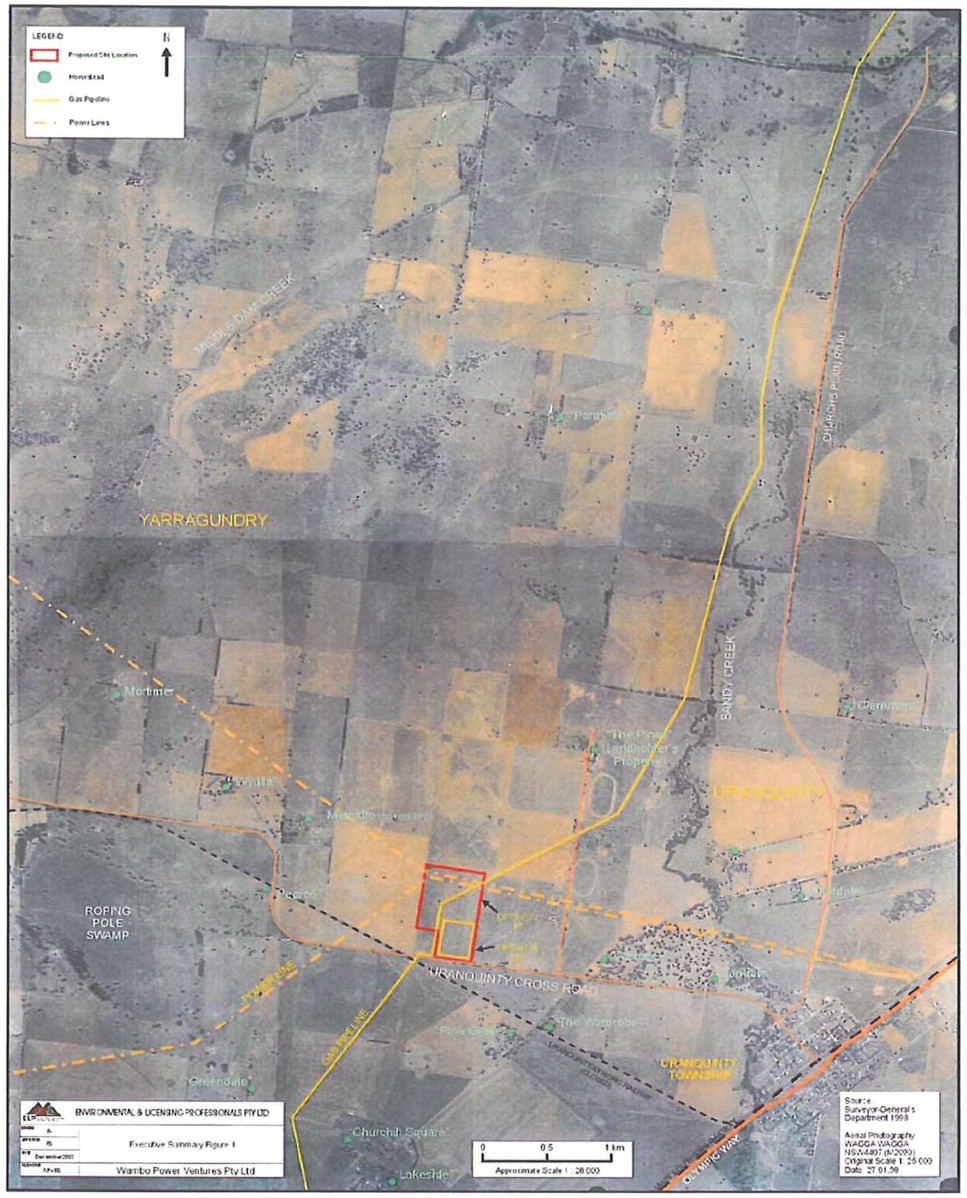


Figure 2. Aerial photo of UPS showing proposed location of weather tower

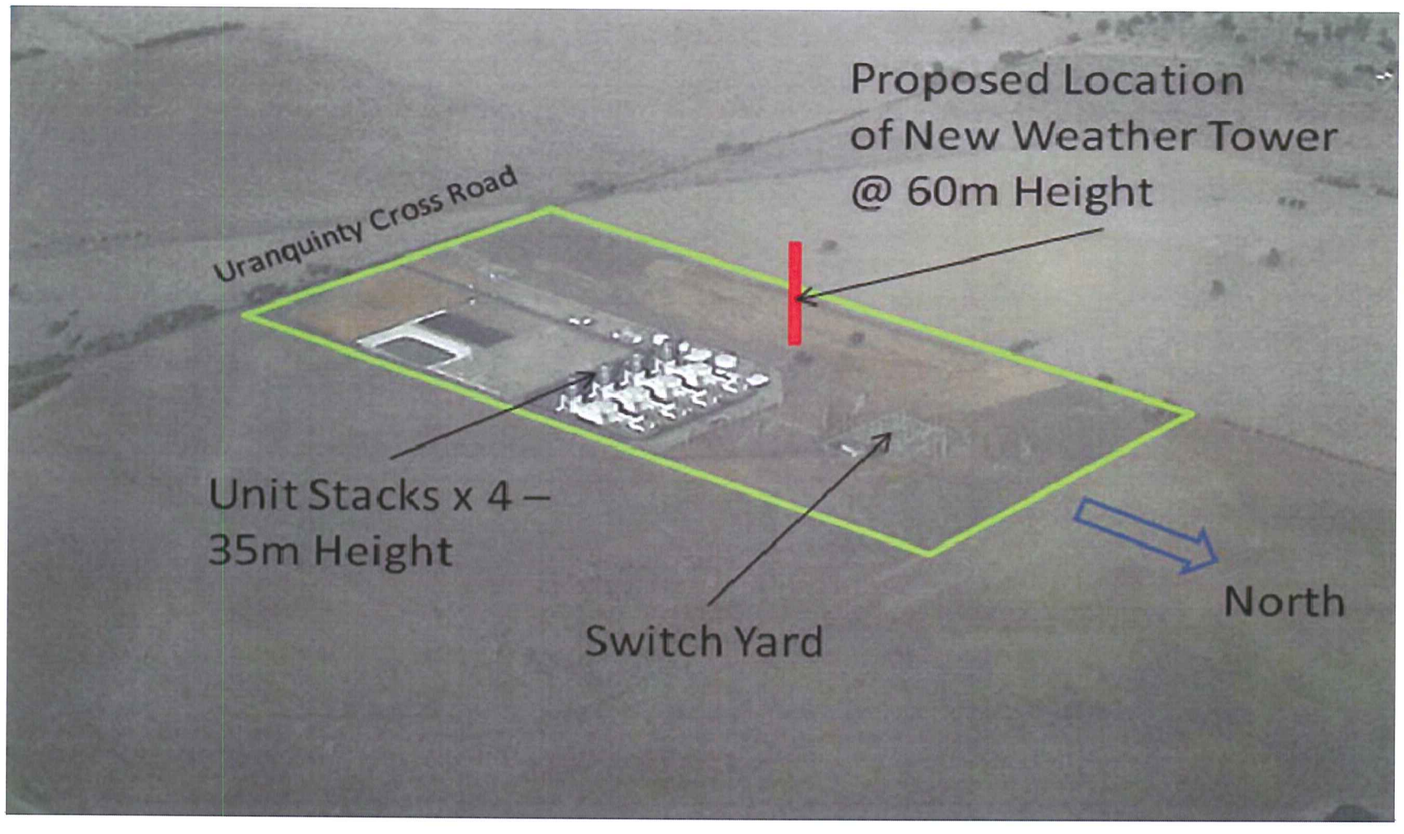


Figure 3 Site drawing showing proposed location of weather tower

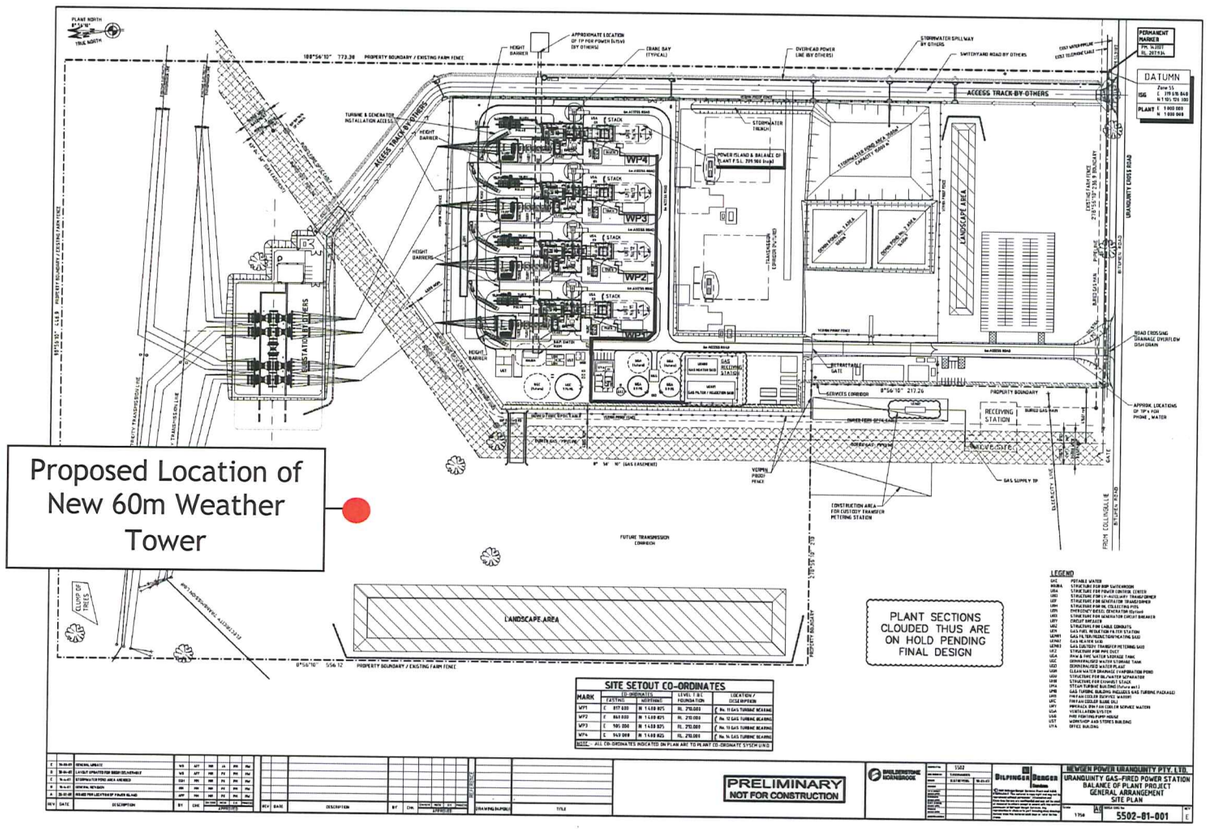


Figure 4. Proposed weather tower drawing from manufacturer.

60m XHD with Standard Footprint

Tower Layout