

17 December 2018 PM/KG: 7039

Allen Jack & Cottier 79 Myrtle Street CHIPPENDALE NSW 2008

Attention:

Mr Vinay Moorthy

Dear Sir

LORETO, NORMANHURST - STAGE 1 MASTER PLAN **ELECTRICAL SERVICES INFRASTRUCTURE**

As part of the master planning for the development of the above school, we have made an application to Ausgrid for the connection of the additional electrical load associated with the construction of the new Boarding House and the Early Learning Centre as well as proposed works in the Primary School Building. A copy of this application is attached for your information.

The existing electricity supply to the eastern half of the site is derived from a 200 amp rated aerial service from the Ausgrid aerial network in Mount Pleasant Avenue. The advice we received from Ausgrid is that the existing service has insufficient capacity to serve the proposed new building works and that it will be necessary to establish a kiosk type substation on the school property in order to meet the additional load. As the load of the new Boarding House represents the largest proportion of the additional load, it will be necessary to establish the substation to enable connection of the load of that building.

The proposed demolition of portion of the Mary Ward Building will not significantly affect the electrical load of the school and will not result in any alterations to the existing electrical infrastructure.

We trust that this information is of assistance.

L. V. Mattlem

Yours faithfully SHELMERDINES

Peter W. Matthews





11 Novemeber 2018 PM/KG: 7039

Ausgrid Contestability Section GPO Box 4009 SYDNEY NSW 2001

Dear Sir / Madam

LORETO NORMANHURST- ELECTRICITY SUPPLY

Early Learning Centre

We are acting as consulting engineers for the design of the electrical services installation associated with planned new building works at the above school. The School is proposing to construct a new Boarding House and Early Learning Centre on the Mount Pleasant Avenue frontage and to air condition the existing Primary School. Our estimate of the electrical loads of the new works is as follows:

560m² @ 80VA/m² =

44kVA

Boarding House		
Basement 3 (Carpark)	1055m ² @ 20VA/m ² =	21kVA
Basement 2 (Carpark & Service)	$1046m^2 @ 40VA/m^2 =$	42kVA
Basement 1 (Boarding & Common)	1445m ² @ 80VA/m ² =	116kVA
Lower Ground (Boarding)	1023m ² @ 60VA/m ² =	62kVA
Ground (Boarding)	1196m ² @ 60VA/m ² =	72kVA
Level 1 (Boarding)	$1404m^2 @ 60VA/m^2 =$	84kVA
Level 2 (Boarding)	$914m^2 @ 60VA/m^2 =$	55kVA
Primary School	2240m² @ 40VA/m² =	<u>90kVA</u>
	TOTAL	<u>586kVA</u>
	=	813 amp/phase

Our estimate of the existing load on the existing aerials services from Mount Pleasant Avenue is 180 amps per phase. Hence the estimated maximum demand of the affected area of the School is 993 amps per phase.

Can you please advise us of the method of by which the additional supply capacity will be provided to the School? In addition, the College wishes to explore the possible removal of the existing HV switching cubicle CP382. Can you please advise whether this is possible and the works required to do so?

Yours faithfully SHEL-MERDINES

Peter W. Matthews

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Connection Application -Large, Multiple and Remote Connections



FORM NECF-03	
Who should use this form	How to submit this form to Ausgrid
Use this form if you:	Sydney, Central Coast and Hunter
require a new or altered service connection greater than 100 Amps OR	Fax: (02) 4399 8007
require new infrastructure to provide electricity to a subdivision of land OR	Fax (local call): 1300 662 089
require a new or altered connection at high voltage OR	Email to: datanorth@ausgrid.com.au
require a new or altered service connection at 100 Amps WHERE	Upper Hunter only
- the development comprises more than 6 separate units OR	Fax: (02) 6542 9037
- any item of plant or equipment is rated at 30 amps or more	Email to: datamuswellbrook@ausgrid.com.au
For other connections use NECF-02 Connection Application - Residential and Small Commercial Connection	Total number of pages sent*
Comment annual transfer of the Comment of the Comme	
General enquiries	
More information on completing this form can be found on our website: www.ausgrid.com.au/connectingtothenetwork	
Fields marked with an * are mandatory.	
This form is to be completed using BLOCK LETTERS only	
Any application marked TBA or TBD will be incomplete and will be returned with advice that Ausgapplication is re-submitted. If you do not have all the required information at this stage and are on	
will be supplied, you should consider lodging a preliminary connection enquiry, using our form Ni	
PART A: PREMISES AND DEVELOPMENT DETAILS	
1. Premises and Owner Details	
1. Figures and Owner Details	
Retailer	Your NMI can be found on your electricity bill.
	■ Put NA for a new site
Property Name L O R E Γ O N O R M A N H V R S Γ	
Floor No. Unit No. Street No. or RMB* Lot No.*	DP No.*
9/7-9/3 or	
Street Name* P E W N A N T H I L L S	Post Code*
	t Cross Street
MORMAWHURST MO	UNIT PLEASANT AVE
Name of Registered Proprietor of Land*	This is the person authorising connection of
LONETO NORMANHURST LIMIT	
Address of Registered Proprietor of Land* 9 1 - 9 3	Post Code* 0 R M A W H U R S T 2 0 7 6
71-17 FEMILY FIVE IN TEEDS NO NO	0 RMANHURST 2076
2. Retail Customer or Real Estate Developer Details Tick here if you	ou are the land owner Now proceed to Section 3
Title, First Name, Last Name*	ABN (if applicable)
	39842385177
Company Name (if applicable and provide representative details above)	Phone No.
LORETO NORMANHURST LIMIT	ED 9487 3488
Postal Address *	Mobile Phone No.
91-93 PENINANT HILLS RO. HOR	MAN HUZST
Email Address*	Fax No.
reception@leretonhinsw.ed	U, au. 19489 2348
3. About You - The Connection Applicant	
Questions in this section are about the person making this Connection Application.	
What type of applicant are you?* , A = Retail Customer, D = You are ap	oplying on behalf of a retail customer or developer
	Contractor on behalf of a customer or developer
	half of a customer or developer
Title, First Name, Last Name*	ABN (if applicable)
MR PETER MATTHEWS	

(FORM NECF-03 - Version 1_0, 20/5/13)

SHELMERDINES

Electrical Contractor Licence No.* (If E above)

Postal Address *

Email address*

PO BOX

Company Name (if applicable and provide representative details above)

Page 1 of 6

CROWS NEST 1585

ASP No.* (If F Above) and/or 2 6 0 6

CONSULTING

pmatthewsoshelmerdines.com.au

Phone No. * (and/or)

Mobile Phone No.*

Fax No.

| δ | 3 | ■ accreditation number and level (1,2,3)

9436 3021

0402336389

If you are an ASP you must provide your

Street Address of the Premises (to be completed by applicant) * 9 1 - 9 3 P E W M A W T H I L E R D W O R M A W W U R S T T T T T T T T T
4. Electrical Contractor Details (if available) Tick here if the same as Section 3 above_ Now proceed to Section 5
Title First Name and Last Name (or Company Name) ABN (if applicable)
Parts Advans
Postal Address Phone No.
Email Fax No.
Electrical Contractor Licence No.
PART B: LOAD DETAILS
5. Connection Details
(a) When do you expect the construction of the premises connection assets to commence?* (b) When do you wish to energise (ie turn on the supply to) the premises?*
Premises connection assets are the components of the distribution system used to provide the connection service to the premises eg service cable, metering, new Ausgrid pole, pillar or substation etc.
(ii) Existing Connection (if applicable)
Existing Point of Common Coupling Asset No. This is the No. of the pole, pillar or substation. If there is no asset No. put Meter No.
Pole Pillar Substation
If you have an existing supply, is it from a substation located on the premises?* Y N
subdivision, eg provide low voltage reticulation within an URD subdivision?* (b) No. of lots in the subdivision* (c) Nearest existing Ausgrid Asset* Pole Pillar Substation This is the number of the pole, pillar or substation. If there is no asset number put "unknown". Proceed to (vi)
(iv) Proposed Point of Common Coupling * (Please tick one)
Asset No. Pole Pillar Substation ✓ WWW OWW ✓ This is the number of the pole, pillar or substation, If there is no asset number put
"unknown". Is the Point of Common Coupling within 50m of the boundary of your land?* Y N
(v) Proposed Point of Supply* (Please tick one or if Other, please describe) Private Pole / Pit / Pillar
laffered transport transport
(vii) Embedded Generation Details* (e.g. solar, wind, hydro, back-up and standby) (a) Does the premises have existing embedded generation?* (e.g. solar, wind, hydro, back-up and standby) (solar, wind, gas, etc) Type:
(b) Are you upgrading or installing new embedded generation?* N ✓ ► If Yes, submit our NECF-04 form in addition to this form
(c) Your Installer's Clean Energy Council Accreditation No. Only complete if embedded generation comprising of AS/NZS 4777 compliant components is being installed

	s of the Premises (to be comp 3 P E M M A	N T H	445	RO NOF	MANHURS	Post 0	1 - 1 -
(viii) Service	- 7 -	derground	UGOH	Off Pole Transformer	Busbar Supply		
(ix) Service Si	a-contract contract c	200 Amps	400 Amps	630 Amps	800 Amps 1000 Am	ps	
,	1200 Amps	600 Amps	2000 Amps	2500 Amps	3000 Amps		
	Other	Describe					
		(Comple	te if Other is ticked, e	eg high voltage connection	at 11KV)		
(x) Number of (Please tick		1 Phase	2 Phases	3 Phases			
(xi) Metering I (a) Are new m	Details* eters being installed as part	of this connection	application?*	YN	If yes, number of meters in (b)		
(b) Number of (enter total n		nse Th	iree Phase (E3)			Ta ontrolled Load 1 ontrolled Load 2	ariff
1-7	generation metering:	Net	Gross	Other			
(d) Will your in	estallation be CT metered?*	YN] ► If yes, CT N	Metering Form must be	submitted. Refer to that form for su	ibmission details	
(xii) Type and Number of Premises	Land Title Type* (Please tick one)	Premis (Please tick o	ses Usage* ne or more)	No. of Premises* (enter total number)	STANDARD BOOK STANDARD COME	llowing applies to * (one must be ticke	
	Torrens	Re	sidential		Urban	Unknowr	n 🔲
	Strata []	Commercial / In	ndustrial		Rural		
	Community Title	House \$	Services		 Only fill out House Selections 	vices if you have M	ultiple
		Builder's	Service				
(xiii) Calculate	ed Maximum Demand in E	ach Phase (Amps) •	This question is not ask	ing about service rating.		
(a) Existing Ma	aximum Demand	30 1 180) [1.80	Amps E	existing Service Length	m	
, ,	Maximum Demand * 9	93' ['99	3 99	3 Amps F	Proposed Service Length*	· 5 m	
	um Demand Calculation wo	rksheet Y	V N □ ◀		ne maximum demand calculation i attached to this form unless you ar)
	Development Details (وي المركزيلة		a Region
If your developme	ent involves any of these, this s	ection MUST be com	pleted, even if you	u are providing your plan	s with this application		
Residential Po		Ì	Į.	Commercial Po Number of shops		Ĭ.	ī
Number of bed	_		1		with air conditioning		m ²
Gas hot water	•	YN	1		without air conditioning		m²
Gas cooktop (y		Y N	i		ion current rating		Amps
	ation current rating		Amps	Car park area re	THE DESCRIPTION OF THE PROPERTY OF THE PROPERT		m ²
Car park area r	requiring lighting		m ²	Warehouse floor	area		m²
Air conditioning	(yes/no & if Yes, No, of units)	Y N] [Commercial area	as for food handling (yes/no)	Y N	
Air conditioning Industrial Port No of factory un			Amps	Other (eg Lifts,	Cranes,etc - List Type, No 8	Rating in Amps	s)
	of all factory units		m ²				_

7. Location Diagram*

This section is about the physical location of your premises and an electrical schematic will not be accepted. Ensure that your diagram clearly identifies property, nearest cross street, North Point, Proposed Point of Common Coupling, Point of Supply and service cable route to main switchboard. Attach a separate paper if more space is required.

North Point

Ground Substation

Pole Top Substation

Ausgrid Pole (indicate No if available)

Ausgrid Pillar (indicate No if available)

Ausgrid Pillar Standard (indicate No if available)

Customer Pillar (Existing or proposed)

Customer Pole (Existing or proposed)

Existing or proposed)

Building

Use the following symbols where

REFER ATTACHED DRAWING.

8. Specific Equipment - Non Linear/Fluctuating Load Details (complete if installing any of the items listed below)

This section is for connections where (a) any single item of plant or equipment has a rating > 75 Amps at 230/400V, (b) any HV connections, or (c) Work where the proposed equipment may cause excessive fluctuations of voltage (eg. lifts,welders, pumps, x-ray machines).

Description	kVA/kW	Amp	No of Ops/Hr	Design Standard	Mitigation Measures
Distorting Loads					
1 Phase capacitor-filtered or conventional rectifier					
3 Phase 6-pulse capacitor filtered rectifier / VSD					
3 Phase 6 pulse capacitor filtered rectifier with series inductor > 3% or DC drive / VSD					
3 Phase 6 pulse inductor filtered rectifier / VSD			B. to		
3 Phase 12 pulse rectifier / VSD			THE STATE OF		
AC voltage regulator					
Variable voltage variable frequency (VVVF) drive			The State of		
Switch mode power supplies			E and I		
Power Factor Correction			FOR LINE		
Other (please specify)			train.		
Fluctuating Loads					
Rating of the largest motor					
Rating of the second largest motor				-	
Rating of other frequently fluctuating loads:					
Other:					
Special Equipment					
X-Ray or Magnetic Resonance Imaging Devices			The same		
Welding plant rating			100		1074
Arc furnaces rating			1000		
Unbalanced loads (e.g PH-N / PH-PH loads)			TENT		
Other, (incl >75A rated equipment):			BUZ		
TOTAL APPARENT POWER RATING (KVA)				The same of the sa	

Street Address of the Premises (to be completed by applicant) *
9. Expedited Connection (optional)
For information regarding this section please refer to our website or the guide for this form.
Are you applying for an expedited connection? Y N ► If No, proceed to Section 10
If Yes, then indicate which model standing offer to provide connection services is acceptable to you (you may tick more than one).
Basic - 100 Amps connection Standard - connection requiring Ausgrid-funded offsite works
Basic - Over 100 Amps connection Standard - connection requiring Ausgrid-funded onsite substation
Basic - micro EG connection Standard - ASP/1 connection
Standard - connection requiring Ausgrid augmentation (substation upgrade)
10. Other Information
Information you provide in this section may help Ausgrid to process your connection application faster.
Was a Preliminary Connection Enquiry lodged for the premises using our form NECF-01?
Has Ausgrid provided a certified design number for a Network Augmentation project associated with the premises? Lead of the provided as ASB/A places associated with the premises and the provided the
If you have appointed an ASP/1, please provide their details below otherwise skip to next question ASP/1 Name ASP No.
DA Reference No. Do you have development consent for your proposal? Y N ✓
If yes, please attach any conditions relating to electricity where not already provided to Ausgrid.
Do you wish to underground/relocate electricity assets in Y N If yes, please provide details in section 11, or on a separate paper
conjunction with this connection application?
11. Comments and Additional Information (if applicable) (e.g. References to similar existing installations, supporting information. Attach information on a separate paper if there is insufficient space below)
LORETO ARE PLANNING THE CONSTRUCTION OF A NEW BOARDING
HOUSE & EARLY LEARNING CENTRE ON THE MOUNT PLEASANT
AVENUE FRONTAGE OF THE COLLEGE. BOTH BUILDINGS WILL BE
AIR CONDITIONED.
THE COLLEGE IS ALSO PLANMING TO INSTALL AIR CONDITIONING
MY THE EXISTING PRIMARY SCHOOL BUILDING.
THE THREE PROSECTS WILL INCLEASE THE ESTIMATED MAXIMUM DEMAND
v •1
TO 905 AMPS DEP PHASE.
THE EXISTING SUPPLY TO THAT AREA OF THE COLLEGE IS PROVIDED
BY TWO AENIAL SERVICES
WE ANTICIPATE THAT THE INCREASED LOAD WILL NECESSITATE THE
ESTABLISHMENT OF A MIOSK SUBSTATION.
IN CONJUNCTION WITH THE ESTABLISHMENT OF THE SUBSTATION THE
COLLEGE WISHES TO EXPLORE THE POSSIBLE REMOVAL OF THE
EXISTING H.V. SWITCHING CUBICLE CP382.

Street Address of the Premises (to be completed by applicant) * $ 9 1 - 9 3 $ $ 9 E W M A W F $ $ d f$		DINOR	Post Code*			
12. Signatory Signatory should be the person named in Section 3, ie the Connection	n Applicant.	- A-1				
Where this application requests an expedited connection, I declare that I have read and understood the terms and conditions of the connection offer referred to in section 9 (including the Connection Offer Summary) and agree that if the connection is expedited that a contract based on that offer will be formed with Ausgrid on the date that Ausgrid receives the application.						
Where this application is being made on behalf of a retail customer or real estate developer, I declare that I have obtained the authority of that person to make this application of their behalf, including where applicable, making a request for expedition of the connection application.						
Signatory Name* PETER MATTHEWS		Signatory Po	sition*			
Signature of Connection Applicant* Lete Date signed by the Connection Applicant*						
Attachment Checklist:	Tick if done	No of pages	Remarks			
This Connection Application form	✓	6	Ensure all fields marked with * are filled in			
AS/NZS3000 maximum demand worksheet		1	Refer to question 5(xiii)(c)			
Connection Application for Embedded & Standby Generation Form NECF-04	1 1		Required if you answered "Y' in question 5(vii)(b)			
Development Plans			Attach if available			
Location Diagram (if space in Section 7 is inadequate)		1				
Conditions of consent to your Development Application			Refer to Section 10			
Other (please specify)						
Other (please specify)						
	TOTAL*	8				

If this application is incomplete in a material respect or if Ausgrid requires more information, Ausgrid will not process the application until you provide the relevant information, If you do not supply the requested information within 12 months, this application will lapse.