

1.0 APPENDIX C – DESIGN AND QUOTATION APPLICATION FORM

Application for a Power Supply from the BHPIOSA Network

Thank you for your enquiry about an electricity supply.

Before we can prepare a design and quotation detailed information regarding your proposed load is required. This form is required to be completed by your electrical contractor or consultant.

Please complete this form if the supply you need fits one or more of the following descriptions –

The load required is greater than 63 amps single phase or 32 amps three phase

It is for a commercial or industrial property

It is for more than three domestic dwellings

It has been deemed excessive or disturbing

Next Steps

Complete the checklist below and the following forms and forward to;

The BHPIOSA Inspector

Tel (Work): (08) 9175 3303

Tel (After hours): 1800 677 639

Email: supplyauthority@bhp.com

Mail: NPI Supply Authority

PO Box 655, Newman, Western Australia 6753.

When we have received your form, we will confirm receipt in writing within 3 - 4 working days and provide contact details of the person looking after your project.

If you have any other questions about this application form, please contact the BHPIOSA inspector.

Checklist

- ☐ Yes, I have engaged an electrical contractor or consultant to represent me as detailed in Part B of the following forms and authorise them to act as my representative.
- ☐ Copy of site plan/layout of installation, showing position of all electrical distribution switchboards, main cable routes, etc.
- ☐ Electrical single line diagram of installation, detailing all primary plant ratings (e.g. rating of fixed plant, cable rating, protective devices installed, etc.)
- ☐ Equipment technical information data-sheet for equipment in Part C (e.g. voltage and current harmonic contents, starting characteristics, etc.)
- ☐ Earthing details
- ☐ Load profiles, if available

Part A – General

Name of Applicant

Company Name: _____

ABN: _____

Contact Title: _____ Name: _____ Surname: _____

Current Address: _____

Suburb/Town: _____ Postcode: _____

Phone: (____) _____ Work: _____

Fax: (____) _____ Mobile: _____

Postal Address

Tick if same as above ☐

Postal Address: _____

Suburb/Town: _____ Postcode: _____

Is Applicant the Lot Owner? ☐ Yes ☐ No

Electrical Consultant/Electrical Contractor

Company Name: _____

Current Address: _____

Suburb/Town: _____ Postcode: _____

Contact Name: _____ Phone: (____) _____

Fax: (____) _____ Mobile: _____

Site Connection Required Details

Lot N^o: _____ Street N^o: _____ Street: _____

Suburb/Town: _____ Postcode: _____

Contact Name: _____ Phone: (____) _____

Fax: (____) _____ Mobile: _____

Type of Network Connection

☐ Domestic

☐ Commercial

☐ Multi Residential

☐ Hotel/Motel

☐ Industrial (provide details): _____

Connection Required for:

☐ New Installation

☐ Temporary Supply (less than 1 year)

☐ Alterations or additions to existing installation

☐ New Customer

☐ Other (please specify): _____

Date Connection Required: ____/____/____

WAPC Application Number (if subdivision/amalgamation): _____

Please Note: Application will not be processed until WAPC approval has been received for subdivision/amalgamation

Is supply greater than 63 amps single phase or 32 amps three phase?

☐ Yes

☐ No

Are there multiple units?

☐ Yes

☐ No

If yes;

Total number of units: _____

Total number of CT meters required: _____

Number of S type CTs: _____

Unit numbers (if known): _____

Number of T type CTs: _____

Unit numbers (if known): _____

Number of W type CTs: _____

Unit numbers (if known): _____

Part B – Load details

Existing load demand (where applicable)

Maximum Demand: _____ amps/phase, or _____ kVA

Present Consumption: _____ kWh/day

Existing Tariff: _____

Additional/new load demand

Please add the additional load to the existing load and provide a total demand figure.

Initial Total Loading: _____ amps/phase, or _____ kVA by ____/____/____

Ultimate Total Loading: _____ amps/phase, or _____ kVA by ____/____/____

Estimated total consumption

Initial: _____ kWh/day

Ultimate: _____ kWh/day

Method used to estimate load

☐ AS/NZ 3000

☐ Volt amps (VA)/m2

☐ Direct reading/load survey

☐ Other (please specify): _____

Load Patterns

Normal operating hours (per week day): _____

Normal operating hours (per weekend): _____

Weekly operation pattern (e.g. Monday to Friday or 7 days a week): _____

Annual operating pattern (if there is seasonal variation): _____

Tariff details

Please tick

Low voltage supply ☐ A2

☐ C2

☐ D2

☐ K2

☐ L2

High voltage supply ☐ M2

CT Metering (for loads of more than 100 amps)

Is/are CT meter/s required? ☐ Yes

☐ No

If yes, type

☐ S

☐ T

☐ W

Part C – Disturbing Load Information

Disturbing equipment and motor details

Please indicate which categories, and then complete either C.1 and/or C.2 as shown. Please make extra copies of the table if necessary.

- ☐ Power Converting Equipment (e.g. rectifiers, inverters, degaussing equipment, variable speed motor drives, X-Ray machines etc)
- ☐ Arcing Devices (e.g. arc furnaces, welding equipment, discharge lamps etc)
- ☐ Magnetic Core Equipment (e.g. voltage regulating transformers, induction furnaces etc)
- ☐ Power Factor Correction/Harmonic Mitigating Equipment (e.g. reactors/chokes, capacitors etc) Please complete section C.2 below

C.1 Details of motors

Motor	1	2	3	4
Is the motor new or existing?				
No of starts (per day/hour/min/sec)				
Motor size (kW)				
Starting device (DOL star delta, close transition, autotransformer, soft start, liquid resistance starter) Other (please specify)				
Any other relevant information				

C.2 Details of disturbing devices

Disturbing equipment	1	2	3	4
Type of equipment				
Is it new or existing?				
No of disturbances (day/hour/min/sec)				
Device power rating (kW)				
Any other relevant information				

Note: Disturbing equipment can affect quality of the electricity supply to other customers connected to the electricity network and BHPIOSA may require you to mitigate the disturbances caused by this equipment.

Part D - Supply Arrangement Options

If your load requires a transformer installation please refer to the supply arrangements section in this document and nominate your preferred supply arrangement below.

We will endeavour to meet your request, but cannot guarantee to do so.

Low voltage power supply options

These substation options are generally suitable for loads up to 2MVA. BHPIOSA owns and is responsible for all equipment within the substation.

☐ District Substation

As well as providing a connection for your premises, a district substation is also connected to the BHPIOSA network in the street. This means that if the transformer fails, a limited backup supply may be available from the street until the transformer is repaired. Backup supplies may only support critical essential services and may be insufficient to support air conditioning and other high-energy use equipment.

☐ Sole Use Substation

With a sole use substation there is no interconnection with the BHPIOSA low voltage network in the street. If the transformer fails, you will be without power until it can be repaired or suitable portable back-up generation can be installed.

Note: There may be network operational or power quality reasons for installing either a district or sole-use substation. BHPIOSA will therefore make the final decision.

High voltage power supply options

These options are generally suitable for loads above 1MVA. The customer owns and is responsible for all equipment within the substation other than the BHPIOSA metering unit and any high voltage switches connecting the substation to the BHPIOSA network.

☐ Overhead supply area, single connection

Your premises will be connected to the high voltage network via a single cable. If the cable fails, you will be without power until it can be replaced. This could take up to 24 hours depending on circumstances.

☐ Overhead supply area, dual connection

Your premises will be connected to the high voltage network via two separate cables. If one cable fails, you will be without power only until the network can be switched to provide supply via the second cable. This should normally occur within 2 hours.

☐ Underground supply area, dual connection

The only option in an underground supply area is for your premises to be connected to the high voltage network via two separate cables. If one cable fails, you will be without power only until the network can be switched to provide supply via the second cable. This should normally occur within 2 hours.

Note: 1. High voltage supplies are usually fed from a single network feeder. Whether you have a single or dual connection, a fault on the feeder will result in loss of supply until the feeder can be repaired.

2. The above supply restoration times are indicative only and no guarantee of service level is implied.

Supply with a higher level of security

☐ Please tick this box if you require a power supply arrangement with a greater level of security than is offered by the standard arrangements