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ELECTRICITY CORPORATION ACT 1994

**ELECTRICITY
TRANSMISSION
REGULATIONS 1996**

WESTERN AUSTRALIA

**ELECTRICITY TRANSMISSION
REGULATIONS 1996**

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ELECTRICITY CORPORATION ACT 1994
ELECTRICITY TRANSMISSION REGULATIONS 1996

Made by His Excellency the Governor in Executive Council.

PART 1 — GENERAL

Citation

1. These regulations may be cited as the *Electricity Transmission Regulations 1996*.

Commencement

2. These regulations come into operation on 1 January 1997.

Definitions

3. In these regulations, unless the contrary intention appears —

“**access agreement**”, in respect of a user, means —

- (a) if the user is not Western Power, then an agreement between Western Power and the user, under which Western Power agrees to provide access services to the user; and
- (b) if the user is Western Power, then a deemed access agreement provided for by regulation 15 (2) or 49 (1) under which Western Power as a user is provided with access services;

“**access application**” means an access application made under regulation 8;

“**access information**” has the meaning given in regulation 14 (1);

“**access offer**” means an offer made by Western Power to an applicant to provide the access services requested in an access application made by that applicant and, where Western Power makes an additional offer under regulation 11 (4) in relation to the access application, includes that additional offer;

“**access services**” means —

- (a) use of system services;
- (b) common services;
- (c) connection services;
- (d) ancillary services;

“affected obligation” has the meaning given in regulation 35 (2);

“affected person” has the meaning given in regulation 35 (2);

“alternative services” has the meaning given in regulation 11 (4);

“ancillary services” means the following services —

- (a) voltage control;
- (b) control system services;
- (c) spinning reserve; and
- (d) post-trip management;

“applicable laws” means the Act, the *Energy Corporations (Powers) Act 1979*, the *Electricity Act 1945* and the *Energy Co-ordination Act 1994*;

“applicant”, in respect of an access application, means the person who has made the access application or on whose behalf the access application has been made;

“augment”, in relation to the electricity transmission network, means to enhance or expand the electricity transmission network;

“business day” means any day other than a Saturday, Sunday and any day that is a public holiday or bank holiday in the Perth metropolitan area;

“common services” means a network service that ensures the integrity of the electricity transmission network and benefits all users and that cannot practically be allocated to users on a locational basis;

“connection” means the electrical equipment that allows the transfer of electricity between the electricity transmission network and an electrical system that is not part of that network and includes any transformers or switchgear at the point of interconnection (including those that operate at a nominal voltage of less than 66kV and a nominal frequency of 50Hz) that are necessary for that transfer but does not include the lines and switchgear at the connection that form part of the electricity transmission network;

“connection agreement” means an agreement between Western Power and one or more controllers in respect of a connection who are not users in respect of the connection under which the controller or controllers agree to comply with the Technical Code and any relevant parts of these regulations;

“connection services”, in respect of a connection, means the establishment and maintenance of that connection;

“contract maximum demand” in respect of a connection means the contract maximum demand (expressed in kW) specified in the access agreement in respect of the connection (if any);

- “control system services”** means the 24-hour control of the power system through monitoring, switching and dispatch which is provided through control centres and SCADA and communication equipment;
- “controllers”** in respect of a connection means all of those persons who engage in one or more of the activities of owning, controlling and operating the plant or equipment transferring electricity to or taking electricity from the electricity transmission network at that connection;
- “declared sent-out capacity”** in respect of a generating unit is determined in accordance with regulation 38;
- “disconnect”**, in respect of a connection, means to operate switching equipment so as to prevent the transfer of electricity through the connection;
- “electricity transmission network”** has the meaning given in regulation 5 (2);
- “embedded generating unit”** means a generating unit which supplies on-site loads or loads at the same connection or which is connected to an electricity distribution network;
- “encumbrance”** includes a mortgage, pledge, lien, charge or other security interest;
- “entry point”** means a connection at which electricity is more likely to be transferred to the electricity transmission network than to be transferred from the electricity transmission network;
- “exempt connection”** means a connection which is not an existing connection;
- “existing connection”** means a connection which exists as at 1 January 1997;
- “exit point”** means a connection at which electricity is more likely to be transferred from the electricity transmission network than to be transferred to the electricity transmission network;
- “fee schedule”**, in respect of a financial year, means the fee schedule published in respect of that financial year by Western Power;
- “force majeure event”** has the meaning given in regulation 35 (1);
- “generating unit”** means an electricity generator and related equipment essential to the electricity generator’s operation, which together function as a single entity;
- “good electricity industry practice”** has the meaning given in regulation 28 (1);

“network services” in respect of the electricity transmission network means the use of the electricity transmission network to transport electricity, including —

- (a) network transmission services, including —
 - (i) the electricity transmission network’s ability to transfer electricity;
 - (ii) configuration switching capability at nodes;
 - (iii) network security and stabilisation capability services; and
 - (iv) voltage and reactive control capability at nodes;
- (b) network operation systems, including —
 - (i) remote operation services;
 - (ii) voice and data communication services;
 - (iii) network performance monitoring services;
 - (iv) real time operational information and control capability;
 - (v) operational information (including plant characteristics);
 - (vi) generation scheduling; and
 - (vii) maintenance services;
 and
- (c) the maintenance of the security of the electricity transmission network, including frequency control;

“network planning criteria” means the criteria prepared by Western Power under regulation 27;

“outage” means any planned or unplanned full or partial unavailability of plant or equipment;

“post-trip management” means the maintenance of system security in the aftermath of trips;

“preliminary assessment”, in relation to an application, means a preliminary opinion of Western Power, provided for the general information of the applicant, as to the technical feasibility of the proposal in the application, the suitability of the location of the proposed connection, the likely availability of spare capacity at that proposed connection and likely extent of any augmentation;

“related body corporate” means —

- (a) in respect of Western Power, a subsidiary (as defined in section 3 of the Act) of Western Power;
- (b) in respect of another body corporate, a body corporate that is related to the first-mentioned body by virtue of section 50 of the Corporations Law;

“response” in respect of an access application means the response given under regulation 8 (5);

“RTU” means a Remote Terminal Unit installed within a substation to enable monitoring and control of a facility from a control centre;

“SCADA” means Supervisory Control and Data Acquisition;

“sensitive information” has the meaning given in regulation 14 (2);

“spinning reserve” means the ability to immediately and automatically increase generation or reduce demand in response to a fall in frequency;

“supervising officers” means —

- (a) the directors and the chief executive officer of Western Power; and
- (b) the senior managers of Western Power whose duties include providing accounting, financial, audit or legal services, (by whatever name known);

“taxes” means taxes, levies, imposts, deductions, charges, withholdings and duties imposed by any authority (including stamp and transaction duties), together with any related interest, penalties, fines and expenses in connection with them, except if imposed on the overall net income of Western Power;

“Technical Code” means the Technical Code prepared by Western Power under regulation 26;

“transmission employee” means an employee or officer of Western Power who is engaged wholly or partly in those parts of Western Power’s business involving the granting of access to electricity transmission capacity or the planning, operation, maintenance, development or augmentation of the electricity transmission network;

“use of system services” means a network service provided to a user for use of the electricity transmission network for the transportation of electricity that can be reasonably allocated to a user on a locational basis;

“voltage control” means keeping network voltages within operational limits in normal operation and in the aftermath of trips by

automatic regulation of generation MVA output or by transmission voltage control equipment such as capacitor banks and automatic tap-changers;

“Western Power” means the Electricity Corporation established under section 4 of the Act.

Interpretation

4. Subject to the *Interpretation Act 1984*, these regulations must be interpreted in accordance with the following rules of interpretation, unless the contrary intention appears —

- (a) a reference in these regulations to a contract or another instrument includes a reference to any amendment, variation or replacement of it;
- (b) a reference to a person includes a reference to the person’s executors, administrators, successors, substitutes (including, without limitation, persons taking by novation) and assigns;
- (c) if an event must occur on a day which is not a business day then the event must occur on the next business day;
- (d) the symbol “ Σ ” requires a summation to be performed over the range of variables specified in respect of the algebraic terms specified;
- (e) all data which is to be utilised in calculations made under these regulations is to be utilised to the accuracy, in terms of a number of decimal places, to which it is given in these regulations;
- (f) all indices are to be calculated to 3 decimal places;
- (g) the calculation of a charge or fee is to be performed to the nearest cent;
- (h) any other calculation shall be performed to the accuracy, in terms of a number of decimal places, determined by Western Power in respect of all users;
- (i) if examples of a particular kind of conduct, thing or condition are introduced by the word **“including”**, then the examples are not to be taken as limiting the interpretation of that kind of conduct, thing or condition;
- (j) a connection is a user’s connection or a connection of a user if it is the subject of an access agreement between the user and Western Power; and
- (k) a reference to a half hour is a reference to a 30 minute period ending on the hour or on the half hour and, when identified by a time, means the 30 minute period ending at that time.

Electricity transmission network

5. (1) For the purposes of the definition of “electricity transmission system” in section 89 (1) of the Act, all parts of the system (in this regulation 5(1) called the “**system**”) operated by Western Power for transportation of electricity at nominal voltages of 66kV or higher and a nominal frequency of 50Hz are prescribed other than —

- (a) any part of the system that forms part of an exempt connection; and
- (b) any part of the system that is not owned or leased by Western Power.

(2) In these regulations, “**electricity transmission network**” means the parts of the system prescribed in subregulation (1).

(3) Subject to subregulation (4), Western Power must prepare and maintain an accurate description (including a geographical depiction) of the electricity transmission network.

(4) Western Power must prepare the initial description of the electricity transmission network under subregulation (3) as at 1 January 1997 no later than 31 March 1997.

(5) Western Power must supply a copy of the description of the electricity transmission network prepared and maintained under subregulation (3) to any person which requests a copy of it.

Reports and forecasts and prescribed fees

6. (1) Western Power must prepare the annual reports and forecasts required by clause 4 (1) of Schedule 5 to the Act no later than 31 May each year.

(2) Western Power must prepare the first annual report required by clause 4 (1) (c) of Schedule 5 to the Act on or before 31 March 1997.

(3) The fee prescribed for the purposes of clause 4 (2) of Schedule 5 to the Act is \$10,000.

(4) Western Power may reduce or waive, in whole or in part, the fee in the case of a particular person.

(5) For the purposes of clauses 4 (1), 6 (1) (d) and 6 (3) of Schedule 5 to the Act and these regulations, the prescribed fee is \$50.00.

PART 2 — ACCESS

Access procedure

7. The procedure to be followed under this Part is illustrated by the flow chart in Schedule 1.

Access application

8. (1) A person who is not an existing user and who wants Western Power to provide it with one or more access services must make an access application in accordance with this regulation.

(2) A person who is an existing user and who wants Western Power to provide it with one or more access services (including additional capacity) in addition to those which the user has access already must make an access application in accordance with this regulation.

(3) An access application may only be made for the provision of access services which the applicant wishes Western Power to commence to provide within 3 years of the date of the access application.

(4) An access application must contain the information listed in Part A of Schedule 2 and may specify that the applicant wishes Western Power to make a preliminary assessment of the access application.

(5) Western Power must give the applicant a written response within 20 business days after receiving the access application.

(6) A response in respect of an access application must include the following information:

- (a) the information listed in Part B of Schedule 2;
- (b) the period within which Western Power is able to make a preliminary assessment of the access application; and
- (c) whether Western Power is able to make an access offer to the applicant within 65 business days of receiving the access application, and, if not, an alternative period that is reasonable for making the access offer.

(7) The information provided under subregulation (6) (a) is indicative and is not binding on Western Power.

Provision and use of information in respect of an access application

9. (1) Western Power may request further information from an applicant.

(2) A request for further information under subregulation (1) must be in writing.

(3) Western Power may only request further information under subregulation (1) if the information requested is reasonably necessary in order to —

- (a) process the access application;
- (b) prepare a response;
- (c) carry out a preliminary assessment; or
- (d) make an access offer to provide access services, as the case requires.

(4) If —

- (a) Western Power makes a request under subregulation (1) in relation to an access application; and
- (b) the person to which the request has been made has not provided all the information requested within 15 business days of Western Power making the request or such longer time as Western Power and the person agree,

then the access application loses its priority for the purposes of regulation 13 and lapses.

(5) If an access application loses its priority under subregulation (4) and the person to which the request has been made subsequently provides all the information requested, then the priority of the access application for the purposes of regulation 13 is to be determined as if the access application had been received on the date on which that information is received by Western Power.

(6) An applicant, in making an access application and providing information under this Part must —

- (a) act in good faith; and
- (b) use reasonable endeavours to ensure that the access application and the information concerned are accurate and complete.

(7) If an applicant becomes aware of any material alteration to any information contained in or relevant to the access application, then the applicant must promptly notify Western Power in writing of that alteration.

(8) If Western Power receives a notice under subregulation (7) or otherwise becomes aware of any material alteration to any information contained in or relevant to an access application, then Western Power may, by written notice to the applicant —

- (a) extend the period within which Western Power must give the response under regulation 8 (5) or carry out the preliminary assessment and give the report under regulation 10 or make the access offer under regulation 11 (1) in respect of the access application (as the case requires), to such longer period as Western Power reasonably requires in order to do so; or

- (b) where the material alteration to information is such as to, in the reasonable opinion of Western Power, materially alter the access services requested by the access application, Western Power may reject the access application.

Preliminary assessment

10. (1) If an access application specifies that the applicant wishes Western Power to make a preliminary assessment of the access application, then Western Power must make that preliminary assessment and give the applicant a report of that preliminary assessment within the period for making the preliminary assessment specified in the response in respect of the access application.

(2) A report under subregulation (1) is indicative and is not binding on Western Power.

Access offer

11. (1) Subject to regulation 13, unless otherwise agreed by the applicant and Western Power, Western Power must make an access offer to provide to the applicant the access services requested in an access application —

- (a) within 65 business days of Western Power making the response in respect of the access application ; or
- (b) if a longer period for making the access offer is specified in that response, then within that longer period.

(2) If Western Power makes a request for information under regulation 9 (1) to an applicant, then the period referred to in subregulation (1) ceases to run until the information requested by Western Power is received by Western Power.

(3) An access offer must —

- (a) relate to the transportation of electricity between a specified entry point or entry points and a specified exit point or exit points;
- (b) subject to paragraphs (e) and (f), be for the access services requested in the access application in response to which it is made and be consistent with any technical parameters specified in that access application;
- (c) be in writing and contain the proposed terms and conditions on which Western Power will provide the access services, including terms and conditions of the kind set out in Schedule 3;
- (d) specify how the charges for the access services requested in the access application are to be calculated and how the fees used in calculating those charges are to be determined;
- (e) be consistent with the Act, these regulations and the Technical Code; and

- (f) to the extent that it contains terms and conditions, or sets fees and charges other than those in the fee schedule, be fair and reasonable and consistent with good electricity industry practice.

(4) If Western Power believes that the requirements of the person making an access application would be met by Western Power providing one or more different access services (called the “**alternative services**”) to those requested in the access application, then Western Power may, in addition, make an offer in accordance with subregulation (3) (a), (c), (d), (e) and (f) in relation to those alternative services.

(5) To avoid doubt —

- (a) subject to subregulation (3) (b), an access offer may contain terms and conditions which differ from those contained in the relevant access application;
- (b) an access agreement may contain terms and conditions which differ from those contained in the relevant access offer; and
- (c) subject to regulation 46, an access offer and an access agreement may contain terms and conditions (including terms and conditions related to fees and charges) which differ from those contained in another access offer or access agreement for any reason, including —
 - (i) to reflect the provisions of these regulations;
 - (ii) the quantities in which the relevant access services are to be supplied or are supplied;
 - (iii) because of the different nature of the plant or equipment required to provide the relevant access services;
 - (iv) the geographical and electrical location of the relevant connections;
 - (v) the periods for which the relevant access services are supplied;
 - (vi) the electricity transmission capacity required to provide the relevant access services;
 - (vii) the characteristics of the relevant load or generation; and
 - (viii) the performance characteristics at which the relevant access services are provided.

(6) If —

- (a) Western Power makes an access offer to an applicant; and
- (b) Western Power and the applicant have not entered into an access agreement in relation to the access services which are the subject of the access offer within the relevant period determined in accordance with subregulation (7),

then the access offer expires and the access application loses its priority for the purposes of regulation 13 and lapses.

(7) The relevant period for the purposes of subregulation (6) is a period of 20 business days (or such longer period as Western Power may agree with the applicant) following the day on which the access offer is made.

(8) The provision of access services by Western Power under an access agreement is subject to the following conditions precedent:

- (a) Western Power or the user gaining environmental and planning approvals for any necessary augmentation to the electricity transmission network or the design, construction, installation and commissioning of any exempt connection contemplated by the access agreement;
- (b) Western Power gaining the approval of the Minister under section 34 of the Act, if required; and
- (c) the entry into of a connection agreement with Western Power by such of the controllers as Western Power requires in relation to the connection (in form and substance satisfactory to Western Power, acting reasonably), if the person with which Western Power enters into the access agreement is not the controller or is not the only controller in respect of a connection which is the subject of the access agreement.

(9) If —

- (a) Western Power makes an access offer; and
- (b) one or more of the connections to which the access offer relates is an exempt connection,

then the access offer must —

- (c) inform the applicant that the applicant may choose not to have the connection services at the exempt connection provided by Western Power; and
- (d) contain the proposed terms and conditions on which Western Power will —
 - (i) if the applicant chooses not to have Western Power provide the connection services at the exempt connection, augment the electricity transmission network to the extent necessary to permit the transfer of electricity between the electricity transmission network and the exempt connection; or
 - (ii) if the applicant chooses to have Western Power provide the connection services at the exempt connection, augment the electricity transmission network and provide the connection services at the exempt connection,

including terms and conditions relating to the design, construction, installation, commissioning and testing of the augmentation or the exempt connection, as the case requires.

Capital contributions

12. (1) For the purposes of this regulation any augmentation required by clause 5 of Schedule 5 to the Act is not commercially viable, if in Western Power's reasonable opinion it could not recover the costs, the capital investment and a reasonable rate of return as contemplated by clause 5 of Schedule 5, in respect of the augmentation without materially increasing the charges payable by existing users.

(2) If —

- (a) Western Power makes an access offer;
- (b) the access offer contemplates the provision of connection services using an existing connection;
- (c) Western Power is not able to reliably provide the connection services which are the subject of the access offer without augmenting the existing connection; and
- (d) the augmentation concerned is not commercially viable without any capital contribution,

then Western Power may include in the access offer a condition that the user makes a capital contribution towards the augmentation in accordance with this regulation.

(3) If —

- (a) Western Power makes an access offer;
- (b) Western Power is not able to reliably provide the access services which are the subject of the access offer without augmenting the electricity transmission network to either transport electricity on the network or to link the network to an exempt connection; and
- (c) the augmentation concerned is not commercially viable without any capital contribution,

then Western Power may include in the access offer a condition that the user makes a capital contribution towards the augmentation in accordance with this regulation.

(4) If subregulation (2) or (3) permit Western Power to include in an access offer a requirement that the user makes a capital contribution, then —

- (a) the total amount of the capital contribution must not exceed the amount that would be required to make the augmentation commercially viable on the basis that the capital contribution is a charge for the provision of the relevant access services; and
- (b) the manner in which and time at which the capital contribution is to be made must be set out in the access offer.

- (5) If —
- (a) Western Power makes an access offer; and
 - (b) the access offer contemplates the provision of connection services or ancillary services using an exempt connection,

then Western Power may include in the access offer a condition that the user makes a capital contribution in respect of the capital investment associated with designing, constructing, installing and commissioning the exempt connection or with providing those ancillary services (as the case requires) and a rate of return on that investment and, if so, the capital contribution must be taken into account in the determination of fees for providing those connection services or those ancillary services (as the case requires) set out in the access offer.

First come first served

13. (1) If —
- (a) Western Power has received 2 or more access applications; and
 - (b) Western Power believes there is not sufficient spare capacity to provide the access services the subject of all of those access applications or that it does not have sufficient resources (including personnel) to process all of those access applications at the same time,

then Western Power must process those access applications and make access offers in an order which reflects the priority of those access applications as determined in accordance with these regulations.

(2) An access application (in this subregulation called the **“first access application”**) received by Western Power has priority over all later access applications received by Western Power unless the first access application loses its priority in accordance with these regulations.

(3) The applicant making an access application may withdraw that access application by written notice given to Western Power and if an applicant does so, then the access application loses its priority and lapses.

(4) If Western Power rejects an access application under these regulations, then the access application loses its priority for the purposes of this regulation and lapses.

(5) If an access offer is rejected prior to the end of the relevant period determined in accordance with regulation 11 (7), then the access application in response to which the access offer was made loses its priority and lapses.

(6) Nothing in this regulation prevents Western Power from processing more than one application at the same time.

(7) Notwithstanding any other provision of these regulations, if an access application lapses, then Western Power is not required to take any further action in relation to the access application (including making a preliminary assessment of the access application and giving a report under regulation 10 or making an access offer under regulation 11 in relation to the access application).

Confidentiality

14. (1) In this regulation —

“access information”, in respect of a person, means all information contained in the following documents:

- (a) an access application made by that person;
- (b) the response by Western Power to the access application made by that person;
- (c) the report of a preliminary assessment under regulation 10 (1) of that access application;
- (d) the access offer made to that person in respect of the access services which are the subject of the access application;
- (e) any information provided by that person in response to a request under regulation 9 in relation to the access application;
- (f) in respect of a person which takes electricity from the electricity transmission network, the quantity taken; and
- (g) in respect of a person which transfers electricity to the electricity transmission network, the quantity transferred.

(2) An item of access information is sensitive information until an access agreement is entered into in respect of the access services the subject of the relevant access application, at which time it ceases to be sensitive information.

(3) Western Power must use all reasonable endeavours to —

- (a) keep confidential any access information which comes into the possession or control of Western Power or of which Western Power becomes aware; and
- (b) ensure that the only officers and employees of Western Power who have possession of access information are those permitted by subregulation (4).

(4) This regulation does not prevent —

- (a) the disclosure of an item of sensitive information to —
 - (i) a transmission employee;
 - (ii) a supervising officer who requires the item for the purposes of these regulations or to discharge his or her duties; or
 - (iii) a legal or other professional adviser, auditor or other consultant of Western Power who requires the item for the purpose of advising Western Power;

- (b) the disclosure of an item of access information that is not sensitive information to —
 - (i) an employee or officer of Western Power or a related body corporate of Western Power; or
 - (ii) a legal or other professional adviser, auditor or other consultant of Western Power or a related body corporate of Western Power who requires the item for the purpose of advising Western Power or that related body corporate;
- (c) the disclosure of an item of information to any regulatory authority having jurisdiction over Western Power; and
- (d) the disclosure, use or reproduction of an item of information —
 - (i) if the item is at the time generally and publicly available other than as a result of a breach of this regulation by Western Power;
 - (ii) with the consent of the person or persons which would be affected by the disclosure, use or reproduction of that item;
 - (iii) to the extent required by law;
 - (iv) if required in connection with legal proceedings, arbitration, expert determination or other dispute resolution mechanism relating to these regulations, or for the purpose of advising a person in relation to any such matter;
 - (v) that is trivial in nature;
 - (vi) if required to protect the safety of personnel, plant or equipment;
 - (vii) by or on behalf of Western Power to the extent reasonably required in connection with Western Power's financing arrangements, investment in Western Power or a disposal of Western Power's assets;
 - (viii) of an historical nature in connection with the preparation and giving of reports under these regulations and the Technical Code;
 - (ix) as an unidentifiable component of an aggregate sum.

Access agreements

15. (1) Western Power is taken to have given a person a grant of access under clause 2 of Schedule 5 to the Act when Western Power and the person enter into an access agreement.

(2) Western Power is taken to have given itself a grant of access under clause 2 of Schedule 5 to the Act and to have entered into an access agreement on the terms and conditions set out in an access offer when the general manager

of a division of Western Power responsible for trading of electricity (or a delegate of that general manager) notifies in writing the general manager of the division of Western Power responsible for operating the electricity transmission network (or a delegate of that general manager) that Western Power as a user agrees to the terms of the access offer.

(3) To avoid doubt, the general manager of a division of Western Power responsible for trading of electricity (or a delegate of that general manager) and the general manager of the division of Western Power responsible for operating the electricity transmission network (or a delegate of that general manager) may, subject to these regulations, vary the terms of a deemed access agreement under subregulation (2).

Cost of processing access applications

16. An applicant must, when requested by Western Power, reimburse Western Power for all reasonable expenses incurred by Western Power by reason of processing the access application, making an access offer under regulation 11 and negotiating an access agreement.

PART 3 — PRICING, PRICES AND CHARGES

Pricing methods and prices

17. Before Western Power adopts pricing methods under clause 6 (2) of Schedule 5 to the Act or determines prices to be paid by users, it must —

- (a) provide the Coordinator of Energy with such information relating to the pricing methods or prices as the Coordinator reasonably requires for the purpose of performing his or her functions under section 6 of the *Energy Coordination Act 1994*; and
- (b) take into consideration any recommendations made by the Coordinator as to those pricing methods or prices.

Charges

18. (1) The charges that a user must pay Western Power for access services under an access agreement are calculated in accordance with the access agreement and the fees used in calculating those charges are determined in accordance with the access agreement.

(2) If, as a result of an imposition of a tax or an increase in the amount of a tax or the passing of a new law or an amendment to an existing law after the date of an access agreement, there is any increase in the cost to Western Power of providing the access services under the access agreement which was not contemplated at the time the access agreement was entered into, then the user must pay Western Power such additional amounts as are necessary to compensate Western Power for the increased cost.

PART 4 — BALANCING

Standby arrangements

19. (1) A user must keep Western Power informed of its arrangements for the provision of standby power and must promptly provide to Western Power such information concerning those arrangements as Western Power reasonably requests.

(2) If —

- (a) a user has an arrangement with a person other than Western Power in relation to the provision of electricity or standby power to the user; and
- (b) the user becomes aware that that arrangement has terminated or changed or will terminate (other than by expiration of the term of the arrangement) or change in a material particular,

then the user must promptly notify Western Power accordingly and provide to Western Power details of any substitute arrangements in relation to the provision of electricity or standby power to be put in place by the user.

Loss factors

20. (1) The loss factor for a connection is the factor set out in respect of that connection in Schedule 4.

(2) If an exempt connection is commissioned and is not listed in Schedule 4 then the loss factor in respect of the exempt connection is equal to the loss factor in respect of the connection located electrically closest to the exempt connection.

Interpretation of regulations 22, 23 and 25

21. (1) In this regulation and regulations 22, 23 and 25 —

- (a) the “**group of connections**” in respect of a user’s access agreement consists of the entry points and exit points specified in the access agreement and the entry points from which standby power is being supplied to one or more of those connections;
- (b) if Western Power is providing standby power under an arrangement with a user, then that standby power is to be taken to have been supplied at the connection for Muja power station;
- (c) the “**energy entry amount**” for the group of connections in respect of an access agreement for a period is determined by applying the following formula:

$$EEA = \sum_{j=1}^{j=n} (ETEntry_j \times LFEntry_j)$$

where —

EEA (in kWh) is the energy entry amount for the group of connections in respect of the access agreement for the period;

ETEntry_j (in kWh) is the quantity of electricity transferred at entry point_j to the electricity transmission network during the period under the access agreement;

LFEntry_j (a rate) is the loss factor for entry point_j determined under regulation 20;

the variable “j” represents an entry point which is one of the group of connections;

the variable “n” represents the number of entry points in the group of connections;

- (d) the **“energy exit amount”** for the group of connections in respect of a user’s access agreement for a period is determined by applying the following formula:

$$EEEXA = \sum_{i=1}^{i=n} (ETExit_i \times LFExit_i)$$

where —

EEEXA (in kWh) is the energy exit amount for the group of connections in respect of the access agreement for the period;

ETExit_i (in kWh) is the quantity of electricity transferred at exit point_i from the electricity transmission network during the period under the access agreement;

LFExit_i (a rate) is the loss factor for exit point_i determined under regulation 20;

the variable “i” represents an exit point which is one of the group of connections;

the variable “n” represents the number of exit points in the group of connections;

- (e) the **“permitted tolerance”** in respect of a group of connections is equal to the greater of —

(i) an amount expressed in kWh equal to 3% of the relevant amount in respect of the group of connections; and

(ii) 500kWh;

and

- (f) the “**relevant amount**” (expressed in kWh) in respect of a group of connections is equal to the aggregate of the contract maximum demand figures for all of the exit points in respect of the group of connections divided by 2.

Balancing

22. (1) A user must use reasonable endeavours to ensure that the energy entry amount for the group of connections in respect of each of its access agreements for each half hour is equal to the energy exit amount for the group of connections for that half hour.

(2) For the purposes of subregulation (3), the “**revised net amount**” for the group of connections in respect of a user’s access agreement for a half hour is an amount equal to the energy entry amount for the group of connections for the half hour minus the energy exit amount for the group of connections for the half hour, except where —

- (a) that amount is positive and is equal to or less than the permitted tolerance for the group of connections; or
- (b) that amount is negative and is greater than or equal to zero minus the permitted tolerance,

in which case, the revised net amount for the group of connections is equal to zero.

(3) The half hourly out of balance charge in respect of an access agreement for a half hour is determined by applying the following formula:

$$\text{HOBC} = \text{RNA} \times \text{HOBFC} \times \frac{1}{100}$$

where —

HOBC (in \$) is the half hourly out of balance charge in respect of the access agreement for the half hour;

RNA (in kWh) —

- (a) if the revised net amount for the group of connections in respect of the access agreement for the half hour is positive, then is equal to that revised net amount minus the permitted tolerance for the group of connections; or
- (b) if the revised net amount for the group of connections in respect of the access agreement for the half hour is negative, then is equal to that revised net amount plus the permitted tolerance for the group of connections;

HOBFB (in ¢/kWh) is —

- (a) if RNA is negative, then the half hourly out of balance (sell) fee set out in the fee schedule for the financial year in which the half hour falls applicable to the half hour; or
- (b) if RNA is positive, then the half hourly out of balance (buy) fee set out in the fee schedule for the financial year in which the half hour falls applicable to the half hour.

(4) If the sum of the half hourly out of balance charges for the half hours in a month is negative, then an amount equal to -1 multiplied by that sum is payable by the user to Western Power, except if the user is Western Power.

(5) If the sum for the half hourly out of balance charges for the half hours in a month is positive, then an amount equal to that sum is payable by Western Power to the user, except if the user is Western Power.

(6) For the purposes of subregulation (7), the **“adjusted net amount”** for the group of connections in respect of a user’s access agreement for a half hour is an amount equal to the energy entry amount for the group of connections for the half hour minus the energy exit amount for the group of connections for the half hour, except where —

- (a) the result is positive and is greater than the permitted tolerance for the group of connections, in which case the adjusted net amount for the group of connections is equal to that permitted tolerance; or
- (b) the result is negative and is less than zero minus that permitted tolerance, in which case the adjusted net amount for the group of connections is equal to zero minus that permitted tolerance.

(7) The out of balance charge in respect of an access agreement for a month is determined by applying the following formula:

$$OBC = ANA \times OBF \times \frac{1}{100}$$

where —

OBC (in \$) is the out of balance charge in respect of the access agreement for the month;

ANA (in kWh) is the sum of the adjusted net amounts for the group of connections in respect of the access agreement for all of the half hours falling within the month;

OBF (in ¢/kWh) is determined as follows:

- (a) if ANA is negative, then OBF is the out of balance (sell) fee set out in the fee schedule for the financial year in which the month falls;

- (b) if ANA is positive, then OBF is the out of balance (buy) fee set out in the fee schedule for the financial year in which the month falls.

(8) If the out of balance charge for a month is negative, then the amount equal to -1 multiplied by that out of balance charge is payable by the user to Western Power, except if the user is Western Power.

(9) If the out of balance charge for a month is positive, then an amount equal to that out of balance charge is payable by Western Power to the user, except if the user is Western Power.

Excess standby generation charge

23. (1) In this regulation —

- (a) the “**demand exit rate**” for the group of connections in respect of a user’s access agreement for a half hour is determined by applying the following formula:

$$\text{DERA} = \sum_{i=1}^{i=n} (\text{PTExit}_i \times \text{LFExit}_i)$$

where —

DERA (in kW) is the demand exit rate for the group of connections in respect of the access agreement for the half hour;

PTExit_i (in kW) is the average rate at which electricity is transferred at exit point_i from the electricity transmission network during the half hour under the access agreement;

LFExit_i (a rate) is the loss factor for exit point_i determined under regulation 20;

the variable “i” represents an exit point which is one of the group of connections;

the variable “n” represents the number of exit points in the group of connections;

- (b) the “**demand entry rate**” for the group of connections in respect of an access agreement for a half hour is determined by applying the following formula:

$$\text{DER} = \sum_{j=1}^{j=n} (\text{PTEEntry}_j \times \text{LFEntry}_j)$$

where —

DER (in kW) is the demand entry rate for the group of connections in respect of the access agreement for the half hour;

PTEntry_j (in kW) is the average rate at which electricity is transferred at entry point_j to the electricity transmission network during the half hour under the access agreement;

LFEntry_j (a rate) is the loss factor for entry point_j, determined under regulation 20;

the variable “j” represents an entry point which is one of the group of connections;

the variable “n” represents the number of entry points in the group of connections;

- (c) the **“standby generation reservation”** (in kW) for a group of connections is the aggregate rate at which Western Power may be required to transfer standby power to the connections in the group of connections under the access agreement;
- (d) the **“excess demand”** (in kW) in respect of a group of connections for a half hour is equal to —
 - (i) the demand exit rate for the group of connections for the half hour;

minus

 - (ii) the demand entry rate for the group of connections for the half hour;

minus

 - (iii) the standby generation reservation for the group of connections for the half hour,

but if the result of this calculation is negative, then the excess demand in respect of the group of connections for the half hour is zero;
- (e) if the excess demand in respect of a group of connections for a half hour is not zero, then an excess demand period in respect of the group of connections commences at the start of that half hour, except if that half hour already falls within an excess demand period in respect of the group of connections;
- (f) each excess demand period in respect of a group of connections includes 336 half hours.

(2) If an excess demand period in respect of a group of connections in respect of a user’s access agreement commences during a month, then the excess

standby generation capacity charge payable by the user in respect of the group of connections for the month is determined by applying the following formula:

$$\text{ESCC} = \sum_{i=1}^{i=n} (E_i \times \text{ESGF})$$

where —

ESCC (in \$) is the excess standby generation capacity charge in respect of the group of connections for the month;

E_i (in kW) is the highest excess demand in respect of the group of connections for any half hour falling within excess demand period;

ESGF (in \$/kW) is the excess standby generation capacity fee set out in the fee schedule for the financial year in which the month falls;

the variable “i” represents an excess demand period in respect of the group of connections that commenced during the month;

the variable “n” represents the number of excess demand periods in respect of the group of connections that commenced during the month.

Excess network usage charge

- 24.** (1) In this subregulation and subregulation (2) —
- (a) the “**excess amount**” in respect of an entry point for a half hour is equal to —
- (i) the average aggregate rate (in kW) at which the generating units connected at the entry point transferred electricity to the electricity transmission network during that half hour;
- minus
- (ii) the aggregate of the declared sent-out capacity figures (in kW) for those generating units,
- but if the result of this calculation is negative, then the excess amount in respect of the entry point for the half hour is zero;
- (b) if the excess amount in respect of an entry point for a half hour is more than zero, then an excess period in respect of the entry point commences at the start of that half hour, except if that half hour already falls within an excess period in respect of the entry point; and
- (c) each excess period in respect of an entry point includes 336 half hours.

(2) If an excess period in respect of a user's entry point commences during a month, then the excess network usage charge payable by the user in respect of the entry point for the month is determined by applying the following formula:

$$\text{ENUC} = \sum_{i=1}^{i=n} (\text{E}_i \times \text{USF} \times \text{EF})$$

where —

ENUC (in \$) is the excess network usage charge in respect of the entry point for the month;

E_i (in kW) is the highest excess amount for any of the half hours which fall within excess period;

USF (in \$/kW) is the use of system fee in respect of the entry point determined in accordance with the user's access agreement;

EF (a rate) is the excess network usage factor set out in the fee schedule for the financial year in which the month falls;

the variable "i" represents an excess period in respect of the entry point which commences during the month;

the variable "n" represents the number of excess periods in respect of the entry point which commence during the month.

(3) In this subregulation and subregulation (4) —

(a) the "**excess rate**" in respect of an exit point for a half hour is equal to —

(i) the average rate (in kW) at which electricity is transferred from the electricity transmission network at the exit point during that half hour;

minus

(ii) the contract maximum demand for the exit point,

but, if the result of this calculation is negative, then the excess rate in respect of the exit point for the half hour is zero;

(b) if the excess rate in respect of an exit point for a half hour is more than zero, then an excess demand period in respect of the exit point commences at the start of that half hour, except if that half hour already falls within an excess demand period in respect of the exit point; and

(c) each excess demand period in respect of an exit point includes 336 half hours.

(4) If an excess demand period in respect of a user's exit point commences during a month, then the excess network usage charge payable by the user in respect of the exit point for the month is determined by applying the following formula:

$$\text{ENUC} = \sum_{i=1}^{i=n} (E_i \times (\text{USF} + \text{CSF}) \times \text{EF})$$

where —

ENUC (in \$) is the excess network usage charge in respect of the exit point for the month;

E_i (in kW) is the highest excess rate for any of the half hours which fall within excess demand period $_i$;

USF (in \$/kW) is the use of system fee in respect of the exit point determined in accordance with the user's access agreement;

CSF (in \$/kW) is the common service fee determined in accordance with the user's access agreement;

EF (a rate) is the excess network usage factor set out in the fee schedule for the financial year in which the month falls;

the variable "i" represents an excess demand period in respect of the exit point which commences during the month;

the variable "n" represents the number of excess demand periods in respect of the exit point which commence during the month.

Other consequences of being out of balance

25. (1) For the purposes of this regulation, a user is materially out of balance in respect of an access agreement for a half hour if the difference between —

- (a) the energy entry amount for the group of connections in respect of that access agreement for the half hour; and
- (b) the energy exit amount for the group of connections for the half hour,

is more than an amount equal to 3% of the relevant amount for the group of connections.

(2) If Western Power becomes aware that —

- (a) a user is materially out of balance in respect of one of its access agreements for a period; and
- (b) as a result, the operation of the electricity transmission network is likely to be materially adversely affected or persons with electrical

installations connected to the electricity transmission network are likely to be materially adversely affected,

then, subject to subregulation (3), Western Power may interrupt or curtail the transfer of electricity to or from one or more of the group of connections in respect of that access agreement in order to remove or reduce that material adverse effect.

(3) Western Power must give notice to a user of its intention to exercise its powers under subregulation (2) in relation to a connection of the user a reasonable time before doing so.

(4) This regulation does not limit regulations 29 or 30.

PART 5 — TECHNICAL REGULATION**Technical Code**

26. (1) Western Power must prepare and make publicly available a Technical Code on or before 31 March 1997.

(2) Western Power may from time to time thereafter prepare and make publicly available amendments to the Technical Code but before doing so Western Power must provide details of the proposed amendment to users and give users a reasonable period of time within which to comment on the proposed amendments.

(3) The Technical Code must contain the following —

- (a) performance standards in respect of service quality parameters in relation to the electricity transmission network;
- (b) the technical requirements which apply to the design or operation of plant or equipment connected to the electricity transmission network;
- (c) requirements relating to the operation of the electricity transmission network (including the operation of the electricity transmission network in emergency situations or where there is a possibility of a person suffering injury);
- (d) obligations on users to test plant or equipment in order to demonstrate compliance with the technical requirements referred to in paragraph (b) and the operational requirements referred to in paragraph (c);
- (e) procedures which apply if Western Power believes that a user's plant or equipment does not comply with the requirements of the Technical Code;
- (f) procedures relating to the inspection of a user's plant or equipment;
- (g) procedures which apply to system tests carried out in relation to all or a part of the electricity transmission network;
- (h) requirements which relate to control and protection settings for plant or equipment connected to the electricity transmission network;
- (i) procedures which apply in the case of the commissioning and testing of new plant or equipment connected to the electricity transmission network;
- (j) procedures which apply to the disconnection of plant or equipment from the electricity transmission network;
- (k) procedures relating to the operation of generating units and other plant or equipment as part of or connected to the electricity transmission network (including the giving of dispatch instructions and compliance with those instructions);

- (l) metering requirements in relation to connections;
- (m) the information which each user is required to provide Western Power in relation to the operation of plant or equipment connected to the electricity transmission network at the user's connections and how and when that information is to be provided;
- (n) requirements in relation to under frequency load shedding with which users must comply; and
- (o) any other matters relating to the power system (including the electricity transmission network) or plant or equipment connected directly or indirectly to the electricity transmission network.

(4) Subject to subregulation (10), Western Power and all users must use all reasonable endeavours to comply with the Technical Code.

(5) Subject to subregulation (10), if the user in respect of a connection is not the controller, or is not the only controller, of the plant or equipment connected at the connection, then the user must use all reasonable endeavours to ensure that all of the controllers of that plant or equipment comply with these regulations and the Technical Code in respect of the plant or equipment.

(6) A user may apply to Western Power for a determination that a specified provision or provisions of the Technical Code not apply, or apply with variations, to the user.

(7) If Western Power receives an application under subregulation (6), then Western Power may determine that the provisions of the Technical Code are to apply in relation to the user (either generally or in a particular case or class of cases) as if a specified provision or provisions were omitted or were modified or varied in a specified manner.

(8) A determination under subregulation (7) must be consistent with good electricity industry practice.

(9) A determination under subregulation (7) must —

- (a) be in writing to the user or users affected by the determination;
- (b) specify the period for which the determination applies.

(10) If Western Power makes a determination under subregulation (7), then the Technical Code applies to a user the subject of the determination in the manner contemplated by the determination during the period for which the determination applies.

(11) On or before 30 September each year, Western Power must make available to users a report providing details of any determination made under subregulation (7) during the preceding financial year.

Network planning criteria

27. (1) Western Power must prepare criteria relating to the planning of the electricity transmission network on or before 31 March 1997.

(2) The network planning criteria must be consistent with the Technical Code and must contain the following —

- (a) contingency criteria;
- (b) steady-state criteria;
- (c) stability criteria, including —
 - (i) transient stability criteria;
 - (ii) dynamic stability criteria;
 - (iii) voltage stability criteria; and
 - (iv) frequency stability criteria;
- (d) quality of supply criteria, including —
 - (i) voltage limits;
 - (ii) voltage fluctuation criteria;
 - (iii) system frequency criteria;
 - (iv) harmonic voltage criteria;
 - (v) harmonic current criteria;
 - (vi) voltage unbalance criteria; and
 - (vii) electro-magnetic interference criteria;
 and
- (e) environmental criteria.

(3) Western Power may from time to time amend the network planning criteria but before doing so Western Power must provide details of the proposed amendment to users and give users a reasonable period of time within which to comment on the proposed amendment.

(4) Western Power must provide a copy of the network planning criteria (as amended) to any user or applicant who requests a copy of it.

Good electricity industry practice

28. (1) Good electricity industry practice means the exercise of that degree of skill, diligence, prudence and foresight that reasonably would be expected from a significant proportion of operators of facilities forming part of a power system for the generation, transmission or supply of electricity under conditions comparable to those applicable to the relevant facility consistent with applicable laws, these regulations, the Technical Code, licences, codes, reliability, safety and environmental protection.

(2) The determination of comparable conditions for the purposes of subregulation (1) is to take into account factors such as the relative size, function, age and technological status of the relevant facility and the applicable laws, these regulations, the Technical Code, licences and codes.

(3) Western Power must comply with good electricity industry practice when providing access services and in planning, operating, maintaining, developing and augmenting the electricity transmission network.

(4) A user must comply with good electricity industry practice in operating, maintaining, constructing and commissioning plant or equipment connected to the electricity transmission network or in transferring electricity to or taking electricity from the electricity transmission network.

Interruption and curtailment powers

29. (1) Subject to subregulation (2), Western Power may interrupt or curtail the transfer of electricity to or from a connection or the provision of an access service in respect of a connection to the extent, and for such period of time, as Western Power considers is necessary —

- (a) to carry out planned augmentation, maintenance, testing or repair of that part of the electricity transmission network which has the ability to transfer electricity to or from the connection or the plant or equipment used to provide the access service in respect of the connection;
- (b) to carry out unplanned maintenance, testing or repair of that part of the electricity transmission network which has the ability to transfer electricity to or from the connection or the plant or equipment used to provide the access service in respect of the connection, if Western Power considers that doing so is necessary to avoid injury to any person or material damage to any property or the environment;
- (c) in the event of breakdown of or damage to that part of the electricity transmission network which has the ability to transfer electricity to or from the connection or the plant or equipment used to provide the access service in respect of the connection which affects Western Power's ability to transfer electricity to or from the connection or provide the access service; or
- (d) if a *force majeure* event occurs which affects Western Power's ability to transfer electricity to or from the connection or to provide the access service.

(2) Western Power must —

- (a) give a user at least 10 business days' prior notice of any planned augmentation, maintenance, testing or repair that will require interruption to or curtailment of the transfer of electricity to or from, or the provision of an access service to, one or more of the user's connections under these regulations and must liaise with the user concerning the timing of that planned augmentation, maintenance, testing or repair; and

- (b) use reasonable endeavours to promptly notify a user of any unplanned interruptions to or curtailments of the transfer of electricity to or from, or the provision of an access service to, one or more of the user's connections under these regulations.

(3) Subject to subregulation (2), Western Power has no responsibility to inform any person of any interruption or curtailment to the transfer of electricity to or from, or the provision of an access service to, a connection.

(4) If Western Power notifies a user of any interruption to or curtailment of the transfer of electricity to or from, or the provision of an access service to, a connection (under this regulation or otherwise), then the user must —

- (a) comply with any reasonable requirements concerning the interruption or curtailment set out in the notice; and
- (b) if the connection is an exit point, must use all reasonable endeavours to ensure that the persons taking a supply of electricity through the connection also comply with those requirements.

Safety and security of electricity transmission network

30. (1) If Western Power is satisfied that it is necessary so to do for reasons of public safety or the security of the electricity transmission network, then Western Power may direct a user to do any one or more of the following:

- (a) establish or remove a connection;
- (b) disconnect a connection;
- (c) to switch off a generator;
- (d) to call plant or equipment into service;
- (e) to take plant or equipment out of service;
- (f) to commence operation of any plant or equipment or maintain, increase or reduce generation or absorption of active or reactive power output by any plant or equipment;
- (g) to shut down or vary operation of any plant or equipment;
- (h) to shed or restore load; or
- (i) to do any other act or thing necessary to be done.

(2) A direction under subregulation (1) must specify the period within which the direction must be complied with and for how long the direction must be complied with.

(3) A direction under subregulation (1) must be recorded by Western Power.

(4) If a person (in this regulation called the “**first person**”) is directed to do something under subregulation (1) but does not comply with the direction, then Western Power may authorise a Western Power employee or another person

to carry out that direction and the first person must do all such things as the first person is requested by the authorised person to do in order to assist the authorised person to carry out that direction.

(5) Regulations 25 and 29 and this regulation do not limit any power or right conferred by any other law or by agreement on Western Power.

Operation, maintenance and extension planning

31. (1) The purpose of this regulation is to ensure that, so far as possible, outages of plant or equipment forming part of, or connected to, the electricity transmission network are coordinated.

(2) On or before 31 March 1997 and 30 September each year, each user must provide to Western Power —

- (a) a maintenance schedule in respect of the plant and equipment connected at each of its connections for the following financial year; and
- (b) a non-binding indicative planned maintenance plan in respect of the plant and equipment connected at each of its connections for each of the 2 financial years following the financial year to which the maintenance schedule provided under paragraph (a) relates.

(3) A user must provide Western Power with any information that Western Power reasonably requests concerning maintenance of plant and equipment connected at the user's connections.

(4) A user must ensure that a maintenance schedule provided by the user under subregulation (2) is complied with, unless otherwise agreed with Western Power.

(5) A maintenance schedule or a maintenance plan must —

- (a) specify the dates and duration of planned outages for the relevant plant or equipment which may have an impact on the electricity transmission network;
- (b) specify the work planned to be carried out during each such outage;
- (c) be in writing in substantially the form requested by Western Power; and
- (d) be consistent with good electricity industry practice.

(6) If a user becomes aware that a maintenance plan provided by the user under subregulation (2) in respect of one of its connections will not be complied with, then the user must promptly notify Western Power.

Information required to prepare annual reports

32. (1) Each user must, on or before 31 July in each year, provide Western Power with such electricity generation and load forecast information in relation

to each of its connections as is reasonably required by Western Power to enable Western Power to comply with its obligations under clause 4 (1) of Schedule 5 to the Act.

(2) Each user must use reasonable endeavours to provide accurate and complete information under subregulation (1).

Augmentation of the electricity transmission network

33. (1) Without limiting Western Power's obligations under the Act, any proposal to augment the electricity transmission network must be consistent with the network planning criteria to the extent that Western Power reasonably believes the network planning criteria are applicable in the circumstances.

(2) Subject to regulation 14, if Western Power believes that it is necessary or desirable to augment the electricity transmission network, then Western Power must consult with any person who is —

- (a) a user or who has made an access application; and
- (b) in Western Power's opinion, likely to be materially affected by the proposed augmentation.

PART 6 — ACCESS TERMS

Reasonable endeavours

34. Notwithstanding the terms of any access agreement, an obligation on Western Power to provide access services or to ensure service quality parameters in relation to the electricity transmission network is to be read and construed as an obligation to use all reasonable endeavours to provide those services or ensure those parameters.

Force majeure and interruption

35. (1) A *force majeure* event in respect of a party to an access agreement or a person to which these regulations apply means any event outside the party's control, including —

- (a) any act of God, lightning, earthquake, storm, fire, flood, subsidence, land slide, mud slide, wash-out, explosion or natural disaster;
- (b) any insurrection, revolution or civil disorder, act of public enemies, malicious damage, sabotage, vandalism, war (whether declared or undeclared) or a military operation, blockade or riot;
- (c) any determination, award or order of any court or tribunal, or any regulatory authority or the award of any arbitrator;
- (d) any act or omission of government or any government or regulatory department, body, instrumentality, ministry, agency, fire brigade or any other authority other than Western Power or the user (including restraint, expropriation, prohibition, intervention, direction or embargo);
- (e) any inability or delay in obtaining any governmental, quasi-governmental or regulatory approval, consent, permit, licence or authority;
- (f) any industrial disputes of any kind, strike, lock-out, ban, limitation or other industrial disturbances;
- (g) any significant plant or equipment failure which could not have been avoided by the exercise of good electricity industry practice;
- (h) where the person is party to an access agreement, any act or omission of any person with facilities connected to the electricity transmission network which frustrates the party's ability to perform its obligations under the access agreement;
- (i) any application of any law of the Commonwealth, any Commonwealth authority, the State, any State authority or any local government.

(2) If a user, Western Power or a person who makes an access application (called the **"affected person"**) is unable wholly or in part to perform on time and as required any obligation under the access agreement or these regulations

(other than an obligation to pay money) because of the occurrence of a *force majeure* event, then, subject to this regulation, that obligation (called the “**affected obligation**”) is suspended to the extent that and for so long as the affected person’s ability to perform the affected obligation is affected by that *force majeure* event.

(3) Without limiting subregulation (2), Western Power’s obligation to transfer electricity to or from a connection by means of the electricity transmission network or provide an access service is suspended during any period that the transfer of electricity to or from that connection or the provision of the access service in respect of that connection is interrupted or curtailed under regulation 25 or regulation 29 to the extent of the interruption or curtailment.

(4) Subject to subregulations (5), (6) and (7), if a *force majeure* event occurs, then the affected person must —

- (a) notify any person who in the affected person’s reasonable opinion is likely to be adversely affected by the suspension of the affected obligations; and
- (b) use reasonable endeavours (including incurring any reasonable expenditure of funds and rescheduling man power and resources) to mitigate the consequences and minimise any resulting delay in the performance of the affected obligation.

(5) If an affected person fails to comply with subregulation (4) (b), then the only consequence of that failure is that the period of suspension of the affected obligation is reduced by the period of any delay in the performance of the affected obligation attributable to that failure.

(6) The settlement of a labour dispute which constitutes a *force majeure* event is a matter which is within the absolute discretion of the affected person.

(7) An affected person is not obliged to incur any expenditure in complying with subregulation (4) (b) if the *force majeure* event is constituted by a breach of, or failure to comply with, the access agreement by another party to the access agreement or these regulations by another person to which these regulations apply.

Effect of access to capacity

36. By executing or complying with its obligations under an access agreement or making any capital contribution under an access agreement, a user does not acquire any right, title or interest in or to the electricity transmission network.

Minimum Term and Renewal

37. (1) The term of an access agreement is such term as the parties agree and set out in the access agreement, but in any event must not be less than 3 months.

(2) Subject to the terms of the access agreement, an access agreement with an original term of one year or more may be renewed by the user for a further term equal to the original term —

- (a) if the original term is less than or equal to 3 years, then by written notice to Western Power received at least 3 months prior to expiration of the original term; or
- (b) if the original term is more than 3 years, then by written notice to Western Power received at least 6 months prior to expiration of the original term,

without the requirement for a further access application.

(3) In assessing whether or not there is a spare capacity, it must be assumed that an access agreement which may be renewed in accordance with subregulation (2) will be renewed in accordance with that regulation until the time for exercising the option to renew contemplated by that regulation has expired without that option being exercised.

Contract maximum demand and declared sent out capacity

38. (1) If the user's access agreement in respect of a connection sets out a contract maximum demand for that connection, then the user must use reasonable endeavours to ensure that the user's actual demand at that connection does not exceed that contract maximum demand.

(2) The declared sent-out capacity of a generating unit which is not an embedded generating unit is the capacity of the generating unit to generate and transfer electricity to the electricity transmission network, taking into account any electricity used at the connection.

(3) The declared sent-out capacity of an embedded generating unit is the capacity of the generating unit to generate and transfer electricity to the electricity transmission network, taking into account any electricity used at the connection or supplied to persons otherwise than through the electricity transmission network.

(4) Subject to subregulation (10), the declared sent-out capacity for a generating unit is the figure published by Western Power in respect of the generating unit from time to time.

(5) Western Power must publish the declared sent-out capacity for generating units as at 1 January 1997 or before 31 March 1997.

(6) Subject to the terms of the relevant access agreement, if a user wishes to change the declared sent-out capacity of a generating unit connected at a connection of the user for a financial year, then the user must notify Western Power in writing of the new declared sent-out capacity of the generating unit not less than 30 business days prior to the start of the financial year.

(7) If a user does not give a notice in accordance with subregulation (6) in respect of a generating unit connected at one of its entry points prior to the start of a financial year, then, subject to subregulation (10), the declared sent-out

capacity of the generating unit for that financial year is the same as it was for the preceding financial year.

(8) Subject to subregulation (10), the declared sent-out capacity for a financial year for a generating unit connected at a connection commissioned during the financial year is the figure agreed between Western Power and the user in respect of the entry point prior to electricity first being transferred between the electricity transmission network and the connection.

(9) The declared sent-out capacity of a generating unit for a financial year set out in a notice given under subregulation (6) must not exceed the declared sent-out capacity of the generating unit for the immediately preceding financial year without the prior written agreement of Western Power.

(10) Western Power and a user may vary the declared sent-out capacity of a generating unit connected at a connection of the user for a financial year by agreement.

Commencement date

39. (1) An access agreement commences on the day it is entered into by Western Power and the user and the term of the access agreement runs from that day.

(2) An access agreement may provide for a later day on which the provision of access services is to commence, and, if it does so, then Western Power is under no obligation to provide access services under that access agreement until that later day.

PART 7 — ENFORCEMENT, LIABILITY AND INSURANCE

Enforcement

40. (1) If a user fails to observe or perform any of its obligations under an access agreement (in this regulation called a “**default**”), then Western Power may —

- (a) notify the user of the default and require the user to remedy the default;
- (b) if the default is a default in the payment of any amount and has not been remedied by the end of the 3rd business day after the notice was given, then disconnect the user’s connections from the electricity transmission network whilst that default is continuing;
- (c) if the default is any other type of default and at the end of the 5th business day after the notice was given —
 - (i) the default has not been remedied; or
 - (ii) the user has not to the reasonable satisfaction of Western Power commenced to remedy the default or has commenced to remedy the default but is not diligently proceeding to remedy the default,
 then disconnect the user’s connections from the electricity transmission network whilst that default is continuing; and
- (d) if the default has not been remedied at the end of the 20th business day after the notice was given, then treat the default as a repudiation of the access agreement and terminate the access agreement.

(2) The rights of Western Power under this regulation (except the periods of notice) are in addition to and are not to limit any other rights which Western Power has under an access agreement or any other rights or remedies which it has under any other written law, at law, in equity or otherwise.

(3) Specifically, the imposition by Western Power of a charge under Part 4 does not affect Western Power’s rights under this regulation and is not to be taken as any commitment by Western Power to provide any additional access services.

(4) Termination of an access agreement under this regulation does not prejudice the rights or remedies accrued to either party at the date of termination.

Liability, insurance and indemnity

41. (1) In this regulation —

“**direct damage**” suffered by a person means loss or damage suffered by the person which is not indirect damage;

“indirect damage” suffered by a person, means —

- (a) any consequential loss, consequential damage or special damages however caused suffered by the person including any —
 - (i) loss of (or loss of anticipated) use, production, revenue, income, profits, business and savings; or
 - (ii) business interruption; or

whether or not the consequential loss or damage or special damages was foreseeable; and
- (b) in respect of contractual damages, damages which would fall within the second limb of what is known as the rule in *Hadley v Baxendale*,
- (c) any liability of the person to any other person, or any claim, demand, action or proceeding brought against the person by any other person, and the costs and expenses connected with the claim.

(2) To the maximum extent permitted by law, the only warranties and terms which apply to the provision of access services by Western Power are those expressly contained in an access agreement, and all warranties and terms (except those expressly set out in an access agreement) implied by law, including implied by the provisions of the *Trade Practices Act 1974* of the Commonwealth or any legislation (whether Commonwealth or otherwise) to similar effect, on the part of Western Power, do not apply to the provision of access services by Western Power.

(3) If at law, the exclusion of any warranty or term is prohibited, then Western Power’s liability in respect of a breach of such warranty or term, is limited to the maximum extent permitted by law. For example, where any law permits Western Power to limit its liability in respect of a breach of an implied warranty or condition to the replacement or resupply of equivalent goods and services, then Western Power’s liability will be so limited.

(4) Western Power or a user who is negligent, or defaults in respect of its obligations under an access agreement, is liable to the other party (including its directors, servants, consultants, independent contractors and agents) for, and is to indemnify the other party (including its directors, servants, consultants, independent contractors and agents) against, any direct damage caused by, consequent upon or arising out of the negligence or default.

(5) A party to an access agreement who is fraudulent in respect of its obligations to the other party under the access agreement, is liable to the other party for, and is to indemnify the other party against, any direct damage or indirect damage caused by, consequent upon or arising out of the fraud.

(6) Except as provided in subregulation (5), neither Western Power nor any user is in any circumstances to be liable to the other for indirect damage, however arising.

(7) Each user must indemnify Western Power for all liability on the part of Western Power to any customer of the user or any generator of the user (including for direct and indirect damage) which Western Power may suffer because of the provision of or failure to provide access services to the user, except only to the extent that such liability is caused by, is consequent upon or arises out of the negligence of Western Power or the breach by Western Power of any term of the relevant access agreement.

(8) Each user must indemnify Western Power for all liability (including direct and indirect damage) which Western Power may suffer to any third party by reason of the default of that user under these regulations or under the access agreement or the negligence of that user.

(9) The terms of an access agreement may contain additional provisions relating to liability of Western Power and a user, including a cap on liability, the terms of an indemnity on the part of a user to Western Power and the requirement of a user to maintain insurances to the reasonable satisfaction of Western Power.

PART 8 — OTHER MATTERS**Ancillary services**

42. (1) Western Power must acquire the following ancillary services:

- (a) spinning reserve;
- (b) post trip management services; and
- (c) voltage control,

through an open procurement process described in subregulation (3).

(2) Western Power may acquire ancillary services from Western Power in its role as a generator of electricity.

(3) Western Power must —

- (a) whenever it procures any of the ancillary services referred to in subregulation (1), seek to minimise the total delivered cost of the ancillary service, subject only to maintaining the security and safety of the provision of that ancillary service by Western Power to users and of the electricity transmission network;
- (b) ensure that all proposals for the provision of the ancillary services referred to in subregulation (2) receive fair and equitable consideration;
- (c) ensure that, if Western Power participates as a prospective supplier in a procurement process required by subregulation (1), it is treated equally with all other existing or prospective suppliers of the ancillary service and does not receive any special treatment or benefit; and
- (d) take into consideration the effect that each proposal for the provision of an ancillary service referred to in subregulation (1) will have upon the utilisation and operation of the electricity transmission network and upon Western Power's existing contracts for the purchase and sale of that ancillary service.

(4) Prior to 30 June 1997, Western Power must prepare a description of the process to be adopted in the procurement of any of the ancillary services referred to in subregulation (1), which reflects the principles set out in subregulation (3).

(5) Subject to subregulation (3), Western Power may amend the process developed under subregulation (4).

(6) Western Power must provide a copy of the process to be adopted in the procurement of any of the ancillary services under subregulation (1) (as amended) to any person who requests a copy.

Prudential requirements

43. (1) A user other than Western Power must provide and maintain a bank guarantee in a form and with a bank acceptable to Western Power under which Western Power may draw in aggregate an amount equal to or more than the amount last nominated by Western Power for the purposes of this regulation under subregulation (2).

(2) Subject to subregulation (3), Western Power may from time to time nominate an amount for the purposes of subregulation (1) by written notice given to the user based on a good faith assessment of the credit risk of the user to Western Power.

(3) If —

- (a) a user fails to pay to Western Power any amount when due under these regulations or an access agreement; or
- (b) a user pays an amount under these regulations or an access agreement which Western Power is subsequently required to disgorge or repay under laws relating to insolvency, the protection of creditors or similar matters,

then Western Power may exercise its rights under the bank guarantee in respect of that amount.

Title to electricity

44. (1) Title to, and risk in, electricity which is transferred to the electricity transmission network passes to Western Power at the time it passes through the relevant connection.

(2) Title to, and risk in, electricity which is transferred from the electricity transmission network passes from Western Power at the time it passes through the relevant connection to the user in respect of the connection.

(3) This regulation does not affect the operation of Part 4.

Assignment of access agreements

45. (1) A user must not —

- (a) assign, novate, declare itself a trustee of, or otherwise dispose of, any of its rights under an access agreement or a grant of access under clause 2 of Schedule 5 to the Act;
- (b) subcontract the performance of its obligations under an access agreement or a grant of access under clause 2 of Schedule 5 to the Act;
- (c) create an encumbrance over any of its rights or obligations under an access agreement or a grant of access under clause 2 of Schedule 5 to the Act,

without the prior written consent of Western Power (such consent not to be unreasonably withheld).

(2) Prior to giving any consent under this regulation, Western Power may require any assignee or person having the benefit of an encumbrance to enter into documents in form and substance satisfactory to Western Power agreeing to be bound by the terms of the access agreement.

(3) Western Power may assign all of its rights and obligations under an access agreement to any person who may own or operate all or any part of the electricity transmission network.

Essential terms

46. The following provisions of these regulations are essential terms and conditions for the purposes of clause 2 (4) of Schedule 5 of the Act:

Part 3	Part 7
Part 4	regulation 44
regulation 26	regulation 45
Part 6	regulation 47.

Representations and warranties

47. (1) The user, by entering into an access agreement, represents and warrants to Western Power that —

- (a) it has duly complied, and will up to the termination of the access agreement continuously comply, with all environmental and safety laws with respect to any of its obligations connected with, arising out of or in relation to the Act, these regulations or the access agreement;
- (b) it will, as at the date electricity is first transferred through the relevant connection under the access agreement, have in full force and effect all necessary authorisations, licences, permits, consents, certificates, authorities and approvals necessary under all law to enable it to observe its obligations under the Act, these regulations and the access agreement, and to allow those obligations to be enforced;
- (c) it will, as at the date electricity is first transferred through the relevant connection under the access agreement, have in full force and effect all necessary leases, licences or easements to construct, operate and maintain any connection and other facilities for which it is responsible under these regulations or an access agreement;
- (d) its obligations under the access agreement are valid and binding and are enforceable against it in accordance with their terms;
- (e) the access agreement and any other transaction under it does not contravene the user's constituent documents or any law or any of its obligations or undertakings by which it or any of its assets are

bound or cause to be exceeded any limitation on its or its directors' powers;

- (f) its obligations to make payments under the access agreement rank at least equally with all unsecured and unsubordinated indebtedness of the user except debts mandatorily preferred by law;
- (g) neither the user nor any of its related bodies corporate is in default under a law affecting any of them or their respective assets, or any obligation or undertaking by which it or any of its assets are bound;
- (h) there is no pending or threatening action or proceeding affecting the user or any of its related bodies corporate or any of their respective assets before a court, the governmental agency, commission, arbitrator or other tribunal which will, or might reasonably be expected to, materially affect its ability to perform its obligations under the access agreement;
- (i) neither the user nor any of its related bodies corporate have immunity from the jurisdiction of a court or from legal process (whether through service of notice, attachment prior to judgment attachment in aid of execution, execution or otherwise); and
- (j) the user is not an agent or trustee (except if and to the extent that it is disclosed as such in its application under Part 2) in relation to the access agreement or the electricity transferred under the access agreement.

(2) These representations and warranties are by force of this regulation to be taken to be made on each day on which —

- (a) electricity is transferred to or from the connection; or
- (b) any amount payable by the user to Western Power under an access agreement is or may be outstanding.

Payment arrangements

48. (1) Western Power may invoice a user in respect of the charges payable in respect of access services, and a user must pay those charges, in accordance with the procedures set out in the access agreement between Western Power and the user.

(2) A user may invoice Western Power in respect of the charges payable under these regulations, and Western Power must pay those charges, in accordance with the procedures set out in the access agreement between the user and Western Power.

(3) An access agreement may provide for the payment by a user of interest in respect of overdue amounts.

(4) A user must pay the charges payable in respect of access services under an access agreement from the commencement date for the provision of access services specified in the access agreement, regardless of whether or not access services are used on and from that date, except if the failure to provide such access services is due to the default of Western Power.

PART 9 — COMMITTED CAPACITY AND TRANSITIONAL PROVISIONS

Western Power's existing capacity

49. (1) Western Power in its role as a trader of electricity (in this regulation called "**WP Trader**") is taken to have entered into an access agreement for an indefinite term with Western Power in its role as the operator of the electricity transmission network (in this regulation called "**WP Transmission**") in relation to the provision of access services by WP Transmission to WP Trader in respect of those connections utilised by WP Trader to supply WP Trader's customers as at 1 January 1997.

(2) The charges payable by Western Power for the access services provided under the deemed access agreement under subregulation (1) for a financial year are determined in accordance with the fee schedule for that financial year and the other terms and conditions of that deemed access agreement are those terms and conditions listed in regulation 46. To avoid doubt, but subject to these regulations the general manager of the division of Western Power responsible for trading of electricity (or a delegate of that general manager) and the general manager of the division of Western Power responsible for operating the electricity transmission network (or a delegate of that general manager) may vary the terms of the deemed access agreement under subregulation (1) at any time by agreement.

- (3) For the purposes of Schedule 5 to the Act and these regulations —
- (a) any electricity transmission capacity utilised as at the commencement of these regulations by WP Trader to supply its customers is committed to WP Trader as an existing user;
 - (b) subject to paragraph (c), until 31 March 1997, any electricity transmission capacity not utilised as at the commencement of these regulations by WP Trader to supply its customers but which is required for the reasonable foreseeable requirement of existing or future customers of WP Trader is committed to WP Trader as an existing user; and
 - (c) any electricity transmission capacity which a user can utilise or require Western Power to make available to that user or another person as at the commencement of these regulations, under an access agreement or a contract, agreement or arrangement is to be taken to be committed to that person.

(4) Western Power must on or before 31 March 1997 publish a description of the electricity transmission capacity referred to in subregulation (3) (a) and (b) and that electricity transmission capacity is to be taken to be committed to Western Power.

(5) A person who is a customer of Western Power referred to in subregulation (3) (a) or (b) for the purposes of subregulation (3) (a) or (b) may at any time before 1 July 1999 apply for access to electricity transmission capacity in accordance with Part 2 to the extent —

- (a) that the electricity transmission capacity applied for is equal to or less than the electricity transmission capacity required by Western Power to supply electricity to that person; and

- (b) if, from the grant of access to that person, the person is no longer required to purchase electricity from Western Power, or Western Power is no longer obliged to sell electricity, by using that electricity transmission capacity,

and if that person is granted access to that electricity transmission capacity, that electricity transmission capacity is committed to that person and not Western Power for the purposes of Schedule 5 to the Act and these regulations.

(6) The contract maximum demand in respect of an existing connection as at 1 January 1997 is the figure published in respect of the connection by Western Power on or before 31 March 1997.

Existing agreements

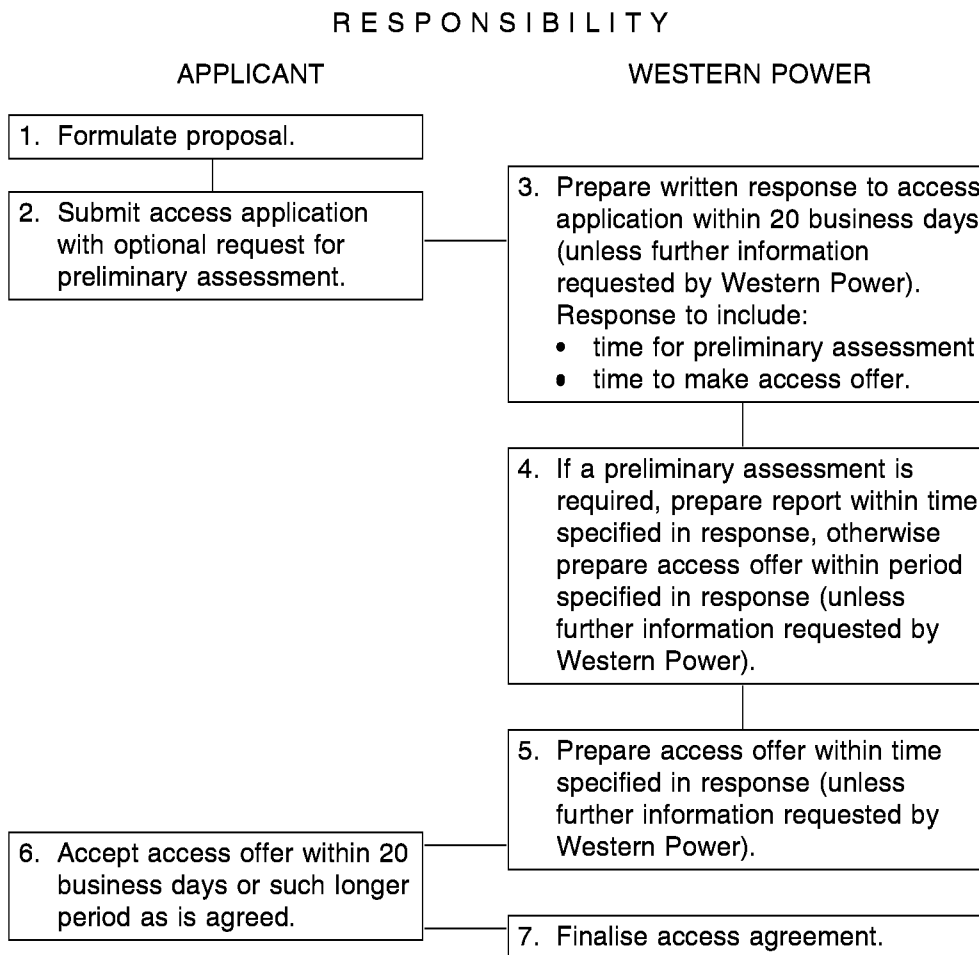
50. (1) The terms and conditions on which Western Power provides access to electricity transmission capacity, the subject of an agreement listed below, are set out in that agreement —

- (a) Interim Access Agreement with Normandy Power Pty Ltd dated 2 October 1996 (and due to expire on 1 July 1997);
- (b) Interconnection Deed with WMC Resources Ltd dated December 1996 (and due to expire on 10 October 1999);
- (c) Access and Standby Agreement with Pilbara Energy Pty Ltd dated 19 June 1996;
- (d) Agreement for the Supply of Electricity with Alcoa of Australia Ltd dated 7 September 1990 (and due to expire after one year's notice which can be given after 29 September 2001);
- (e) Agreement for the supply of electricity with Worsley Alumina Pty Ltd dated 19 September 1994 (and due to expire on 10 July 1998 unless terminated earlier by Worsley Alumina, or an extension is agreed between both parties); and
- (f) Agreement for the Supply of Electricity with Hamersley Iron Pty Ltd dated 26 June 1991 (and due to expire on 31 October 1998).

(2) Nothing in these regulations affects the rights of any party under an agreement listed in subregulation (1).

SCHEDULE 1 — ACCESS APPLICATION FLOW CHART

[r. 7]



NOTE: The process shown in this flow chart is in simplified form, is for illustrative purposes only and otherwise has no force or effect. The process and times for performing activities are subject to conditions and variations set out in Part 2.

SCHEDULE 2 — ACCESS INFORMATION

[r. 8 (4) & (6)]

**PART A — INFORMATION TO BE INCLUDED IN AN
ACCESS APPLICATION**

An access application must contain the following information:

- (a) the name and address of the person making the access application and of any other persons for whom that person is acting in making the access application;
- (b) the type of access services requested, when those access services are required and for how long they will be required;
- (c) the entry points and exit points in respect of which access is being applied for and the capacity (expressed in MW) for each of those entry points and exit points for which access is being applied for;
- (d) the type of plant in respect of which the access services are required and the configuration of that plant;
- (e) where the entry points and exit points are to be on the electrical transmission network and any alternative points (in order of preference);
- (f) the expected maximum demand of the plant connected or to be connected at each of the entry points;
- (g) the maximum generation capacity and the proposed declared sent out capacity of the generating units (including embedded generating units) connected or to be connected at each of the exit points;
- (h) the expected electricity production and consumption of the plant connected or to be connected at each of the entry points and exit points;
- (i) when the applicant expects the plant to be connected at each of the entry points and exit points to be in service (if appropriate);
- (j) details of the controllers of the plant connected or to be connected at each of the entry points and exit points;
- (k) the proposed design of each of the connections (if appropriate);
- (l) the arrangements which the applicant proposes to enter into in relation to the construction and supply of the connection in respect of the plant;
- (m) the nature of any disturbing load (size of disturbing component MW/MVAr, duty cycle, nature of power electronic plant which may produce harmonic distortion);
- (n) any information as required by the Technical Code;

- (o) commercial information concerning the applicant to allow Western Power to make an assessment of the ability of the applicant to meet its obligations under any access agreement that results from the access application; and
- (p) any other information reasonably required by Western Power.

PART B — INFORMATION TO BE INCLUDED IN A RESPONSE

A response must contain the following information:

- (a) whether it is likely that there is sufficient spare capacity to provide the access services requested in the access application or whether the electricity transmission network will have to be augmented to provide those services;
- (b) whether it is likely that any connection will have to be installed or upgraded to provide the connection services (if any) requested in the access application; and
- (c) if Western Power believes that the electricity transmission network will have to be augmented to provide the access services requested or a new connection will have to be installed or an existing connection augmented to provide the connection services (if any) requested, then whether or not a capital contribution will be required of the user under regulation 12 and, if so, an indication of the likely amount of that capital contribution.

SCHEDULE 3 — TERMS OF AN ACCESS OFFER

[r. 11 (3)]

In addition to any matters outlined elsewhere in the regulations, an access offer may include terms and conditions of the following kind:

- (a) details of each entry point and each exit point;
- (b) the contract maximum demand (if any) in respect of each connection;
- (c) if more than one person is selling or purchasing the electricity transferred at the connection, then the mechanism for determining how much of the electricity transferred at that connection is sold or purchased by each of those persons;
- (d) a requirement that the user complies with the provisions of these regulations and the Technical Code;
- (e) any metering arrangements and, if appropriate, a methodology to adjusting losses where the point of metering is significantly different to the connection point;
- (f) the payment conditions;
- (g) if the relevant connection is a new connection, then the date on which payments in respect of the access services are to commence (whether or not the connection is actually commissioned by that date);
- (h) the duration and termination conditions of the proposed access agreement;
- (i) terms and conditions in relation to the carrying out of works to establish a connection;
- (j) testing and commissioning requirements;
- (k) agreed protocols for maintenance coordination;
- (l) provision, installation, operation and maintenance of automatic load shedding facilities;
- (m) circumstances under which the terms of the resulting access agreement would require renegotiation.

SCHEDULE 4 — LOSS FACTORS

[r. 20]

PART A — SOUTHWEST TRANSMISSION NETWORK ENTRY POINTS

GENERATOR - ENTRY POINT		LOSS FACTOR
ABBREVIATION	NAME	MU 330 REF BUS
BPS	Bunbury Power Station	1.01477
GTN	Geraldton	1.08341
KPS	Kwinana Power Station	1.03407
MGA	Mungarra	1.04816
MPS	Muja Power Station	1.00000
PJR	Pinjar	1.03062
WKT	West Kalgoorlie	1.19000

PART B — SOUTHWEST TRANSMISSION NETWORK EXIT POINTS

SUBSTATION — EXIT POINT		LOSS FACTOR
ABBREVIATION	NAME	MU 330 REF BUS
A 132	Arkana	1.04728
ABD 132	ALCOA Boddington	1.02622
AKW 132	ALCOA Kwinana	1.03787
ALB 132	Albany	1.06467
APJ 132	ALCOA Pinjarra	1.04271
APM 66	Aust Paper Mills	1.05004
BCH 132	Beechboro	1.04569
BEL 132	Belmont	1.05182
BKF 132	Black Flag	1.20056
BLD132B2	Boulder	1.19794
BNP 132	Beenup	1.02404
BNY132	Bounty	1.10072
BP 66	British Petroleum	1.04051
BPR 132	B.P. Refinery	1.03924
BSI 132	Barrack Silicon Smelter	1.02002
BSN 66	Busselton	1.07134
BTN 132	Bridgetown	1.00859
BUH 132	Bunbury Harbour	1.01981
BUR 66	Burswood Island Casino	1.06045
BYF 132	Byford	1.04831
C 66	Cottesloe	1.05630

SUBSTATION — EXIT POINT		LOSS FACTOR
ABBREVIATION	NAME	MU 330 REF BUS
CAP 66	Capel	1.05101
CBK 132	Claisebrook	1.05168
CBP 132	CSBP	1.03926
CC 132	Cockburn Cement	1.04066
CK 66	Cook Street	1.05930
CL 66	Clarence Street	1.06379
CLP 66	Coolup	1.04610
CO 66	Collie	1.00910
COL 66	Collier Street	1.06359
CPN 132	Chapman	1.07407
CUN 66	Cunderdin	1.10577
CVE 132	Canning Vale	1.05017
D 132	Darlington	1.06067
DUR 33	Durlacher	1.09789
E 66	Edmund Street	1.04966
ENB 132	Eneabba	1.07392
EWR 132	Edgewater	1.04823
F 66BUS1	Forrest Ave	1.05728
G 132	Gosnells	1.05231
GGV 132	Golden Grove	1.08723
GTN 33B1	Geraldton	1.08417
H 132	Hadfields	1.04711
HAY 132	Hay Street	1.05238
HE 66	Herdsmen Parade	1.05993
HIS 132	Hismelt	1.03925
JT66BUS1	Joel Terrace	1.05368
K 132	Kalamunda	1.05819
KAT 66	Katanning	1.05292
KDN 220	Kondinin	1.06746
KEL 66	Kellerberrin	1.14189
KMC 132	Kerr McGee Cataby	1.05647
KMK 132	Kerr McGee Kwinana	1.03924
KMM 132	Kerr McGee Muchea	1.03623
KOJ132B2	Kojonup	1.02481
LMC 132	Muchea Local	1.03623
LMR 132	Marriott Road Local	1.01998
MA 132	Manning Street	1.04890
MC 66	Medical Centre	1.05704
MED 132	Medina	1.03942

SUBSTATION — EXIT POINT		LOSS FACTOR
ABBREVIATION	NAME	MU 330 REF BUS
MER 66	Merredin	1.13215
MH 132	Mandurah	1.04386
MIL 132	Milligan Street	1.04783
MJ 132	Midland Junction	1.06094
MJP 132	Manjimup	1.01490
MO 132	Morley	1.04736
MOR 132	Moora	1.06185
MR 66	Margaret River	1.08670
MUL 132	Mullaloo	1.04822
MW 66	Mundaring Weir	1.07258
MY 66	Myaree	1.05408
N 66	Nedlands	1.05680
NB 132	North Beach	1.04892
NF 66	North Fremantle	1.05420
NGN 66	Narrogin	1.03469
NOR 66	Northam	1.08230
NP 66	North Perth	1.05948
OC 66	O'Connor	1.05284
OP 132	Osborne Park	1.04853
PCY 132	Piccadilly	1.19458
PIC 66	Picton	1.02320
QNP 66	Quinninup	1.01318
RBD 132	Reynolds Boddington	1.02623
RO 132	Rockingham	1.04100
RTN 132	Riverton	1.04587
RV 66	Rivervale	1.06061
SF 66	South Fremantle	1.04530
SP 66	Shenton Park	1.05726
SV 66	Sawyers Valley	1.07661
SX 33	Southern Cross	1.25348
TLN 66	Tomlinson Street	1.05948
TS 132	Three Springs	1.06752
TT 66	Tate Street	1.05838
U 66	University	1.05736
VP 66	Victoria Park	1.05924
W 66BUS1	Wellington Street	1.05520
WAG 66	Wagin	1.06188
WD 66	Wembley Downs	1.05774
WE 132	Welshpool	1.05394

SUBSTATION — EXIT POINT		LOSS FACTOR
ABBREVIATION	NAME	MU 330 REF BUS
WEB 66	WEB Grating	1.05924
WGP 132	Wagerup	1.02638
WKT132B1	West Kalgoorlie	1.19000
WM 132	Western Mining	1.04002
WOR 132	Worsley	1.01169
WSD 66	Westralian Sands	1.04551
WUN 66	Wundowie	1.08284
Y 132	Yokine	1.04782
YER 66	Yerbillon	1.13349
YLN 33	Yilgarn	1.13889
YNP 66	Yornup	1.01278
YP 132	Yanchep	1.04426

**PART C — NORTHWEST TRANSMISSION NETWORK
ENTRY POINTS**

SUBSTATION — ENTRY POINT		LOSS FACTOR
ABBREVIATION	NAME	CLB33KV REF BUS
DPS	Dampier	1.01537
LPS	Cape Lambert	0.96854
PEL	PEPL	1.01986
RPS	Redbank	1.03242

**PART D — NORTHWEST TRANSMISSION NETWORK
EXIT POINTS**

SUBSTATION — EXIT POINT		LOSS FACTOR
ABBREVIATION	NAME	CLB33KV REF BUS
AST	Anderson Street	1.03939
BUL	Bulgarra	1.01795
CLB-33	Cape Lambert Terminal 33kV	1.00000
DMP	Dampier (WPC)	1.01885
LPS-33	Cape Lambert Power Station	0.97354
MDR	Murdock Drive	1.02738
MNM-66	Mt Newman (BHP)	1.04003
NGA-66	Nimingarra (BHP)	1.06559
PCK	Pegs Creek	1.01783
PSN-33	Point Samson	1.00037
WFD	Wedgefield	1.02533

By His Excellency's Command,

J. PRITCHARD, Clerk of the Council.

