



WESTERN AUSTRALIA
MINISTER FOR THE ENVIRONMENT

STATEMENT THAT A PROPOSAL MAY BE IMPLEMENTED (PURSUANT TO THE PROVISIONS OF THE ENVIRONMENTAL PROTECTION ACT 1986)

HISMELT IRON ORE SMELTING PROJECT, KWINANA

This proposal may be implemented subject to the following conditions:

1. In implementing the proposal, the proponent shall fulfil the commitments (which are not inconsistent with the conditions or procedures contained in this statement) made in the Public Environmental Review and which are consolidated in Environmental Protection Authority Bulletin 432. (A copy of consolidated commitments is attached).
 2. Subject to these conditions, the manner of detailed implementation of the proposal shall conform in substance with that set out in any designs, specifications, plans or other technical material submitted by the proponent to the Environmental Protection Authority with the proposal. Where, in the course of that detailed implementation, the proponent seeks to change those designs, specifications, plans or other technical material in any way that the Minister for the Environment determines on the advice of the Environmental Protection Authority, is not substantial, those changes may be effected.
 3. The proponent shall construct the facility recognising that sulphur dioxide and dust emissions will need to be controlled to comply with conditions set by a licence issued under the Environmental Protection Act, 1986. These conditions will be consistent with the intent of the Draft Environmental Protection Policy for Sulphur Dioxide and Dust in the Kwinana Region.
- Subsequently, the proponent shall meet emission levels, revised as necessary to conform with the approved Environmental Protection Policy.
4. Prior to commissioning, the proponent shall prepare and subsequently implement an environmental management programme, to the satisfaction of the Minister for the Environment on advice of the Environmental Protection Authority.

This programme shall include the following:

- (1) Solid (slag and filter dust), liquid (pond overflow and stormwater run-off) and gas emissions (waste stack) monitoring, disposal and management methods;
- (2) Details of sampling sites, times and frequency of reporting to the Environmental Protection Authority;
- (3) Baseline data acquisition (including the marine environment), prior to commissioning the facility;

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- (4) Monitoring of the liquid waste disposal system to include pH, turbidity, total dissolved solids, suspended solids, heavy metals and fluoride; and
- (5) A 'greenhouse' gas audit.

The proponent shall report monitoring results annually to the Environmental Protection Authority in the format required. The Environmental Protection Authority shall subsequently make these reports available to the public.

5. At least six months prior to the cessation of operations, the proponent shall prepare and submit an adequate decommissioning and rehabilitation plan to the Environmental Protection Authority.

Within the six month period following the cessation of operations, the proponent shall remove all structures and facilities constructed for the proposal, and shall rehabilitate the site and the environs where affected by the proposal (including soil, surface and groundwater) such that the state of the environment is not inferior to that indicated in the 'environmental audit' documents submitted to the Environmental Protection Authority by the proponent and entitled 'Preliminary Environmental Audit' (March 1990) and 'Environmental Audit - Stage II' (April 1990).

Exception may be made in the case of certain structures and/or facilities where the landowners have notified the Environmental Protection Authority in writing that they agree to these structures and/or facilities remaining on the site.

An extension of the above period of six months following the cessation of operations may be granted provided that a written application requesting such an extension is made to the Environmental Protection Authority within the six-month period prior to the cessation of operations.

Clearance of this condition will be by the Minister for the Environment on the advice of the Environmental Protection Authority.

6. No transfer of ownership, control or management of the project which would give rise to a need for the replacement of the proponent shall take place until the Minister for the Environment has advised the proponent that approval has been given for the nomination of a replacement proponent. Any request for the exercise of that power of the Minister shall be accompanied by a copy of this statement endorsed with an undertaking by the proposed replacement proponent to carry out the project in accordance with the conditions and procedures set out in the statement.
7. If the proponent has not substantially commenced the project within five years of the date of this statement, then the approval to implement the proposal as granted in this statement shall lapse and be void. The Minister for the Environment shall determine any question as to whether the project has been substantially commenced. Any application to extend the period of five years referred in this condition shall be made before the expiration of that period, to the Minister for the Environment by way of a request for a change in the condition under Section 46 of the Environmental Protection Act. (On expiration of the five year period, further consideration of the proposal can only occur following a new referral to the Environmental Protection Authority).

8. In the event that the proponent wishes to extend the life of the project beyond that specified in the Public Environmental Review, then the proponent shall submit to the Environmental Protection Authority a new proposal.

Bob Pearce, MLA
MINISTER FOR THE ENVIRONMENT

17 SEP 1990

Hismelt CORPORATION PTY LTD

MAJOR RESEARCH AND DEVELOPMENT FACILITY

LIST OF CONSOLIDATED COMMITMENTS

The following is a consolidated list of commitments which have been made by the Proponent to manage any potential environmental impacts associated with the Major Research and Development Facility at Kwinana.

Commitments 1 to 4 and 7 to 12 are as originally stated in the Public Environmental Review. Commitments 5 and 6 have been modified in response to public review comments. These commitments are presented below:

o Commitment 1

The Proponent commits to preparing and subsequently implementing an Environmental Management and Monitoring Programme prior to construction of the Major Research and Development Facility at Kwinana, that will include:

- details of parameters to be monitored;
- an initial baseline sampling period;
- sampling sites and times;
- reporting arrangements to the Environmental Protection Authority; and
- a commitment to modify the management programme, if necessary, to reduce the impact of pollution.

All of the above will be determined in consultation with the Environmental Protection Authority and other relevant government authorities.

o Commitment 2

Continuously during the operation of the Major Research and Development Facility at Kwinana, the Proponent will undertake real-time monitoring of stack emissions for sulphur dioxide and total suspended particulates. Should the emission monitoring programme indicate that the Major Research and Development Facility is exceeding acceptable air quality criteria for any emission, then the Proponent will undertake to review and reduce these emissions.

o Commitment 3

Should dust from the Major Research and Development Facility exceed acceptable air quality criteria in areas beyond the plant boundary, then the Proponent will undertake to review and reduce dust emissions.

o Commitment 4

The Proponent will co-operate with the Environmental Protection Authority to assist in achieving the air quality objectives that the Proponent understands will be incorporated in the Environmental Protection Policy for the Kwinana region.

o Commitment 5

During each chlorine dosing period throughout the operation of the Major Research and Development Facility, the Proponent will collect and analyse seawater samples near the cooling water discharge beach outfall for residual chlorine. Should the monitoring programme indicate that the total residual chlorine levels exceed acceptable water quality criterion (2ug/L per six month average and 10ug/L for any single reading) beyond the reasonable zone of influence of the beach outfall, then the Proponent will undertake to review and reduce the residual chlorine levels.

- o Commitment 6
Continuously during the operation of the Major Research and Development Facility, the Proponent will undertake monitoring of the cooling water discharge at the beach outfall for temperature. Should the monitoring programme indicate that the temperature rise of the cooling water exceeds the water quality criterion for the preservation of aquatic ecosystems (4°C for waters south of latitude 27°S during all seasons of the year) beyond the reasonable zone of influence of the beach outfall, then the Proponent will undertake to review and reduce the temperature levels.
- o Commitment 7
At quarterly intervals during the operation of the Major Research and Development Facility, and immediately following major storm events, the Proponent will inspect the beach outfall structure for evidence of sand erosion or accretion, and to ensure soundness of handrails and other safety features. Should the inspection indicate that coastal processes are being significantly impacted, then the Proponent will undertake to reduce these impacts.
- o Commitment 8
Prior to start-up and biannually during operation of the Major Research and Development Facility, the Proponent will monitor noise levels at the plant boundary. Should the noise monitoring programme indicate that the noise generated by the Major Research and Development Facility is causing unacceptable impact on nearby receptors, then the Proponent will undertake to review and reduce noise levels.
- o Commitment 9
Prior to start-up of the Major Research and Development Facility, the Proponent will develop an Employee Safety and Emergency Response Plan for the Major Research and Development Facility as part of its Operations Manual.
- o Commitment 10
The Proponent will participate in and contribute to the development of the Kwinana Integrated Emergency Management System.
- o Commitment 11
The Proponent will submit annual reports to the Environmental Protection Authority documenting the results of the monitoring programmes, and will immediately advise the Environmental Protection Authority of any unplanned events as they occur, that may adversely impact the surrounding environment, such as spillages and excessive emissions. A final summary report will be submitted at the end of the research and development programme.
- o Commitment 12
The Proponent will remove all Hismelt equipment and modifications not required by the site lessor at the close of the project, and leave the site as near as practicable in the condition it was in when it was made available to the Proponent.

In response to comments received during the public review period, the Proponent has made the following additional commitments :

- o Commitment 13
The Proponent will consult with the relevant authorities including the Town of Kwinana to determine appropriate approvals/procedures for any extension of activities beyond the scope of examining the feasibility of the Hismelt direct iron ore smelting process.
- o Commitment 14
The Proponent will ensure that the Hismelt plant is operated as per the Department of Mines regulations.
- o Commitment 15
The Proponent will take the following actions to improve the aesthetic appeal of the Hismelt lease area:
 - design and build new buildings to current industrial standards; and
 - implement a landscaping programme in consultation with the owner of the site (BHP) and the Town of Kwinana.
- o Commitment 16
The Proponent is conducting an environmental audit which is scheduled for completion prior to the commencement of site works. The audit will establish the baseline groundwater quality of the site. Monitoring bores are being established which will enable ongoing monitoring of groundwater quality (see Commitment 17).
- o Commitment 17
The Proponent will undertake a monitoring and management programme for solid waste disposal. This will incorporate an appropriate drainage and wastewater treatment system to manage potentially contaminated leachates from raw material stockpile or solid waste disposal areas.

Groundwater quality downstream of these areas will be sampled at regular intervals. The drainage and wastewater treatment system will also be inspected regularly and properly maintained.
- o Commitment 18
The Proponent will implement a water resources management plan to ensure that the consumption of water is minimised.