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WESTERN AUSTRALIA
MINISTER FOR THE ENVIRONMENT

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

EXTENSION OF EXISTING QUARRY, SOUTH WEST HIGHWAY, BYFORD (563)

PIONEER (WA) PTY LTD

This proposal may be implemented subject to the following conditions:

1. Proponent Commitments

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 Consultative Environmental Review. (A copy of the commitments is attached).

2. Implementation

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. Noise Levels

3-1 The proponent shall ensure that the noise emissions from the project do not cause or contribute to noise levels in excess of:

- 50db(A) slow from 7am to 7pm Monday to Saturday inclusive, but excluding gazetted public holidays;
- 40db(A) slow from 10pm to midnight and from midnight to 7am every day;
- and
- 45db(A) slow at all other times;

when measured:

- (1) at any point on or adjacent to other premises not occupied by the proponent and used for residential or other noise-sensitive purposes; and
- (2) at a height between 1.2 and 1.5 metres above ground level and at a distance greater than 3.5 metres from any reflecting surface other than the ground.

3-2 Where the combined level of the noise emissions from the project and the normal ambient noise exceeds the levels specified in condition 3-1, this condition shall be considered to be contravened only when the following criteria are also met at the measurement point:

- the noise emissions from the premises are considered to be audible by the Environmental Protection Authority; and
- the noise emissions from the premises are identifiable by the Environmental Protection Authority as emanating from the project.

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- 3-3 Noise emissions shall not cause unacceptable annoyance due to tonal or impulsive components. These characteristics shall be assessed by the Environmental Protection Authority.
- 3-4 The proponent shall conduct noise surveys to the satisfaction of the Environmental Protection Authority.

4. Rehabilitation

Rehabilitation is an integral part of the project and requires management throughout the life of the proposal.

- 4-1 Prior to commencing operations, the proponent shall develop a rolling rehabilitation plan in order to progressively rehabilitate the land to an environmentally stable condition. This plan shall be prepared to the satisfaction of the Minister for the Environment on advice of the Environmental Protection Authority in consultation with the Shire of Serpentine-Jarrahdale. The plan required by this condition will be reviewed every five years by the Environmental Protection Authority in consultation with the Shire of Serpentine-Jarrahdale.
- 4-2 The proponent shall implement the plan required by condition 4-1 to the satisfaction of the Environmental Protection Authority.

5. Decommissioning

The proponent is responsible for the decommissioning and removal of the plant and installations and the rehabilitation of the site and its environs.

- 5-1 At least six months prior to commencing decommissioning, the proponent shall prepare a decommissioning and final rehabilitation plan, to the satisfaction of the Environmental Protection Authority.
- 5-2 The proponent shall implement the plan required by condition 5-1, to the satisfaction of the Environmental Protection Authority.

6. Proponent

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. Time limit on approval

If the proponent has not substantially commenced the project within ten 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 ten years referred to 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 ten year period, further consideration of the proposal can only occur following a new referral to the Environmental Protection Authority).

8. Approval review

As work in the proposed extension is not expected to begin until approximately the year 2000, any approval given by the Environmental Protection Authority shall be reviewed by the Environmental Protection Authority 15 years after work begins in the extension, in order to ensure practices are still commensurate with environmental and land use planning practices of the time.

Note

The proponent is required to obtain a licence for the premises under the provisions of Part V of the Environmental Protection Act 1986. The licence will include requirements on the following:

- noise and dust emissions;
- groundwater and surface water discharges; and
- industrial waste containment.

The environmental approval provided in this statement does not remove the requirements for the proponent to obtain other statutory approvals required for this project.

Bob Pearce, MLA
MINISTER FOR THE ENVIRONMENT

10 MAR 1992

COMMITMENTS

9.0 COMMITMENTS

9.1 AESTHETICS

- 9.1.1 All buildings likely to be visible from outside the area owned by Pioneer will be painted grey - green to blend in with the existing landscape.
- 9.1.2 Present landscape screening banks immediately west of the existing quarry will be extended and revegetated.
- 9.1.3 The eastern part of Lot 2779 will be opened first to enable the overburden banks and highest bench to be revegetated for at least 20 years before they become visible from positions distant from the quarry.
- 9.1.4 All buildings and equipment will be removed from the site on completion of the project and all roads will be deep ripped and revegetated.

9.2 NOISE

- 9.2.1 All blasts conducted at the Byford Quarry will have millisecond delays fitted to produce sequential firing of shots.
- 9.2.2. All blasts will be monitored for both ground vibration and air-blast over pressure.
- 9.2.3 A mobile hydraulic rock breaker will be used to break large rocks, reducing the need for small intermittent blasts.
- 9.2.4 Warning signs will be maintained near noisy equipment.
- 9.2.5 Efficient noise reduction screens and mufflers will be maintained on all equipment and plant.
- 9.2.6 Blasting will only be conducted during the afternoon on days when there is no temperature inversion or other unsuitable weather condition.
- 9.2.7 All blasts will continue to be monitored and all regulations complied with.

COMMITMENTS

- 9.2.8 Machinery generated noise will continue to be monitored and where necessary steps will be taken to reduce noise levels which fail to meet statutory requirements.
- 9.2.9 Workers will be educated to methods of reducing noise and minimising the impact of noise on themselves. All necessary noise protection equipment will be supplied to workers.

9.3 DUST LEVELS

- 9.3.1 Where possible blasting will be conducted on days with westerly wind patterns.
- 9.3.2 Dust suppression sprays will be maintained throughout the crushing and screening plants and equipment enclosed where practicable.
- 9.3.3 All unsealed roads will be watered when necessary to suppress dust.
- 9.3.4 Where possible the stripping of overburden and topsoil will be undertaken during the wetter months to reduce the generation of dust.
- 9.3.5 Pioneer will conform to the requirements of the Mines Regulation Act and Amendments 1946 - 1991 and the Environmental Protection Act and Amendments 1986 - 1989.
- 9.3.6 A regular dust monitoring program will be maintained.

9.4 WATER QUALITY

- 9.4.1. The existing pipe and sump system will be maintained and extended if necessary in order to protect the quality of the stream running through the area.
- 9.4.2 Silt traps will be cleaned at regular intervals to ensure they are operable. The fines recovered will be used in the rehabilitation program. All water leaving the site will pass through a sediment settlement dam.
- 9.4.3 Lips will be constructed on the outer edges of all platforms, benches and roads, forcing the water to drain back towards the wall, where it will collect in drains and gutters before being fed through a sump into the pipe system.

COMMITMENTS

- 9.4.4 All banks including those used in rehabilitation will have a proportion of larger material in their construction to reduce the erosion of their surfaces by surface water and any tendency to slumping.
- 9.4.5 Small along contour banks channels or furrows will be formed on reconstructed banks as required to assist the penetration of precipitation and reduce runoff.
- 9.4.6 Landscape banks and rehabilitated slopes will be revegetated as soon as practicable after construction to minimise erosion.
- 9.4.7 A septic toilet system will be maintained on site to prevent contamination of the groundwater system.
- 9.4.8 No chemicals or liquids will be disposed of on site. Oils and other lubricants recovered from vehicles during servicing will be stored before being taken to an oil recycling plant. Vehicle washdown areas will be equipped with fuel, oil and detergent traps.
- 9.4.9 Oil and fuel handling areas will have impervious bases and any spillages will be contained by bunds.

9.5 WASTE DISPOSAL

- 9.5.1 Materials of a recyclable nature including oils recovered from servicing and metal goods will be stored on site until there is sufficient to warrant removal to a recycling plant.
- 9.5.2 All other wastes will be taken weekly to an approved waste disposal site.

9.6 SAFETY

- 9.6.1 Pioneer will operate the under the Mines Regulation Act and Amendments 1946 - 1991 and the Environmental Protection Act and Amendments 1986 - 1989.
- 9.6.2 The property will continue to be fenced and the access roads fitted with a gate which is locked at all times other than normal working hours.
- 9.6.3 A caretaker will live in the house located on the property.

COMMITMENTS

9.7 FIRE CONTROL

- 9.7.1 The work area and quarry act as a firebreak. Other firebreaks will continue to be maintained around all property boundaries.
- 9.7.2 The 20 000 litre water tanker will be used to provide a portable water source which can be used in the event of fire.

9.8 GREENHOUSE EFFECTS

- 9.8.1 Pioneer will continue to seek ways to reduce the amount of fossil fuels used as new technologies become available.

9.9 ABORIGINAL SITES

- 9.9.1 Should any evidence of possible early aboriginal occupation be uncovered during the development of the proposed extension to the quarry, development will be stopped pending an assessment by a recognised consultant.
- 9.9.2 Pioneer will comply with the provisions of the Aboriginal Heritage Act 1972 - 1980 and Amendments.

9.10 FAUNA

- 9.10.1 Pioneer will open the proposed extension in stages of approximately 5 hectares every 10 years. This will minimise impact on the indigenous fauna.

COMMITMENTS

9.11 FLORA

- 9.11.1 Where possible species indigenous to the area will be used in the rehabilitation of Lot 2779. Species susceptible to Jarrah Dieback will not be used.

9.12 DIEBACK

- 9.12.1 Pioneer will implement the management procedures outlined in section 7.13 Dieback in order to reduce the risk of spreading Jarrah Dieback.

9.13 WEED CONTROL

- 9.13.1 The introduction of weeds will be monitored and should they prove a problem, steps such as removal, burial or spraying with a non residual herbicide such as "Roundup" will be undertaken to eliminate them.

9.14 REHABILITATION

- 9.14.1 Pioneer will be responsible for the rehabilitation of the quarry and processing area on an progressive, ongoing basis.
- 9.14.2 The methods outlined under 7.15 Rehabilitation will be used unless other methods prove to be more successful in field trials.
- 9.14.3 Site inspections will be made by Pioneer staff from time to time to assess the success of the revegetation and any action which may be required as outlined under 7.15.2 Revegetation.

COMMITMENTS

9.15 MONITORING PROGRAM

- 9.15.1 Pioneer will maintain a comprehensive monitoring program of all facets of the environmental impact of the Byford Quarry as outlined under section 8.0 Monitoring Program.

9.16 PUBLIC OPINION

- 9.16.1 A record will be kept of any public comments and/or complaints regarding the operation of the Byford Quarry.
- 9.16.2 These public comments will be investigated and if found to be valid, Pioneer will take steps to modify its extraction and processing methods to minimise any problem identified.