



WESTERN AUSTRALIA

**MINISTER FOR THE ENVIRONMENT****STATEMENT THAT A PROPOSAL MAY BE IMPLEMENTED (PURSUANT TO THE PROVISIONS OF THE ENVIRONMENTAL PROTECTION ACT 1986)****PROPOSED POWER SUPPLY  
EXPANSION OF PINJAR TURBINE POWER STATION (357)****STATE ENERGY COMMISSION OF WESTERN AUSTRALIA**

This proposal may be implemented subject to the following conditions:

1. This approval relates only to the acceptance of Scenario 1 in the proponents Consultative Environmental Review and allows for the installation and operation of up to three open cycle frame 9 (105MW) Gas Turbines
2. 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 proponents Consultative Environmental Review and additional commitments made following the State Energy Commission of WA's response to questions and issues raised in public submissions. (A copy of the consolidated commitments is attached).
3. 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.
4. Scenario 2 in the proponents Consultative Environmental Review shall be separately referred to the Environmental Protection Authority should the proponent further consider its application at the Pinjar site.
5. The proponent shall undertake a Perth airshed study to the satisfaction of the Environmental Protection Authority that shall be substantially completed to the Environmental Protection Authority's satisfaction within four years of this approval for the expansion of the Pinjar gas turbine power station. Following completion of the study, the Environmental Protection Authority will make appropriate recommendation(s) (based on the results of that study as it relates to the need or otherwise to retrofit the proposed frame 9 and any existing gas turbines) to the Minister for the Environment.
6. Failing the adequate implementation or completion of the study referred to in condition 5, as determined by the Minister for the Environment on advice from the Environmental Protection Authority, the proponent shall retrofit the frame 9 gas turbines with oxide of nitrogen suppression systems to the satisfaction of the Environmental Protection Authority.
7. The proponent shall apply for a licence under Part V of the Environmental Protection Act for the on-going development and operations of the Pinjar gas turbine power station.

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8. The proponent shall take all reasonable and practicable measures to reduce atmospheric emission levels from future gas turbine installations to the satisfaction of the Environmental Protection Authority for metropolitan or near-metropolitan installations.
9. The proponent shall be responsible for decommissioning and removal of the plant and installations and rehabilitating the site and its environs, to the satisfaction of the Environmental Protection Authority. Prior to decommissioning, the proponent shall prepare and subsequently implement a decommissioning and rehabilitation plan, to the satisfaction of the Environmental Protection Authority.
10. 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.
11. 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 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 five year period, further consideration of the proposal can only occur following a new referral to the Environmental Protection Authority).

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Bob Pearce, MLA  
MINISTER FOR THE ENVIRONMENT

**20 AUG 1991**

## Pinar Gas Turbine Power Station

### SUMMARY OF ENVIRONMENTAL MANAGEMENT COMMITMENTS

#### 1. Landscape Management

SECWA will continue to conduct landscaping site works to soften the visual profile of the power station and to enable it to blend with the surrounding landscape to the greatest practical extent.

#### 2. Noise Monitoring

Monitoring of operational noise will be conducted by SECWA. Direct reading sound pressure level meters will be used to measure noise from the turbines following commissioning, and on an annual basis thereafter.

Opportunistic measurements will be taken close to the turbines, at the power station boundary, at the buffer zone boundary and at the nearest residences, during the initial years of operation to establish the noise characteristics that result from various load and weather conditions.

The noise monitoring programme will be conducted to specifications agreed by the Environmental Protection Authority and will be reported on an annual basis.

#### 3. Atmospheric Emissions Monitoring

Stack gas analysis for NO<sub>x</sub> will be conducted at the power station by SECWA using standard methods for sampling and chemical analysis.

Following the testing of emission quality at commissioning, measurements of NO<sub>x</sub> concentration in the stack emission of each turbine will be conducted annually, according to specifications agreed by the Environmental Protection Authority. The results of monitoring will be reported to EPA on an annual basis. SECWA will liaise with the EPA regarding the requirement for additional emissions monitoring.

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#### **4. Groundwater Management**

Extensive specifications for safe handling of liquid substances that are potential groundwater contaminants have been developed by SECWA and have been incorporated in design and working procedures for both the construction and operation phases of the project. SECWA will manage potential groundwater contaminants at the power station according to specifications set out by the Water Authority of WA.

SECWA will conduct analyses of monitor bore samples and underdrain samples from the evaporation pond and distillate storage area on a quarterly basis, using procedures for sampling and analysis agreed by the Water Authority of WA. SECWA will report the results to EPA and the Water Authority of WA on an annual basis.

#### **5. Distillate Delivery to Pinjar**

SECWA will arrange for the Fuel Supply Contractor to maintain a distillate spillage contingency plan consistent with the Western Australian Hazardous Materials Emergency Management Scheme according to the requirements of the Water Authority of WA.

#### **6. Dieback Management**

SECWA will continue to maintain control of operations, equipment and procedures to minimize the risk of jarrah dieback disease infection in the vicinity of the power station and associated linear services according to the requirements of the CALM District Manager, Wanneroo.

#### **7. Fire Management**

SECWA will facilitate fire management practices in the region of the power station through the continued maintenance of established fire breaks, in conjunction with controlled burning programmes conducted by the WA Bush Fires Board.

## **8. Perth Airshed Study**

SECWA agree to establish, coordinate and fund a Perth Airshed study, the aim of which would be to elucidate and understand the factors governing photochemical activity in the urban area. The study would have the following major elements:

- Compilation of an emissions inventory of photochemical precursors.
- Establishment of a series of monitors to secure data on ambient levels of photochemical oxidants and precursors, together with relevant meteorological data.
- Development of a model of photochemistry and meteorology relevant to Perth.
- Assessment of Pinjar Power Station emissions' impact on urban photochemical oxidant formation.

The study will be well designed, with input from foremost Australian experts and officers of EPA. The design phase is envisaged to take several months. A target date for completion of this stage may well be mid-1991, at which stage the study would be initiated.

## **9. Retrofit for NO<sub>x</sub> Reductions**

SECWA undertake to retrofit low NO<sub>x</sub> burners to the proposed GE Frame 9 gas turbines at Pinjar after the conclusion of the study if results show that emissions from Pinjar contribute significantly to Perth airshed problems.