Ass # 174

Bull # 370

State # 061

MINISTER FOR ENVIRONMENT

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

280 MW GAS TURBINE POWER STATION, PINJAR

STATE ENERGY COMMISSION

This proposal may be implemented subject to the following conditions:

1. The proponent shall adhere to the proposal as assessed by the Environmental Protection Authority and shall fulfil the commitments made in the Notice of Intent (copy of commitments attached).

2. The proponent shall construct the powerlines from the proposed power station to the State Energy Commission's northern terminal to follow the broadly defined north-south route passing between the electromagnetic interference exclusion zones around the Royal Australian Air Force Base at Pearce and the Overseas Telecommunications Commission (Australia) station at Gnangara. The proponent shall refer details of the proposed route to the Environmental Protection Authority for assessment.

3. To protect the water resource in the vicinity of the power station from contamination by petroleum products, solvents, transformer fluids and other potential contaminants, the proponent shall, prior to the commencement of each stage of construction, provide detailed plans for the containment and disposal of these substances to the Water Authority of WA for approval.

   Plans to minimise and clean up spills and leaks of substances having the potential to pollute the groundwater resource, both at the power station site and during transport, shall be approved by the Water Authority of WA, prior to these substances being brought onto the site. These plans shall cover normal operation and emergencies.

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Prior to the commissioning of the power plant, monitoring systems to prevent and monitor pollution of groundwater shall be established by the proponent, to the satisfaction of the Water Authority of WA.

4. The proponent shall obtain the approval of the Department of Conservation and Land Management for any clearing and construction works associated with this proposal on lands managed or proposed to be managed by that Department.

5. The proponent shall be responsible for decommissioning the plant and rehabilitating the site and its environs to the satisfaction of the Environmental Protection Authority.

6. The proponent shall, at least six months prior to decommissioning, prepare a decommissioning and rehabilitation plan to the satisfaction of the Environmental Protection Authority.

Bob Pearce, MLA
MINISTER FOR ENVIRONMENT

14 MAR 1989

5.0 ENVIRONMENTAL MANAGEMENT AND MONITORING COMMITMENTS

The results of environmental evaluation, as discussed in Section 4.0, indicate that environmental management and monitoring will be necessary in the areas outlined below.

5.1 Noise

Monitoring of operational noise in the peripheral environment will be conducted at commissioning, and on an annual basis thereafter. Monitoring stations will be established at appropriate locations along the power station site boundary. The results of sound level measurement will be mathematically interpolated to provide noise levels at the buffer zone boundary.

Opportunistic measurements will also be taken at a number of locations within the station and buffer zone during the initial years of operation to establish the noise characteristics that result from the various load and weather conditions that will be typically experienced.

5.2 Atmospheric Emissions Monitoring

Stack gas analysis for NO_X will be the primary method of monitoring atmospheric emissions from the power station. The Commission will liaise with the EPA in relation to additional emission monitoring that may be technically useful.

Following initial testing of emission quality at commissioning, measurement of NO_X concentration in the stack emissions from each turbine will be conducted annually according to a method and procedure approved by the EPA. Results of monitoring will be supplied annually to the EPA.

5.3 Groundwater Management

A monitor bore will be installed at the Power Station to enable measurement of unconfined groundwater quality down-gradient of the site. Groundwater flow in

the area is west-south-westerly, therefore the most appropriate location for the monitor bore will likely be along the southern part of the western boundary fence.

The bore will penetrate the upper two thirds of the unconfined aquifer and will be constructed from PVC tubing within a gravel pack. The PVC tubing will be slotted for the full distance below the water table.

A major ion analysis will be conducted annually, whilst total hydrocarbon analysis will be conducted quarterly, using a bulked sample representative of groundwater quality over the depth of bore penetration. The results of monitoring will be provided to the Water Authority on an annual basis.

A contingency plan that details procedures to be followed in the event of an accidental distillate spillage from a fuel tanker or fuel storage facility within the Gnangara Groundwater Pollution Control Area, will be developed in consultation with the Water Authority of Western Australia.

5.4 Dieback Management

Dieback is known to be present in State Forest No. 65, therefore disease protection measures will need to be instituted for both construction and operational phases of the project. Dieback management will be conducted in consultation with CALM's District Manager Wanneroo and will include the following measures.

i) A dieback survey will be conducted at the proposed site and within the pipeline corridor and access routes prior to commencement of construction.

ii) Areas that are found to be infected will be marked out on site and will be separately treated during site preparation. A handling procedure will be developed in consultation with CALM in the event that dieback infestation is identified within the proposed power station site.

iii) All earthmoving machinery will be washed down off-site and will be inspected by CALM representatives prior to entry into State Forest areas.

iv) Vehicular movements through adjacent vegetation will be limited to those required by essential services such as gas pipeline inspection and fire break maintenance.

v) Dieback surveys along road access routes and service easements will be conducted at appropriate intervals.

5.5 Fire Management

Maintenance of firebreaks around the station will be conducted in consultation with CALM. Fire fighting equipment will be maintained on site to deal with accidental fires within the station.

Heavy vehicle crossing points will be established at one kilometre intervals along the entire length of the gas pipeline. The pipeline will be strengthened at these locations to enable heavy vehicles involved in forestry activities or fire fighting to safely cross.

Fire fighting equipment within the station will be available to CALM in the event of a fire emergency. Compensation will be applicable to machinery usage for fire fighting remote from the station.