



Ass # 821
Bull # 704
State # 329

WESTERN AUSTRALIA

MINISTER FOR THE ENVIRONMENT

**STATEMENT TO AMEND CONDITIONS APPLYING TO A PROPOSAL
(PURSUANT TO THE PROVISIONS OF SECTION 46 OF THE
ENVIRONMENTAL PROTECTION ACT 1986)**

PROPOSAL: KALGOORLIE TAILINGS RETREATMENT PROJECT
(093/821)

CURRENT PROPONENT: ANGLO AMERICAN PACIFIC LIMITED

CONDITIONS SET ON: 3 JUNE 1988

Condition 1 is amended to read as follows:

1A 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 Public Environmental Report as subsequently amended and reported on in Environmental Protection Authority Bulletin 704. (A copy of the commitments as amended in September 1993 is attached.)

1B Implementation

Subject to the conditions in this amended statement, 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.

The following condition and procedure are inserted following condition 4:

5 Compliance Auditing

In order to ensure that environmental conditions and commitments are met, an audit system is required.

- 5-1 The proponent shall prepare periodic "Progress and Compliance Reports", to help verify the environmental performance of this project, in consultation with the Environmental Protection Authority.

Published on

15 NOV 1993

Procedure

- 1 The Environmental Protection Authority is responsible for verifying compliance with the conditions contained in this statement, with the exception of conditions stating that the proponent shall meet the requirements of either the Minister for the Environment or any other government agency.
- 2 If the Environmental Protection Authority, other government agency or proponent is in dispute concerning compliance with the conditions contained in this statement, that dispute will be determined by the Minister for the Environment.

Kevin Minsog MLA
MINISTER FOR THE ENVIRONMENT

12 NOV 1993

KALGOORLIE TAILINGS RETREATMENT PROJECT (093/821)

AMENDED ENVIRONMENTAL COMMITMENTS

SEPTEMBER 1993

General

- 1-1. Appoint a rehabilitation/environmental officer responsible for all monitoring programmes, revegetation trials and liaison with CALM.

Mined Tailings Dumps

- 2-1. Restore about 300ha, staged to follow monitor station moves.
- 2-2. Conduct research on methods of rehabilitating the mined tailings dumps, and progressively establish a stable ecological community with landforms resistant to erosion and mobilisation of dust; monitor the success of rehabilitation and develop completion criteria.

New Tailings Storage

- 3-1. Salvage timber and stockpile topsoil.
- 3-2. Construct an underdrainage system to return seepage to the plant.
- 3-3. The tailings storage should maintain sufficient vacant volume to contain a rainfall event of 135mm over 24 hours, the 1:100 years event.
- 3-4. Tailings dam walls will be progressively rehabilitated, at an angle of 20 degrees or less and with regular berms, towards a stable ecological community with a landform resistant to erosion and mobilisation of dust.
- 3-5. Superseded by 3-4.
- 3-6. Superseded by 3-4.
- 3-7. Conduct research on methods of rehabilitating the upper surface of the tailings dam, and establish a stable ecological community with landforms resistant to erosion and mobilisation of dust; monitor the success of the rehabilitation and develop completion criteria.

3-8. Monitor the tailings storage throughout the project life, and commission independent and qualified consultants to review the following data recorded by the proponent to reassess the operational procedures:

- (1) Pressure heads in embankments and foundation.
- (2) Settlement of embankments.
- (3) Return water quantity and quality.
- (4) Strength of tailings in embankments.
- (5) Survey of embankment and beach levels.
- (6) Dust levels, including one year of baseline measurement.
- (7) Groundwater levels and quality in bores downstream of storage, including one year of baseline measurement.
- (8) Bird activity.

Water Supply

- 4-1. Maximize return water from tailings storage.
- 4-2. Bury water supply pipelines.
- 4-3. Minimize clearing of pipeline track by following existing easements and cleared lines as far as possible.
- 4-4. Divert pipeline around large trees, wherever possible.
- 4-5. Replace and rake soil to promote natural regrowth following pipeline installation.
- 4-6. Construct sumps to contain water discharged during drilling and testing, and at scour valves.
- 4-7. Design abstraction rates to minimize the effect on adjacent groundwater users.
- 4-8. Monitor and assess the performance of the aquifer throughout the project life.

Social

- 5-1. Provide employment for about 67 persons.
- 5-2. Provide additional housing.

Project Closure

- 6-1. The rehabilitation programme will be completed and the project sites will be cleared of debris when the project closes.