



MINISTER FOR THE ENVIRONMENT AND HERITAGE

Statement No.

000605

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

**TELFER PROJECT, POWER SUPPLY & INFRASTRUCTURE CORRIDOR
PORT HEDLAND TO TELFER GOLD MINE, GREAT SANDY DESERT**

Proposal: Supply of electrical power to the Telfer Gold Mine along a 440 kilometre infrastructure corridor from Port Hedland, as documented in schedule 1 of this statement.

The corridor will contain either a natural gas pipeline to supply a power station at the mine, or an overhead electrical transmission line delivering power from a power station located at Port Hedland.

Proponent: Newcrest Mining Limited

Proponent Address: Level 9, 600 St Kilda Road, MELBOURNE VIC 3004

Assessment Number: 1444

Report of the Environmental Protection Authority: Bulletin 1058

The proposal referred to above may be implemented subject to the following conditions and procedures:

Procedural conditions

1 Implementation and Changes

- 1-1 The proponent shall implement the proposal as documented in schedule 1 of this statement subject to the conditions of this statement.

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- 1 OCT 2002

- 1-2 Where the proponent seeks to change any aspect of the proposal as documented in schedule 1 of this statement in any way that the Minister for the Environment and Heritage determines, on advice of the Environmental Protection Authority, is substantial, the proponent shall refer the matter to the Environmental Protection Authority.
- 1-3 Where the proponent seeks to change any aspect of the proposal as documented in schedule 1 of this statement in any way that the Minister for the Environment and Heritage determines, on advice of the Environmental Protection Authority, is not substantial, the proponent may implement those changes upon receipt of written advice.

2 Proponent Commitments

- 2-1 The proponent shall implement the environmental management commitments documented in schedule 2 of this statement.
- 2-2 The proponent shall implement subsequent environmental management commitments which the proponent makes as part of the fulfilment of the conditions in this statement.

3 Proponent Nomination and Contact Details

- 3-1 The proponent for the time being nominated by the Minister for the Environment and Heritage under section 38(6) or (7) of the *Environmental Protection Act 1986* is responsible for the implementation of the proposal until such time as the Minister for the Environment and Heritage has exercised the Minister's power under section 38(7) of the Act to revoke the nomination of that proponent and nominate another person as the proponent for the proposal.
- 3-2 If the proponent wishes to relinquish the nomination, the proponent shall apply for the transfer of proponent and provide a letter with a copy of this statement endorsed by the proposed replacement proponent that the proposal will be carried out in accordance with this statement. Contact details and appropriate documentation on the capability of the proposed replacement proponent to carry out the proposal shall also be provided.
- 3-3 The nominated proponent shall notify the Department of Environmental Protection of any change of contact name and address within 60 days of such change.

4 Commencement and Time Limit of Approval

- 4-1 The proponent shall provide evidence to the Minister for the Environment and Heritage within five years of the date of this statement that the proposal has been substantially commenced or the approval granted in this statement shall lapse and be void.

Note: The Minister for the Environment and Heritage will determine any dispute as to whether the proposal has been substantially commenced.

- 4-2 The proponent shall make application for any extension of approval for the substantial commencement of the proposal beyond five years from the date of this statement to the Minister for the Environment and Heritage prior to the expiration of the five-year period referred to in condition 4-1.

The application shall demonstrate that:

- the environmental factors of the proposal have not changed significantly;
- new, significant, environmental issues have not arisen; and
- all relevant government authorities have been consulted.

Note: The Minister for the Environment and Heritage may consider the grant of an extension of the time limit of approval not exceeding five years for the substantial commencement of the proposal.

Environmental conditions

5 Compliance Audit

- 5-1 The proponent shall prepare an audit program in consultation with and submit compliance reports to the Department of Environmental Protection which address:
- the implementation of the proposal as defined in schedule 1 of this statement;
 - evidence of compliance with the conditions and commitments; and
 - the performance of the environmental management plans and programs.

Note: Under sections 48(1) and 47(2) of the *Environmental Protection Act 1986*, the Chief Executive Officer of the Department of Environmental Protection is empowered to audit the compliance of the proponent with the statement and should directly receive the compliance documentation, including environmental management plans, related to the conditions, procedures and commitments contained in this statement.

Usually, the Department of Environmental Protection prepares an audit table which can be utilised by the proponent, if required, to prepare an audit program to ensure that the proposal is implemented as required. The Chief Executive Officer is responsible for the preparation of written advice to the proponent, which is signed off by either the Minister or, under an endorsed condition clearance process, a delegate within the Environmental Protection Authority or the Department of Environmental Protection that the requirements have been met.

6 Greenhouse Gas Emissions

- 6-1 Prior to commencement of construction of the power station, the proponent shall prepare a Greenhouse Gas Emissions Management Plan to:

- ensure that “greenhouse gas” emissions from the project are adequately addressed and best available efficient technologies are used to minimise total net “greenhouse gas” emissions and / or “greenhouse gas” emissions per unit of product; and
- mitigate “greenhouse gas” emissions in accordance with the Framework Convention on Climate Change 1992, and consistent with the National Greenhouse Strategy;

to the requirements of the Minister for the Environment and Heritage on advice of the Environmental Protection Authority.

This Plan shall include:

- 1 calculation of the “greenhouse gas” emissions associated with the proposal, as indicated in “Minimising Greenhouse Gas Emissions, Guidance for the Assessment of Environmental Factors, No. 12” published by the Environmental Protection Authority;
- 2 specific measures to minimise the total net “greenhouse gas” emissions and/or the “greenhouse gas” emissions per unit of product associated with the proposal;
- 3 monitoring of “greenhouse gas” emissions;
- 4 estimation of the “greenhouse gas” efficiency of the project (per unit of product and/or other agreed performance indicators) and comparison with the efficiencies of other comparable projects producing a similar product;
- 5 analysis of the extent to which the proposal meets the requirements of the National Greenhouse Strategy using a combination of:
 - “no regrets” measures;
 - “beyond no regrets” measures;
 - land use change or forestry offsets; and
 - international flexibility mechanisms;
- 6 a target set by the proponent for the reduction of total net “greenhouse gas” emissions and/or “greenhouse gas” emissions per unit of product over time, and annual reporting of progress made in achieving this target.

Note: In part 5 above, the following definitions apply:

- (1) “no regrets” measures are those that can be implemented by a proponent which are effectively cost-neutral and provide the proponent with returns in savings which offset the initial capital expenditure that may be incurred; and
- (2) “beyond no regrets” measures are those that can be implemented by a proponent which involve some additional cost that is not expected to be recovered.

- 6-2 The proponent shall implement the Greenhouse Gas Emissions Management Plan required by condition 6-1 to the requirements of the Minister for the Environment and Heritage on advice of the Environmental Protection Authority.
- 6-3 The proponent shall make the Greenhouse Gas Emissions Management Plan required by condition 6-1 publicly available, to the requirements of the Minister for the Environment and Heritage on advice of the Environmental Protection Authority.

7 Closure Plans

- 7-1 At least six months prior to the anticipated date of closure, or at a time agreed with the Environmental Protection Authority, the proponent shall prepare a Final Closure Plan designed to ensure that the site is left in an environmentally acceptable condition to the requirements of the Minister for the Environment and Heritage on advice of the Environmental Protection Authority.

The Final Closure Plan shall address:

- 1 removal or, if appropriate, retention of plant and infrastructure in consultation with relevant stakeholders;
 - 2 rehabilitation of all disturbed areas to a standard suitable for the agreed new land use(s); and
 - 3 identification of contaminated areas, including provision of evidence of notification and proposed management measures to relevant statutory authorities.
- 7-2 The proponent shall implement the Final Closure Plan required by condition 7-1 until such time as the Minister for the Environment and Heritage determines, on advice of the Environmental Protection Authority, that the proponent's closure responsibilities are complete.
 - 7-3 The proponent shall make the Final Closure Plan required by condition 7-1 publicly available, to the requirements of the Minister for the Environment and Heritage on advice of the Environmental Protection Authority.

Procedures

- 1 Where a condition states "to the requirements of the Minister for the Environment and Heritage on advice of the Environmental Protection Authority", the Chief Executive Officer of the Department of Environmental Protection will obtain that advice for the preparation of written advice to the proponent.
- 2 The Environmental Protection Authority may seek advice from other agencies, as required, in order to provide its advice to the Chief Executive Officer of the Department of Environmental Protection.

Notes

- 1 The Minister for the Environment and Heritage will determine any dispute between the proponent and the Environmental Protection Authority or the Department of Environmental Protection over the fulfilment of the requirements of the conditions.
- 2 The proponent is required to apply for a Works Approval and Licence for this project under the provisions of Part V of the *Environmental Protection Act 1986*.

Dr Judy Edwards MLA
MINISTER FOR THE ENVIRONMENT AND HERITAGE

- 1 OCT 2002

Schedule 1

The Proposal (Assessment No. 1444)

The proposal involves supplying up to 100 megawatts of power to the Telfer Gold Mine using a 440 kilometre long power supply and infrastructure corridor from Port Hedland (see Figure 1).

Two power supply options to meet the required demand for the expansion of the Telfer Gold Mine are proposed. These options are:

1. Supplying natural gas from the existing Epic Energy Compound in Port Hedland via a buried pipeline to the Telfer Gold Mine for on-site electricity generation at a new open-cycle gas-fired power plant (Option 1a), or an open/combined cycle plant (Option 1b); or
2. Generating electricity at the existing Port Hedland Power Station and supplying power via a 220 kV overhead transmission line to the Telfer Gold Mine. Power would be generated by either using existing power generating capacity at the Port Hedland Power Station, should it become available (Option 2a), or by adding up to 100 MW of capacity to the station (Option 2b).

Although approval is being sought for both options, only one will ultimately be constructed.

The main characteristics of the proposal are summarised in tables 1 and 2 below.

Table 1 - Key Proposal Characteristics - Option 1

Element	Quantities/Description	
	Option 1a	Option 1b
Life of Project	Life of Telfer Project (approximately 25 years)	Life of Telfer Project (approximately 25 years)
Plant	Up to four open cycle gas turbines Reverse osmosis water treatment plant	Combination of up to four combined and open cycle gas turbines Reverse osmosis water treatment plant
Power Station		
Maximum Demand	Up to 100 MW	Up to 100 MW
Presently Installed Capacity	0 MW	0 MW
New Capacity	Up to 160 MW	Up to 160 MW
Fuel	Natural gas (with diesel backup facility)	Natural gas (with diesel backup facility)
Cooling Water		
Consumption	Approximately 200 megalitres per annum	Approximately 1600 megalitres per annum
Source	Telfer Project Borefields and/or mine dewatering	Telfer Project Borefields and/or mine dewatering
Greenhouse Gas Emissions (CO ₂)	Approximately 500 000 tonnes per year	Approximately 440 000 tonnes per year
Gas Pipeline		
Vegetation Disturbance	Approximately 1500 hectares during construction Approximately 85 hectares during operations	Approximately 1500 hectares during construction Approximately 85 hectares during operations
Length and Diameter	440 kilometres, 200-250 millimetres diameter	440 kilometres, 200-250 millimetres diameter
Pressure	Maximum 14.8 megapascals at Port Hedland	Maximum 14.8 megapascals at Port Hedland
Alignment	Principally parallel to existing road and rail easements between Port Hedland and Telfer, via the old mining townships of Goldsworthy and Shay Gap.	Principally parallel to existing road and rail easements between Port Hedland and Telfer, via the old mining townships of Goldsworthy and Shay Gap.

Table 2 - Key Proposal Characteristics - Option 2

Element	Quantities/Description	
	Option 2a	Option 2b
Life of Project	Life of Telfer Project (approximately 25 years). Note: The Port Hedland power station may continue operation beyond this.	Life of Telfer Project (approximately 25 years). Note: The Port Hedland power station may continue operation beyond this.
Plant	Three 40 MW gas turbines* Reverse osmosis water treatment plant* Three 12.5 metre stacks*	Addition of up to three 40 MW turbines
Power Station		
Maximum Demand	100 MW	100 MW
Installed Capacity	120 MW*	120 MW*
New Capacity	0 MW	100 MW
Fuel	Natural gas	Natural gas
Cooling Water		
Consumption	160 megalitres per annum*	Approximately 360 megalitres per annum
Source	Town water supply*	Town water supply
Plant	Three 40 MW gas turbines* Reverse osmosis water treatment plant* Three 12.5 metre stacks*	Addition of up to three 40 MW turbines
Greenhouse Gas Emissions (CO2)	Approximately 649 000 tonnes per year	Approximately 588 000 tonnes per year
Overhead Transmission Line		
Vegetation Disturbance	Approximately 600 hectares during construction. Approximately 80 hectares during operations.	Approximately 600 hectares during construction. Approximately 80 hectares during operations.
Length and Diameter	Approximately 440 km, 35 m high towers spaced at 400 m intervals.	Approximately 440 km, 35 m high towers spaced at 400 m intervals.
Alignment	Principally parallel to existing road and rail easements between Port Hedland and Telfer, via the old mining townships of Goldsworthy and Shay Gap.	Principally parallel to existing road and rail easements between Port Hedland and Telfer, via the old mining townships of Goldsworthy and Shay Gap.

* Existing and authorised infrastructure (i.e. no change required for this option).

Abbreviations

MW	Megawatt
km	kilometre
m	metre

Figure (attached)

Figure 1 - Project Location and Proposed Infrastructure Corridor

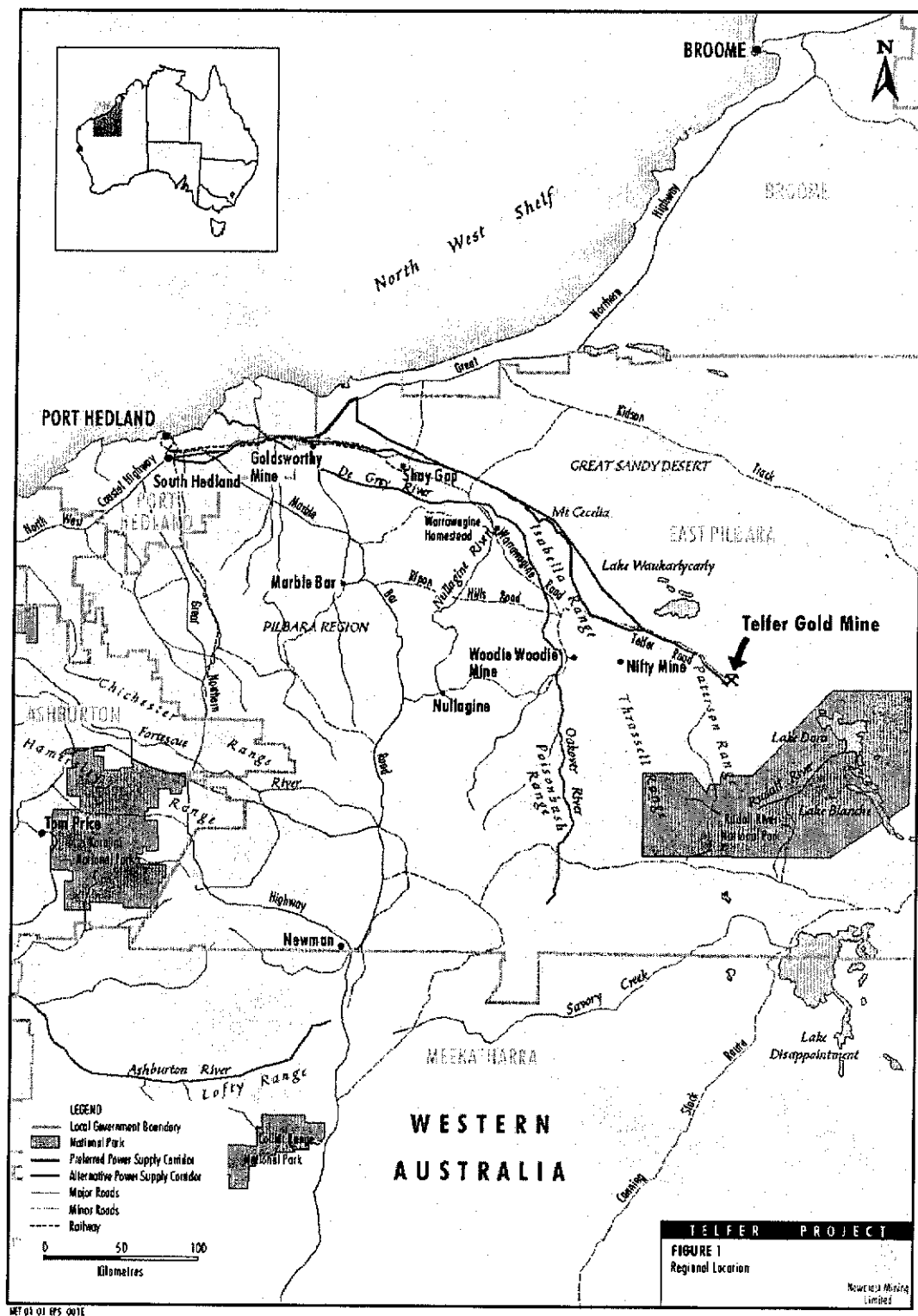


Figure 1 Project Location and Proposed Infrastructure Corridor (Source: Newcrest Mining Limited (2002))

Proponent's Environmental Management Commitments

31 July 2002

Telfer Project, Power Supply & Infrastructure Corridor
Port Hedland to Telfer Gold Mine
Great Sandy Desert
(Assessment No. 1444)

Newcrest Mining Limited

**Proponent's Environmental Management Commitments — Telfer Project, Power Supply and Infrastructure Corridor
(Assessment No. 1444)**

Number	Topic	Objective	Action	Timing	Whose Advice
1.	Environmental Management Plan.	To ensure construction, operation and decommissioning phases of the power station and gas pipeline/overhead transmission line are managed to reduce unnecessary impacts. To ensure unavoidable impacts are managed to an acceptable level.	1.1 Prepare an EMP to manage environmental impacts during the construction, operational and decommissioning phases of the project. The EMP will describe how the proponent will promote the following: <ul style="list-style-type: none"> • minimisation of disturbance areas; • protection of environmentally sensitive areas; • minimisation of impacts on native fauna and flora; • prevention of weed and pest infestations; • preservation and management of soil resources; • minimisation of dust and noise impacts; • control of erosion and sedimentation from disturbed areas; • protection of archaeological and anthropological sites/features; • rehabilitation of disturbed areas; and • management of traffic impacts. 1.2 Implement the EMP.	Prior to construction. During construction and operations.	CALM, WRC
2.	Flora and Fauna Management Plan	Maintain the abundance, diversity, geographical distribution and productivity of flora and fauna at species and ecosystems levels through the avoidance or management of adverse impacts and improvement in knowledge.	2.1 Prepare a Flora and Fauna Management Plan which addresses the following measures: <ul style="list-style-type: none"> • Pre-clearance surveys to be conducted along the actual miscellaneous licence corridor (prior to disturbance). • An environmental advisor will be employed to manage the implementation of environmental control measures. • Clearing of native vegetation will be limited to the practicable minimum required to safely construct the power supply. • Rehabilitation of disturbed areas will be performed as soon as practicable. • Open trenches or holes will be inspected each day and trapped fauna removed and relocated. • Workforce inductions will include flora and fauna protection. • Weed and pest management procedures. 2.2 Implement the Flora and Fauna Management Plan.	Prior to land disturbance (pre-clearance surveys) Construction phase.	CALM.
3.	Soil Conservation and Management Plan.	To maintain the integrity, ecological functions and environmental values of soils and landforms.	3.1 Prepare a Soil Conservation and Management Plan which: <ul style="list-style-type: none"> • documents management procedures for soil stripping, stockpiling and replacement/rehabilitation. 3.2 Implement the Soil Conservation and Management Plan:	Prior to construction. During construction	CALM.

Number	Topic	Objective	Action	Timing	Whose Advice
4.	Erosion and Sedimentation Control Plan	To minimise the potential for unacceptable rates of erosion and/or sedimentation in high risk parts of the corridor, such as areas with steeper gradients, river crossings, dune crossings and erosion-susceptible soils.	<p>4.1 Prepare an Erosion and Sedimentation Control Plan which:</p> <ul style="list-style-type: none"> documents management procedures for erosion and sedimentation control in high risk areas (such as river/creek crossing and dune crossings). <p>4.2 Implement the Erosion and Sedimentation Control Plan.</p>	<p>Prior to construction.</p> <p>During construction</p>	WRC, CALM.
5.	Noise and Dust Management Plan	To ensure that noise or dust emissions do not adversely affect environmental values or the health, welfare and amenity of people and land uses by meeting statutory requirements and acceptable standards.	<p>5.1 Prepare a Noise and Dust Management Plan which:</p> <ul style="list-style-type: none"> documents procedures for managing noise and dust emissions <p>5.2 Implement the Noise and Dust Management Plan.</p>	<p>Prior to construction.</p> <p>During construction</p>	CALM.
6.	Waste Management Plan	Ensure that wastes are contained and isolated and that recycling and reuse are maximised.	<p>6.1 Develop a Waste Management Plan addressing:</p> <ul style="list-style-type: none"> appropriate procedures for collecting, containing and disposing wastes. <p>6.2 Implement the Waste Management Plan.</p>	<p>Prior to construction.</p> <p>During construction and operation.</p>	WRC, CALM.
7.	Aboriginal heritage.	To ensure that changes to the biophysical environment do not adversely affect historical and cultural associations and comply with relevant heritage legislation.	<p>Aboriginal monitors will be employed to survey the corridor prior to construction activities and assist with the management of any sites that are found.</p> <p>The Proponent will ensure that its workforce and contractors are made aware of the requirements of the <i>Aboriginal Heritage Act, 1972</i>, not to damage or interfere with Aboriginal sites, via an induction programme. Consultation with Aboriginal groups with an interest in the Project will continue in order to address Aboriginal heritage issues that may arise.</p>	During construction	CALM, DIA, Aboriginal Communities.
8.	Rehabilitation Plan	To ensure, as far as practicable, that rehabilitation achieves a stable and functioning landform which is consistent with the surrounding landscape and other environmental values.	<p>8.1 Develop a Rehabilitation Plan addressing:</p> <ul style="list-style-type: none"> procedures for the progressive rehabilitation of disturbed areas; monitoring of rehabilitation progress for the length of the corridor; and remedial works at locations with sub-optimal rehabilitation success. <p>8.2 Implement the Rehabilitation Plan.</p>	<p>Prior to construction.</p> <p>During construction and operation.</p>	CALM, DMPR.

Number	Topic	Objective	Action	Timing	Whose Advice
9.	Bushfire Protection Plan	Prevent bushfires resulting from construction or operational activities.	9.1 Develop a Bushfire Protection Plan which: <ul style="list-style-type: none"> documents procedures for managing bushfire hazards. 9.2 Implement the Bushfire Protection Plan.	Prior to construction. During construction	CALM, DMPR.

Abbreviations

EMP Environmental Management Plan
 AER Annual Environmental Report
 CALM Department of Conservation and Land Management
 DMPR Department of Mineral and Petroleum Resources
 DIA Department of Indigenous Affairs
 WRC Water and Rivers Commission

Attachment 1 to Ministerial Statement 605

Proposal: Telfer Project, Power Supply and Infrastructure Corridor

Change to proposal under Section 45C of the *Environmental Protection Act 1986*

Alteration to pipeline route from Port Hedland to Telfer.



MINISTER FOR THE ENVIRONMENT

Our Reference: 3257/04

Your Reference:

Mr. Paul Thompson
Manager Projects and Planning
Newcrest Mining Limited
PO Box 6380
EAST PERTH WA 6892

Dear Mr Thompson

PROPOSED MODIFICATION TO PROPOSAL - TELFER POWER SUPPLY AND INFRASTRUCTURE CORRIDOR PORT HEDLAND TO TELFER GOLD MINE (STATEMENTS 605 AND 650)

Thank you for your letters and reports of 15 July and 2 August 2004 regarding a modification to the proposal for the Telfer Power Supply and Infrastructure Corridor Project. Under Section 45C of the *Environmental Protection Act 1986* I am able to approve changes to a proposal, without a revised proposal being submitted to the EPA, when it is considered that the changes will not have a significant adverse environmental impact.

On the advice of the EPA I understand that the proposed changes involve the realignment of a 21 kilometre section of the pipeline route from KP 252 to KP 273 to bypass an area that remains flooded as a result of heavy rainfall from Cyclone Fay in March 2004. The realignment would enable Newcrest to continue construction of the remaining unfinished portion of the infrastructure corridor. I also understand that you have requested approval to construct a 6 kilometre temporary work platform at KP 384 to KP 390 using 35,000 cubic meters of inert waste rock from the Telfer Mine site, which will enable construction in an area that is flooded to a depth of 0.7 metres.

I have concluded that the requested changes do not result in additional significant adverse impacts on the environment, and would produce some positive environmental outcomes, being to complete the construction as soon as possible. Approval is therefore granted under Section 45C of the *Environmental Protection Act 1986* for the requested changes detailed in your letters and report subject to the requirements that the temporary platform is removed no later than 1 year from the date of this letter.

Approval is also conditional on the Department of Industry and Resources providing comment in writing to the Department of Environment before construction commences on the temporary platform, that the waste rock can be safely removed once the gas pipeline is operational, should the waste rock and surrounding soil not be sufficiently dry for removal after the pipeline is commissioned. Should the temporary platform not be removed within this period, the change to

your project will be deemed substantial and you will therefore be operating outside of existing approvals under the *Environmental Protection Act 1986*.

I take this opportunity to remind you that you are obligated to ensure that any contractors you have working for you are required to comply with all environmental conditions and commitments detailed under Ministerial Statements 605 and 650. Should your contractors fail to meet these requirements, you as the Proponent, will be held accountable. I wish you well in the completion of your project.

Yours sincerely

A handwritten signature in cursive script that reads "Judy Edwards".

Dr. Judy Edwards MLA
MINISTER FOR THE ENVIRONMENT

19 AUG 2004

Attachment 2 to Ministerial Statement 605

Change to Proposal

Proposal: Telfer Project, Power Supply and Infrastructure Corridor

Proponent: Newcrest Mining Limited

Change: Consolidation and Amendment of Key Characteristics Table, Option 1a.
Supplying natural gas from Port Hedland via a buried pipeline to the Telfer Gold Mine for on-site electricity generation at a new open cycle gas fired power plant.

Key Characteristics Table:

<u>Element</u>	<u>Description of proposal</u>	<u>Description of approved change to proposal</u>
	Option 1a	Deleted
Life of Project	Life of Telfer Project (approximately 25 years)	Approximately 25 years
Plant	Up to four open cycle gas turbines Reverse osmosis water treatment plant	Three open cycle gas turbines and up to 12 gas fired generators Reverse osmosis water treatment plant
Power Station		
Maximum Demand	Up to 100 MW	Up to 120 MW
Presently Installed Capacity	0 MW	Removed as not environmentally significant
New Capacity	Up to 160 MW	Up to 160 MW
Fuel	Natural gas (with diesel backup facility)	Natural gas (with diesel backup facility)
Cooling Water		
Consumption	Approximately 200 megalitres per annum	Approximately 1600 megalitres per annum
Source	Telfer Project Borefields and/or mine dewatering	Telfer Project Borefields and/or mine dewatering
Greenhouse Gas Emissions (CO ₂)	Approximately 500,000 tonnes per year	Approximately 500 000 tonnes per year
Gas Pipeline		
Vegetation Disturbance	Approximately 1500 hectares during	Approximately 1500 hectares during

	construction Approximately 85 hectares during operations	construction Approximately 85 hectares during operations
Length and Diameter	440 kilometres, 200-250 millimetres diameter	440 kilometres
Pressure	Maximum 14.8 megapascals at Port Hedland	Removed as not environmentally significant
Alignment	Principally parallel to existing road and rail easements between Port Hedland and Telfer, via the old mining townships of Goldsworthy and Shay Gap.	Removed– pipeline now constructed

Note: Text in **bold** in the Key Characteristics Table, indicates change/s to the proposal. Options 1b, 2a and 2b from Schedule 1 of Statement 605 have been deleted, as they will not be implemented.

Dr Paul Vogel
CHAIRMAN
Environmental Protection Authority
under delegated authority

Approval date: 2 May 2012