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Published on 12 June 2008

Statement No. 770

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

**HAMERSLEY IRON DAMPIER PORT UPGRADE  
TO A THROUGHPUT CAPACITY OF 145 MILLION TONNES PER ANNUM**

**Proposal:** To increase the throughput of iron ore to 145 million tonnes per annum (Mtpa) at Dampier Port operations. The capacity of Parker Point operations is to be increased to 100 Mtpa by utilisation of existing equipment, and an increase in rail transport and shipping movements, as documented in schedule 1 of this statement. There is no increase in the capacity of the East Intercourse Island operations (currently 45 Mtpa).

**Proponent:** Hamersley Iron Pty. Limited

**Proponent Address:** Level 22, Central Park, 152 - 158 St George's Terrace,  
PERTH WA 6000

**Assessment Number:** 1700

**Previous Assessment Numbers:** 1489, 1586 and 1646

**Previous Statement Numbers:** 638 (published on 20 November 2003), 702 (published on 25 November 2005) and 734 (published on 12 December 2006).

**Report of the Environmental Protection Authority:** Bulletin 1265

**Previous Reports of the Environmental Protection Authority:** Bulletins 1114, 1191 and 1226.

Except where the contrary intention appears, the conditions and procedures of this statement supersede the conditions and procedures of Statement No. 702, as amended by Statement No. 734, in accordance with section 45B of the *Environmental Protection Act 1986*.

The revised proposal, to which the above reports of the Environmental Protection Authority relate, may be implemented subject to the following conditions and procedures:

Published on

## **1 Proposal Implementation**

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

## **2 Proponent Nomination and Contact Details**

2-1 The proponent for the time being nominated by the Minister for the Environment under sections 38(6) or 38(7) of the *Environmental Protection Act 1986* is responsible for the implementation of the proposal.

2-2 The proponent shall notify the Chief Executive Officer of the Department of Environment and Conservation (CEO) of any change of the name and address of the proponent for the serving of notices or other correspondence within 30 days of such change.

## **3 Time Limit of Authorisation**

3-1 The authorisation to implement the proposal provided for in this statement shall lapse and be void within five years after the date of this statement if the proposal to which this statement relates is not substantially commenced.

3-2 The proponent shall provide the CEO with written evidence which demonstrates that the proposal has substantially commenced on or before the expiration of five years from the date of this statement.

## **4 Compliance Reporting**

4-1 The proponent shall submit to the CEO environmental compliance reports annually reporting on the previous twelve-month period, unless required by the CEO to report more frequently.

4-2 The environmental compliance reports shall address each element of an audit program approved by the CEO and shall be prepared and submitted in a format acceptable to the CEO.

4-3 The environmental compliance reports shall:

1. be endorsed by signature of the proponent's General Manager or a person, approved in writing by the CEO, delegated to sign on behalf of the proponent's General Manager;
2. state whether the proponent has complied with each condition and procedure contained in this statement;

3. provide verifiable evidence of compliance with each condition and procedure contained in this statement;
4. state whether the proponent has complied with each key action contained in any environmental management plan or program required by this statement;
5. provide verifiable evidence of conformance with each key action contained in any environmental management plan or program required by this statement;
6. identify all non-compliances and non-conformances and describe the corrective and preventative actions taken in relation to each non-compliance or non-conformance;
7. review the effectiveness of all corrective and preventative actions taken; and
8. describe the state of implementation of the proposal.

4-4 The proponent shall make the environmental compliance reports required by condition 4-1 publicly available in a manner approved by the CEO.

## **5 Performance Review**

5-1 The proponent shall submit a Performance Review report every five years, commencing upon the issuing of a formal notice by the Minister for the Environment under section 45(7) of the *Environmental Protection Act 1986*, to the Environmental Protection Authority, which addresses:

1. the major environmental issues associated with implementing the project; the environmental objectives for those issues; the methodologies used to achieve these; and the key indicators of environmental performance measured against those objectives;
2. the level of progress in the achievement of sound environmental performance, including industry benchmarking, and the use of best available technology where practicable;
3. significant improvements gained in environmental management, including the use of external peer reviews;
4. stakeholder and community consultation about environmental performance and the outcomes of that consultation, including a report of any on-going concerns being expressed; and
5. the proposed environmental objectives over the next five years, including improvements in technology and management processes.

5-2 The proponent shall make the Performance Review reports required by condition 5-1 publicly available in a manner approved by the CEO.

## **6 Dust**

6-1 Within six months following the Minister for the Environment issuing a notice under section 45(7) of the *Environmental Protection Act 1986*, the proponent shall update the Dust Monitoring Program referred to in the Environmental Protection Statement (Dampier Port Increase in Throughput to 145 Mtpa - Revision 5, September 2007) in consultation with the Department of Environment and Conservation, the Department of Health and the Dampier Port Authority to the requirements of the Minister for the Environment.

The objectives in updating the Dust Monitoring Program are to:

1. Establish the port operations' contribution to PM<sub>10</sub> dust levels in the town of Dampier and Total Suspended Particulate (TSP) dust levels in the King Bay Industrial Area respectively;
2. Undertake short-term PM<sub>10</sub> monitoring (at hourly intervals) in the town of Dampier and short term TSP monitoring (at 24-hourly intervals) at the King Bay Industrial Area;
3. Identify the number of times the 24 hour average TSP emissions (referred to in condition 6-1(2)), exceed 150µg/m<sup>3</sup> in the King Bay Industrial Area attributable to the port operations, and identify and implement actions to reduce TSP emissions when an exceedance occurs;
4. Establish a real-time dust monitoring network to provide an early warning system of when PM<sub>10</sub> impacts on the town of Dampier are likely to exceed 50 µg/m<sup>3</sup> and when TSP impacts on the King Bay Industrial Area are likely to exceed 150 µg/m<sup>3</sup>; and
5. Establish an annual summary report for submission to the CEO, of the PM<sub>10</sub> impacts on the town of Dampier and TSP impacts on the King Bay Industrial Area.

6-2 The proponent shall include within the updated Dust Monitoring Program the Monitoring Actions as outlined in schedule 2.

6-3 Within 12 months following the formal authority issued by the Minister for the Environment under section 45(7) of the *Environmental Protection Act 1986*, the proponent shall implement the approved updated Dust Monitoring Program referred to in condition 6-1.

6-4 The proponent shall make the updated Dust Monitoring Program referred to in condition 6-1 publicly available in a manner approved by the CEO.

- 6-5 Within 12 months following the Minister for the Environment issuing a notice under section 45(7) of the *Environmental Protection Act 1986*, the proponent shall undertake field measurements to validate the emissions and dust characteristics used to model dust impacts on the town of Dampier and the King Bay Industrial Area as published in the dust dispersion report contained in Appendix B of the proponent's Environmental Protection Statement (Dampier Port Increase in Throughput to 145 Mtpa – Revision 5, September 2007).
- 6-6 Within 18 months following the Minister for the Environment issuing a notice under section 45(7) of the *Environmental Protection Act 1986*, the proponent shall provide a report to the CEO on the findings of the validation required by condition 6-5.
- 6-7 Within six months following the Minister for the Environment issuing a notice under section 45(7) of the *Environmental Protection Act 1986*, the proponent shall, in consultation with the Department of Environment and Conservation, the Department of Health and the Dampier Port Authority, update the Dust Management Plan referred to in the Environmental Protection Statement (Dampier Port Increase in Throughput to 145 Mtpa - Revision 5, September 2007).
- 6-8 The Dust Management Plan shall incorporate a program of works and outline operational procedures to be implemented in order to achieve a significant reduction in dust impacts of the proposal on the town of Dampier and the King Bay Industrial Area.
- 6-9 The Dust Management Plan shall include the Management Actions as outlined in schedule 3.
- 6-10 The proponent shall implement the Dust Management Plan referred to in conditions 6-7, 6-8 and 6-9.
- 6-11 The proponent shall review the Dust Management Plan on an annual basis.
- 6-12 The proponent shall make the Dust Management Plan referred to in conditions 6-7, 6-8, 6-9 and 6-10 publicly available in a manner approved by the CEO.

## **7 Noise Management**

- 7-1 The proponent shall *within 6 months following the Minister for the Environment issuing a notice under section 45(7) of the EP Act 1986* submit an application under Regulation 17 of the *Environmental Protection (Noise) Regulations 1997* prepared in consultation with the Department of Environment and Conservation.

The Regulation 17 application shall:

1. clearly outline all reasonable and practicable noise abatement measures to be implemented in the operations in order to minimise noise impacts on the town of Dampier;
2. include timelines for implementation of noise abatement measures;

3. determine stepped target  $LA_{10}$ ,  $LA_1$  and  $LA_{max}$  noise levels which can be met by the operations at the nearest noise-sensitive premises under worst-case meteorological conditions during the implementation period of the noise abatement measures, if it is determined that the *Environmental Protection (Noise) Regulations 1997* cannot be met;
4. determine whether the noise character is free of annoying characteristics i.e. tonality, modulation or impulsiveness;
5. outline maintenance and operating procedures to be adopted to minimise noise emissions. Consideration should be given to restricting noisy activities outside normal hours of operation; and
6. outline compliance monitoring and reporting.

Note: Normal operating hours are 0700 to 1900 hours Monday to Saturday, excluding public holidays.

7-2 Within 12 months following the Minister for the Environment issuing a notice under section 45(7) of the *Environmental Protection Act 1986*, the proponent shall review and revise the Environmental Noise Management Program, including the Noise Improvement Plan, referred to in Statement No. 702 and the Environmental Protection Statement (Dampier Port Increase in Throughput to 145 Mtpa - Revision 5, September 2007) to include:

1. the establishment of a second permanent noise monitor;
2. remote communications and real-time noise level data recording capability for the two noise monitoring stations;
3. a trial and then implementation of 'safe, effective and practical' noise measures to reduce:
  - (1) noise levels from plant alarms;
  - (2) the duration of the conveyor start-up alarm;
  - (3) alarm noise levels from reversing vehicles located onsite; and
  - (4) reverse alarm noise from vehicles operating offsite; and
4. an investigation into practical opportunities to reduce train noise impacts, to the requirements of the Department of Environment and Conservation.

7-3 The proponent shall:

1. provide noise monitoring results arising from condition 7-2(2) to the Dampier Community in an open and transparent manner to the requirements of the Minister for the Environment.

2. consult the Coastal Community Environmental Forum on noise data reporting;
3. provide a Noise Monitoring Report to the Department of Environment and Conservation annually, unless varied through a Regulation 17 approval; and
4. update the Noise Improvement Plan referred to in the Environmental Protection Statement (Dampier Port Increase in Throughput to 145 Mtpa - Revision 5, September 2007) annually and report on progress against planned noise abatement measures in consultation with the Department of Environment and Conservation. (In the event that a Regulation 17 approval is granted, any reporting requirements under that regulation shall take precedence).

## **8 Water Management Plan**

- 8-1 Within 12 months following the formal authority issued by the Minister for the Environment under section 45(7) of the *Environmental Protection Act 1986*, the proponent shall update the Water Management Plan referred to in the Environmental Protection Statement (Dampier Port Increase in Throughput to 145 Mtpa - Revision 5, September 2007) in consultation with the Department of Water and the Water Corporation.

The objective of this Plan is to decrease the quantity of water used at the Port by increasing efficiency in water use.

This Plan shall include:

1. a detailed water balance analysis;
2. a summary of metering and measurement capacity which includes a description of meter placement, monitoring regime and performance targets agreed with the Minister for the Environment and periodically reviewed;
3. detailed reporting on the efficiency gains from recycling activities;
4. a management system which shows how monitoring activities are linked to defined efficiency targets and improvement plans so that continuous improvement can occur;
5. schedules for review of the Plan and water balance; and
6. a clear strategy for continuous improvement in water use efficiency.

- 8-2 The proponent shall implement the Water Management Plan referred to in condition 8-1.

8-3 The proponent shall make the Water Management Plan referred to in condition 8-1 publicly available in a manner approved by the CEO.

8-4 The proponent shall update the Water Management Plan referred to in condition 8-1 every two years until advised otherwise by the CEO.

**Notes**

1. The Environmental Protection Authority may seek advice from other agencies or organisations, as required, in order to provide its advice to the Department of Environment and Conservation.
2. The Minister for the Environment will determine any dispute between the proponent and the Environmental Protection Authority or the Department of Environment and Conservation over the fulfilment of the requirements of the conditions.

David Templeman MLA  
MINISTER FOR THE ENVIRONMENT; CLIMATE CHANGE; PEEL



**The Proposal (Assessment No. 1700)**

**General Description**

The proposal is for increased throughput of iron ore at Dampier Port operations to 145 million tonnes per annum (Mtpa). The Dampier Port operations comprise facilities at Parker Point and East Intercourse Island. The capacity of Parker Point operations is to be 100 Mtpa by utilisation of existing equipment, and an increase in rail transport and shipping movements. This proposal does not include any new capital works nor any increase in the capacity of the East Intercourse Island operations beyond the currently approved 45 Mtpa.

The proposal is described in the following document – *Environmental Protection Statement - Dampier Port Increase in Throughput to 145Mtpa* (Version 5, September 2007).

**Summary Description**

A summary of the key proposal characteristics is presented in Table 1.

**Table 1 – Summary of Key Proposal Characteristics**

Note: East Intercourse Island characteristics omitted as there is no change in throughput there.

<b>Element</b>	<b>Parker Point</b>
Project life	50 years approximately
Total Port capacity	145 million tonnes per annum
Parker Point capacity	100 million tonnes per annum approximately
Nominal Parker Point berth capacity	220,000 deadweight tonnage (DWT)
Wharf length	895 metres
Number of ship loading berths	2 at 220,000 DWT and 2 at 180,000 DWT
Blending stockpile capacity	4.7 million tonnes per annum approximately
Bulk stockpile capacity	2.8 million tonnes per annum approximately
Number of train arrivals	10 – 11 per day
Facility footprint	Not more than 190 hectares
Major plant components	2 Car Dumpers 2 Lump Re-screening Plants 2 Sample Stations 4 Stackers 3 Reclaimers 2 Ship loaders 24 Stockpiles
Plant operation	24 hours per day, 7 days per week.
Water requirements	Not more than 2,520 MLpa (Parker Point and East Intercourse Island plus Town and Rail)
Shipping movements	700 ships per annum approximately
Greenhouse Gas Emissions	129,251 tCO <sub>2</sub> -e approximately
Emissions per railed tonne received	0.89 kgCO <sub>2</sub> -e/t approximately

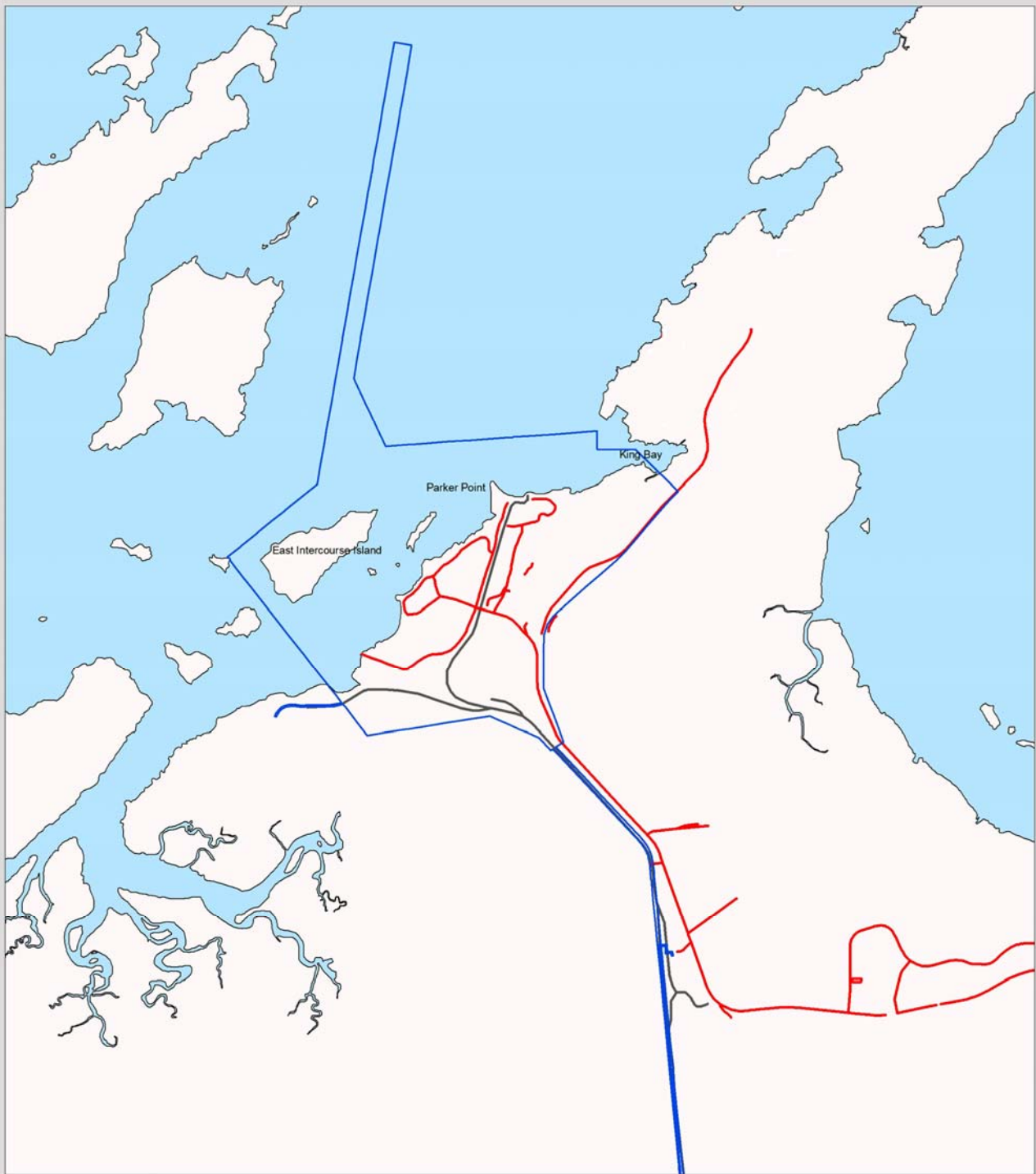
**Figures (attached)**

Figure 1 – Location Plan.




Figure 2 – Layout of Dampier Operations.

Dampier Operations - Capacity Expansion  
Locality Plan

Map Version: 1  
Map Create Date: 26/09/2007  
Map Create By: E. Sutherland



LEGEND

-  Dampier Port Operations Boundary
-  Railway
-  Roads

LOCALITY MAP



0 1.5 3 6 km



Projection: Map Grid of Australia Zone 50  
Datum: Geocentric Datum of Australia, 1994  
Scale: 1:115,018



Figure 1: Location Plan



*Figure 2: Layout of Dampier Operations*

## DUST MONITORING PROGRAM

### Monitoring Actions

The proponent shall:

- 1 Conduct a study of the mineralogical composition of iron ore transported to Dampier Port Operations from each of its iron ore mines, to determine levels of residual heavy metal and asbestos impurities.
- 2 The proponent shall complete the study referred to in 1. above within 9 months from the Minister for the Environment issuing a notice under section 45(7) of the *Environmental Protection Act 1986* and shall provide a copy of the written findings of the study to the Department of Health within one month of completion of the study.
- 3 Conduct monthly dust sample speciation or a method approved by the CEO to determine the percentage of dust received at the town of Dampier and King Bay Industrial Area attributable to the proposal, when the wind direction is within the arc of influence of 29° – 59° and 201° – 305° at Dampier Primary School and 198° – 249° at King Bay site. The speciation should be undertaken on a dust sample representative of dust received during a calendar month for a period of 12 months. The dust sample speciation shall commence on implementation of the updated Dust Monitoring Program.
- 4 Conduct real-time monitoring of TSP and PM<sub>10</sub> ambient dust levels, wind speed and direction. The monitoring shall commence on implementation of the updated Dust Monitoring Program.
- 5 Conduct 10-minute sampling at the Real Time TEOM Monitor located at Dampier Primary School and King Bay Industrial Area during short-term TSP dust impacts. The sampling shall commence on implementation of the updated Dust Monitoring Program.

Note: A “short term TSP dust impact” is where the *Environmental Protection (Kwinana Atmospheric Wastes) Policy and Regulations 1999 (KEPP)* goal of 150 µg/m<sup>3</sup> is exceeded for 1 hour.

- 6 Ensure conformity with Australian Standard AS 2923 (1987), *Ambient Air - Guide for Measurement of Horizontal Wind for Air Quality Applications* at a 90% return rate over the calendar year.
- 7 Submit annual written reports to the CEO providing a summary of hourly averages of real-time monitoring as outlined in 4 above and submit 10-minute data to the CEO upon request.

Note: Consideration should be given to reporting the annual frequency at which TSP dust levels (sampled in accordance with ‘a method approved by the CEO’, at the dust monitors) exceed 200 micrograms per cubic metre (µg/m<sup>3</sup>) when the wind direction is between 28° - 59° and 201° - 305° for Dampier and 198° - 249° for King Bay.

## Schedule 2 (cont'd)

- 8 Submit an annual report to the CEO providing a summary of the dust sample speciation results as required by 3 above.
- 9 Where the proponent makes a “significant contribution” to dust levels at the town of Dampier and the King Bay Industrial Area, the proponent shall report this to the CEO.

Note: The proposal’s contribution to dust levels at Dampier and King Bay is considered to be a “significant contribution” when the wind direction is within the arc of influence of 28° - 59° and 201° - 305° and 198° - 249° respectively, unless the proponent demonstrates by a method approved by the CEO that more than 50% of the dust was generated by other sources.

- 10 The proponent shall submit an annual trend analysis of TSP and PM<sub>10</sub> dust levels compared with benchmarked performance, dust monitoring performance, exceedences of dust amenity targets and health criteria, community complaints and progress on dust remediation works to the CEO within 12 months following the implementation of the Dust Monitoring Program.
- 11 The report referred to in action 10 above is to be publicly available and forwarded to the relevant agencies.
- 12 The proponent shall post real-time monitoring results of TSP and PM<sub>10</sub> dust levels on its web site or in another form approved by the CEO.

## DUST MANAGEMENT PLAN

### Management Actions

1 The Dust Management Plan shall include:

- (1) A review of current operational and maintenance procedures with the objective of ensuring that all reasonable and practicable measures are being implemented to minimise dust emissions from the proposal.
- (2) The preparation of a schedule of works and operational procedures to be implemented with the objective of reducing dust impacts from the proposal on the town of Dampier and the King Bay Industrial Area.

Note: The works and operational procedures should include optimising the performance of dust suppression equipment, and restricting potentially dusty operations during adverse weather conditions. The Plan should also include short-term response process and actions which may be implemented as a result of exceedances of dust criteria.

- (3) Identification of potential dust remediation works and the preparation of a timeline for the implementation of the dust remediation works.
- (4) Identification of the mineralogical composition of iron ore transported to Dampier Port Operations.

2 The proponent shall:

- (1) Submit an annual summary report on the progress of dust remediation works to the CEO within 12 months of the formal authority issued to the decision-making authorities under section 45(7) of the *Environmental Protection Act 1986*.
- (2) Identify and implement management actions, mitigation measures and dust event investigation procedures when the wind direction is within the arc of influence of 28° - 59° and 201° - 305° and 198° - 249° if a short-term dust impact occurs or the dust levels recorded at the town of Dampier and/or the King Bay Industrial Area exceed the National Environmental Protection Measure (NEPM) PM<sub>10</sub> standards or the *Environmental Protection (Kwinana) (Atmospheric Wastes) Policy 1999*.
- (3) Record all exceedances of the NEPM 24-hour TSP and PM<sub>10</sub> standards recorded at any of the monitoring sites within the town of Dampier and the King Bay Industrial Area.
- (4) Submit a report of all exceedances recorded under management action 2(3) above to the CEO within five days after being recorded and identify within the report:
  1. The source/s of the dust (as far as practicable); and
  2. Where the exceedances are attributed to dust from the proposal, include a description of the management actions taken, or proposed to be taken, by

the proponent to reduce the proposal's emissions to below the NEPM 24-hour  $PM_{10}$  standard (action trigger level).

### **Schedule 3 (cont'd)**

- (5) Record and investigate community complaints including those raised by the Coastal Community Environmental Forum and make this information available to the CEO upon request.



## Attachment 1 to Statement 770

### Change to Proposal

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**Proposal:** Hamersley Iron Dampier Port upgrade to a throughput capacity of 145 Million tonnes per annum

**Proponent:** Hamersley Iron Pty Ltd

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**Change:** Increase in throughput capacity at Dampier Port to 160 Mtpa to be achieved by the installation of two new surge bins and some additional conveyors at Parker Point

#### Key Characteristics Table:

<b>Element</b>	<b>Description of proposal</b>	<b>Description of approved change to proposal</b>
Total Port Capacity	145 million tonnes per annum	160 million tonnes per annum
Parker Point Capacity	100 million tonnes per annum	115 million tonnes per annum

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**Dr Paul Vogel**  
CHAIRMAN  
Environmental Protection Authority  
under delegated authority

Approval date: 25 June 2010