

Introduction

This Annual Audit Compliance Report (AACR) is submitted to meet Condition 5 of Ministerial Statement 728 for Wagerup Refinery. It covers the period from 1 January 2010 to 31 December 2010.

In May 2005 Alcoa submitted its Environmental Review and Management Programme to the EPA, seeking approval to increase production from 3.3 Mtpa to 4.7 Mtpa. In September 2006 Ministerial Statement 728 was released detailing the conditions of approval for expansion of Wagerup Refinery. The conditions of Statement 728 supersede statements 564, 390 and 95.

Current Status

Ministerial Statement 728 relates to the ongoing operation of the Wagerup Refinery and a project to expand refinery production to 4.7 Mtpa. The expansion project (Wagerup 3) has been suspended and accordingly, many of the Conditions within Statement 728 were not applicable during the period covered by this AACR.

Compliance

During the reporting period, I confirm that Alcoa has complied with all of its Conditions. See the attached Audit Table for more information.

Environmental Monitoring and Research

Please refer to the Wagerup Refinery 2010 Annual Environmental Report for detailed analysis of environmental monitoring conducted during the reporting period and for a summary of research undertaken. This report is submitted to the DEC annually prior to 1 April.

A brief summary of the applicable environmental research completed is provided below.

Dust Suppression Alternatives

Several alternatives to the use of water for dust suppression were used on residue embankments and drying areas in 2010:

- New pasture was planted on existing embankments. This is considered best practice dust control and completely removes the requirement to apply water once established.
- Application of mulch to exposed areas has continued to provide successful dust suppression.

Residue Re-use Alternatives

A number of opportunities for residue re-use continue to be investigated as part of Alcoa's research and development program based at Kwinana. Alcoa's primary focus is currently on Residue Sand and Alkaloam, although research into Red Lime and Geopolymers is continuing.

Alkaloam

A detailed sustainability review of the use of Alkaloam in the Peel-Harvey catchments has been undertaken by the Centre for Sustainable Resource Processing (CSRP). This study has drawn together all available information on the use of Alkaloam and makes a number of recommendations for potential use into the future. The report was released for public comment during 2010, and a final report including public comment and feedback is available on the CSRP website.

DAFWA have submitted a Project Compliance Report to the DEC, seeking clearance of all outstanding commitments stemming from the EPA approval for use of Alkaloam in the Peel Harvey Catchment as an agricultural soil amendment.

Reuse of Red Sand™

Alcoa's residue sand is currently used for the construction of residue storage areas, with excess being stored within the residue storage areas. Alcoa has developed a process to wash and carbonate the sand so that it can be used as a building and construction material. The resulting product is known as Red Sand™.

It is proposed that Red Sand™ be used in a limited number of applications, including top dressing of turf for recreational uses, road construction, industrial land development, and limited uses in urban land development within subsurface drainage systems.

A trial pilot plant operated at Alcoa's Wagerup refinery in Australia produced Red Sand™ that has been used by the Department of Main Roads in a road construction trial on Greenlands Road (Pinjarra, Western Australia), and by Fairbridge Village (Pinjarra, Western Australia) to top-dress its main oval. Red Sand™ is well structured and has phosphate retention properties. Red Sand™ has also been assessed as a growth medium for turf production, as a top dressing soil for golf courses, for concrete production and as a general fill material for land reclamation.

In the immediate future, a controlled trial and monitoring program is being planned to confirm suitability for industrial landfill applications in conjunction with potential customers of the sand. Further trials are being planned for golf course top dressing, leading to potential applications in both local and export markets.

Alcoa is progressing with a number of evaluations including health risk assessment, radiological assessment and environmental assessment. A joint venture partner has been engaged under the terms of a Memorandum of Understanding to help Alcoa confirm the feasibility of the project.

Stakeholder Consultation

Throughout the reporting period Alcoa continued to engage with immediate neighbours, government representatives and community groups to discuss and encourage feedback on key aspects related to Alcoa's operations and environmental performance.

Community meetings, local media articles, and one-on-one discussions were utilised to provide information and seek community input on key aspects. Wagerup maintained a 24-hour/7-day free-call complaints response service and dedicated resources to respond to complaints throughout 2010.

Neighbours

Residents living in towns between Waroona to Harvey are considered key stakeholders based on their proximity to the Refinery.

Wagerup Community Consultative Network

The Wagerup Community Consultative Network (CCN) was formed in June 2000. The CCN is an open forum with any interested party welcome to attend. The group generally meets monthly and is comprised primarily of representatives from Waroona and Yarloop, the Shire of Waroona and Harvey as well as other interested stakeholders and Alcoa Wagerup management.

Most meetings include a guest speaker who is available to respond to enquiries about topics relevant to the group. Community members are encouraged to raise matters with the CCN by writing to the Wagerup CCN Chairperson (an elected community member from the group) or by contacting one of the members directly.

CCN meeting minutes and locations (which rotate between Yarloop and Waroona) are published in the local paper to ensure broad community access to the information discussed. All interested members of the community are invited to attend CCN meetings.

Wagerup Tripartite Group

Alcoa is a key stakeholder in the DEC convened Wagerup Tripartite Group, which was established in early 2004 as the primary consultative forum for the Wagerup Refinery environmental licence.

Alcoa is represented on the group by the Wagerup Environmental Manager. In addition, various specialist representatives, including research personnel and the Refinery Manager, attend meetings to provide information on key discussion points.

Local Government

Wagerup Refinery is situated in the Shire of Waroona, however Alcoa also has significant landholdings in the Shire of Harvey. Neighbours of the Refinery reside in both Shires.

Regular contact was maintained with both Shires during 2010 through Council briefings and one-on-one discussions with Shire officers including Chief Executive Officers, Shire Planners, Shire Environmental Health Officers and Shire Community Services Officers.

Informal discussions were also ongoing between Alcoa and Shire representatives.

AUDIT TABLE

Proposal Implementation Monitoring Section

PROJECT: Wagerup Alumina Refinery-Production to a maximum capacity of 4.7 million tonnes per annum and associated bauxite mining

Note:

- Phases that apply in this table = **Pre-Construction, Construction, Operation, Decommissioning, Overall (several phases)**
- This audit table is a summary and timetable of conditions and commitments applying to this project. Refer to the Minister's Statement for full detail/precise wording of individual elements.
- Code prefixes: M = Minister's condition; P = Proponent's commitment; A = Audit specification; N = Procedure.
- Any elements with status = "Audited by proponent only" are legally binding but are not required to be addressed specifically in compliance reports, if complied with.
- Acronyms list:- Minister for the Environment - Min for Env; Chief Executive Officer - CEO; Department of Environment – DoE (now DEC – Dept of Environment and Conservation); Evaluation Division - Part IV; Pollution Prevention Division - Part V; Waste Management Division - WMD; Department of Conservation and Land Management - CALM; Department of Minerals and Energy - DME; Environmental Protection Authority - EPA; Health Department of WA - HDWA; Water and Rivers Commission - WRC; Bush Fires Board - BFB.

| Audit Code | Subject | Action | How | Evidence | Satisfy | Advice | Phase | When | Status |
|------------|--|---|--|--|-------------|--------|--------------|---|---|
| 728:G | | | | | | | | | |
| 728:M1.1 | Implementation | The proponent shall implement the proposal as documented and described in schedule 1 of this statement and previous Assessment Bulletins, subject to the conditions and procedures of this Implementation Statement. | As per any designs, specifications of schedule 1 of Statement 728 and EPA report as well as, plans or other technical material submitted with the Works Approval Application. | Annual Compliance Report (CR) | Min for Env | | Overall | | Proposal not implemented as project has been suspended. |
| 728:M2.1 | Proponent Environmental Management Commitments | The proponent shall fulfill the environmental management commitments contained in schedule 2 of this statement. | Refer to comments provided for schedule 2 (1) to (13) | CR | Min for Env | | Overall | | Refer to comments provided for schedule 2 (1) to (13) |
| 728:M3.1 | Proponent Nomination and Contact Details | The proponent for the time being nominated by the Minister for the Environment 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 has exercised the Minister's power under section 3 8(7) of the Act to revoke the nomination of that proponent and nominate another person as the proponent for the proposal. | Letter to the Min for Env outlining any changes to the proponent. | CR | Min for Env | | Overall | | No change to proponent during the reporting period. |
| 728:M3.2 | Proponent Nomination and Contact Details | If the proponent wishes to relinquish the nomination, the proponent shall apply for the transfer of proponent under section 3 (6a) and provide the name and address of the person who will assume responsibility for the proposal, together with a letter from that person which states that the proposal will be carried out in accordance with the conditions and procedures of this statement, and documentation on the capability of that person to implement the proposal and fulfill the conditions and procedures. | Letter to the Minister for Environment providing details of new proponent and confirming they will fulfill all obligations of approval. | Letter to Min for Env requesting change to proponent | Min for Env | | Overall | | No change to proponent during the reporting period. |
| 728:M3.3 | Proponent Nomination and Contact Details | The nominated proponent shall notify the Department of Environment and Conservation of any change of the name and address of the proponent within 30 days of such change. | Letter to DEC outlining any changes to the proponent within 30 days, | Letter to DEC notifying change of name and address | Min for Env | | Overall | Within 30 days of such change | No change to proponent during reporting period. |
| 728:M4.1 | Time limit of approval to commence | The proponent shall provide evidence to the Department of Environment and Conservation that the revised proposal has been substantially commenced within five years following the date of this statement or the approval granted in this statement shall lapse and be void, | Letter to DEC providing evidence that proposal has substantially commenced by 14 Sept 2011. | Letter including photographic evidence sent to DEC to confirm that project has substantially commenced | Min for Env | | Construction | Within five years following the date of this statement | Condition not triggered during reporting period. |
| 728:M4.2 | Time limit of approval to commence | The proponent shall make an application for any extension of approval for the substantial commencement of the proposal to the Minister for the Environment within four years and six months following the date of this statement which shall demonstrate that: 1. the environmental factors of the proposal reported in Bulletin 1215 have not changed significantly; 2. new, significant, environmental factors have not arisen; and 3. All relevant government authorities and stakeholders have been consulted. | Letter to the Minister for Environment to apply for an extension, that demonstrates: <ul style="list-style-type: none">• the environmental factors reported in bulletin 1215 have not changed significantly• no new <i>significant</i> environmental factors have arisen• All relevant government authorities and stakeholders have been consulted. | Letter to Min for Env requesting an extension to the approval for substantial commencement. | Min for Env | | Construction | Within four years and six months following the date of this statement | Condition not triggered during reporting period. |
| 728:M5.1 | Compliance Reporting | The proponent shall submit annually an audit compliance report, for the previous twelve-month period. | Submit an Audit Compliance Report to DEC annually | CR | Min for Env | | Overall | Annually | The most recent Annual Audit Compliance Report was |



AUDIT TABLE

Proposal Implementation Monitoring Section

PROJECT: Wagerup Alumina Refinery-Production to a maximum capacity of 4.7 million tonnes per annum and associated bauxite mining

| Audit Code | Subject | Action | How | Evidence | Satisfy | Advice | Phase | When | Status |
|------------|----------------------|--|---|---|---------|--------|---------|---|---|
| | | | <p>The audit compliance report shall:</p> <ol style="list-style-type: none"> 1. be endorsed by the proponent's Managing Director or a person, approved in writing by DEC, delegated to sign on the proponent's Managing Director's behalf; 2. Include a statement as to whether the proponent has complied with the conditions, procedures, commitments and actions within the Environmental Management Plans; 3. identify all non-compliances and describe the related corrective and preventative actions taken; 4. review the effectiveness of all corrective and preventative actions taken; 5. provide verifiable evidence of compliance with the conditions, procedures and commitments; 6. describe the state of implementation of the proposal; and 7. be prepared in accordance with an audit program and in a format acceptable to the DEC | | | | | | submitted in March 2010 for the period January 2009 to December 2009. |
| 728:M5.2 | Compliance Reporting | The proponent shall make the audit compliance report publicly available in a manner approved by the Department of Environment and Conservation. | Make the audit compliance report publicly available through publication on the Alcoa website | CR | DEC | | Overall | | The 2010 AACR was published to the Alcoa website and is publically available. |
| 728:M6.1 | Performance Review | The proponent shall submit a Performance Review Report to the Environmental Protection Authority every five years after commissioning of the revised proposal. | <p>Submit a report to EPA every 5 years after commissioning which addresses:</p> <ol style="list-style-type: none"> 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 | Performance Preview Report (PPR) submitted every five years after the commissioning of the revised proposal | EPA | | Overall | Every five years. after commissioning of the revised proposal | Condition not triggered during reporting period. |



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| Audit Code | Subject | Action | How | Evidence | Satisfy | Advice | Phase | When | Status |
|------------|--|---|---|---|-------------|--------|------------------|--|---|
| | | | being expressed 5. The proposed environmental objectives of the next five years, including improvements in technology and management processes. | | | | | | |
| 728:M7.1 | Decommissioning Plan | Within two years following the date of this Statement, the proponent shall prepare a Preliminary Decommissioning Plan for approval by the Department of Environment and Conservation, which describes the framework to ensure that the site is left in an environmentally acceptable condition, and provides: 1. the rationale for the siting and design of plant and infrastructure as relevant to environmental protection; 2. a conceptual description of the final landform at closure; 3. a plan for a care and maintenance phase; and 4. initial plans for the management of noxious materials. | Submit Preliminary Decommissioning Plan to DEC for approval by 14 September 2008. The plan must describe the framework to ensure that the site is left in an environmentally acceptable condition and provide: 1. the rationale for the siting and design of plant and infrastructure as relevant to environmental protection; 2. a conceptual description of the final landform at closure; 3. a plan for a care and maintenance phase; and 4. Initial plans for the management of noxious materials. | Preliminary Decommissioning plan submitted. | DEC | | Operation | Within two years following the date of this Statement | Preliminary Decommissioning Plan was submitted to the DEC on 12 September 2008. |
| 728:M7.2 | Decommissioning Plan | At least six months prior to the anticipated date of closure, or at a time agreed by the Environmental Protection Authority, the proponent shall submit a Final Decommissioning Plan designed to ensure that the site is left in an environmentally acceptable condition prepared on advice of the Environmental Protection Authority, for approval of the Department of Environment and Conservation. | Submit a Final Decommissioning Plan at least six months prior to the anticipated date of closure, or at a time agreed by the EPA Prepare the plan in liaison with the EPA for approval by the DEC The Final Decommissioning 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 uses(s); and 3. Identification of contaminated areas, including provision of evidence of notification and proposed management measures to relevant statutory authorities. | Final Decommissioning Plan | DEC | EPA | Operation | At least six months prior to the anticipated date of closure, or at a time agreed by the EPA | Condition not triggered during reporting period. |
| 728:M7.3 | Decommissioning Plan | The proponent shall implement the Final Decommissioning Plan required by condition 7-2 until such time as the Minister for the Environment determines, on advice of the Department of Environment and Conservation, that the proponent's decommissioning responsibilities are complete. | Implement the actions detailed in the final decommissioning plan until Minister for Environment determines, on advice of DEC that the proponents decommissioning responsibilities are complete. | CR | Min for Env | DEC | Decommissioning | | Condition not triggered during reporting period. |
| 728:M7.4 | Decommissioning Plan | The proponent shall make the Final Decommissioning Plan required by condition 7-2 publicly available in a manner approved by the Department of Environment and Conservation. | Publication of the final decommissioning plan | CR | DEC | | Operation | | Condition not triggered during reporting period. |
| 728:M8.1 | Best Practice Pollution Control Measures to be | Prior to submitting a Works Approval application (under Part V of the Environmental Protection Act | Submit a Detailed Design Report (DDR) to the Minister for | Detailed Design Report | Min for Env | EPA | Pre-Construction | | Condition not triggered during reporting period. |



AUDIT TABLE

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PROJECT: Wagerup Alumina Refinery-Production to a maximum capacity of 4.7 million tonnes per annum and associated bauxite mining

| Audit Code | Subject | Action | How | Evidence | Satisfy | Advice | Phase | When | Status |
|------------|--|--|---|-----------------------------------|-------------|--------|------------------|------|--|
| | Applied | 1986) for works included in the revised proposal, as documented and described in Schedule 1, the proponent shall prepare and submit a Detailed Design Report that details the best practice pollution control measures employed to minimise emissions from the Refinery, to the requirements of the Minister for the Environment, on the advice of the Environmental Protection Authority. | <p>Environment.</p> <p>The Detailed Design Report shall set out the base emissions rates for major sources for the Refinery and the design emission targets for the expanded works. In particular, the Detailed Design Report shall demonstrate that the design of the expansion works will reasonably achieve the following reductions from base emission rates:</p> <ol style="list-style-type: none"> at least a 75% reduction in peak and average emission rates of volatile organic compounds (VOCs) and odour from the 25A slurry tank vents at least a 50% reduction in peak and average emissions rates VOCs and odour from clarification tanks – 35A green liquor reduction to negligible emissions of VOCs and odour from clarification tanks – 35J causticisation at least a 50% reduction in peak and average emission rates VOCs and odour from cooling towers reduction to negligible emissions of VOCs and odour from calciner low volume vent emissions (vacuum pumps, Dorrco and Filter scroll hoods) the mass of VOCs discharged to the cooling pond shall not increase by more than 50%; and no increase in particulate emissions from the Residue Disposal Area. <p>NOTE: The term “<i>base emission rates</i>” means emission rates determined from monitoring from July 2002 to March 2004.</p> <p>Base emission rates will be updated where applicable through monitoring undertaken for Condition 9-1</p> | submitted. | | | | | |
| 728:M8.2 | Best Practice Pollution Control Measures to be Applied | The Detailed Design Report shall address how the design emission targets in condition 8-1 will be met during stable operations. The Detailed Design Report shall also address how best practice will be applied to minimising emissions during unstable operating conditions such as during shut-down, start-up, and equipment failure. | DDR to outline how design emission targets will be met during stable operations and how best practice will be applied to minimise emissions during unstable operating conditions such as start-up, shut-down and equipment failure. | Detailed Design Report submitted. | Min for Env | | Pre-Construction | | Condition not triggered during reporting period. |
| 728:M8.3 | Best Practice Pollution Control Measures to be Applied | In the case where best practice pollution control measures do not achieve the individual reductions in base emission rates in condition 8-1, the Detailed Design Report shall provide alternative measures to achieve equivalent overall | DDR to outline alternative measures to achieve equivalent overall reductions should best practice pollution measures not achieve the | Detailed Design Report submitted. | Min for Env | | Pre-Construction | | Condition not triggered during reporting period. |



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PROJECT: Wagerup Alumina Refinery-Production to a maximum capacity of 4.7 million tonnes per annum and associated bauxite mining

| Audit Code | Subject | Action | How | Evidence | Satisfy | Advice | Phase | When | Status |
|------------|--|--|--|--|-------------|--------|------------------|------|--|
| | | reductions. | individual reductions in 728:M8.1 | | | | | | |
| 728:M8.4 | Best Practice Pollution Control Measures to be Applied | The Detailed Design Report referred to in condition 8-1 shall be subject to independent peer review (refer to Procedure 1). | DDR to be reviewed by IDRT (refer to procedure 1) | Independent Peer review of Detailed Design report conducted. | Min for Env | | Pre-Construction | | Condition not triggered during reporting period. |
| 728:M8.5 | Best Practice Pollution Control Measures to be Applied | Notwithstanding the requirements of conditions 8-1, 8-2, 8-3 and 8-4, the proponent may implement individual works of this proposal, as described in schedule 1 of this statement, subject to the requirements of a Works Approval and Licence under Part V of the Environmental Protection Act 1986, on the proviso that the individual works: (1) have effect in reducing or offsetting emissions from the existing refinery, where possible; and (ii) do not significantly increase the production capacity of the refinery. | Submit a Works Approval Application if individual works of the proposal need to be implemented that shows that the individual works. 1. have effect in reducing or offsetting emissions for the existing refinery, where possible; 2. do not significantly increase the production capacity of the refinery. | Works Approval Application submitted for individual works where appropriate. | Min for Env | | Construction | | Condition not triggered during reporting period. |
| 728:M9.1 | Air Dispersion Model Validation | Prior to submitting a Works Approval application (under Part V of the Environmental Protection Act 1986) for works included in the revised proposal, as documented and described in Schedule 1, the proponent shall carry out data acquisition and investigations for the purpose of validation of air dispersion model predictions of ground level concentrations in the Environmental Review and Management Program (May 2005) and associated documents, to the requirements of the Minister for the Environment, on advice of the Environmental Protection Authority. | Undertake and report to the Minister for Environment all data acquisition and investigations outlined in 9-1 (1 to 6). The data acquisition and investigation shall include: 1. twelve months of meteorological data from an escarpment meteorological station; 2. twelve months of vertical profile temperature and wind velocity measurements using methods acceptable to the DEC; 3. twelve months of meteorological data (wind speed, direction and temperature) from up to two additional meteorological stations located on the coastal plain, using methods and at locations acceptable to the DEC; 4. investigation into the validity of the building wake dispersion scheme used in the air dispersion model, by a suitably qualified modeller. 5. investigation into the validity of modelled multiflue plume rise behaviour, in light of recent findings reported in literature, by a suitably qualified modeller; 6. twelve additional months of base case emission rate data for key sources; 7. any revised emission rates from the Detailed Design Report referred to in condition 8.1. NOTE: the "key sources" referred are the liquor burner, calciners, 25A tank vents, 35A tanks, 35J tanks and cooling towers. | Provision of: 12 months of meteorological data from escarpment met station 12 months of vertical profile temperature & wind velocity measurements 12 months of meteorological data from up to 2 additional stations located on the coastal plain Investigation into building wake dispersion scheme Investigation into validity of modeled plume rise behaviour. 12 months of base case emission rate data for Liquor burner, calciner, 25A tank vent, 35A tank vent, 35J tank vent and cooling tower sources. Revised emission rates from detailed design report to be documented. | Min for Env | EPA | Pre-Construction | | Condition not triggered during reporting period. |
| 728:M9.2 | Air Dispersion Model Validation | The proponent shall make use of the results of the data acquisition and investigations, referred to in | Validate the air dispersion model | Modelling report | Min for Env | DEC | Pre-Construction | | Condition not triggered during reporting period. |



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Proposal Implementation Monitoring Section

PROJECT: Wagerup Alumina Refinery-Production to a maximum capacity of 4.7 million tonnes per annum and associated bauxite mining

| Audit Code | Subject | Action | How | Evidence | Satisfy | Advice | Phase | When | Status |
|------------|--------------------------------------|---|--|--|-------------|--------|------------------|--|--|
| | | condition 9-1, to: 1. validate the performance of the dispersion model; and” 2. provide detail on whether ground level concentrations achieve the predictions presented in the Environmental Review and Management Program (May 2005) and associated documents, both in the near field and the far field, up to ten kilometers from the multiflue stacks; This work shall be carried out to the requirements of the Minister for Environment on advice from the Department of Environment and Conservation. | through incorporation of data obtained through M9.1 Provide detail on whether ground level concentrations reasonably achieve the predictions presented in the Environmental Review and Management Program (May 2005) and associated documents, both in the near field and the far field, up to ten kilometres from the multiflue stacks. | | | | | | |
| 728:M9.3 | Air Dispersion Model Validation | In the case that the validation of the dispersion modelling, referred to in ‘condition 9-2, does not reasonably demonstrate that ground level concentrations similar to that predicted in the Environmental Review and Management Program (May 2005) and associated documents will be achieved, the proponent shall make revisions to the detailed engineering design and repeat the air dispersion modelling until reasonable achievement is demonstrated. | Review the detailed engineering design and repeat modelling until reasonable achievement with GLC’s predicted in ERMP (2005) is demonstrated. | Modelling report | Min for Env | | Pre-Construction | | Condition not triggered during reporting period. |
| 728:M9.4 | Air Dispersion Model Validation | Notwithstanding the requirements of conditions 9-1, 9-2 and 9-3, the proponent may implement individual works of this proposal, as described in schedule 1 of this statement, subject to the requirements of a Works Approval and Licence under Part ‘V of the Environmental Protection Act 1986, on the proviso that the individual works: (1) have effect in reducing or offsetting emissions from the existing refinery, where possible; and (ii) do not significantly increase the production capacity of the refinery. | Submit a Works Approval Application for implementation of individual works that shows that the individual works. 1. have effect in reducing or offsetting emissions for the existing refinery, where possible; 2. do not significantly increase the production capacity of the refinery. | Technical information to be submitted with the Works Approval Application if individual works are implemented. | Min for Env | | Construction | | Condition not triggered during reporting period. |
| 728:M10.1 | Operational Performance Verification | Prior to submitting a Works Approval application (under Part V of the ‘Environmental Protection Act 1986) for works included in the revised proposal, as documented and described in Schedule 1, the proponent shall prepare and submit a revised Air Quality Management Plan to the satisfaction of, the Minister for the Environment on advice from the Environmental Protection Authority, | Prepare and submit a revised Air Quality Management Plan that includes. 1. an Emissions and Ambient Air Quality Monitoring Programme for performance verification monitoring, that addresses Point Source Emissions (for the key emission sources, refer to Condition 9-1), Diffuse Source Emissions and Ambient Air Quality, including where practicable and appropriate, continuous monitoring; 2. management procedures with the objective of achieving the design emission targets referred to in Condition 8-1 under stable operating conditions and minimising emissions during unstable operating conditions such as during start up, shut down and equipment failure as referred to in Condition 8-2; and 3. a program for independent audit and review of the results of monitoring undertaken in accordance with the Air Quality Management Plan. | Air Quality Management Plan available. | Min for Env | EPA | Pre-Construction | Prior to submitting a Works Approval application | Condition not triggered during reporting period. |



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PROJECT: Wagerup Alumina Refinery-Production to a maximum capacity of 4.7 million tonnes per annum and associated bauxite mining

| Audit Code | Subject | Action | How | Evidence | Satisfy | Advice | Phase | When | Status |
|------------|--------------------------------------|---|--|--|-------------|--------|------------------|------|--|
| 728:M10.2 | Operational Performance Verification | The Air Quality Management Plan referred to in condition 10-1 shall be subject to independent peer review (refer to Procedure 1). | Air Quality Management Plan to be reviewed by the IDRT (Refer to Procedure 1) | Provide Air quality Management Plan to IDRT for review. | Min for Env | | Pre-Construction | | Condition not triggered during reporting period. |
| 728:M10.3 | Operational Performance Verification | The proponent shall implement the Air Quality Management Plan referred to in condition 10-1 throughout the commissioning and operational phase of the expanded Refinery to the requirements of the Minister for the Environment on advice of the Environmental Protection Authority. | Implement the Air Quality Management Plan as approved in M10.1. | CR, Implement the Air Quality Management Plan | Min for Env | EPA | Operation | | Condition not triggered during reporting period. |
| 728:M10.4 | Operational Performance Verification | The proponent shall make the Air Quality Management Plan referred to in condition 10-1 publicly available to the requirements of the Minister for the Environment on advice front the Environmental Protection Authority. | Air Quality Management Plan is made publicly available on the Alcoa website and copies provided on request. | CR, Air Quality Management Plan published on the Alcoa website and copies made available upon request | Min for Env | EPA | Pre-Construction | | Condition not triggered during reporting period. |
| 728:M10.5 | Operational Performance Verification | In the case that the performance monitoring referred to in condition 10-1 indicates that the design emission targets referred to in conditions 8-1 and 8-2 and the management procedures referred to in condition 10-1 are not being reasonably achieved, the proponent shall make revision to the operational procedures and/or engineering design to ensure compliance with the design emission targets. | If performance monitoring indicates that the design emission targets referred to in Conditions 8-1 and 8-2 and the management procedures referred to in Condition 10-1 are not being reasonably achieved review performance monitoring to see if design emission target are reasonably achieved. If not, revise operational and/or engineering design. | CR | Min for Env | | Operation | | Condition not triggered during reporting period. |
| 728:M10.6 | Operational Performance Verification | The proponent shall regularly review and, where appropriate, employ adaptive management practices to facilitate continuous improvement in key source emissions management at the refinery in line with current best practice management. Note: It is expected that the outcomes of condition 10-6 will be implemented through Part V of the Environmental Protection Act 1986. | Review management practices for key emission source to determine if in line with best practice management. | Where appropriate, table of continuous improvement activities to be included in the Triennial Environmental Review | Min for Env | | Operation | | Condition not triggered during reporting period. |
| 728:M10.7 | Operational Performance Verification | Notwithstanding the requirements of conditions 10-1, 10-2, 10-3, 10-4, 10-5 and 10-6 the proponent may implement individual works of this proposal, as described in schedule 1. of this statement; subject to the requirements of a Works Approval and Licence under Part V of the Environmental Protection Act 1986, on the proviso that the individual works: (i) have effect in reducing or offsetting emissions from the existing refinery, where possible; and (ii) do not significantly increase the production capacity of the refinery. | Submit a Works Approval Application if individual works of the proposal need to be implemented that shows that the individual works: 1. have effect in reducing or offsetting emissions for the existing refinery, where possible; 2. do not significantly increase the production capacity of the refinery. | Technical information to be submitted with the Works Approval Application if individual works are implemented. | Min for Env | | Overall | | Condition not triggered during reporting period. |
| 728:M11.1 | Noise. | Prior to issue of any Works Approval (under Part V of the Environmental Protection Act, 1986) for works included in the revised proposal, as documented and described in Schedule I, the proponent shall revise the Noise Management Plan submitted in Section 10 of the Wagerup Refinery Unit Three Expansion ERMP (May 2005) to provide detail on all reasonable and practicable measures to control noise emissions incorporated in design and construction of the expansion works, to the requirements of the Minister for the Environment on advice of the Environmental Protection Authority. | Prepare and submit a revised Noise Management Plan (NMP) The Plan shall include details of: 1. all significant noise sources, options considered for noise control, noise control measures proposed to be adopted and design target Sound Power Levels; 2. acoustic modelling of noise emission levels in the surrounding environment utilising the design target Sound Power Levels; | Revised Noise Management Plan | Min for Env | EPA | Pre-Construction | | Condition not triggered during reporting period. |



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PROJECT: Wagerup Alumina Refinery-Production to a maximum capacity of 4.7 million tonnes per annum and associated bauxite mining

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| | | | <ol style="list-style-type: none"> 3. procedures for verifying that the design target Sound Power Levels have been achieved and total noise emissions from the works meet those predicted in the acoustic modelling undertaken in respect of 2; 4. procedures for approval of noise emissions during construction and commissioning under noise regulation 13; and 5. parties engaged in the design, acoustic modelling and noise verification. | | | | | | |
| 728:M11.2 | Noise. | The proponent shall make the Noise Management Plan required by condition 11-1 publicly available to the requirements of the Minister for the Environment on advice from the Environmental Protection Authority following approval of the report required by condition 11-1. | Noise Management Plan is publicly available on the Alcoa website. | CR, Revised Noise Management Plan to be published on the Alcoa website and copies made available upon request | Min for Env | EPA | Pre-Construction | | Condition not triggered during reporting period. |
| 728:M11.3 | Noise. | The proponent shall implement the Noise Management Plan required under condition 11-1 to the requirements of the Minister for the Environment on advice from the Environmental Protection Authority. | Implement the actions and monitoring identified in the NMP throughout commissioning and operation of the expanded Refinery. | CR Noise Management Plan implemented | Min for Env | EPA | Overall | | Condition not triggered during reporting period. |
| 728:M11.4 | Noise. | Notwithstanding the requirements of conditions 11-1, 11-2 and 11-3, the proponent may implement individual works of this proposal, as described in schedule 1 of this statement, subject to the requirements of a Works Approval and Licence under Part V of the Environmental Protection Act 1986, on the proviso that the individual works: (i) have effect in reducing or offsetting emissions from the existing refinery, where possible; and (ii) do not significantly increase the production capacity of the refinery. | Submit a Works Approval Application if individual works of the proposal need to be implemented that shows that the individual works. <ol style="list-style-type: none"> 1. have effect in reducing or offsetting emissions for the existing refinery, where possible; 2. do not significantly increase the production capacity of the refinery. | Technical information to be submitted with the Works Approval Application if individual works are implemented. | Min for Env | | Overall | | Condition not triggered during reporting period. |
| 728:M12.1 | Water Use | Prior to the commencement of construction, the proponent shall prepare a Water Use Management Plan to the requirements of the Minister for the Environment on the advice of the Environmental Protection Authority. The Water Use Management Plan shall describe the water use minimisation and re-use practices that will be employed so as to achieve the minimum practicable water use at the refinery. | Prepare and submit a Water Use Management Plan. The Water Use Management Plan shall describe the water use minimisation and re-use practices that will be employed so as to achieve the minimum practicable water use at the refinery. | Water Use Management Plan. | Min for Env | | Pre-construction | Prior to the commencement of construction | Condition not triggered during reporting period. |
| 728:M12.2 | Water Use | The proponent shall implement and comply with the Water Use Management Plan referred to in condition 12-1. | Implement the actions and practices identified in the Water Use Management Plan. | CR, Water management practices implemented | Min for Env | | Overall | | Condition not triggered during reporting period. |
| 728:M12.3 | Water Use | The proponent shall make the Water Use Management Plan referred to in condition 12-1 publicly available. | Water Use Management Plan publicly available on Alcoa website. | Water Use Management Plan published on the Alcoa website and copies made available upon request | Min for Env | | Construction | | Condition not triggered during reporting period. |
| 728:M13.1 | Residue Disposal Areas | Prior to the commencement of construction, the proponent shall revise the Long Term Residue Management Strategy, which addresses the potential impacts of emissions from the Residue Disposal Areas, in particular the management of emissions and protection of groundwater, in consultation with the Residue Planning Liaison | Review the LTRMS in consultation with the RPLG & community stakeholders. The LTRMS shall address the potential impacts of emissions from the Residue Disposal Areas, in | Revised Long Term Residue Management Strategy | Min for Env | EPA | Pre-construction | Prior to the commencement of construction | The LTRMS was updated in 2007 as part of a scheduled review process, in consultation with RPLG and community stakeholders. It was finalised in April 2008 and distributed to |



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| | | Group, to the requirements of the Minister for the Environment on advice from the Environmental Protection Authority. | particular the management of emissions and protection of groundwater, in consultation with the RPLG | | | | | | RPLG members. The LTRMS is scheduled to be reviewed again in 2011. |
| 728:M13.2 | Residue Disposal Areas | The revised Long Term Residue Management Strategy referred to in condition 13-1 shall be subject to an independent peer review to ensure that the monitoring and management is undertaken in accordance with international best practice. Note 1: During the development of the Long Term Residue Management Strategy, the proponent must consult with community and stakeholders. | Independent review of the LTRMS to review monitoring & management against best practice. | LTRMS provided for independent peer review. | Min for Env | | Pre-construction | | The LTRMS was updated in 2007 as part of a scheduled review process, in consultation with RPLG (representing the independent peer review process) and community stakeholders. It was finalised in April 2008 and distributed to RPLG members. The LTRMS is scheduled to be reviewed again in 2011. |
| 728:M13.3 | Residue Disposal Areas | The proponent shall make the Long Term Residue Management Strategy required by condition 13-1 publicly available. | LTRMS publicly available | CR, LTRMS is published on the Alcoa website and copies made available upon request | Min for Env | | Construction | | The LTRMS is published on the Alcoa website: (http://www.alcoa.com/australia/en/pdf/LTRMS_WG.pdf) |
| 728:M13.4 | Residue Disposal Areas | The proponent shall implement the Long Term Residue Management Strategy required under condition 13-1. | Implement the actions and practices identified in the LTRMS. | CR, LTRMS implemented | Min for Env | | Overall | | The LTRMS has been implemented and relevant aspects are built into residue operations. |
| 728:M14.1 | Transport Related Noise | The proponent shall demonstrate participation in a detailed review (refer Note 2) of logistical aspects of the rail transport activities associated with its operations to ensure that these activities are managed in a manner which minimises impacts on residential amenity. | Participate in the Inter-agency Working group – Rail noise impacts (co-ordinated by DMP) of the logistical aspects of rail transport associated with the refinery operations. <u>NOTE</u> The DMP is responsible for establishing the inter-agency working group within 12 months following this statement. | CR, Attendance/participation in working group | Min for Env | | Overall | | Participation in an Interagency Working Group commenced in October 2007, with the provision of information requested by the then DoIR. Alcoa is not aware of any further progress being made since that time. |
| 728:M15.1 | Community Consultation – Mining Plans | Report the results of consultation with the affected local government authorities in the preparation of mining plans. | Consult with affected local government when preparing mining plans and report results to the MMPLG: - detail consultation - feedback received - and action taken | CR, Consultation summarised in annual Mining and Management Program submissions to the MMPLG | MMPLG | | Operation | | The annual Mining and Management Program submission to the MMPLG contains a section summarizing consultation with affected local government authorities. |
| 728:M15.2 | Community Consultation - Mining | Consult with residents of private properties whose amenity (dust, noise, vibration, visual) or hydrology are likely to be affected by the mining operations, and report the results to the MMPLG. | Consult with those residents within the predicted 35 dB(A) noise contour (worst case) for the mining operations and any refinery expansion in the first instance and report results to MMPLG. - detail consultation - feedback received - and action taken | CR, Consultation summarised in annual Mining and Management Program submissions to the MMPLG Register of Contacts | MMPLG | | Operations Annually | | The annual Mining and Management Program submission to the MMPLG contains a section summarizing consultation with potentially impacted neighbours. |
| 728:M16.1 | Long-term Bauxite Residue Management – Closure Strategy Review | Revise the “closure strategy” for the residue storage areas at Wagerup, in consultation with the RPLG and submit to Minister for approval. | Review and revise the LTRMS with the RPLG. The LTRMS shall be submitted to the RPLG for approval and submission to the Minister for Environment through the Minister that administers the Alumina Refinery (Wagerup) | CR, Closure Strategy included in LTRMS | Min for Env on advice of EPA | | Operation | | The residue closure strategy is reviewed as part of the LTRMS, which was finalised in April 2008. |



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| | | | Agreement Act 1978 | | | | | | |
| 728:M16.2 | Long-term Bauxite Residue Management – closure strategy implementation | Implement the Bauxite Residue “closure strategy” | Implement the actions detailed within the closure strategy. | CR, Closure Strategy implemented | Min for Env on advice of Minister responsible for administering the Alumina Refinery (Wagerup) Agreement and Acts 1978 | | Closure | | Condition not triggered during reporting period. |
| 728:M17.1 | Social Impacts – Local Government Liaison | Maintain formal liaison and monitoring processes at appropriate times with the Shire of Waroona and the Shire of Harvey. | Formal liaison with the Shires of Waroona and Harvey where appropriate. | CR, Consultation summarised in Annual Environmental Review. | Min for Env | | Overall | | During this reporting period formal liaison and monitoring processes have included: <ul style="list-style-type: none"> Attendance at Council meetings when required Briefings and one-on-one discussions with Shire Officers including the Chief Executive Officers, Shire Planners and Shire Environmental Health Officers Shire representation at the Wagerup Tripartite Group meetings convened by the DEC |
| 728:M17.2 | Social Impacts – Local government Liaison Reporting Requirements | Provide details on formal liaison and monitoring processes with the Shire of Waroona and the Shire of Harvey. | Provide detail on formal liaison with Shire of Waroona & Shire of Harvey in annual report of environmental research and operations | CR, Consultation summarised in Annual Environmental Review. | Min for Env | | Overall | | During this reporting period formal liaison and monitoring processes have included: <ul style="list-style-type: none"> Attendance at Council meetings when required Briefings and one-on-one discussions with Shire Officers including the Chief Executive Officers, Shire Planners and Shire Environmental Health Officers Shire representation at the Wagerup Tripartite Group meetings convened by the DEC |
| 728:N1 | Independent Design Review Team | The Department of Environment and Conservation, in consultation with the proponent, will establish an Independent Design Review Team (IDRT) including specialists in design, construction, commissioning and monitoring of large industrial plants and pollution control equipment. The JDRT shall also seek specialist input from international experts where required. The IDRT will review the engineering design details for the Wagerup Unit 3 Expansion leading to the Works Approval application to advise the Department of Environment and Conservation on | | Independent Design Review Team | DEC | | Overall | | Procedure is to be implemented by the DEC when the project reaches the detailed design stage (not yet reached) |



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| | | whether the design meets international best practice in terms of pollution control, predicted emissions and emissions management and is reasonably likely to achieve the emissions performance levels specified in condition 8. The IDRT will also review the Air Quality Management Plan required in condition 10 to ensure that the monitoring and management is undertaken in accordance with international best practice. | | | | | | | |
| 728:N2 | Inter-agency Working Group Rail Noise Impacts | Within 12 months following the date of this statement, the Department of Industry and Resources, will arrange for the establishment of an inter-agency working group to further define rail noise impacts, and, identifying practicable operational measures, infrastructure improvements and residential noise amelioration measures that may be necessary to mitigate the noise impacts. | Participate in the Inter-agency Working group – Rail noise impacts (co-ordinated by DMP) of the logistical aspects of rail transport associated with the refinery operations. <u>NOTE</u> The DMP is responsible for establishing the inter-agency working group within 12 months following this statement. | CR, Attendance/participation in working group | DMP | | Design | Dependent on establishment of Inter-agency working group by DoIR | Participation in an Interagency Working Group commenced in October 2007, with the provision of information requested by the then DoIR. Alcoa is not aware of any further progress being made since that time. |
| 728:P1 | Separation Distance | Implement the Wagerup Land Management Strategy. | Continue to support and implement the Land Management Strategy (January 2002) as enhanced by correspondence with individual residents in Area A and B (letters dated 24 February 2005 and 21 April 2005) or any subsequent revisions agreed in consultation with the community and relevant stakeholders. | CR, Land title documentation | Min for Env | | Overall | | The Land Management Strategy continued throughout the reporting period, with Alcoa purchasing properties belonging to those residents who chose to relocate and were eligible under the scheme. Specific data are available upon request. |
| 728:P2 | Mining Planning and Forest Management | Prepare and submit Mining and Management Programmes | Prepare and submit to the State, Mining and Management programmes which will specify areas which it is proposed to mine, the method of mining and the proposed methods of rehabilitation in accordance with the procedures to be agreed between Alcoa and the State. These programmes are In addition to the 10 year mining plans to be submitted to the State under Clause 4 of the Wagerup Agreement. Alcoa undertakes to consult closely with the State on the preparation of these programmes and not to implement the programmes until agreement has been reached with the State or they have been determined by arbitration. (Refer to Procedures 3 & 4) | CR, Submission of the MMP's | MMPLG | | Overall | | The Huntly and Willowdale Mining and Management Program was submitted to the MMPLG in August 2010. Agreement had not been received by the end of the reporting period. |
| 728:P3 | Mining Planning and Forest Management | Plan and manage mining operations to minimise disturbance to biologically diverse areas fringing major rock outcrops and stream zones | Plan and manage mining operations to minimise disturbance to biologically diverse areas fringing major rock outcrops and stream zones by: <ul style="list-style-type: none"> Maintaining appropriate buffers between these areas and mine pit boundaries. Constructing stream crossings in a manner which facilitates their removal and rehabilitation after | CR, No clearing within 50 m of rock outcrops > 1 ha. Adhering to the DoW stream zone buffer guidelines for best practice operators. Rehabilitating all stream zone crossings using | MMPLG | | Overall | | No clearing was undertaken in agreed buffer zones surrounding rock outcrops and streams. One haul road streamzone crossing planned to be rehabilitated in the 2009 season (Wuka) was delayed. The 2010 MMP submission has |



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| | | | use, unless required for ongoing forest management or other purposes agreed with the State's MMPLG. | best practice techniques. | | | | | two stream crossings planned CAR Informal Reserves Evaluation Committee (CARIREC) has inspected both sites and given approval for clearing to proceed. |
| 728:P4 | Mining Planning and Forest Management | Conduct biological surveys and support conservation of rare, endangered & priority species near mining operations | Continue the programme of biological surveys and support of activities contributing to the conservation of rare, endangered and priority species existing within the vicinity of its mining operations. | CR, Pre-mining flora and fauna surveys will be conducted in all new crusher regions to identify rare and endangered, especially protected or priority species. Management techniques contained within management plans will be continuously improved to minimise impact on identified species. | MMPLG | | Overall | | Pre-mining fauna monitoring surveys have been completed for the Larego and Myara future crusher regions. Rare and Endangered fauna management plans have been developed for the four taxa known to occur in the mineral lease (chuditch, quokka, noisy scrub bird & black cockatoos). Pre-mining flora surveys were completed for Larego in 2008 and the Myara surveys have commenced and are 60% complete. These surveys will be completed in 2013. No Rare or Threatened Australian Plants (RoTAPs) have been recorded in mining regions and identified priority species are associated with vegetation communities not disturbed by mining. |
| 728:P5 | Water Resources | Conduct research before mining in the intermediate rainfall zone. | Bauxite mining will not take place in the eastern, lower rainfall portion of Alcoa's lease without approval by the MMPLG. Results from the trial mining and continuing hydrology research and modelling will form the basis for future approval by the MMPLG of Alcoa's plans for mining in the intermediate rainfall zone. These plans will be presented in Alcoa's annual Mining and Management Programme submission at an appropriate date. | CR, MMP submissions will contain applications for clearing in the intermediate rainfall zone. Areas in the intermediate rainfall zone will not be cleared until they are on an approved MMP. | MMPLG | | Overall | | The Huntly Mining and Management Programme submitted in June 2009 contained new proposed mining areas (O'Neil) in the Intermediate Rainfall Zone (IRZ). The procedure outlined in this ministerial condition was utilized with detailed examination of the proposal being undertaken by the Bauxite Hydrology Committee. Approval was obtained for the Huntly MMP on 16 October 2009. |
| 728:P7 | Mine Rehabilitation | Monitor success of all rehabilitated Mining areas. | Monitor the success of all rehabilitated Mining areas in consultation with the DEC | CR, Completion criteria reports for rehabilitated areas are submitted to DEC annually for audit. | DEC | | Overall | | Completion criteria reports for 2010 rehabilitation were submitted to the DEC in October, as previously agreed. |
| 728:P8 | Forest Conservation | Utilise environmental management procedures in jarrah forest conservation areas, agreed in consultation with the MMPLG. | Alcoa will not mine the bauxite resources in the jarrah forest conservation areas agreed in consultation with the State's Reserves Review Committee and specified in the Alumina Refinery Agreement Amendment Act, No 99 of 1986, for as long as their conservation values remain. | CR, No clearing for mining will be undertaken in conservation reserves. | MMPLG | | Operation | | No clearing for mining in conservation areas has been proposed in existing Mining and Management Programs. A haul road crossing of the Lane Poole Reserve Conservation area was proposed and approved in the Willowdale MMP to allow access to ore adjacent to Mt Keats. This requirement arose because of the imbalance in the Orion crusher region between noise sensitive and non-noise sensitive ore. Alcoa retained the right to cross |



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| | | | | | | | | | these reserves with haul roads or conveyor alignments but not mine the ore. |
| 728:P9 | Forest Conservation | Mining in the recreation zone of the Lane Poole Reserve will be undertaken in accordance with site specific environmental management procedures. | Alcoa will not mine the bauxite resources in the facilities section of the recreation zone of the Lane Poole Reserve as defined in Figure 10 of the 1994 Consultative Environmental Review. Ore extraction in the remaining areas of the recreation zone will exclude the steep slopes of the Murray River valley and will be undertaken in accordance with site-specific environmental management procedures agreed with the State's MMPLG after consultation with DEC and the Lane Poole Reserve Advisory Committee. | CR, No mining in the facilities section of the recreation zone of Lane Poole Reserve. No mining outside the defined mining limit for the Orion crusher region that excluded the steep Murray River valleys. The proposal to mine in the recreation area of Lane Poole Reserve will be assessed by the CAR Informal Reserve Evaluation Committee first as agreed by the Chairman of the EPA. | MMPLG | | Operation | | A submission was made in August 2007 to the CARIREC (a sub-committee of the MMPLG) to clear areas for mining operations in the Lane Poole Reserve Recreation area. Advice from the Minister for the Environment concluded that the values of the Informal CAR Reserve system would not be compromised by disturbing these areas was obtained in March 2008. In 2011 a submission is proposed to be made to CARIREC to clear areas for mining operations in the Lane Poole Reserve Recreation area for future mining in the southern Orion area and a re-submission to 'expand' the previous Northern Orion area approved in March 2008. |
| 728:P10 | Dieback Management | Implement dieback management programme mine operations in the jarrah forest. | Implement a dieback management programme designed specifically for the mine operations in the jarrah forest. This will include the rehabilitation of dieback-affected areas adjacent to mine operating areas, in accordance with procedures agreed with State agencies, and irrespective of the cause of introduction of the disease. | CR, Implement Alcoa's best practice dieback management system while continuing to identify areas for improvement. Dieback Forest Rehabilitation (DFR) will be undertaken in areas identified by the Associated Works and DFR steering committee that contains DEC and Alcoa representatives. | MMPLG | | Overall | | The dieback management program has been implemented at Huntly and Willowdale as per procedures agreed with the DEC as part of the Alcoa/DEC Working Arrangements. The final Alcoa/DEC Working arrangements are waiting on final signatures from DEC and Alcoa senior management. |
| 728:P11 | Environmental Research | Implement ongoing research programme into all aspects of the operation that have the potential to adversely impact the environment. | Implement an ongoing research programme into all aspects of the operation that have the potential to adversely affect the environment, and into those environmental characteristics that could be adversely affected by its operations. | CR, Included in Annual Environmental Review. | MMPLG | | Operation | | Research programs are ongoing for residue re-use, residue management, mining rehabilitation, water usage, fauna and threatened species. Details of these research programs are provided in the Annual Environmental Report (AER). |
| 728:P12 | Environmental Research | Submit a review of research and management programme to the Department of Industry and Resources on an annual basis. | Submit a brief review of research and management programme to the Department of State Development on an annual basis. Copies will be made available to relevant State agencies and the Shire of Waroona. A more detailed review will be prepared on a triennial basis. | CR, Included in Annual Environmental Review. | DSD | | Operation | | An AER is submitted to DSD prior to 31 March each year, which reviews the mining research and management programme. |
| 728:P13 | Noise Monitoring | Conduct noise monitoring. | Noise monitoring undertaken for assessment purposes will be undertaken by a recognised acoustical consultant, in consultation | CR, Included in Annual Environmental Review. | DEC | | Operation | | Ongoing noise monitoring is conducted by appropriately trained personnel and acoustic consultants. |



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| | | | with the DEC. Ongoing monitoring will be undertaken by Alcoa personnel, or consultants, appropriately trained in the measurement of environmental noise. | | | | | | |
| 728:P14 | Noise Monitoring | Report noise monitoring results. | Noise levels will be monitored periodically at designate reference points and reported in the Review of Environmental Research and Operations submitted annually to the Department of State Development, and distributed to relevant state and local government agencies. | CR Included in Annual Environmental Review. | DMP | | Operation | | Noise monitoring results are reported to DSD in the AER submitted prior to 31 March each year. A 20 point noise survey was completed in July 2010. |

NOTES:

1. Where a condition states “on advice of the Environmental Protection Authority”, the Environmental Protection Authority will provide that advice to the Department of Environment and Conservation for the preparation of written notice to the proponent.
2. It is expected that the Environmental Protection Authority will seek advice from other agencies or organisations ‘including the Department of Health, as required, in order ‘to, ‘provide its advice to the Department of Environment and Conservation.
3. 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 fulfillment of the requirements of the conditions.