



Broken Hill Solar Plant

AGL ENERGY LIMITED

Pre-construction Compliance Report

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Document history and status

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ACRONYMS AND ABBREVIATIONS

AHMP	Aboriginal Heritage Management Plan
CEMP	Construction Environmental Management Plan
CNVMP	Construction Noise and Vibration Management Plan
CPP	Consolidated Power Projects
EP&A Act	<i>Environmental Planning and Assessment Act</i>
kV	Kilovolts
NOW	NSW Office of Water
OEH	Office of Environment and Heritage
OEMP	Operation Environmental Management Plan
OOHW	Out-of-hours work
PV	Photovoltaic
RMS	Roads and Maritime Services

1. Introduction

1.1 Background

AGL Energy Limited (AGL) has approval to construct the Broken Hill Solar Plant in Western New South Wales, around five kilometres south-west of Broken Hill (Figure 1.1). The solar plant is expected to have a 30 year operating life and have an electricity generating capacity of around 53MW.

The development comprises the construction, operation and decommissioning of a solar photovoltaic (PV) power station and associated connection works, including installation and operation of a double circuit 22kV overhead transmission line (around 2.7 kilometres in length), to connect the PV plant to the electricity grid at TransGrid's substation at Broken Hill. An existing Essential Energy 22 kV transmission line that traverses the proposed plant site will be realigned around the solar plant as part of the site's enabling works. The project's location is shown in Figure 1-1.

Project approval was granted by the Planning Assessment Commission of NSW (as delegate for the then NSW Minister for Planning and Infrastructure) under Section 75J of the *Environmental Planning and Assessment Act 1979* (EP&A Act) on 27 March 2013. The project approval specifies the conditions of approval with which AGL must comply.

1.2 Purpose of the Report

This Pre-construction Compliance Report has been prepared as part of the Compliance Tracking Program required under Condition C16 of the Project Approval.

Condition C16 requires:

Prior to the commencement of construction, the Proponent shall develop and implement a Compliance Tracking Program, to track compliance with the requirements of this approval during the construction and operation of the project and shall include, but not necessarily be limited to:

- a) *provisions for periodic reporting of compliance status to the Director-General including at least prior to the commencement of construction of the project, prior to the commencement of operation of the project and within two years of operation commencement;*
- b) *a program for independent environmental auditing in accordance with AS/NZ ISO 19011:2003 – Guidelines for Quality and/or Environmental Management Systems Auditing;*
- c) *procedures for rectifying any non-compliance identified during environmental auditing or review of compliance;*
- d) *mechanisms for recording environmental incidents and actions taken in response to those incidents;*
- e) *provisions for reporting environmental incidents to the Director-General during construction and operation; and*
- f) *provisions for ensuring all employees, contractors and sub-contractors are aware of, and comply with, the conditions of this approval relevant to their respective activities.*

This report tracks AGL's compliance with the pre-construction conditions of the project approval. AGL and Jacobs (previously SKM) identified the approval conditions that must be completed prior to the start of construction or which are relevant to pre-construction activities.

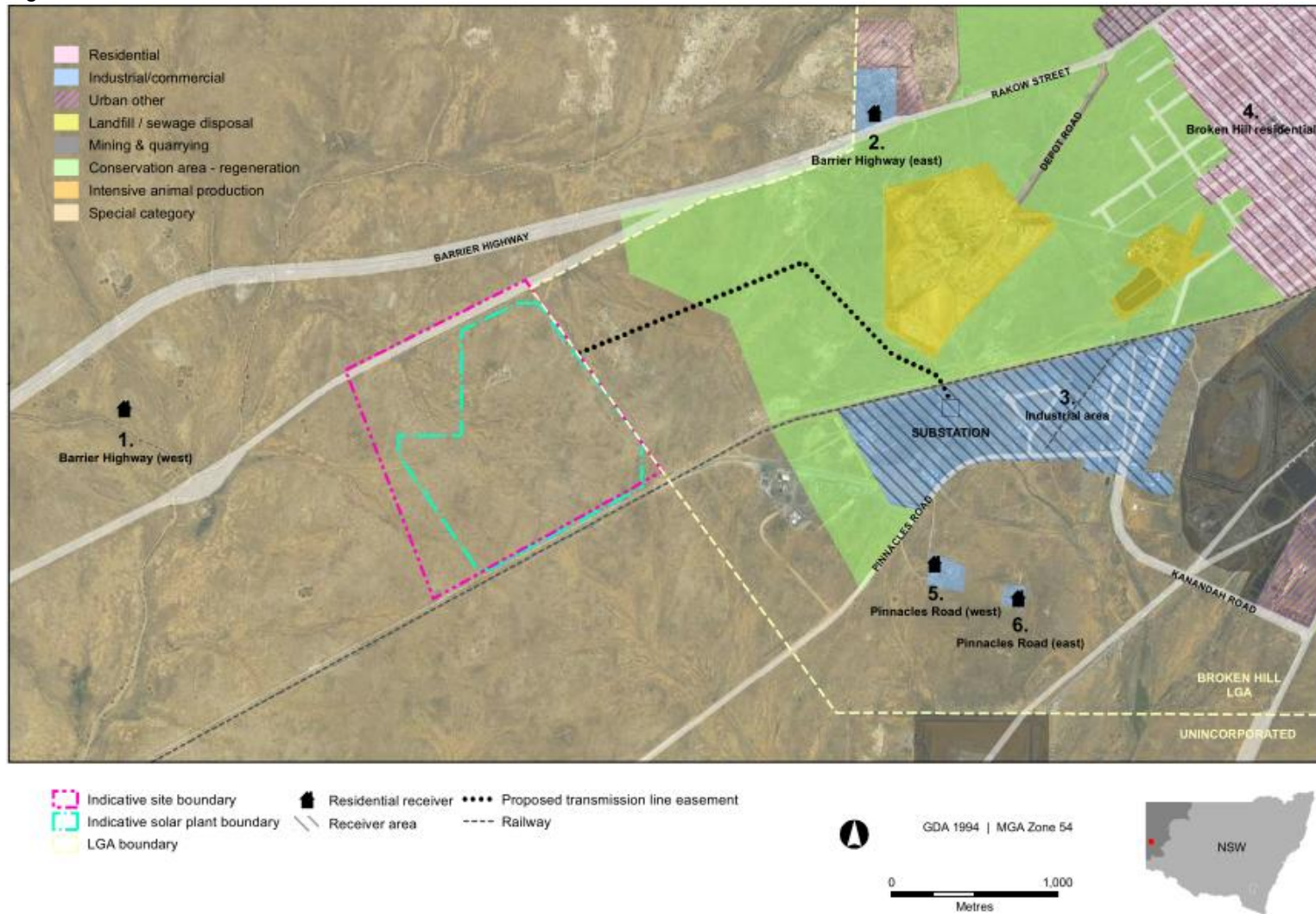
AGL's compliance with these conditions is provided in this report with supporting evidence - refer to Appendix A. AGL's compliance with conditions relating to the CEMPs is provided in the AGL CEMP Compliance report. However, mitigation measures relating to pre-construction have been identified and included in this report.

This report relies on information from the CEMP reports for each project stage and on supporting information provided by AGL such as email, report extracts and related supporting information.

1.3 Documents Relevant to this report

- Broken Hill Solar Plant Staging Report (Jacobs, 2014, Rev 0)
- Construction Environmental Management Plan Broken Hill Solar PV Power Station (First Solar, 2014, Rev 3)
- Construction Environmental Management Plan Broken Hill Solar Plant Grid Connection (CPP, 2014, Rev 5)
- Construction Environmental Management Plan Compliance Report (Jacobs, September 2014, Rev 0).

Figure 1.1: Site location



2. Pre-construction Project Approval Conditions Compliance

This section identifies the Proponent’s (incorporating its contractors’) compliance with the pre-construction conditions listed in the project approval. Columns 1 and 2 specify the approval condition identification number and wording. Column 3 indicates AGL’s compliance with the pre-construction condition or where further information or clarification is required. Column 4 refers to supporting evidence in the appendix and references documents from AGL’s contractors, First Solar and Consolidated Power Projects (CPP).

ID	Requirement	Compliance	Evidence
Condition of Approval			
PART A - ADMINISTRATIVE CONDITIONS			
Staging			
A6.	<p>The Proponent may elect to construct and/or operate the Project in stages. Where staging is proposed, the Proponent shall submit a Staging Report to the Director-General and Crown Lands Division of the Department of Trade and Investment prior to the commencement of the first proposed stage. The Staging Report shall provide details of:</p> <ul style="list-style-type: none"> a) how the Project would be staged, including general details of work activities associated with each stage and the general timing of when each stage would commence; and b) details of the relevant conditions of project approval, which would apply to each stage and how these shall be complied with across and between the stages of the Project. <p>Where staging of the Project is proposed, these conditions of approval are only required to be complied with at the relevant time and to the extent that they are relevant to the specific stage(s). The Proponent shall ensure that an updated Staging Report (or advice that no changes to staging are</p>	Compliant	A Staging Report (Jacobs, 2014) was issued to the Department of Planning and Environment on 7 July 2014 and the Crown Lands department on 16 October 2014 (refer to Appendix A).

ID	Requirement	Compliance	Evidence
	proposed) is submitted to the Director-General Crown Lands Division of the Department of Trade and Investment prior to the commencement of each stage, identifying any changes to the proposed staging or applicable conditions.		
	Decommissioning		
A11.	Prior to the commencement of construction, the Proponent shall provide written evidence to the satisfaction of the Director-General that the lease agreements with the Crown Lands Division of the Department of Trade and Investment have adequate provisions to require that decommissioning occurs in accordance with this approval, and is the responsibility of the Proponent.	Compliant	<p>The Crown Lease was executed on 11 July 2014 (ref 14/06125). AGL has provided an excerpt of the lease agreement (refer to Appendix B).</p> <p>Clause 13 of the lease agreement confirms decommissioning would occur in accordance with the approval and is the responsibility of AGL.</p>
	PART B - ENVIRONMENTAL PERFORMANCE		
	GENERAL CONDITIONS		
	Ancillary Facilities		
B1.	<p>B1. Unless otherwise approved by the Director-General, the location of Ancillary Facilities shall:</p> <ul style="list-style-type: none"> a) be located more than 50 metres from a waterway; b) be located within or adjacent to the Site; c) have ready access to the road network; d) be located to minimise the need for heavy vehicles to travel through residential areas; e) be sited on relatively level land; f) be separated from nearest residences by at least 200 metres (or at least 300 metres for a temporary batching plant); g) not require vegetation clearing beyond that already required by the Project; 	Compliant	<p>All ancillary facilities under this project approval are located in accordance with the requirements of Condition B1.</p> <p>First Solar: CEMP Figure 1 (Site Layout – ABH1 C100), Rev 4</p> <p>CPP: CEMP Section 5 p. 16; CEMP Section 28 pp. 65-67 (Drawings)</p>

ID	Requirement	Compliance	Evidence
	<p>h) not impact on heritage sites (including areas of archaeological sensitivity) beyond those already impacted by the Project;</p> <p>i) not unreasonably affect the land use of adjacent properties;</p> <p>j) be above the 20 ARI flood level unless a contingency plan to manage flooding is prepared and implemented; and</p> <p>k) provide sufficient area for the storage of raw materials to minimise, to the greatest extent practical, the number of deliveries required outside standard construction hours.</p> <p>The location of the Ancillary Facilities shall be identified in the CEMP.</p>		
	Bushfire Risk		
B3.	<p>The Proponent shall ensure that all project components on site are designed, constructed and operated to minimise ignition risks, provide for asset protection consistent with relevant NSW Rural Fire Services (RFS) design guidelines (Planning for Bushfire Protection 2006 and Standards for Asset Protection, Undated) and provide for necessary emergency management including appropriate fire-fighting equipment and water supplies on site to respond to a bush fire.</p>	Compliant	<p>First Solar: CEMP Section 16 pp. 102-110, Appendix G (Summary of Consultation undertaken with Agencies on Bushfire and Waste Management April/May 2014)</p> <p>CPP: CEMP Section 17 pp. 47-49</p>
	Utilities and Services		
B14.	<p>Utilities, services and other infrastructure potentially affected by construction and operation shall be identified prior to construction to determine requirements for access to, diversion, protection, and/or support. Consultation with the relevant owner and/or provider of services that are likely to be</p>	Compliant	<p>First Solar: CEMP Section 6.6 p. 33</p> <p>CPP: CEMP Section 21 p. 55; CEMP Section 28 pp. 65-67 (Drawings).</p> <p>The CPP CEMP indicated that a diversion underground of the existing 22kV line will be required.</p>

ID	Requirement	Compliance	Evidence
	affected by the Project shall be undertaken to make suitable arrangements for access to, diversion, protection, and/or support of the affected infrastructure as required. The cost of any such arrangements shall be borne by the Proponent.		The installation of the potable water supply line and easement to an existing landowner has been completed as part of site enabling work. The diversion work was subject to consultation with Essential Energy and Essential Water.
	FLORA & FAUNA		
	Native Vegetation Impacts		
B15.	The clearing of all native vegetation is to be limited to the minimal extent practicably required. Details regarding the procedures for clearing vegetation and minimising the extent of clearing shall be clearly included in the Flora and Fauna Management Plan contained in condition C3(a).	Compliant	First Solar: CEMP Sub-plan A (Flora and Fauna Management Plan). Figure-A01 of this sub-plan outlines the area of vegetation clearance required. CPP: CEMP Appendix F (Flora and Fauna Management Plan), Section F.4.1
	Fauna Impacts		
B17.	The Applicant shall design, construct and operate any overhead transmission line connection to the electricity grid with consideration to reasonable and feasible mitigation measures that can be employed to minimise the risk of bird and bat strike into electricity wires.	Compliant	CPP have provided e-mail clarification regarding the design indicating the size of the conductor, length of the line and phase spacing provides risk mitigation features for birds.
B18.	Prior to construction the Proponent shall prepare, in consultation with a suitably qualified expert, and implement a management plan for the raptor nesting site described in Figure 7-3 of the Environmental Assessment. This plan shall include, but not be limited to: a) an assessment of the foraging, breeding and habitat available to the raptor populations, including a map of the suitable breeding, roosting and foraging habitat on the project site; b) identified protection measures for this habitat;	Compliant	The Raptor Management Plan (RMP), including a reduced buffer from 500m to 350m for the raptor nesting site, was approved by the Department of Planning & Environment on 27 August 2013 (refer to Appendix C and Appendix D). First Solar: CEMP Sub-plan A (Flora and Fauna Management Plan). The raptor nest location is shown on Figure-A02 of the sub-plan. CPP: CEMP Appendix F (Flora and Fauna Management Plan).

ID	Requirement	Compliance	Evidence
	<p>c) a protocol for checking available breeding habitat prior to any construction works being undertaken, with suitable protection measures implemented if nests are identified;</p> <p>d) identified measures to minimise impact and disturbance to the raptors during construction and operation;</p> <p>e) a monitoring program to assess and respond to impacts on the local raptor populations by construction and operations on the project site; and</p> <p>f) if monitoring results demonstrate the nest has been abandoned then further mitigation, such as a provision of an artificial structure to allow a new nest to be built in the offset area should be investigated.</p> <p>A copy of the Plan shall be provided to the Department and the OEH prior to the commencement of construction.</p>		<p>The Office of Environment and Heritage has been consulted during the development of the RMP and did not raise any concerns with the reduced buffer distance or proposed management measures.</p>
	VISUAL AMENITY		
	Landscaping Requirements		
B22.	<p>The Proponent shall ensure that any permanent buildings and overhead transmission lines are designed and constructed to minimise visual intrusion to nearest sensitive receptors as far as reasonable and feasible, including appropriate external finishes and landscape planting to screen views.</p>	Compliant	<p>First Solar: CEMP Sub-plan C (Landscape Plan) CPP: CEMP Appendix H (Landscape Plan)</p>
	NOISE - OPERATION		
	Operational Noise Design Standards – Overhead Transmission Line		

ID	Requirement	Compliance	Evidence
B29.	The Proponent shall ensure that any overhead transmission line associated with the project is designed, constructed and operated to minimise the generation of corona and aeolian noise as far as reasonable and feasible at nearest existing sensitive receptors.	Compliant	CPP: CEMP Appendix I (Construction Noise Management Plan. Refer to Section I.11)
TRAFFIC AND TRANSPORT			
Road Dilapidation			
B30.	<p>Unless otherwise agreed by the Director-General, the Proponent shall commission an independent, qualified person or team to undertake the following in consultation with the relevant road authority:</p> <p>a) Prior to the commencement of construction of the project, the Proponent shall commission a suitably qualified road infrastructure specialist to assess the condition of all local public roads proposed to be traversed by construction traffic associated with the project (including over-mass or over-dimensional vehicles) in consultation with the relevant road authority, and to identify any upgrade requirements to accommodate project traffic for the duration of construction (including culvert, bridge and drainage design; intersection treatments; vehicle turning requirements; and site access), having regard to traffic volumes. The Pre-Construction Road Report shall be submitted to the Director- General prior to the commencement of construction works, clearly identifying recommendations made by the relevant road authority and how these have been addressed. The Proponent shall ensure that all upgrade measures identified in the report are</p>	Compliant as per Broken Hill City Council correspondence	<p>First Solar met with Broken Hill City Council on 25 September 2014 to discuss the Traffic Management Plan part of the CEMP. At this meeting, First Solar advised that pre-construction road and road dilapidation reporting were not considered necessary. This is due to construction traffic use of State roads rather than local roads maintained by Council.</p> <p>As Council roads are not required for access, a pre-construction road report and dilapidation report are not considered to be required.</p> <p>Broken Hill City Council confirmed on 26 September 2014 that First Solar's Traffic Management Plan (TMP) is acceptable (refer to Appendix E).</p> <p>CPP: Stakeholder consultation is outlined in Appendix C of the CEMP. Email correspondence between Broken Hill City Council and Geolyse Pty Ltd from 7 May 2014 to 12 May 2014 indicated that a Pre-Construction Road Report and a Road Dilapidation Report are not required in respect of the transmission line works.</p>

ID	Requirement	Compliance	Evidence
	<p>implemented to meet the reasonable requirements of the relevant road authority, prior to the commencement of construction;</p> <p>b) upon determining the haulage route(s) for construction vehicles associated with the project, and prior to construction, an independent and qualified person or team shall undertake a Road Dilapidation Report. The report shall assess the current condition of relevant local road(s) and describe mechanisms to restore any damage that may result due to traffic and transport related to the construction of the project. The Report shall be submitted to the relevant road authority for review prior to the commencement of haulage;</p> <p>c) following completion of construction, a subsequent report shall be prepared to assess any damage that may have resulted from the construction of the project; and</p> <p>d) measures undertaken to restore or reinstate roads affected by the project shall be undertaken in a timely manner, in accordance with the reasonable requirements of the relevant road authority, and at the full expense of the Proponent.</p>		
B31.	<p>The intersection of the site access road and the Barrier Highway shall be upgraded prior to the commencement of construction to the satisfaction of and at no cost to the relevant road authority.</p>	Compliant	<p>RMS confirmed that the current access is adequate for construction to start – e-mail to RMS sent on 25 September 2014 confirming agreement and RMS response received on 21 October 2014 (refer to Appendix F).</p>

ID	Requirement	Compliance	Evidence
	PART B - ENVIRONMENTAL MANAGEMENT, REPORTING AND AUDITING		
	ENVIRONMENTAL REPRESENTATIVE		
C1.	<p>Prior to the commencement of construction of the Project, or as otherwise agreed by the Director-General, the Proponent shall nominate for the approval of the Director-General a suitably qualified and experienced Environment Representative(s) that is independent of the design and construction personnel. The Proponent shall employ the Environmental Representative(s) for the duration of construction, or as otherwise agreed by the Director-General. The Environmental Representative(s) shall:</p> <ul style="list-style-type: none"> a) be the principal point of advice in relation to the environmental performance of the Project; b) monitor the implementation of environmental management plans and monitoring programs required under this approval and advise the Proponent upon the achievement of these plans/ programs; c) have responsibility for considering and advising the Proponent on matters specified in the conditions of this approval, and other licences and approvals related to the environmental performance and impacts of the Project; d) ensure that environmental auditing is undertaken in accordance with the Proponent's Environmental Management System(s); e) be given the authority to approve/ reject minor amendments to the Construction Environmental 	Compliant	The Environmental Representative was approved by the Department of Planning and Environment on 13 June 2014 (refer to Appendix G).

ID	Requirement	Compliance	Evidence
	<p>Management Plan. What constitutes a “minor” amendment shall be clearly explained in the Construction Environmental Management Plan required under Condition C2;</p> <p>f) be given the authority and independence to require reasonable steps be taken to avoid or minimise unintended or adverse environmental impacts, and failing the effectiveness of such steps, to direct that relevant actions be ceased immediately should an adverse impact on the environment be likely to occur; and</p> <p>g) be consulted in responding to the community concerning the environmental performance of the project where the resolution of points of conflict between the Applicant and the community is required.</p>		
	ENVIRONMENTAL MANAGEMENT		
	Construction Environmental Management Plan (CEMP)		
C2.	<p>The Proponent shall prepare and implement a Construction Environmental Management Plan in consultation with Council and the Crown Lands Division of the Department of Trade and Investment in accordance with the <i>Guideline for the Preparation of Environmental Management Plans</i> (Department of Infrastructure, Planning and Natural Resources, 2004) or any replacement guideline. No construction associated with the project shall commence until written approval of this plan has been received from the Director-General or his nominee. The Plan must include:</p> <p>a) a description of all relevant activities to be</p>	Compliant	Refer to Appendix H for confirmation from the Department of Planning & Environment (17 October 2014) that the CEMPs are approved and satisfy the requirements of Condition C2 and C3.

ID	Requirement	Compliance	Evidence
	<p>undertaken on the site during construction including an indication of stages of construction, where relevant;</p> <p>b) identification of the potential for cumulative impacts with other construction activities occurring in the vicinity and how such impacts would be managed;</p> <p>c) details of any construction sites and mitigation, monitoring, management and rehabilitation measures specific to the site compound(s) that would be implemented;</p> <p>d) statutory and other obligations that the Proponent is required to fulfil during construction including all relevant approvals, consultations and agreements required from authorities and other stakeholders, and key legislation and policies;</p> <p>e) evidence of consultation with relevant public authorities required under this condition and how issues raised by the agencies have been addressed in the plan;</p> <p>f) a description of the roles and responsibilities for all relevant employees involved in the construction of the project including relevant training and induction provisions for ensuring that all employees, contractors and sub-contractors are aware of their environmental and compliance obligations under these conditions of approval;</p> <p>g) details of how the environmental performance of construction will be monitored, and what actions will be taken to address identified potential adverse environmental impacts;</p>		

ID	Requirement	Compliance	Evidence
	<ul style="list-style-type: none"> h) specific consideration of relevant measures identified in the documents referred to under conditions A2b) and A2c) of this approval; i) the additional requirements of this approval; j) a complaints handling procedure during construction identified in conditions C12 and C14; k) register of construction work hazards and the anticipated level of risk associated with each; l) measures to monitor and manage soil and water impacts in consultation with NOW including: control measures for works close to or involving waterway crossings (including rehabilitation measures following disturbance and monitoring measures and completion criteria to determine rehabilitation success), identification of construction activities that are likely to pose a risk of groundwater interference, and procedures for managing groundwater impacts should they occur; m) measures to monitor and manage flood impacts in consultation with NOW; n) measures to monitor and manage dust emissions including dust generated by traffic on unsealed public roads and unsealed internal access tracks; o) emergency management measures including measures to control bushfires; p) information on water sources. 		
C3.	As part of the Construction Environmental Management Plan required under condition C2 of this approval, the Proponent shall prepare and	Compliant	

ID	Requirement	Compliance	Evidence
	<p>implement the following:</p> <p>a) a Flora and Fauna Management Plan, developed in consultation with the OEH, to outline measures to protect and minimise loss of native vegetation and native fauna habitat as a result of construction of the project. The Plan shall include, but not necessarily be limited to:</p> <ul style="list-style-type: none"> i. plans showing terrestrial vegetation communities; important flora and fauna habitat areas; locations of EECs, native pasture; and areas to be cleared. The plans shall also identify vegetation adjoining the site where this contains important habitat areas and/or threatened species, populations or ecological communities; ii. methods to manage impacts on flora and fauna species and their habitat which may be directly or indirectly affected by the project, such as location of fencing, procedures for vegetation clearing or soil removal/stockpiling and procedures for re-locating hollows or installing nesting boxes and managing weeds; iii. procedures to accurately determine the total area, type and condition of vegetation community to be cleared; iv. reference to the Ground Cover Management Plan and the Management Plan for the raptor nesting site required in condition C3(b) and B18 respectively; and v. a procedure to review management methods where they are found to be ineffective. <p>b) Ground Cover Management Plan, developed in consultation with the Crown Lands Division of the</p>		<p>(a)</p> <p>First Solar: CEMP sub-plan A (Flora and Fauna Management Plan). Agency consultation for First Solar is also outlined in Appendix G of the CEMP. An email from OEH on 20 May 2014 confirms that the CEMP Sub-plan A (Flora and Fauna Management Plan) was considered satisfactory.</p> <p>CPP: CEMP Appendix F (Flora and Fauna Management Plan)</p> <p>Refer to Appendix H for confirmation from the Department of Planning & Environment (17 October 2014) that the CEMPs are approved and satisfy the requirements of Condition C2 and C3.</p>

ID	Requirement	Compliance	Evidence
	<p>Department of Trade and Investment an agronomist, to outline measures to ensure adequate vegetation cover and composition beneath the solar PV array. The Plan shall include, but not necessarily be limited to:</p> <ul style="list-style-type: none"> i. procedures to minimise disturbance to ground cover not impacted by the project particularly in the area of the native shrubland in good condition; ii. procedures for the stabilisation, rehabilitation and revegetation of disturbed ground cover including reference to field trials where required; iii. weed management measures to control and prevent the spread of noxious weeds; iv. monitoring methods to assess the impact of the project on the ground cover vegetation; and v. a procedure to review management methods where they are found to be ineffective. <p>c) a Landscape Plan, to minimise visual impacts from the solar plant. The Plan shall include, but not necessarily be limited to:</p> <ul style="list-style-type: none"> i. identification of landscaping objectives and standards based on visual impacts; ii. details of species used to enhance, mitigate and/or augment landscaping to minimise the visual impact of the project, particularly with respect to the impacts on nearby residences; iii. implementation, management and monitoring strategies to ensure the establishment and ongoing maintenance of landscaped areas; and 		<p>(b) First Solar: CEMP Sub-plan B (Ground Cover Management Plan)</p> <p>CPP: CEMP Appendix G (Ground Cover Management Plan)</p> <p>(c) First Solar: CEMP Sub-plan C (Landscape Plan) CPP: CEMP Appendix H (Landscape Plan)</p>

ID	Requirement	Compliance	Evidence
	<ul style="list-style-type: none"> iv. a consultation strategy to seek feedback from affected residents and the interested community on the proposed landscape measures. d) a Construction Noise Management Plan to manage noise impacts during construction and to identify all feasible and reasonable noise mitigation measures. The Plan shall include, but not necessarily be limited to: <ul style="list-style-type: none"> i. details of construction activities and an indicative schedule for construction works; ii. identification of construction activities that have the potential to generate noise impacts on surrounding land uses, particularly residential areas; iii. detail the requirements for Noise Impact Statement(s) for discrete work areas, including construction site compounds; iv. detail what reasonable and feasible actions and measures would be implemented to minimise noise impacts; v. procedures for notifying sensitive receivers of construction activities that are likely to affect their noise amenity, as well as procedures for dealing with and responding to noise complaints; vi. an out-of-hours work (OOHW) protocol for the assessment, management and approval of works outside of standard construction hours as defined in condition B25 of this approval, including a risk assessment process under which an Environmental Representative may approve out-of-hour construction activities 		<p>(d) First Solar: CEMP Sub-plan D (Construction Noise Management Plan)</p> <p>CPP: CEMP Appendix I (Construction Noise Management Plan)</p>

ID	Requirement	Compliance	Evidence
	<p>deemed to be of low environmental risk and refer high risk works for the Director-General's approval. The OOHW protocol shall detail standard assessment, mitigation and notification requirements for high and low risk out-of-hour works, and detail a standard protocol for referring applications to the Director-General; and</p> <p>vii. a description of how the effectiveness of these actions and measures would be monitored during the proposed works, clearly indicating how often this monitoring would be conducted, the locations where monitoring would take place, how the results of this monitoring would be recorded and reported; and, if any exceedance is detected how any non-compliance would be rectified.</p> <p>e) a Traffic Management Plan to manage traffic conflicts that may be generated during construction. In preparing the Plan, the Proponent shall consult with the Council, RMS and the Crown Lands Division of the Department of Trade and Investment. The Plan shall address the requirements of the relevant road authority and shall include, but not necessarily be limited to:</p> <ul style="list-style-type: none"> i. details of how construction of the project will be managed in proximity to local and regional roads; ii. details of traffic routes for heavy vehicles, including any necessary route or timing restriction for oversized loads; iii. demonstration that all statutory responsibilities 		<p>(e) RMS provided a response to the First Solar Traffic Management Plan on 8 September 2014 (refer to Appendix I).</p> <p>RMS provided confirmation on 14 October 2014 that the CPP TMP identifies the volume and management of traffic accessing the site as required under Condition C3(e) (refer to Appendix J).</p> <p>First Solar: CEMP Sub-plan E (Construction Traffic Management Plan)</p> <p>CPP: CEMP Appendix E (Traffic Management Plan)</p>

ID	Requirement	Compliance	Evidence
	<p>with regard to road traffic impacts have been complied with;</p> <ul style="list-style-type: none"> iv. details of measures to minimise interactions between the project and other users of the roads such as the use of fencing, lights, barriers, traffic diversions etc; v. procedures for informing the public where any road access will be restricted as a result of the project; vi. procedures to manage construction traffic to ensure the safety of livestock and to minimise disruption to livestock; vii. speed limits to be observed along routes to and from the site and within the site; and viii. details of the expected behavioural requirements for vehicle drivers travelling to and from the site and within the site. <p>f) an Aboriginal Heritage Plan to monitor and manage Aboriginal heritage shall be developed in consultation with the OEH and registered Aboriginal stakeholders, and include the following:</p> <ul style="list-style-type: none"> i. details of further archaeological investigations and/or salvage measures to be carried out prior to construction; ii. procedures for the management of identified objects within the project site; iii. procedures for dealing with unidentified objects and/or human remains; iv. Aboriginal cultural heritage induction processes for construction personnel; and v. procedures for ongoing Aboriginal consultation and involvement. 		<p>(f) First Solar: CEMP Sub-plan F (Aboriginal Heritage Management Plan)</p> <p>CPP: CEMP Appendix J (Aboriginal Heritage Plan)</p> <p>An Aboriginal Heritage Salvage record is included in Appendix O, which documents the salvage of artefact / isolated scatters across the project site (dated 17 December 2013).</p>

ID	Requirement	Compliance	Evidence
	Upon receipt of the Director-General's approval, the Proponent shall provide a copy of the Plan to the Crown Land Division of the Department of Trade and Investment as soon as practicable.		
	Biodiversity Offset Management Package		
C5.	<p>Following final design and prior to the commencement of construction, or as otherwise agreed to by the Director-General, the Proponent shall develop and submit a Biodiversity Offset Management Package for the approval of the Director-General. The package shall detail how the ecological values lost as a result of the Project will be offset. The Biodiversity Offset Management Package shall be developed in consultation with the OEH and shall (unless otherwise agreed by the Director-General) include, but not necessarily be limited to:</p> <ul style="list-style-type: none"> a) an assessment of all native vegetation communities, threatened species habitat and Willyama Common land that will either be directly or indirectly impacted by the proposal; b) the objectives and biodiversity outcomes to be achieved (including 'improve or maintain' biodiversity values), and the adequacy of the proposed offset considered; c) the final suite of the biodiversity offset measures selected and secured including but not necessarily limited to; <ul style="list-style-type: none"> i. an offset proposal which is supported by a suitable metric method (such as the Biobanking Assessment Methodology); ii. details of the relative condition and values 	Compliant	The Biodiversity Offset Management Plan was approved by the Department of Planning and Environment on 27 August 2013 (refer to Appendix K).

ID	Requirement	Compliance	Evidence
	<p>of communities on the offset site in comparison to those to be impacted, including all areas of native shrubland in moderate to good condition;</p> <p>iii. proposed management actions and expected gains;</p> <p>d) the monitoring requirements for compensatory habitat works and other biodiversity offset measures proposed to ensure the outcomes of the package are achieved, including:</p> <p>i. the monitoring of the condition of species and ecological communities at offset locations;</p> <p>ii. the methodology for the monitoring program(s), including the number and location of offset monitoring sites, and the sampling frequency at these sites;</p> <p>iii. provisions for the annual reporting of the monitoring results for a set period of time as determined in consultation with the OEH; and</p> <p>e) timing and responsibilities for the implementation of the provisions of the Package.</p> <p>Land offsets shall be consistent with the <i>Principles for the use of Biodiversity Offsets in NSW</i> (NSW Office of Environment and Heritage, June 2011). Any land offset shall be enduring and be secured by a conservation mechanism which protects and manages the land in perpetuity. Where land offsets cannot solely achieve compensation for the loss of habitat, additional measures shall be provided to collectively deliver an improved or maintained biodiversity outcome for the region.</p>		

ID	Requirement	Compliance	Evidence
	<p>Where monitoring referred to in condition (d) indicates that biodiversity outcomes are not being achieved, remedial actions shall be undertaken to ensure that the objectives of the Biodiversity Offset Package are achieved.</p> <p>Within one month from approval from the Director-General the Proponent shall, in conjunction with the lessee of Western Lands Lease 14240, apply to the Crown Lands Division of the Department of Trade and Investment for a Change of Lease Purpose of Western Land Lease 14240 to appropriately record the biodiversity offset on title and within the lease conditions as a conservation area.</p>		
	COMMUNITY		
	Provision of Electronic Information		
C11.	<p>Prior to the commencement of construction, the Proponent shall establish a dedicated website or maintain dedicated pages within its existing website for the provision of electronic information associated with the project. The Proponent shall publish and maintain up-to-date information on this website or dedicated pages including, but not necessarily limited to:</p> <ul style="list-style-type: none"> a) the status of the project; b) a copy of this approval and any future modification to this approval; c) a copy of each relevant environmental approval, licence or permit required and obtained in relation to the project; d) a copy of each plan, report, or monitoring program required by this approval; and 	Compliant following upload of approved documents to AGL website	Refer to: http://www.agl.com.au/about-agl/how-we-source-energy/renewable-energy/broken-hill-solar-plant . AGL will load the approved CEMPS on to the project website as part of updates to the project website.

ID	Requirement	Compliance	Evidence
	e) details of the outcomes of compliance reviews and audits of the project..		
	Community Information Plan		
C12.	<p>Prior to the commencement of construction, the Proponent shall prepare and implement a Community Information Plan which sets out the community communication and consultation processes to be implemented during construction and operation of the project. The Plan shall include but not be limited to:</p> <ul style="list-style-type: none"> a) procedures to inform the local community of planned investigations and construction activities, including blasting works (if any); b) procedures to inform the relevant community of construction traffic routes and any potential disruptions to traffic flows and amenity impacts; c) procedures to consult with local landowners/residents with regard to construction traffic to ensure the safety of livestock and to limit disruption to livestock movements; d) procedures to inform the community where work outside the construction hours specified in condition B25, in particular noisy activities, has been approved; and e) procedures to inform and consult with the Crown Lands Division of the Department of Trade and Investment to rehabilitate impacted land. 	Compliant	A Community Consultation Plan was developed for the Broken Hill project in July 2013 (refer to Appendix L).
	Complaints Procedure		
C13.	Prior to the commencement of construction, the Proponent shall ensure that the following are available for community complaints for the life of the	Compliant	A project website has been set up by AGL to enable further enquiries. Refer to: http://www.agl.com.au/about-agl/how-we-source-

ID	Requirement	Compliance	Evidence
	<p>project (including construction and operation) or as otherwise agreed by the Director-General:</p> <ul style="list-style-type: none"> a) a 24 hour telephone number on which complaints about construction and operational activities at the site may be registered; b) a postal address to which written complaints may be sent; and c) an email address to which electronic complaints may be transmitted. <p>The telephone number, postal address and e-mail address shall be advertised in a newspaper circulating in the local area on at least one occasion prior to the commencement of construction; and at six-monthly intervals during construction and for a period of two years following commencement of operation of the project. These details shall also be provided on the Proponent's internet site required by condition C11. The telephone number, the postal address and the email address shall be displayed on a sign near the entrance to the construction site(s), in a position that is clearly visible to the public.</p>		<p>energy/renewable-energy/broken-hill-solar-plant/community-matters</p> <p>In the event of complaint, a dedicated telephone number has been provided (1800 039 600) and an e-mail address established at brokenhillsolar@agl.com.au. Address details are as follows:</p> <p>Broken Hill Project contact, Locked Bag 1837, St Leonards, NSW, 2065</p> <p>Inaugural Community Consultative Committee (CCC) meeting advertisement (meeting held on 1 May 2014) included the relevant details (refer to Appendix M). Included are both the advert and a tear sheet from the local newspaper.</p>
C14.	<p>The Proponent shall record details of all complaints received through the means listed in condition C13 of this approval in an up-to-date Complaints Register. The Register shall record, but not necessarily be limited to:</p> <ul style="list-style-type: none"> d) the date and time, of the complaint; e) the means by which the complaint was made (telephone, mail or email); f) any personal details of the complainant that were 	Compliant	<p>A Community Consultation Plan was developed for the Broken Hill project in July 2013 (refer to Appendix L). This plan includes complaint handling procedures and a complaints register.</p> <p>First Solar: CEMP Section 21 pp. 130-132 CPP: CEMP Section 12 p. 31</p>

ID	Requirement	Compliance	Evidence
	<p>provided, or if no details were provided, a note to that effect;</p> <p>g) the nature of the complaint;</p> <p>h) any action(s) taken by the Applicant in relation to the complaint, including timeframes for implementing the action; and</p> <p>i) if no action was taken by the Applicant in relation to the complaint, the reason(s) why no action was taken.</p> <p>The Complaints Register shall be made available for inspection by the Director-General upon request.</p>		
	COMPLIANCE		
	Compliance Tracking Program		
C16.	<p>Prior to the commencement of construction, the Proponent shall develop and implement a Compliance Tracking Program, to track compliance with the requirements of this approval during the construction and operation of the project and shall include, but not necessarily be limited to:</p> <p>a) provisions for periodic reporting of compliance status to the Director-General including at least prior to the commencement of construction of the project, prior to the commencement of operation of the project and within two years of operation commencement;</p> <p>b) a program for independent environmental auditing in accordance with AS/NZ ISO 19011:2003 - Guidelines for Quality and/or Environmental Management Systems Auditing;</p> <p>c) procedures for rectifying any non-compliance identified during environmental auditing or review</p>	Compliant	<p>This pre-construction compliance tracking report captures the compliance with the relevant pre-construction approval conditions. This report consolidates the compliance information from the respective Construction Environmental Management Plans (CEMPs) for each stage:</p> <p>First Solar: CEMP Section 20.6 p. 129 CPP: CEMP Section 26 p. 63</p> <p>Future compliance tracking reports will be provided for each stage and consolidated into a single report prior to the commencement of operation and as required.</p>

ID	Requirement	Compliance	Evidence
	<p>of compliance;</p> <p>d) mechanisms for recording environmental incidents and actions taken in response to those incidents;</p> <p>e) provisions for reporting environmental incidents to the Director-General during construction and operation; and</p> <p>f) provisions for ensuring all employees, contractors and sub-contractors are aware of, and comply with, the conditions of this approval relevant to their respective activities.</p>		

3. Compliance with Pre-construction Mitigation Measures

This section assesses the compliance of the First Solar CEMP and CPP CEMP with the pre-construction mitigation identified in the Broken Hill Solar plant Submissions and Preferred Project Report (SKM, 2013). Mitigation measures associated with construction, operation and decommissioning activities have been excluded from this list. This section has been prepared in consideration of condition of approval C2(h).

Mitigation measures		Compliant	Evidence
	Environmental management		
EM1	The head contractor for the project would have an environmental management system, including a performance and compliance auditing program.	Compliant	First Solar: CEMP Section 20 pp. 120-129 CPP: CEMP Section 9 pp. 25-28
EM2	A Construction Environmental Management Plan (CEMP) would be prepared and implemented before the start of any construction activities. The CEMP will include details on the Aboriginal Heritage Management Plan, which will be finalised and implemented prior to the commencement of construction of the solar plant.	Compliant	An Aboriginal Heritage Management Plan, Broken Hill Solar Plant has been prepared on behalf of AGL (OzArk Environmental & Heritage Management, 2013) (refer to Appendix N) and has been included in: First Solar: CEMP Sub-plan F (Aboriginal Heritage Management Plan) p. 140 CPP:CEMP Appendix J (Aboriginal Heritage Plan) pp. 114-115 Refer to Appendix H for confirmation from the Department of Planning & Environment (17 October 2014) that the CEMPs are approved and satisfy the requirements of Condition C2 and C3.
EM3	A CEMP and an Operation Environmental Management Plan (OEMP) will be prepared for the site in consultation with the relevant authorities including the NSW Office of Water, OEH and RMS.	Compliant (in relation to the CEMP)	First Solar: CEMP Appendix G (Agency Consultation) p. 148 CPP: CEMP Appendix C (Evidence of Stakeholder Consultation) p. 70

Mitigation measures		Compliant	Evidence
			An OEMP is not required at this stage.
Community consultation			
CC1	A community consultation plan will be prepared and implemented. The plan will include a project phone number, e-mail and website for community input, a complaints handling procedure, and procedures for targeted consultation with affected stakeholders.	Compliant	<p>A Community Consultation Plan, Broken Hill and Nyngan Solar Plants has been prepared (AGL, 2013) (refer to Appendix L).</p> <p>First Solar: CEMP Section 17 pp. 112-114 CPP: CEMP Section 12 p. 31; CEMP Section 17.3.3 p. 48; CEMP Appendix C (Evidence of Stakeholder Consultation) p. 70</p>
Noise impacts			
N1	Although construction noise impacts are unlikely, identified sensitive receivers in the vicinity of the project site are to be given adequate prior notice of the construction program, kept informed throughout the construction period, and provided with a name and contact number for construction noise information and complaints. Any noise complaints will be dealt with through the standard complaints management procedure identified in the community consultation plan.	Compliant	<p>First Solar: CEMP Sub-plan D (Construction Noise Management Plan) p. 138 Section 6.2 p. 10 CPP: CEMP Appendix I (Construction Noise Management Plan) I.7 pp. 110-111.</p> <p>Refer to Appendix R for correspondence related to landowner notifications.</p>
N2	Construction noise and vibration will be minimised as far as practical through the implementation of all feasible and reasonable measures. These measures will be specified within a Construction Noise and Vibration Management Plan (CNVMP). The CNVMP will also include project-specific objectives and protocols for management of construction noise.	Compliant	<p>First Solar: CEMP Sub-plan D (Construction Noise Management Plan) p. 138 CPP: CEMP Appendix I (Construction Noise Management Plan) I.6 p. 110</p>

Mitigation measures		Compliant	Evidence
N3	Construction activities will take place during standard working hours (7.00am to 6.00pm Monday to Friday, 8.00am to 1.00pm Saturday and no work on Sunday or public holidays). Any work outside of these hours will be undertaken in accordance with the Interim Construction Noise Guideline (OEH, 2009). The CNVMP will specify protocols for notification of potentially affected receivers for out-of-hours work.	Compliant	First Solar: CEMP Sub-plan D (Construction Noise Management Plan) p. 138 Section 2.3 p.3, Section 6.1 p.10 CPP: CEMP Appendix I (Construction Noise Management Plan) I.8 pp. 111-112
Flora and fauna			
FF1	Clearing of native vegetation will be restricted to the minimum area necessary for construction. Clearing boundaries will be specified within the CEMP and delineated on site with appropriate boundary or exclusion fencing.	Compliant	First Solar: CEMP Sub-plan A (Flora and Fauna Management Plan) p. 135 Section 4.1.1 pp. 5-6 CPP: CEMP Appendix F (Flora and Fauna Management Plan) F.4 pp. 101-102
FF4	The CEMP and the OEMP will include monitoring requirements for the raptor nest located near to the project site. The monitoring requirements will be prepared in consultation with OEH.	Compliant	First Solar: CEMP Sub-plan A (Flora and Fauna Management Plan) p. 135 Section 4.1.9 p. 7 CPP: CEMP Appendix F (Flora and Fauna Management Plan) F.7 p. 103
FF5	The site CEMP will specify management procedures for vegetation clearing and details for an ecologist to undertake a pre-clearing survey and to be present during all clearing activities.	Compliant	First Solar: CEMP Sub-plan A (Flora and Fauna Management Plan) p. 135 CPP: CEMP Appendix F (Flora and Fauna Management Plan) F.4.3 p. 102
FF10	An Offset Management Strategy will be developed, including an Offset Management and Rehabilitation Plan, in consultation with OEH. The Strategy is to include: <ul style="list-style-type: none"> • Details on the area of the offset. • Vegetation communities present and their current condition. • Tenure of the land within the offset. • Identification of a mechanism that protects the area 	Compliant	An Offset Management Plan covering biodiversity was approved by the Department of Planning and Environment on 27 August 2013 (refer to Appendix K). First Solar: CEMP Sub-plan A (Flora and Fauna Management Plan) p. 135 Section 2.1 p. 2 CPP: CEMP Appendix F (Flora and Fauna Management Plan) F.5 pp. 102-103

Mitigation measures		Compliant	Evidence
	<p>in perpetuity.</p> <ul style="list-style-type: none"> • Identification and costing of management issues, including fencing and weed/feral animal control. • Monitoring details to determine the effectiveness of the management actions. <p>The Offset Management Strategy will be prepared in consultation with the agencies responsible for the management of the Willyama Common and will consider the cumulative impacts of clearing in the Willyama Common for the transmission line.</p>		
Aboriginal heritage			
IH1	<p>The proponent will consult with Aboriginal stakeholders regarding management of the 14 Aboriginal heritage sites recorded during the site survey. An Aboriginal Heritage Management Plan (AHMP) will be developed in consultation with these stakeholders and OEH to specify how the sites will be protected in-situ, relocated or salvaged.</p>	Compliant	<p>An Aboriginal Heritage Management Plan (AHMP), Broken Hill Solar Plant has been prepared on behalf of AGL (OzArk Environmental & Heritage Management, 2013) (refer to Appendix N) and has been included in:</p> <p>First Solar: CEMP Sub-plan F (Aboriginal Heritage Management Plan) p. 140 Section 2.2 pp. 7-9 CPP: CEMP Appendix J (Aboriginal Heritage Plan) pp. 114-115</p> <p>An Aboriginal Heritage Salvage record is included in Appendix O, which documents the salvage of artefact / isolated scatters across the project site (dated 17 December 2013).</p>
IH2	<p>Protocols will be developed to manage and protect Aboriginal artefacts or suspected human remains which may be encountered during construction. These protocols will be specified in the AHMP and may include stopping works in the vicinity of the find, notification of</p>	Compliant	<p>An Aboriginal Heritage Management Plan, Broken Hill Solar Plant and Salvage record has been prepared on behalf of AGL (OzArk Environmental & Heritage Management, 2013) (refer to Appendix N and Appendix O). The AHMP has been included in:</p>

Mitigation measures		Compliant	Evidence
	relevant stakeholders and implementation of an appropriate management strategy.		First Solar: CEMP Sub-plan F (Aboriginal Heritage Management Plan) p. 140 Section 5.4.1 p. 16 CPP: CEMP Appendix J (Aboriginal Heritage Plan) pp. 114-115
IH3	All construction personnel will receive training in the management of Aboriginal artefacts and objects, including legal obligations, the application of protocols, and the recognition of artefacts.	Compliant	An Aboriginal Heritage Management Plan, Broken Hill Solar Plant has been prepared on behalf of AGL (OzArk Environmental & Heritage Management, 2013) (refer to Appendix N) and has been included in: First Solar: CEMP Sub-plan F (Aboriginal Heritage Management Plan) p. 140 Section 5.4.2 p. 16 CPP: CEMP Appendix J (Aboriginal Heritage Plan) J.4 pp. 114-115 An Aboriginal Heritage Salvage record is included in Appendix O , which documents the salvage of artefact / isolated scatters across the project site (dated 17 December 2013).
Traffic and transport			
TT1	The proponent or its contractor will determine the final details of haulage during detailed transport planning, in consultation with RMS, road and intersection works will be approved and completed prior to the commencement of construction of the solar plant, and would be at no cost to RMS.	Compliant	RMS letter response dated 8 September 2014 confirmed RMS is satisfied that the First Solar TMP identifies the volume and management of traffic accessing the site as required under Condition C3(e). RMS has provided requirements for the intersection upgrade between the site intersection and the Barrier Highway (refer to Appendix I). A concept design for the intersection upgrade has been prepared for RMS review. RMS confirmed that the current access is adequate

Mitigation measures		Compliant	Evidence
			<p>for construction to start – e-mail to RMS sent on 25 September 2014 confirming agreement (refer to Appendix F).</p> <p>First Solar: CEMP Sub-plan E (Construction Traffic Management) p. 139 CPP: CEMP Appendix E (Traffic Management Plan) p. 78</p>
TT2	The existing site access road off the Barrier Highway and the associated intersection will be upgraded in accordance with RMS standards to accommodate construction traffic and on-going maintenance access.	Compliant	<p>AGL is engaging with the Parkes office of RMS to complete the intersection works with the Barrier Highway required by the First Solar TMP.</p> <p>RMS confirmed that the current access is adequate for construction to start – e-mail to RMS sent on 25 September 2014 confirming agreement (refer to Appendix F).</p>
TT3	<p>A Traffic Management Plan will be prepared and implemented for the construction, operation and decommissioning phases of the project. The plan will specify:</p> <ul style="list-style-type: none"> • Travel routes and parking areas for construction and operations traffic. • Origin, number, size and frequency of vehicles accessing/exiting the site. • Speed limits and directions of travel on the access roads within the site. • Loads, weights and lengths of haulage and construction related vehicles. • Scheduling of haulage vehicle movements to minimise convoy length and platoons. • Traffic control requirements, including requirements for signage, barriers and traffic control personnel. 	Compliant	<p>RMS provided a response to the First Solar Traffic Management Plan on 8 September 2014 (refer to Appendix I).</p> <p>RMS provided confirmation on 14 October 2014 that the First Solar TMP identifies the volume and management of traffic accessing the site as required under Condition C3(e) (refer to Appendix J).</p> <p>AGL e-mailed RMS on 22 September 2014 to also indicate CPP's traffic contribution is immaterial to the overall works.</p> <p>First Solar: CEMP Sub-plan E (Construction Traffic Management Plan) p. 139</p>

Mitigation measures	Compliant	Evidence
<ul style="list-style-type: none"> The management and coordination of vehicle movements to the site and measures to limit disruption to other motorists, emergency vehicles and school bus timetables. Details of intersection improvement works in accordance with Austroads Guide to Road Design 2010 and RMS supplements. 		<p>CPP: CEMP Appendix E (Traffic Management Plan) pp. 78-97</p>
<p>TT4</p> <p>A road condition survey will be undertaken before construction to determine the potential impacts on the structural integrity of road infrastructure. The proponent will prepare a Traffic Management Plan in consultation with Broken Hill City Council and the RMS. This plan will set out the requirements for road management and monitoring.</p>	<p>Compliant</p>	<p>RMS provided a response to the First Solar Traffic Management Plan on 8 September 2014 (refer to Appendix I).</p> <p>First Solar: CEMP Sub-plan E (Construction Traffic Management Plan) p. 139 CPP: CEMP Appendix E (Traffic Management Plan) p. 78; CEMP Appendix C (Evidence of Stakeholder Consultation) p. 70</p> <p>First Solar met with Broken Hill City Council on 25 September 2014 to discuss the Traffic Management Plan part of the CEMP. In view of the proposed haulage routes, First Solar advised at this meeting that pre-construction road and road dilapidation reporting were not considered necessary due to construction traffic use of State roads. Broken Hill City Council confirmed in an e-mail dated 26 September 2014 that First Solar's traffic management proposals are acceptable. On this basis, a pre-construction road report and dilapidation report are not considered to be required.</p> <p>In correspondence regarding CPP, Broken Hill City</p>

Mitigation measures		Compliant	Evidence
			Council noted a Pre-Construction Road Report and a Road Dilapidation Report were not warranted for local roads (ref e-mail correspondence dated 09/05/2014, 12/05/2014) (refer to Appendix P).
Hazards and risks			
HR1	The proposed transmission line route has been selected to avoid EMF impacts on sensitive receivers.	Compliant	<p>The proposed transmission line design has been selected to avoid EMF impacts on sensitive receivers. This was a design consideration in identifying the proposed transmission line route.</p> <p>First Solar: Not applicable. Figure 1 of the CEMP Sub-plan D shows the site layout and sensitive receivers.</p> <p>CPP: Not applicable</p>
HR7	The proponent will develop a Risk Register to identify potential incidents that may occur during construction and the appropriate mitigation procedures.	Compliant	<p>First Solar: CEMP Section 9.1 p. 41; CEMP Appendix D (Register of Construction Hazards and Environmental Risk Assessment) p. 145</p> <p>CPP: CEMP Section 13.2.2 p. 32; CEMP Appendix D (Register of Project Forms) p. 77</p>
Water management (water supply, water quality and waterways)			
WM1	Appropriate erosion and sediment control measures, consistent with the guidelines of the 'Blue Book' (Landcom, 2006), will be established before any clearing, excavation or ground disturbance begins and will be maintained in effective working order until the works have been completed and the affected ground surfaces stabilised.	Compliant	<p>First Solar commissioned Geolyse to review the Soil and Water Management Plan (refer to Appendix Q for feedback).</p> <p>First Solar: CEMP Section 10.5.5 p. 61 CPP: CEMP Section 14.7 pp. 43-44</p>
Land use			
L1	Nearby landowners or leaseholders will be informed of	Compliant	AGL has spoken directly with neighbouring

Mitigation measures		Compliant	Evidence
	the construction schedule and scope of works prior to construction.		landowners on 28 June 2014 and issued an advertorial and media release as part of a communication strategy in accordance with the Community Consultation Plan (refer to Appendix L and Appendix R). First Solar: CEMP Sub-plan D (Construction Noise Management Plan) p. 138 Section 6.1 p. 10 CPP: CEMP Appendix I (Construction Noise Management Plan) I.7 pp. 110-111.
L2	The NSW Department of Primary Industries and the affected leaseholder will be consulted regarding alteration of the lease conditions at the site.	Compliant	The Crown Lease was executed on 11 July 2014 (ref: 14/06125) (refer to Appendix B). First Solar: Not applicable CPP: Not applicable
L3	Easements and associated land use restrictions will be identified on property titles.	Compliant	Amended property titles have been completed as a consequence of the Crown Lease. First Solar: Not applicable CPP: Not applicable
L5	The proponent will consult with current mining exploration and extraction licence and lease holders.	Compliant	AGL sent a letter to agencies in November 2010 to inform them of the project and to raise any issues for consideration in the Environmental Impact Statement. Consultees included the NSW Department of Primary Industries, Bemax Resources Ltd, Perilya Ltd and PlatSearch NL. Feedback was considered in the selection, project approval and detail design process. A Crown Lease for the required lands was executed on 11 July 2014 (ref: 14/06125) (refer to Appendix B).

Mitigation measures		Compliant	Evidence
			First Solar: Not applicable CPP: Not applicable
Non-Indigenous heritage			
H1	Protocols will be developed to manage and protect artefacts or suspected human remains which may be encountered during construction. The protocols may, as required, include stopping all works in the vicinity of the find, notification of relevant stakeholders and implementation of an appropriate management strategy.	Compliant	First Solar: CEMP Section 12.3 p. 74 CPP: CEMP Section 27 p. 64
H2	All construction personnel will receive training in the management of non-Indigenous relics, including legal obligations, the application of protocols, and the recognition of relics.	Compliant	First Solar: CEMP Section 12.3.3 pp. 74-75; CEMP Appendix C (Worker Environmental Awareness and Compliance Training) p. 144 CPP: CEMP Section 27.3 p. 64
Socio-economic issues			
S1	Advance notification will be given to nearby residents (including any potentially affected property owners and occupants) on the construction schedule, construction works and access arrangements.	Compliant	First Solar: CEMP Section 17 pp. 112-114 CPP: CEMP Appendix I (Construction Noise Management Plan) I.7 pp. 110-111
Air quality and climate			
AQ2	The access road connecting the Barrier Highway road verge to the project site will be constructed with packed gravel as required to minimise dust and soil impacts.	Pending construction	First Solar: CEMP Section 13.4.1 p. 78 CPP: Not applicable

Appendix A Staging Report (Jacobs, September 2014)



Broken Hill Solar Plant

AGL ENERGY LIMITED

Staging Report

R_HA01732.201 | 0

HA01732.201

September 2014

EXTRACT



Broken Hill Solar Plant

Project no: Project Number
 Document title: Broken Hill Solar Plant Staging Report
 Document no: R_HA01732.201_0
 Revision: 0
 Date: 25/09/2014
 Client name: AGL Energy Ltd
 Client no: AGL-0000081
 Project manager: Charles Barrett
 Author: Cameron Weller
 File name: I:\HARB\Projects\HA01732\Technical\Environmental\First approval work\Staging Report\HA01732.201-Broken Hill Staging Report_Rev 0.0.docx

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Document history and status

Revision	Date	Description	By	Review	Approved
A	25/03/2014	Broken Hill Solar Plant Staging Report - draft	C. Weller	C M O'Keefe	
B	27/06/2014	Broken Hill Solar Plant Staging Report - draft final	A Hammond	C Jeannot	
0	25/09/2014	Broken Hill Solar Plant Staging Report - final	A Hammond	C Jeannot	A Hammond

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EXTRACT

Appendix B Crown Lease (ref: 14/06125)

12.7. Early Termination

The Tenant may by not less than 12 months' notice terminate this Lease and the date of termination will be the later of the date specified in the notice or the date 12 months after the date of service of the notice.

13. OBLIGATIONS AT END OF LEASE**13.1. Tenant to Perform Decommissioning Activities and Remove its Property**

- (a) When this Lease ends (unless the Tenant becomes a lessee of the Premises under a new lease) the Tenant must cease using the Premises for the Permitted Use, except to the extent necessary to carry out the activities in clause 13.1(b).
- (b) Within 2 years after this Lease ends (unless the Tenant becomes a lessee of the Premises under a new lease) the Tenant must to the reasonable satisfaction of the Landlord:
 - (i) carry out the Decommissioning Activities in accordance with the Solar Power Plant Project Approval;
 - (ii) remove all property of the Tenant and the Tenant's Invitees and anything the Tenant fixed to the Premises during the Term of this Lease or a prior lease other than any underground cables that are the property of the Tenant and that cannot be removed from the Premises and make good any damage caused by the removal;
 - (iii) make safe any underground cables that are the property of the Tenant and that cannot be removed from the Premises;
 - (iv) ensure the Premises are in the condition they are required to be kept in under this Lease including complying with clause 6.14; and
 - (v) remediate the Solar Power Plant Infrastructure to minimise soil erosion by performing such works as the Landlord may reasonably nominate, provided that any remediation requirements are consistent with the decommissioning requirements in the Solar Power Plant Project Approval (**Remediation Works Notice**), including works to deep rip and seed the following for revegetation using locally endemic species:
 - (A) construction pads and other compacted areas; and
 - (B) any access roads, tracks and paths that have been constructed across the Premises by the Tenant as part of the Permitted Use, excluding the Main Access Road and any access roads, tracks or paths that have been nominated by the Landlord which the Tenant may keep in place.
- (c) The parties acknowledge and agree that none of the Solar Power Plant Property is intended to become a fixture to the Premises.

13.2. Remediation Works Dispute

The Remediation Works will be the works nominated in the Remediation Works Notice unless the Tenant gives the Landlord a notice to dispute the works nominated (**Remediation Works Dispute Notice**) not less than 1 month after the service of the Remediation Works Notice in which respect time is of the essence. If a Remediation Works Dispute Notice is given in accordance with this clause the following procedure applies:

- (a) within 25 Business Days after service of the Remediation Works Dispute Notice (**Remediation Works Nomination Period**), in which respect time is of the essence the parties

- will nominate in writing to the other a consultant. If the parties nominate the same consultant, the party making the later nomination must nominate a different consultant;
- (b) if one party fails to nominate a consultant within the Remediation Works Nomination Period, the consultant nominated will determine the Remediation Works and the party nominating the consultant must instruct the consultant to make the determination within 15 Business Days after the expiration of the Remediation Works Nomination Period (**Remediation Works Valuation Period**);
 - (c) if both parties fail to nominate a consultant within the Remediation Works Nomination Period then the procedure set out in this clause lapses and the Remediation Works are the works stated in the Remediation Works Notice;
 - (d) if 2 consultants are nominated, the consultants will jointly determine the Remediation Works and each party must instruct the consultant nominated by it to make the determination within the Remediation Works Valuation Period;
 - (e) if the consultants are unable within the Remediation Works Valuation Period to agree on the nature of the Remediation Works then either party may request the President of the Australian Institute of Geoscientists to nominate a consultant to act as an umpire (**Consultants Umpire**). The Consultants Umpire must be engaged to determine the Remediation Works by the party requesting the nomination and must be instructed to make a determination within 15 Business Days after the expiration of the Remediation Works Valuation Period. The Consultants Umpire must be instructed to take into consideration any written submissions by the consultants as to their assessment of the Remediation Works and any other matters it considers relevant;
 - (f) all consultants appointed pursuant to this clause must be instructed to:
 - (i) act as experts and not as arbitrators;
 - (ii) give a written determination with reasons; and
 - (iii) be full members of not less than 5 years standing of the Australian Institute of Geoscientists and be properly qualified to determine the Remediation Works;
 - (g) the costs incurred in the determination pursuant to this clause will be borne by the parties in the following manner:
 - (i) the costs for each consultant nominated by a party - by the party so nominating the consultant (other than where one consultant is appointed in which case the costs of the consultant will be apportioned equally); and
 - (ii) the costs of the Consultants Umpire - by the parties equally;
 - (h) the determination of one consultant pursuant to clause 13.2(b), the joint consultants pursuant to clause 13.2(d) or the Consultants Umpire pursuant to clause 13.2(e) is final and binding on the parties; and
 - (i) the parties may at any time agree in writing the Remediation Works and then this procedure will cease to apply.

13.3. Tenant may leave roads and underground cables

In removing the Solar Power Plant Property and undertaking the Remediation Works, the Tenant may leave in place:

- (a) the Main Access Road, any access roads, tracks and paths not constructed across the Premises by the Tenant as part of the Permitted Use and any other access roads, tracks or paths nominated by the Landlord (provided they are in good repair); and
- (b) any underground cables that are the property of the Tenant and that cannot be removed from the Premises, provided they are made safe.

13.4. Decommissioning Holding Over

The Landlord consents to the Tenant holding over under this Lease only for the purpose of carrying out the activities described in clause 13.1(b) (**Holdover Activities**) and for no other purpose for a period of 2 years from the date this Lease ends and the Landlord cannot give a notice terminating the holding over, or varying the Rent, during this 2 year period. The Tenant may give a notice terminating the holding over during this 2 year period if it has completed all of the Holdover Activities.

13.5. Abandoned Property

Anything not removed from the Premises within 20 Business Days after the end of the Lease (as extended by the holding over period, where relevant) becomes the property of the Landlord who can keep it or remove and dispose of it and recover from the Tenant the cost of removal, making good and disposal.

13.6. Failure of Tenant

If the Tenant fails to comply with its obligations under this clause 13 within 2 years after the date this Lease ends the Landlord may at the Tenant's expense payable on demand perform these obligations. Notwithstanding the termination of this Lease and vacation of the Premises, the Tenant's obligations to pay rent and contributions to outgoings will continue until the Tenant has properly complied with its obligations under this clause 13 or the failure has been rectified by the Landlord.

13.7. Rectification Costs Notice

On or before the anniversary of the Commencing Date 3 years prior to the Terminating Date, the Tenant must provide the Landlord with an estimate of the cost of the Rectification Works (**Rectification Costs Notice**).

13.8. Rectification Costs

The Rectification Costs will be the amount specified in the Rectification Costs Notice unless the Landlord gives the Tenant a notice to dispute the amount stated in the Rectification Costs Notice (**Rectification Dispute Notice**) not less than 2 years and 9 months prior to the Terminating Date, in which respect time is of the essence. If a Rectification Dispute Notice is given in accordance with this clause the following procedure applies:

- (a) Within 25 Business Days after service of the Rectification Dispute Notice (**Rectification Nomination Period**), in which respect time is of the essence the parties will nominate in writing to the other an engineer. If the parties nominate the same engineer, the party making the later nomination must nominate a different engineer.
- (b) If one party fails to nominate an engineer within the Rectification Nomination Period, the engineer nominated will determine the Rectification Costs and the party nominating the engineer must instruct the engineer to make the determination within 15 Business Days after the expiration of the Rectification Nomination Period (**Rectification Valuation Period**).

- (c) If both parties fail to nominate an engineer within the Rectification Nomination Period then the procedure set out in this clause lapses and the Rectification Costs is the amount stated in the Rectification Costs Notice.
- (d) If 2 engineers are nominated, the engineers will jointly determine the Rectification Costs and each party must instruct the engineer nominated by it to make the determination within the Rectification Valuation Period.
- (e) If the engineers are unable within the Rectification Valuation Period to agree on the amount of the Rectification Costs then either party may request the President of the Engineers Institute to nominate an engineer to act as an umpire (**Engineers Umpire**). The Engineers Umpire must be engaged to determine the Rectification Costs by the party requesting the nomination and must be instructed to make his determination within 15 Business Days after the expiration of the Rectification Valuation Period. The Engineers Umpire must be instructed to take into consideration any written submissions by the engineers as to their assessment of the Rectification Costs and any other matters it considers relevant.
- (f) All engineers appointed pursuant to this clause must be instructed to:
- (i) act as experts and not as arbitrators;
 - (ii) give a written determination with reasons; and
 - (iii) be full members of not less than 5 years standing of the Engineers Institute and be properly qualified to determine the Rectification Costs.
- (g) The costs incurred in the determination pursuant to this clause will be borne by the parties in the following manner:
- (i) the costs for each engineer nominated by a party - by the party so nominating the engineer (other than where one engineer is appointed in which case the costs of the engineer will be apportioned equally); and
 - (ii) the costs of the Engineers Umpire - by the parties equally,
- PROVIDED THAT if the Rectification Costs as finally determined are more than 5% more than the amount nominated in the Rectification Costs Notice then all costs of both engineers and the Engineers Umpire (if applicable) will be paid by the Tenant.
- (h) The determination of one engineer pursuant to clause 13.8(b), the joint engineers pursuant to clause 13.8(d) or the Engineers Umpire pursuant to clause 13.8(e) is final and binding on the parties.

The parties may at any time agree in writing the Rectification Costs and then this valuation procedure will cease to apply.

13.9. Rectification Costs Bank Guarantee

- (a) On or before the anniversary of the Commencing Date 2 years prior to the Terminating Date, the Tenant must provide to the Landlord a Bank Guarantee in favour of the Landlord to secure performance of the Tenant's obligation to carry out the Rectification Works for the amount of the Rectification Costs (**Rectification Costs Bank Guarantee**).
- (b) The Landlord must return the Rectification Costs Bank Guarantee (to the extent that it has not been drawn on) to the Tenant within 20 Business Days of the removal of the Solar Power Plant Property and the Tenant having carried out the Rectification Works to the Landlord's reasonable satisfaction.
- (c) Where:

- (i) the Tenant fails to perform its obligation to carry out the Rectification Works;
- (ii) the Tenant does not rectify that failure or put in place arrangements to ensure that the Landlord is compensated for the effects of the failure within a reasonable period after the Landlord notifies the Tenant that it proposes to remedy the failure; and
- (iii) the Landlord performs those obligations and the Tenant does not reimburse the Landlord for the cost of doing so within 10 Business Days of demand from the Landlord,

the Landlord may call up the Rectification Costs Bank Guarantee for the amount of the Landlord's proposed or incurred costs for which the Tenant has failed to pay or reimburse without further notice to the Tenant.

14. CONSTRUCTION BANK GUARANTEE

14.1. Provision of Construction Bank Guarantee

- (a) The Tenant must prior to commencing the Construction Works provide to the Landlord the Construction Bank Guarantee in favour of the Landlord to secure the Tenant's obligations in relation to the Construction Works under this Lease.
- (b) The Construction Bank Guarantee will be returned (to the extent that it has not been drawn on) by the Landlord to the Tenant within 20 Business Days of receiving a Commissioning Certificate.

14.2. Call on Bank Guarantee

Where:

- (a) the Tenant fails to perform its obligations in respect of the Construction Works;
- (b) the Tenant does not rectify that failure or put in place arrangements to ensure that the Landlord is compensated for the effects of the failure within a reasonable period after the Landlord notifies the Tenant that it proposes to remedy the failure; and
- (c) the Landlord performs those obligations and the Tenant does not reimburse the Landlord for the cost of doing so within 10 Business Days of demand from the Landlord,

the Landlord may call up the Construction Bank Guarantee for the amount of the Landlord's proposed or incurred costs for which the Tenant has failed to pay or reimburse without further notice to the Tenant.

15. CONSTRUCTION PLANS

15.1. Construction Plans

Prior to commencing any Construction Activities or Decommissioning Activities the Tenant must submit to the Landlord the following:

- (a) a copy of the plans in such form as the Landlord may reasonably require which show:
 - (i) the general layout and location of the proposed works; and
 - (ii) a plan of that part of the Premises affected by the Construction Activities (**Construction Area**),

Appendix C Raptor Management Plan (ngh environmental, 2013)



Broken Hill Solar Plant Raptor Management Plan



EXTRACT

JUNE 2013





Project Number: 5164

Project File Name: Raptor Management Final_V1_19_6_13

Revision	Date	Prepared by (name)	Reviewed by (name)	Approved by (name)
Draft V1	3/06/13	Deb Frazer	Brooke Marshall	Brooke Marshall
Draft V1.1	13/06/13	Deb Frazer – minor edits		
Final V1	19/06/13	Deb Frazer – minor edits		

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(08) 9759 1985

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Appendix D Raptor Management Plan approval



Contact: Toby Philp
Phone: 02 9228 6343
Email: toby.philp@planning.nsw.gov.au

Mr Doug Landfear
Manager Power Development (Solar)
AGL Energy Limited
101 Miller Street
North Sydney NSW 2060

Our ref: MP 10_0202

Dear Mr Landfear

Subject: Broken Hill Solar Plant (MP 10_0202) – Condition B18 and B19

I refer to your letter of 14 August 2013, where you provide a Raptor Management Plan (RMP) to the Department as required by condition B18 of the Approval.

The RMP also seeks to reduce the 500m buffer that is required to be maintained in all directions from the raptor nesting site, unless otherwise agreed to by the Director-General, as required by condition B19 of the Approval.

The Department is satisfied that should a permanent buffer of 350m to the nest site be implemented, where no activity would be permitted within during construction or operation, any risk to breeding raptors during the construction of the project would be minimal provided the additional management measures outlined in the RMP are implemented. These include locating parking and amenities in the northern or eastern boundaries of the site away from the raptor nest and increasing the buffer to 400m should any raptor be identified breeding at the nest site.

The Department also notes that the Office of Environment and Heritage has been consulted during the development of the RMP and have not raised any concerns with the reduced buffer distance or proposed management measures.

The Department therefore advises that the proposed buffer distance is considered acceptable.

Please contact Toby Philp on the above contact details should you wish to discuss this matter further.

Yours sincerely

A handwritten signature in black ink, appearing to be 'KJ', written over a horizontal line.

Karen Jones 27/8/13
A/ Director
Infrastructure Projects
as nominee for the Director-General

Appendix E Broken Hill City Council email correspondence regarding First Solar Traffic Management Plan

Cook, Nicole M

From: David Hudson <David.Hudson@FIRSTSOLAR.COM>
Sent: Tuesday, 7 October 2014 2:05 PM
To: Adam Mackett
Cc: Jeff McAuliffe
Subject: AGL SOL - Broken Hill Solar Plant - Project Approval - Pre-construction Compliance Report (First Solar Traffic Management Plan Local Roads)

Hi Adam

Thanks for your call just now. As mentioned, I visited BHCC a couple of weeks ago and specifically mentioned that we did *not* want to use Council roads for our deliveries on any delivery route but particularly the Melbourne route as this was the only route that utilized a city council road (it is used anyway for heavy vehicles but that is beside the point). Both the city planner and engineer provided me with the route options as stated in the email trail below as per letter of explanation from Jeff McAuliffe to Vikram Thangavel. The whole purpose of our request for the meeting with council in the first place was so as not to use the council roads for deliveries and therefore avoid having to prepare a dilapidation report.

Kind regards

David

From: Thangavel, Vikram [mailto:Vikram.Thangavel@brokenhill.nsw.gov.au]
Sent: Friday, September 26, 2014 8:00 AM
To: Jeff McAuliffe
Cc: Turlough Guerin; David Hudson
Subject: RE: FIRST SOLAR Transport Management Plan update - Agency consultation

Hi Jeff

Please note the following changes

Could you also add in point (B) getting approval from Council for oversize/overmass movement within NSW

With the above changes the proposed CEMP is acceptable.

Regards

Vikram Thangavel
Graduate Engineer, Broken Hill City Council
240 Blende Street Broken Hill NSW 2880 Australia
P. (08) 8080 3373
W. www.brokenhill.nsw.gov.au
E. Vikram.Thangavel@brokenhill.nsw.gov.au



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From: Jeff McAuliffe [mailto:Jeff.McAuliffe@FIRSTSOLAR.COM]
Sent: Thursday, 25 September 2014 2:58 PM
To: Thangavel, Vikram
Cc: David Hudson; Turlough Guerin; Jeff McAuliffe
Subject: FIRST SOLAR Transport Management Plan update - Agency consultation

Dear Vikram Thangavel
Graduate Engineer
Broken Hill City Council
240 Blende Street
(PO Box 448)
Broken Hill
NSW 2880

Dear Vikram,

Thank you kindly for your attendance with First Solar's environmental advisor, David Hudson, earlier this day. As discussed, and as part of agency consultation for our Construction Environmental Management Plan (CEMP), we propose to make general deliveries/vehicle movements to our construction site located approximately 5km outside town along the Barrier Highway, route A32, (west towards Adelaide) for various vehicle classification sizes as follows:

- A) For any 'non-oversized' vehicle movements from anywhere within Australia – including the following vehicle categories
1. Light Vehicles: Project vehicles utes etc.;
 2. Crew Buses: Staff transport only to/from Broken Hill City;
 3. Light Service Trucks: The service truck dimensions are 8.8m in length and in 2.5m in width;
 4. Standard Articulated Trucks: The truck dimensions are 19m in length and 2.5m in width. **Please note: no load width will be greater than the truck width, i.e. 2.5m, or of a mass that categorises it as an 'Oversized' / 'Overmass' vehicle.**
- B) For any 'Oversized' vehicle/load vehicle movements from anywhere within New South Wales
First Solar will make a separate contact/application with Roads & Maritime Services (RMS), NSW
- C) For any 'Oversized' vehicle/load deliveries originating from anywhere other than New South Wales, e.g. Adelaide/South Australia and/or Melbourne / Victoria
First Solar will make a separate contact/application with the National Heavy Vehicle Regulator (NHVR). In this event we understand that the NHVR will itself contact the Broken Hill City Council, and any other councils/agencies as appropriate, for these proposed vehicle movements.

It is further noted that Council is currently undertaking city centre roadworks along Iodide Street (north of Blende Street) and, for this roadworks construction period, any approved oversized vehicle movements should be diverted from Melbourne (Route B79 to avoid entering the city centre areas) and travel in the following sequence as advised this day by Messrs. Vikram Thangavel & David Miranda (Broken Hill City Council);

- From the B79 and continue straight through the roundabout and left onto Comstock St
- Then right onto Eyre St. and continue along Holton Drive
- Turn left onto the Menindee Road and head north into the city.
- Turn left onto Crystal St veering left along the South Silver city Road Highway.
- Turn (veer) right onto Gaffney St and then right onto Creedon St

- Upon reaching the Barrier highway (A32), turn left

The Sydney based vehicles should also follow the above sequence after the Menindee Road intersection (with another possibility of turning left on the next intersection at Iodide Street)

We trust that this meets with Council's satisfaction and would be most grateful if Council could give immediate confirmation that this proposal to our CEMP is acceptable. We respectfully look forward to receiving a (brief) written response today if possible (please cc David Hudson and Tur lough Guerin).

With much thanks,

Yours sincerely

Jeff McAuliffe

Project Manager | First Solar (Australia) Pty Ltd.

| M +61 427 254 489 | F +61 2 9241 2129

Level 3, 16 Spring Street, Sydney NSW, 2000 Australia



 Please consider the environment before printing this e-mail.

Appendix F RMS correspondence regarding Barrier Highway intersection works (refer Condition B31)

Hammond, Alastair

From: LUNN Alistair B <Alistair.B.LUNN@rms.nsw.gov.au>
Sent: Tuesday, 21 October 2014 2:28 PM
To: Adam Mackett
Subject: AGL SOL - Broken Hill Solar Plant - Development Consent - Barrier Hwy Intersection Works (Condition B31) - RMS Approval

[Approved as outlined below](#)

Alistair Lunn
Reg Maintenance Delivery Mgr Western
Regional Maintenance Delivery | Asset Maintenance
T 02 6861 1630 M 0427 887 729
www.rms.nsw.gov.au
Every journey matters

Roads and Maritime Services
Level Ground 51 - 55 Currajong St Parkes NSW 2870

From: Adam Mackett [<mailto:AMackett@agl.com.au>]
Sent: Thursday, 25 September 2014 2:31 PM
To: LUNN Alistair B
Subject: AGL SOL - Broken Hill Solar Plant - Development Consent - Barrier Hwy Intersection Works (Condition B31)

Hi Alistair

As recently discussed, AGL is currently finalising the pre-construction compliance report for the Broken Hill Solar Plant in anticipation of the Construction Environmental Management Plans (CEMPs) being approved. Whilst we are currently progressing enabling works at the site, approval of the CEMPs will enable "construction" as defined in the development consent to commence. For example, this will allow the commencement of the following works:

- civilworks in Section 1;
- installation of posts in Section 1; and
- installation of the poles for the 2x22kV transmission line.

We believe that these initial "construction" activities noted above are a reasonable distance from the Barrier Hwy intersection works and would not impact the safe delivery of the intersection works. AGL is intending to engage RMS Broken Hill to complete the intersection works. We note

that the necessary traffic controls would be implemented during the construction of the intersection works, including the temporary reduction in speed limit which would aid the safety at this intersection to both the contractors and public travelling along the Barrier Hwy.

Project Approval condition B31 (attached) notes that the "intersection of the site access road and the Barrier Highway shall be upgrade prior to the commencement of construction to the satisfaction of the RMS ... ". To address this condition in the pre-construction compliance report, I confirm our discussion that the current access is adequate for the commencement of "construction". We will continue to progress the development/construction of this intersection with your team and ensure that all RMS requirements are implemented.

Similarly to Nyngan, we understand that RMS will monitor traffic volumes and would reserve the right to require a higher level of intersection to service the development. Please do not hesitate to contact me on the numbers below if you have any queries.

Kind regards
Adam

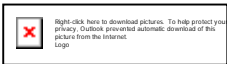
Adam Mackett | Manager Power Development | AGL Energy Limited | L22, 101 Miller Street, North Sydney NSW 2060 | M: 0402-248-327 P: 02-9921-2561 F: 02-9921-2015 | E: amackett@agl.com.au

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Appendix G Environmental Representative approval (refer Condition C1)



Contact: Neville Osborne
Phone: 02 9228 6337
Fax: (02) 9228 6455
Email: neville.osborne@planning.nsw.gov.au

Mr Adam Mackett
Manger Power Development
AGL Energy Limited
Locked Bag 1837
St Leonards NSW 2065

Dear Mr Mackett

Subject: Broken Hill Solar PV Plant – Condition of Approval C1 – Appointment of Environmental Representative (MP 10_0202)

I refer to your email dated 30th May, 2014, which sought the Secretary's approval for the appointment of Mr Michael Woolley of MCW Environmental Consulting Pty Ltd as the Environmental Representative for the Broken Hill Solar Plant project.

The Department has reviewed the information provided in support of Mr Woolley's nomination, as required under Condition C1 of the approval.


This information demonstrates that Mr Woolley has the required skills and experience for the position. It is noted that Mr Woolley is independent of the design and construction personnel and has not been involved in the development of this project, and he will be given the authority and independence to require reasonable steps be taken to avoid or minimise unintended or adverse environmental impacts as required under condition C1(f).

As such, the Secretary approves the appointment of Mr Woolley as the Environmental Representative for the Nyngan Solar Plant, subject to the following:

- In accordance with condition C1(f), Mr Woolley must also be given the authority and independence to direct that relevant actions be ceased immediately should an adverse impact on the environment be likely to occur, in addition to being able to require reasonable steps be taken to avoid or minimise unintended or adverse environmental impacts; and
- In accordance with condition C1(e), Mr Woolley must be given the authority to approve/reject minor amendments to the Construction Environmental Management Plan.

Should you require any additional information on the above, please do not hesitate to contact Neville Osborne on the above details.

Yours sincerely


Karen Jones 13.6.14

Director
Infrastructure Projects
as nominee of the Secretary

Appendix H Department of Planning and Environment approval of CEMPs (refer Condition C2 and C3)



Office of the Secretary

Adam Mackett
Manager Power Development
AGL Energy Limited
Level 22
101 Miller Street
North Sydney NSW 2060

14/16578

Dear Mr Mackett

Subject: Broken Hill Solar Photovoltaic Power Project MP10_0202 – Construction Environmental Management Plan and Staging Report

I refer to the correspondence and documentation submitted to the Department in accordance with the requirements of the approval for the Broken Hill Solar Photovoltaic Power Project.

The Department has reviewed the Construction Environmental Management Plans (CEMPs) submitted in respect of conditions C2 and C3. The CEMPs are considered to satisfy the requirements of conditions C2 and C3 of the approval. Accordingly, I approve the CEMPs.

The Department also acknowledges receipt of the Broken Hill Solar Plant Staging Report (Rev B Final dated 27/06/14), which has been submitted for information in accordance with condition A6 of the approval.

Should you wish to discuss this matter, please contact Nathan Stringer of the Infrastructure Branch at the Department on (02) 9228 6314.

Yours sincerely

Carolyn McNally
Secretary 17.10.14

Appendix I RMS response to First Solar Traffic Management Plan (8 September 2014)



WST11/00034/08

Mr Adam Mackett
Manager Power Development
AGL Energy Ltd
Locked Bag 1837
ST LEONARDS NSW 2065

Dear Mr Mackett

MP10_0202: Part Lot 6806 DP 823918 (Western Lands Lease 1420); Barrier Highway (HW8), Broken Hill; Solar Photovoltaic Power Plant; Transport Management Plan

Thank you for your email on 26 August 2014 seeking an adequacy review of the *Construction Traffic Management Plan – Revision F (TMP)* prepared by First Solar dated 18 August 2014. Reference is also made to a site inspection attended by you and Roads and Maritime Services' staff Joe Sulicich, Anna Cook and Andrew McIntyre on 4 September 2014.

The TMP has been reviewed and Roads and Maritime is satisfied that it identifies the volume and management of traffic accessing the site as required under Condition C3(e) of MP10_0202.

Condition B31 of MP10_0202 requires the intersection of the site access road and the Barrier Highway to be upgraded to the satisfaction of Roads and Maritime prior to the commencement of construction works. Following inspection of the site and review of the TMP, the intersection treatment is required to be upgraded to include the following:

- A Basic Right (BAR) turn treatment as shown in Figure 7.5 of the *Austroads Guide to Road Design: Part 4A* (copy enclosed) in the Barrier Highway at its intersection with the vehicular access servicing the site. The widened shoulder shall be sealed and built for an 110km/h speed environment to provide a reasonable level of safety for vehicles (up to 36.5 metres long) turning right into the access and to allow following vehicles (up to 36.5 metres long) an area to pass the right turning vehicle on the left hand side.
- A Rural Auxiliary Left Turn Treatment – Short Turn Lane [AUL(S)] is to be provided in the Barrier Highway generally in accordance with Figure 8.3 of *Austroads Guide to Road Design 2010 – Part 4A* (copy enclosed) and Roads and Maritime Supplements.

Note: Roads and Maritime is willing to consider a shorter left turn treatment than required under Figure 8.3 of Austroads Guide to Road Design 2010 – Part 4A to negate the widening of the culvert and associated infrastructure east of the site access intersection with the Barrier Highway.

- The width of the access road at the approach and connection to the Barrier Highway shall be wide enough to accommodate the simultaneous passing of turning road train vehicles. The access road shall be sealed a minimum of 40 metres from the edge of hold line.

The Barrier Highway is a state road and the developer will be required to undertake private financing and construction of works on a road in which Roads and Maritime has a statutory interest. A formal agreement in the form of a Works Authorisation Deed (WAD) is required between the developer and Roads and Maritime prior to works commencing. A WAD Information Pack has been sent to you and it is understood that you are in the process of entering into a WAD with Roads and Maritime to progress these works. Please also note that a Road Occupancy Licence may be required before any works commence within 3 metres of the travel lanes in the Barrier Highway. To determine if a licence is required please contact the Traffic Operations Manager on (02) 6861 1686.

I trust this information is of assistance. Should you require further information please contact Andrew McIntyre on (02) 6861 1453.

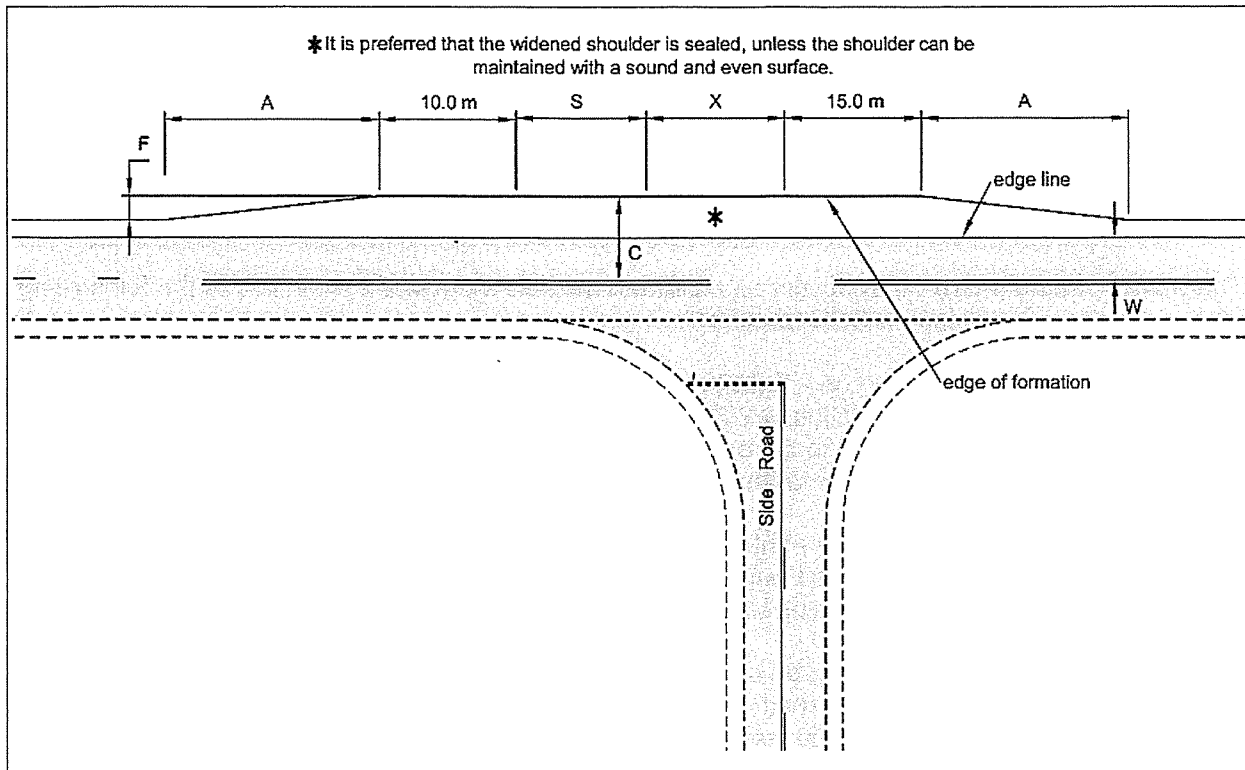
Yours faithfully



Susie Mackay
Network & Safety Manager
Western

08/09/14

cc Department of Planning and Environment
GPO Box 39
SYDNEY NSW 2001



Notes:

1. This treatment applies to the right turn from a major road to a minor road.

2. The dimensions of the treatment are defined thus:

W = Nominal through lane width (m) (including widening for curves). Width to be continuous through the intersection.

C = On straights – 6.5 m minimum

7.0 m minimum for Type 1 & Type 2 road trains

On curves – widths as above + curve widening (based on widening for the design turning vehicle plus widening for the design through vehicle).

$$A = \frac{0.5VF}{3.6}$$

Increase length A on tighter curves (e.g. those with a side friction demand greater than the maximum desirable). Where the design through vehicle is larger than or equal to a 19 m semi-trailer the minimum speed used to calculate A is 80 km/h.

V = Design speed of major road approach (km/h).

F = Formation/carrageway widening (m).

S = Storage length to cater for one design turning vehicle (m) (minimum length 12.5 m).

X = Distance based on design vehicle turning path, typically 10–15 m.

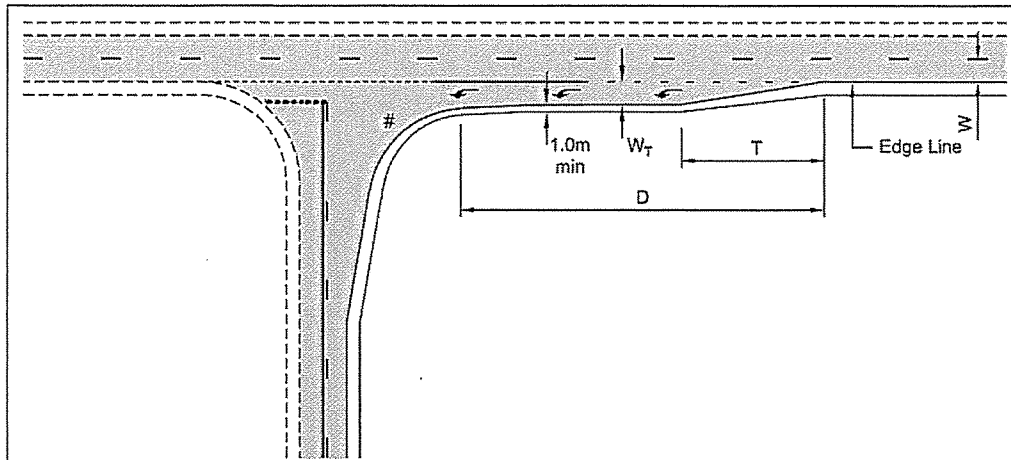
Source: QDMR (2006).

Figure 7.5: Basic right (BAR) turn treatment on a two-lane rural road

8.2.2 Rural Auxiliary Left-turn Treatment – Short Turn Lane [AUL(S)] on the Major Road

An AUL(S) turn treatment is shown in Figure 8.3. This treatment is suitable where there are low to moderate through and turning volumes (Section 4.8). For higher volume sites, a full-length AUL turn treatment is preferred. The required length of treatment is shown in Table 8.2.

The AUL(S) layout should not be used where there is reduced visibility to the turn treatment. Left-turning drivers on the major road need to perceive the location of the deceleration lane and the side road in time to make the necessary speed reduction in the through lane prior to diverging.



Notes:

1. # for setting out details of the left-turn geometry, use vehicle turning path templates and/or Table 8.2.
2. Approaches to left-turn slip lanes can create hazardous situations between cyclists and left-turning motor vehicles. Treatments to reduce the number of potential conflicts at left-turn slip lanes are given in this guide.
3. The dimensions of the treatment are defined as follows. Values of D and T are provided in Table 8.2.
 - W = Nominal through lane width (m) (including widening for curves). For a new intersection on an existing road, the width is to be in accordance with the current link strategy.
 - WT = Nominal width of the turn lane (m), including widening for curves based on the design turning vehicle = 3.0 m minimum.
 - T = Physical taper length (m) given by:

$$T = \frac{0.5VF}{3.6}$$

V Design speed of major road approach (km/h).

Source: QDMR (2006).

Figure 8.3: Rural AUL(S) treatment with a short left-turn lane

Appendix J RMS adequacy review of CPP Traffic Management Plan (14 October 2014)



WST11/00034/09

Mr Adam Mackett
Manager Power Development
AGL Energy Ltd
Locked Bag 1837
ST LEONARDS NSW 2065

Dear Mr Mackett

MP10_0202: Part Lot 6806 DP 823918 (Western Lands Lease 1420); Barrier Highway, Broken Hill; Solar Photovoltaic Power Plant; Transport Management Plan


Thank you for your email on 22 September 2014 referring a Traffic Management Plan (TMP) for transmission line connection works at the proposed Broken Hill Solar Plant to Roads and Maritime Services. Reference is made to Roads and Maritime's letter dated 8 September 2014 (copy attached) provided in response to the *Construction TMP – Revision F* which addresses traffic impacts associated with the construction of the solar plant.

Condition B31 of MP10_0202 requires the intersection of the site access road and the Barrier Highway to be upgraded to the satisfaction of Roads and Maritime prior to the commencement of construction works. Roads and Maritime has reviewed the TMP and is generally satisfied that it identifies the volume and management of traffic accessing the site as required under Condition C3(e) of MP10_0202.

Roads and Maritime will not object to the commencement of transmission line connection works subject to, and prior to such commencement, the works specified in Roads and Maritime's letter dated 8 September 2014 being completed.

I trust this information is of assistance. Should you require further information please contact Andrew McIntyre on (02) 6861 1453.

Yours faithfully


Susie Mackay
Network & Safety Manager
Western

14/10/14

cc Department of Planning and Environment
GPO Box 39
SYDNEY NSW 2001

Appendix K Biodiversity Offset Management Plan approval



Contact: Toby Philp
Phone: 02 9228 6343
Email: toby.philp@planning.nsw.gov.au

Mr Doug Landfear
Manager Power Development (Solar)
AGL Energy Limited
101 Miller Street
North Sydney NSW 2060

Our ref: MP 10_0202

Dear Mr Landfear

Subject: Broken Hill Solar Plant (MP 10_0202) – Condition C5

I refer to your letter of 14 August 2013, where you provide a Biodiversity Offset Management Plan (BOMP) for Approval as required under Condition C5.

The Department notes that the Office of Environment and Heritage (OEH) has been consulted during the development of the BOMP and has not raised any concerns with the site or proposed management of the offset.

The Department also notes your commitment to secure the Biodiversity Offset for the project, in conjunction with the lessee, by applying for a change of lease through the Crown Lands Division of the Department of Trade and Investment. This will appropriately record the offset on title, and within the lease conditions, as a conservation area.

In noting the support of OEH, the Department has reviewed the BOMP and considers it meets the requirements of Condition C5. The Director-General's approval is therefore granted pursuant to condition C5.

Please contact Toby Philp on the above contact details should you wish to discuss this matter further.

Yours sincerely

Karen Jones 27/8/13
A/ Director
Infrastructure Projects
as nominee for the Director-General

Appendix L Community Consultation Plan Broken Hill and Nyngan Solar Plants (AGL, 2013)



Community Consultation Plan
Broken Hill and Nyngan Solar Plants

AGL Energy Limited





Document Version	1.2
Release State	Internal
Document Classification	Final
Author	Frances Duffy
Approved by	Doug Landfear
Date of approval	05 July 2013

Last updated: 09/07/2013

EXTRACT



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Appendix M Broken Hill Solar Plant Community Consultative Committee Inaugural Meeting – Newspaper Advert

Broken Hill Solar Plant Community Consultative Committee Inaugural Meeting.

As part of the community engagement process for the Broken Hill Solar Plant, AGL Energy Limited (AGL) would like to announce that the Broken Hill Community Consultative Committee (CCC) has been established.

The aim of the Broken Hill CCC is to help strengthen the community engagement process so that community issues can be addressed appropriately.

The Broken Hill CCC is a voluntary committee which includes various stakeholder and community representatives who have demonstrated an interest or connection to the project. The NCCC will meet bi-monthly to discuss various topics of interest to the community as well as keeping the community informed about the project and potential impacts.

It will also provide an opportunity for the local community to work with the AGL project team to find solutions.

The Inaugural Broken Hill CCC will be held on:

Date: Thursday, 1 May 2014

Time: 6pm – 8pm

Venue: Broken Hill Centre for Community
(200 Beryl St, Broken Hill).

Interested community members are welcome to come and observe the meeting.

For further information about the Broken Hill Solar Plant project please call the Community Engagement Team on 1800 039 600 or email brokenhillsolar@agl.com.au



Energy in
action®



Mafioso cowboy

A Boston mobster who spent years hiding in Idaho as a cattle rancher has been sentenced to 28 years' prison. Enrico Ponzio disappeared in 1994 after being convicted of the attempted murder of "Cadillac Frank" Salemme.

BRIEFS

London Wharf 'Al-Qaeda target'

Al-Qaeda considered attacking London's Canary Wharf just weeks after 9/11, says a British terror convict hugged by Osama bin Laden and dispatched to blow up a US jetliner. Al-Qaeda recruit Saajid Badat, 35, made the revelation while testifying against British hate preacher Abu Hamza, on trial in New York on multiple terror charges. Badat said al-Qaeda had an almanac of the world's tallest buildings. Khalid Sheikh Mohammed, the self-declared 9/11 mastermind, crossed out the two World Trade Centre towers as he leafed through the book looking for fresh targets in late 2001, he said. Badat told the US federal court that Mohammed also asked about a target in Britain.

"I believe Canary Wharf was mentioned," Badat said, referring to the business district with a high concentration of tall buildings in east London.-AFP

Pro-Russian mayor shot in Ukraine

A pro-Russian mayor in eastern Ukraine is in a critical condition after being shot while riding his bicycle. Gennady Kernes was "hit by a bullet in the back" during an attack by an unidentified gunman, a Kharkiv town hall official said. The incident is the latest in a string of violent attacks in eastern Ukraine where rebels favouring closer ties with Moscow have clashed with authorities or those supporting Western-backed leaders in Kiev. The mayor is a colourful character, who has a criminal record for theft and fraud and is not known for tolerating dissent. He is under investigation on accusations of kidnapping and torture but has clung onto his post in Kharkiv, an industrial hub of 1.4 million people not far from the border with Russia. -AFP

Three generations killed in fire

Five people spanning three generations of one family, including a nine-week-old girl and two other children, have been killed in a house fire in Britain. Shabbina Begum, 54, and her 20-year-old daughter Anum Parwaiz Kayani, were named as the two adults killed in the blaze in Sheffield, northern England.

"It's a tragedy beyond description," said Begum's cousin Ishfaq Hussain Kayani.

He said the infant girl was among those who had died, as well as nine-year-old Adhyan Parwaiz Kayani and seven-year-old Amaan Parwaiz Kayani. He said Shabbina Begum, the children's grandmother, got out of the house but went back to try to rescue them. -AFP



A large tornado jumped Mississippi Highway 25 south of Louisville, Mississippi, USA, on April 28, causing this damage before hitting the city of Louisville damaging the hospital, a Georgia Pacific plant and area neighborhoods. Severe tornado producing storms have been moving across the Central and Southern United States leaving multiple deaths and destruction in their wake. PICTURE: EPA/CHRIS TODD

Egypt condemned over death sentences

By Sarah Benhaida

The United Nations and Washington have condemned death sentences handed to 683 alleged Islamists including Muslim Brotherhood leader Mohamed Badie in an Egyptian court.

The court in the southern province of Minya sparked an international outcry with its initial sentencing last month, amid an extensive crackdown on supporters of ousted Islamist president Mohamed Morsi.

The United States urged Egypt to reverse Monday's court decision.

"Today's verdict, like the one last month, defies even the most basic standards of international justice," the White House said.

"This verdict cannot be reconciled with Egypt's obligations under international human rights law."

UN Secretary General Ban Ki-moon was "alarmed" by the death sentences and feared it could impact the entire region, his spokesman said.

"Verdicts that clearly appear not to meet basic fair trial standards, particularly those which impose the death penalty, are likely to undermine prospects for long-term stability," Ban said according to a spokesman.

But Egyptian Foreign Minister Nabil Fahmy on Monday suggested the Minya court ruling could yet be overturned, saying "don't jump to conclusions that the case is determined one way or the other, before it is... let the legal process follow through."

A statement issued later by the Egyptian embassy in Washington "in response to critical US statements" insisted that the country's judiciary was independent, and that procedures were underway to appeal.

The Minya court, presided over by judge Said Youssef Sabry, is set to confirm the

death sentences on June 21. However, it also reversed 492 of 529 previous death sentences it passed in March, commuting most of them to life imprisonment.

In Cairo, another court banned the April 6 youth movement that spearheaded the 2011 revolt which toppled strongman Hosni Mubarak, following accusations it defamed Egypt and colluded with foreign parties.

Ban also expressed concern at that decision and the jailing of three "emblematic figures" of the 2011 uprising including two founders of the youth movement.

Those sentenced at Minya on Monday were accused of involvement in the murder and attempted murder of policemen in Minya province on August 14, the day police killed hundreds of Morsi supporters during clashes in Cairo.

Of the 683 sentenced, only 73 are in custody, prosecutor Abdel Rahim Abdel Malek said. The others have a right to a retrial if they turn themselves in. -AFP

Broken Hill Solar Plant Community Consultative Committee Inaugural Meeting.

As part of the community engagement process for the Broken Hill Solar Plant, AGL Energy Limited (AGL) would like to announce that the inaugural Broken Hill Community Consultative Committee (CCC) will be held on Thursday, 1 May 2014.

The aim of the Broken Hill CCC is to help strengthen the community engagement process so that community issues can be addressed appropriately.

The Broken Hill CCC is a voluntary committee which includes various stakeholder and community representatives who have demonstrated an interest or connection to the project. The NCCC will meet bi-monthly to discuss various topics of interest to the community as well as keeping the community informed about the project and potential impacts.

It will also provide an opportunity for the local community to work with the AGL project team to find solutions.

The inaugural Broken Hill CCC will be held on:

Date: Thursday, 1 May 2014

Time: 6pm - 8pm

Venue: Broken Hill Centre for Community (200 Beryl St, Broken Hill).

We are still seeking nominations from interested community members to take part in the CCC. Interested community members are also welcome to come and observe the meeting.

For further information about the Broken Hill Solar Plant project please call the Community Engagement Team on 1800 039 600 or email brokenhillsolar@agl.com.au



Appendix N Aboriginal Heritage Management Plan (OzArk Environmental & Heritage Management, 2013)



Landscape of the proposed Broken Hill Solar Plant



Environmental and
Heritage Management P/L

Aboriginal Heritage Management Plan

Broken Hill Solar Plant

Broken Hill Local Government Area

EXTRACT

Report Prepared by
OzArk Environmental & Heritage Management Pty Ltd
for
AGL Energy Limited

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Document Controls

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Jillian Adams	Dr Jodie Benton		
Location	OzArk Job No.		
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FINAL once latest version of draft approved by client	V3.0 sent to AGL and RAP's 3 October 2013		
Prepared For	Prepared By		
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Appendix O Aboriginal Cultural Heritage Management Plan documentation of actions (December, 2013)



17th December, 2013

*Documentation of actions in relation to the Aboriginal Cultural Heritage Management Plan,
for AGL Energy Limited (AGL), Broken Hill Solar Plant.*

Introduction

An Aboriginal Cultural Heritage Management Plan (ACHMP) was prepared by OzArk on behalf of AGL Energy Limited (AGL) to manage recorded Aboriginal heritage sites over the construction area for the proposed Broken Hill Solar Plant. The ACHMP was developed in consultation with registered Aboriginal stakeholders and was reviewed by the NSW Office of Environment and Heritage (OEH) on the 31st July, 2013. The ACHMP describes the responsibilities and actions required to manage impacts to the identified heritage sites listed in **Table 1**.

Table 1: Summary of recorded Aboriginal site data.

AHIMS Site ID	Site Number	Feature	Raw Material	Easting (GDA Zone 54)	Northing (GDA Zone 54)	Basic artefact information	Location Data
#23-4-0616	BHS-1	Isolated artefact	Silcrete	536478	6460952	Distal end of a broken silcrete flake that is retouched on the ventral surface	BHS-1 is located approximately 85m southeast of the transmission line easement, at a bearing of 134°. The site is situated on an area of exposed alluvium less than 15m from a narrow ephemeral channel/gully
#23-4-0617	BHS-2	Isolated artefact	Silcrete	536536	6460959	A small, moderately coarse-grained silcrete, multi-platform core.	BHS-2 lies approximately 60m east of BHS-1 at a bearing of 84°. The site is situated on an exposed alluvial fan/claypan area within a sparse open chenopod shrubland
#23-4-0618	BHS-3	Isolated artefact	Quartz	536563	6460950	A single small translucent quartz flake.	BHS-3 lies approximately 30m east of BHS-2 at a bearing of about 113°. The isolated artefact is situated on an exposed alluvial fan/claypan area

Appendix P Email correspondence regarding Pre-Construction Road Report and Road Dilapidation Report



Construction Environmental Management Plan

Appendix C – Reference Documents

Broken Hill Solar Plant Grid Connection

Revision 3.0

Council has also confirmed in writing that there is no requirement from them, as the relevant road authority, for CPP to undertake either a Pre-Construction Road Report or a Road Dilapidation Report (refer below)

Andrew Brownlow

From: Miranda David [David.Miranda@brokenhill.nsw.gov.au]
Sent: Monday, 12 May 2014 8:33 AM
To: 'Andrew Brownlow'
Subject: RE: 214099 - Traffic Question

Not in this instance, no I don't. If however you require an overweight, over length or over height movement along the local roads then notification to us is required through the NHVR if it is from Interstate and direct to us if the movement is within NSW only.

David Miranda
Assets Planner-Roads/Footpaths, Broken Hill City Council
240 Blende Street Broken Hill NSW 2880 Australia
P. (08) 8080 3368
M. 0407 278 927
W. www.brokenhill.nsw.gov.au
E. David.Miranda@brokenhill.nsw.gov.au



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From: Andrew Brownlow [mailto:abrownlow@geolyse.com]
Sent: Friday, 9 May 2014 3:55 PM
To: Miranda David
Subject: RE: 214099 - Traffic Question

David

Just to confirm, you don't consider the referenced reports below are necessary?

Andrew

Andrew Brownlow
Manager - Environmental / Director (CEnvP)
Geolyse Pty Ltd
154 Peisley St
PO Box 1963
Orange NSW 2800
Ph: 02 6393 5000
Fx: 02 6393 5050
Mob: 0417 210 253
Email: abrownlow@geolyse.com
Web: www.geolyse.com

.....
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From: Miranda David [<mailto:David.Miranda@brokenhill.nsw.gov.au>]
Sent: Friday, 9 May 2014 4:18 PM
To: 'abrownlow@geolyse.com'
Subject: FW: 214099 - Traffic Question

G'day Andrew,

Thanks for the map. It doesn't indicate any impacts on council roads other than what you addressed in your e-mail. I don't consider the vehicle movements and numbers for the project to be substantial and believe the impacts and implications on local roads to be negligible. This is an industrial area and the road reserves are designed to handle well over the vehicle types and numbers you have indicated in your correspondence. Our Sustainability department have no issues with the works within the local government boundaries so it seems all is in order. In this case I don't consider a **Pre-Construction Road Report** and a **Road Dilapidation Report**. Please don't hesitate to contact me in the future if necessary.

David Miranda
Assets Planner-Roads/Footpaths, Broken Hill City Council
240 Blende Street Broken Hill NSW 2880 Australia
P. (08) 8080 3368
M. 0407 278 927
W. www.brokenhill.nsw.gov.au
E. David.Miranda@brokenhill.nsw.gov.au



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From: Miranda David
Sent: Thursday, 8 May 2014 8:12 AM
To: Gillespie, Patrick
Subject: FW: 214099 - Traffic Question

[Pat, for your comments please.](#)

David Miranda
Assets Planner-Roads/Footpaths, Broken Hill City Council

240 Blende Street Broken Hill NSW 2880 Australia
P. (08) 8080 3368
M. 0407 278 927
W. www.brokenhill.nsw.gov.au
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From: Tech Services Internet Mail
Sent: Wednesday, 7 May 2014 11:08 AM
To: Miranda David
Subject: FW: 214099 - Traffic Question

[Dave for your response – this has been Trimmed ☺](#)

[Cheers](#)

[Sonja](#)

Sonja Stubing
PPT Admin Assistant Infrastructure, Broken Hill City Council
240 Blende Street Broken Hill NSW 2880 Australia
P. (08) 8080 3372
W. www.brokenhill.nsw.gov.au
E. Sonja.Stubing@brokenhill.nsw.gov.au



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Broken Hill City Council does not warrant this message to be free of errors, interference or viruses.

From: Andrew Brownlow [<mailto:abrownlow@geolyse.com>]
Sent: Wednesday, 7 May 2014 7:27 AM
To: Tech Services Internet Mail
Cc: 'Orange Document Control'; 'Grant Johnstone'
Subject: 214099 - Traffic Question

Mr David Miranda

Asset Manager Roads and Footpaths

Broken Hill City Council

Dear David

Consolidated Power Projects (CPP) is the contractor undertaking the grid connection works for AGL's Broken Hill Solar Plant. Part of CPP's works entail connection of a new overhead transmission line to the TransGrid substation located off Pinnacles Road. A consent condition imposed by the Minister in the broader project approval required consultation with the relevant road authority with respect to the need for a *Pre-Construction Road Report* and a *Road Dilapidation Report*.

As it relates to the traffic that will be generated on local public roads as a result of these grid connection works to the TransGrid substation, we would like to ascertain whether Broken Hill Council, as the relevant road authority, would agree that these Reports are not required given the very modest volume and nature of the traffic that this activity will generate. To this end, we provide the following information for your consideration.

The grid connection works extend some 2.7 km. Approximately 90% of this work effort will be accessed from within the solar plant site off the Barrier Highway, the existing unclassified access road to the site (which is to be upgraded as part of the development), then utilise a number of private, unnamed, unsealed roads that currently traverse the site and Common.

The residual 10% of traffic associated with the grid connection works (ie. at the TransGrid Substation end) will, however, need to utilise local public roads. These would include, but may not be limited to, Kanandah Road and Pinnacles Road. We understand Broken Hill Council is the relevant roads authority for these local public roads.

The traffic volumes generated on these local public roads are, however, extremely modest. Conservatively, CPP estimate that for the transmission works requiring access from the TransGrid substation end of the works, heavy vehicle movements would be restricted to just seven (7) trucks. Specifically:

- two (2) standard articulated trucks [19m length & 2.5m width] delivering the power poles;
- one (1) standard truck [12.5m length & 2.5m width] mounted auger
- two (2) concrete agitator trucks
- one (1) standard truck delivering the conductor
- one (1) standard truck delivery an Elevated Work Platform (EWP)

Construction at this end of the works would also generate up to 20 light vehicles (utilities).

In light of these very modest vehicle numbers, and because no over-mass or oversize heavy vehicle movements are proposed, CPP consider that a *Pre-Construction Road Report* and a *Road Dilapidation Report* may not be warranted.

For this very modest traffic volume, and type, it is hoped that Council may concur that upgrades to these local public roads would not be required and that an assessment of the current condition of these local public roads is not needed. The Minister's consent provides the flexibility to not have to prepare these reports, subject to consultation with the relevant road authority.

If there is any additional information that we can provide that will assist in your consideration of the above please do not hesitate to ask.

Regards

Andrew Brownlow
Manager - Environmental / Director (CEnvP)
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Appendix Q Geolyse review of Soil and Water Management Plan

Our Ref: 214078_LEO_001A.docx

13 September 2014

Project Engineer – EPC (Australia)
First Solar
Level 3, 16 Spring Street
SYDNEY NSW 2000

Attention: Mr Peter Green

Dear Sir

BROKEN HILL SOLAR PARK – REVIEW OF SOIL AND WATER MANAGEMENT PLAN

We refer to the above development and correspondence received from First Solar (FS) on 11 September 2014 requesting a review of FS documentation and plans for soil and water management during construction of the solar park. Specifically, FS wanted this review to confirm if the documentation met the requirements of the relevant guideline being *Managing Urban Stormwater: Soils and Construction Volume 1* 4th Edition (Landcom, 2004) (the 'Blue Book').

We have reviewed the information and provide below comments relating to the site and proposed soil and water management measures.

This review has been prepared by Mr Martin Haege who has the following qualifications and training:

- Master of Environmental Engineering Science, University of New South Wales (1997);
- Bachelor of Natural Resources, University of New England (1989);
- Bachelor of Engineering (Civil) (Hons), University of Newcastle (1989); and
- Short course in Soil and Water Management for Urban Development (1994).

Site Characteristics

In terms of soil and water management, various site characteristics can be used to define the level of risk related to the erosive potential. This approach is outlined in Section 4.4.1 of the Blue Book as noted on Drawing C800.

Table 1 summarises the site characteristics which have been drawn from the various background documents provided.



Table 1 – Site characteristics

Characteristic	Value
2 year ARI, 6 hour rainfall intensity	I = 5.06 mm/hr
Rainfall erosivity	R = 822
Rainfall zone	Zone 11
Slopes	Average 1% Maximum ~3%
Soils	Topsoil: silty/sandy clay Subsoil: sandy/gravelly clay
Soil erodibility	Typical K = 0.04 Conservative high K = 0.08
Calculated soil loss	Average: 12 tonnes/ha/year Maximum: 104 tonnes/ha/year
Soil loss class	Average: Class 1 Maximum: Class 1
Soil texture group	Type F (maybe some Type D)
Soil hydrologic group	Group B – low to moderate runoff potential
Volumetric runoff coefficient	0.1
80 th percentile 5-day rainfall (Broken Hill)	12.2 mm

The soil loss is calculated using the revised Universal Soil Loss Equation (RUSLE) with the following factors:

R	=	822
K	=	0.04 to 0.08
LS	=	0.27 (maximum 300m slope length with 1% slope)
	=	1.22 (maximum 300m slope length with 3% slope)
P	=	1.3 (soils hard and compact)
C	=	1.0 (bare soil)

The site is Soil Loss Class 1 (<150 tonnes/ha/year) even when conservative assumptions are used to define the soil erodibility combined with maximum slopes and slope lengths. The site is therefore classified as having a very low erosion hazard (refer *Managing Urban Stormwater Soils and Construction* (Landcom, 2004) Table 4.2, page 4-13).

Given that the site is Soil Loss Class 1, there are no constraints on the timing of construction activities (refer *Managing Urban Stormwater Soils and Construction* (Landcom, 2004) Table 4.3, page 4-15).



Soil and Water Management Plan

The Soil and Water Management Plan (SWMP) for the construction phase of the Broken Hill solar park is shown on Drawing C800 with standard drawings for control measures provided on C811. Notes are provided on Drawing C000 (notes 5, 6, 7 and 30) and on Drawing C800.

The strategy depicted on Drawing C800 is to limit the work area and provide silt fence generally around the perimeter of the site, particularly in drainage lines. It is noted on Drawing C800 that no grading will occur within the majority of the work area. This means that land disturbance will be restricted to specific areas. Specific attention should be given to installing sediment control measures as close as practicable to the areas of disturbance within the overall work areas.

While the SWMP depicted on Drawing C800 does not show all measures, the general measures proposed meet the principles of the Blue Book and are appropriate for the site given the very low erosion hazard. These general measures will need to be applied by the site supervisor as required.

In general, the principles adopted in the implementation of the Soil and Water Management Plan should be:

- minimisation of disturbed areas – work areas clearly delineated with flagging, barriers, silt fence, signs etc;
- diversion of clean water from undisturbed areas around or away from disturbed areas;
- controlling water movement through the site;
- the use of temporary erosion control measures as required;
- directing stormwater runoff from disturbed areas to sediment trapping devices;
- adequate maintenance of control structures; and
- rehabilitation of disturbed areas.

Evidence of installed measures provided by Mr Kieran Scott on 12 September 2014, indicate that these general principles are being adopted.

All subcontractors should be informed of their responsibilities in reducing the potential for soil erosion and pollution to downslope areas through the adoption of the above general principles.

Silt fence (or similar) should be installed on the downslope side of disturbed areas. Where used the silt fence should be installed in accordance with Standard Drawing SD6-6 (Drawing C811) taking particular note of the following:

- The area downslope of the silt fence should be undisturbed as far as practicable;
- The toe of the silt fence should be buried in accordance with SD6-8 to prevent short-circuiting. Some brands of silt fence have a band marking the installation depth;
- In accordance with Note 1 on SD6-8, the silt fence should be installed along the contour as far as practicable. It is noted that in some areas around the perimeter of the site, the silt fence will run



down the contour. This may channel overland flow. Short return sections should be installed at regular spacing to prevent this.

It is also noted that the site includes long drainage channels to safely control water movement through the site. These channels will be excavated into natural materials and lined with rip-rap. Once excavated, and before the final rip-rap lining is installed, temporary controls should be installed at regular intervals along the channels (say at about 50m spacing) to control water movement and trap sediment. Typical measures could include silt fence, pegged straw bales, rock check dams or silt socks.

Rock check dams should be installed at the discharge point of each channel until such time that adequate energy dissipation measures are installed.

Summary

Assessment of the Broken Hill solar park site characteristics in accordance with the Blue Book indicates that the site has a very low erosion hazard.

The general measures proposed in the site SWMP meet the principles of the Blue Book and are appropriate for the site given the very low erosion hazard. All subcontractors should be informed of their responsibilities in reducing the potential for soil erosion and pollution to downslope areas through the adoption of the above general principles outlined in this review.

Please do not hesitate to contact the writer if you require further assistance.

Yours faithfully
Geolyse Pty Ltd



MARTIN HAEGE
Principal Environmental Engineer / Director



Appendix R Email correspondence regarding landowner notification

Broken Hill Solar Plant
L22, 101 Miller Street
North Sydney
NSW 2060 Australia



General Correspondence - AGL-GCOR-000171

Enabling Works (Stage 0) - CPP Pre-Construction Report (Rev A) - ER Review (AGM Confirmation)

From: Mr Adam Mackett - AGL Energy
To: Mr Michael Woolley - MCW Environmental
Cc: Mr Adam Mackett - AGL Energy
Mr Charles Barrett - Sinclair Knight Merz Pty Ltd
Sent: Saturday, 28 June 2014

Message

Hi Michael

Thank you for our endorsement to commence CPP site mobilisation - setting up the laydown area.

We have previously notified the community that construction of the Broken Hill Solar Plant would start in mid-July 2014 with enabling works planned ahead of this date - refer to attached advertisement. We also discussed the enabling works with the community and neighbours during the community consultative committee meeting held on 1 May 2014 - <http://www.agl.com.au/about-agl/how-we-source-energy/renewable-energy/broken-hill-solar-plant/community-matters>.

Additionally, I have just spoken with Geoff's neighbours to confirm that CPP are planning to start on Monday:

- Sterling Vale (Alistair): 0427-410-234
- Paul Williams: 0402-268-586
- Greg Wilkins: 0418-600-308

Regards
Adam

Adam Mackett | Manager Power Development | AGL Energy Limited | L22, 101 Miller Street, North Sydney NSW 2060 |
M: 0402-248-327 P: 02-9921-2561 F: 02-9921-2015 | E: amackett@agl.com.au

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From: M Woolley
Sent: 28/06/2014 10:10:12 AM EST (GMT +10:00)
To: Adam Mackett
Cc: Charles Barrett
Mail Number: MCW Env-ADVICE-000022
Subject: Re: Enabling Works (Stage 0) - CPP Pre-Construction Report (Rev A) - For MCW Review

Hi Adam

I have reviewed the CPP Enabling Works document enclosed. I have also spoken to Grant Johnstone of CPP and Andrew Brownlow of Geolyse.

I have some comments on the enabling works document with respect to clarifying controls that are to be implemented during enabling works and clarification of the scope of the document.

Following discussing the works program with Grant, it appears that next weeks works will be focused on setting up the laydown area. I endorse this section of the enabling works i.e. the setting up of the laydown area (detailed in Section 2.1.1 of the document) as being outside the definition of construction of the Project Planning Approval and therefore able to proceed prior to approval of the CEMP. This endorsement is subject to the appropriate notifications to community and local residents having occurred prior to the works commencing.

I will provide further comment on other aspects of the Enabling Works document in the next few days. I also plan to visit the site later in the week and meet representatives from CPP and First Solar.

Please feel free to contact me to discuss this endorsement.

Best Regards

Michael Woolley

[MCW Environmental](#)

From: A Mackett
Sent: 25/06/2014 8:59:11 PM EST (GMT +10:00)
To: Michael Woolley
Cc: Charles Barrett
Mail Number: AGLE-GCOR-000168
Subject: Enabling Works (Stage 0) - CPP Pre-Construction Report (Rev A) - For MCW Review

Hi Michael

Further to our recent discussion, please find attached a copy of CPP's Enabling Works pre-construction report for the Broken Hill Solar Plant, issued for your review and approval. We are currently reviewing other documentation from CPP which are pre-requisites for them mobilising to site. CPP is planning (subject to approval) on mobilising to site next Monday, 30 June 2014 - their initial works would be site establishment related. Understanding that you will only be receiving this document for the first time is there any further information (subset of their report) which could help to facilitate their mobilisation.

Please prioritise your review of this enabling works pre-construction report over their CEMP which I will shortly issue. Let me know if you have any queries.

Regards
Adam

Adam Mackett | Manager Power Development | AGL Energy Limited | L22, 101 Miller Street, North Sydney NSW 2060 |
M: 0402-248-327 P: 02-9921-2561 F: 02-9921-2015 | E: amackett@agl.com.au

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