

# Moree Solar Farm – Compliance Monitoring Program

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**Document Title:**

Moree Solar Farm - Compliance  
Monitoring Program

**Revision:**

FINAL

**Revision Date:**

22/12/2014

**Last Updated By:**

T. Best

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## 1. Introduction

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Moree Solar Farm (MSF) is a 56MWAC solar farm being constructed in Northern NSW, near the town of Moree. Approval was granted for the project by the NSW Government, Minister for Planning and Infrastructure (the Department) in November 2011 and a modification to the approval granted in February 2014.

Condition C12 of the project approval requires the proponent to establish a Compliance Tracking Program to track compliance of the project with the conditions of approval – MP 10-0175. Condition C12 is replicated below.

**C12** - *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 plan sets out the compliance monitoring activities proposed by the proponent to satisfy the above conditions.

## 2. Compliance Monitoring

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To ensure ongoing compliance with the Project Approval conditions, MSF will develop a compliance tracking table. The tracking spreadsheet will clearly indicate the compliance status of each Condition and will provide links to supporting documentation.

Throughout the life of the project the tracing spreadsheet will be reviewed and updated on a monthly basis by MSF. A copy of the CEMP compliance tracking table has been included in Appendix A

### 3. Periodic Reporting – C12 (a)

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Moree Solar Farm will compile and submit to the Director-General a Compliance Report, clearly indicating the status of each approval condition and the projects compliance with those conditions.

Compliance reports will, as a minimum, be delivered to the Director-General at the following stages of the project:

1. Prior to the commencement of construction
2. Prior to the commencement of operation
3. Within two years operation commencement

### 4. Independent Environmental Auditing – C12 (b) and (c)

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Independent environmental auditing will be undertaken in accordance with AS/NZ ISO 19011:2003 - Guidelines for Quality and/or Environmental Management Systems Auditing by an independent auditor engaged by the construction contractor, Green Light. These audits will be coordinated with the Environmental Representative (ER) and scheduled to coincide with 'higher risk' construction activities. The scope of the audits (as intended in the CEMP) is restricted to compliance with the CEMP, and the results will be used by MSF to ensure compliance against the conditions of approval.

We envisage one audit being completed during the earthworks stage of the project and one during the panel installation, however the timing of these audits will be finalised once mobilization occurs and prior to major construction activities commence..

In addition to the independent audits the Quality and Environment Manager will conduct monthly compliance audits against all requirements of the CEMP. The aim of these audits will extend beyond verification of compliance with CEMP requirements and identify opportunities for improvements.

The monthly compliance audits shall include, but not be limited to:

- Determination as to whether the controls, procedures and documentation associated with the CEMP has been effectively implemented and maintained;
- Checking to confirm that all actions listed are being completed and signed off;
- Ensuring that reporting requirements, incident investigations and incident close outs are occurring in accordance with the CEMP; and
- Checking that there are no outstanding follow-up actions that have yet to be closed off.

These monthly compliance audits will be documented in the CEMP Audit form (refer Appendix B - Form MSF03) and copies issued to the ER.

## Procedure for Rectification of Non Compliances

The following processes will be adopted to ensure rectification of any identified actual or potential non compliance identified during the environmental auditing or review of compliance. These processes apply in circumstances where either the required safeguards specified in the CEMP have not been followed or where it is apparent that the safeguards as contained in the CEMP are not adequate to prevent adverse environmental impacts.

### Major non-conformance

The ER and the Quality and Environment Manager will have the authority to temporarily stop any work activity that is not being undertaken in accordance with requirements of the CEMP and presents an unacceptable or unanticipated environmental risk. A Major non-conformance could be classified as those which results in the works being stopped or the work presents an unacceptable or unanticipated environmental risk.

Any major non-conformance will trigger the issuance of a required corrective action, utilizing the Corrective Action report (Appendix C - Non-Compliance/Corrective Action and Preventive Action Report). The corrective action will specify what needs to happen before works can re-commence and will be recorded in the Corrective Action Register (Appendix D – Form MSF09).

### Continuous improvement notice

In a circumstance where it is apparent that the safeguards as contained in the CEMP are being adhered to, but are not adequate to minimise adverse environmental impacts, or can be improved, the ER and Quality and Environment Manager will have the authority to temporarily stop that work activity (if required) and prepare a Continuous Improvement Notice (Appendix E – Form MSF10a).

If and as required, the CEMP will be updated and the changes required to that work activity will be communicated to the relevant persons before works re-commence.

### Non-conformance close out

Fourteen (14) days is the nominated target for close out on non-conformances

## 5. Environmental Incidents – C12 (d) and (e)

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Any incident that occurs with the potential to cause an environmental impact will be reported immediately to the Quality and Environment Manager. The onsite Environmental Due Diligence Induction will include a verbal explanation of workers responsibilities under

the CEMP. At the completion of the induction they will be provided with a summary pamphlet including responsibilities and relevant contact details.

The Quality and Environment Manager will immediately attend the incident and make a determination as to whether Environment Protection Authority (EPA) notification is required.

In the event that EPA notification is required the Environmental Representative will also be notified.

EPA notification is required where a pollution incident occurs in the course of an activity such that material harm to the environment is caused or threatened.

Material harm to the environment is defined in s.147 of the *Protection of the Environment Operations Act 1997* as follows:

- (a) *harm to the environment is material if:*
- i) *it involves actual or potential harm to the health or safety of human beings or to ecosystems that is not trivial, or*
  - ii) *it results in actual or potential loss or property damage of an amount, or amounts in aggregate, exceeding \$10,000 (or such other amount as is prescribed by the regulations), and*
- (b) *loss includes the reasonable costs and expenses that would be incurred in taking all reasonable and practicable measures to prevent, mitigate or make good harm to the environment."*

Any environmental incident occurring at site will be recorded on an Environmental Incident Report (Appendix F – Form MSF07).

This will report will include:

- The date, time and duration of the incident;
- Clarify whether there was material harm to the environment;
- Detail the nature of the incident;
- Climatic conditions;
- The location of the incident;
- Pollutants involved;
- Circumstances in which the incident occurred; and
- Corrective action taken; external notification (EPA).

An updated Environmental Incidents Register (Appendix G – Form MSF06) will be included in the ER reports to the Director-General.

## 6. Training and Induction – C12 (f)

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Prior to any person undertaking construction activities on-site they will be required to attend an Environmental Due Diligence induction. All personnel, prior to starting work on the site, shall be made aware of the requirements of the CEMP, Condition of Approval and Statements of Commitment relevant to their respective activities.

A copy of the project specific induction and pamphlet will be included in this plan as an appendix once finalised.

An Environmental Due Diligence Induction Register (Appendix H – Form MSF01) will be maintained that requires sign-off by all attendees.



## Appendix A – Compliance Tracking Table

CEMP COMPLIANCE TABLE - MOREE SOLAR FARM (MP 10_0175)		UPDATED	22/12/2014
CONDITION #	DESCRIPTION	STATUS	EVIDENCE
<b>PART A - ADMINISTRATIVE CONDITIONS</b>			
A1	The Proponent shall carry out the project generally in accordance with the: (a) Major Project Application 10_0175; (b) Environmental Assessment Moree Solar Farm (BP Solar-Site 3 Southern), (February 2011); (c) Submissions Report Proposed Solar Power Station Near Moree, NSW (Moree Solar Farm) (April 2011); (d) Specialist Report Summary of Amended Project, Proposed Moree Solar Farm (November 2013); (e) Response to Submissions – Moree Solar Farm (9 January 2014); and (f) conditions of this approval.	STANDING	N/A
A2	In the event of an inconsistency between: (a) the conditions of this approval and any document listed from condition A1(a) to A1(e) inclusive, the conditions of this approval shall prevail to the extent of the inconsistency; and (b) any document listed from condition A1(a) to A1(e) inclusive, and any other document listed from condition A1(a) to A1(e) inclusive, the most recent document shall prevail to the extent of the inconsistency.	STANDING	N/A
A3	The Proponent shall comply with any reasonable requirement(s) of the Director-General arising from the Department's assessment of: (a) any reports, plans or correspondence that are submitted in accordance with this approval; and (b) the implementation of any actions or measures contained in these reports, plans or correspondence.	STANDING	N/A
A4	For the purpose of section 75S(2)(b) of the EP&A Act, the relevant provisions, as defined in section 75S(1A) of the EP&A Act, apply to this approval.	STANDING	N/A
A5	This project approval shall lapse five years after the date on which it is granted, unless the works subject of this approval have been commenced before that time.	STANDING	N/A
A6	The Proponent shall ensure that all licences, permits and approvals are obtained and maintained as required throughout the life of the project. No condition of this approval removes the obligation of the Proponent to obtain, renew or comply with such licences, permits or approvals. The Proponent shall ensure that a copy of this approval and all relevant environmental approvals are available on the site at all times during the project.	STANDING	N/A
<b>PART B - GENERAL CONDITIONS</b>			
B1	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 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.	ONGOING	Refer to section 19.8 of the CEMP
B2	The proposal is to comply with the recommendations in section 10 of the Bushfire Hazard Assessment Report, prepared by Building Code and Bushfire Solutions Pty Limited, dated 18 November 2010, or as otherwise agreed in writing with the RFS.	COMPLETE	Refer to section 19.8 of the CEMP
B3	Throughout the operational life of the project, the Proponent shall regularly consult with the local RFS to ensure its familiarity with the project, including the construction timetable and the final location of all infrastructure on the site. The Proponent shall comply with any reasonable request of the local RFS to reduce the risk of bushfire and to enable fast access in emergencies.	STANDING	Refer to section 19.8 of the CEMP
B4	The Proponent shall construct and operate the project in a manner that minimises dust generation from the site, including wind-blown and traffic-generated dust as far as practicable. All project related activities on the site shall be undertaken with the objective of preventing visible emissions of dust from the site. Should visible dust emissions attributable to the project occur during operation and construction, the Proponent shall identify and implement all practicable dust mitigation measures, including cessation of relevant works, as appropriate, such that emissions of visible dust cease.	STANDING	Refer to section 17 of the CEMP
B5	Except as may be expressly provided by an Environment Protection Licence for the project, the Proponent shall comply with section 120 of the Protection of the Environment Operations Act 1992 which prohibits the pollution of waters.	STANDING	Refer to section 15 of the CEMP
B6	The Proponent shall not cause, permit or allow any waste generated outside the site to be received at the site for storage, treatment, processing, re-processing, or disposal on the site, except as expressly permitted by a licence under the Protection of the Environment Operations Act 1997, if such a licence is required in relation to that waste.	STANDING	Refer to section 24 of the CEMP
B7	The Proponent shall maximise the reuse and/or recycling of waste materials generated on site, to minimise the need for treatment or disposal of those materials outside the site.	STANDING	Refer to section 24 of the CEMP
B8	The Proponent shall ensure that all liquid and/or non-liquid waste generated on the site is assessed and classified in accordance with Waste Classification Guidelines (DECC, 2008), or any future guideline that may supersede that document and where removed from the site is only directed to a waste management facility lawfully permitted to accept the materials.	STANDING	Refer to section 24 of the CEMP
B9	The Proponent shall ensure that no green waste is burnt on site during the life of the project.	STANDING	Refer to section 24 of the CEMP
B10	The Proponent shall store and handle all dangerous goods (as defined by the Australian Dangerous Goods Code) and combustible liquids, strictly in accordance with: (a) all relevant Australian Standards; (b) a minimum bund volume requirement of 110% of the volume of the largest single stored volume within the bund; and (c) the EPA's Environment Protection Manual Technical Bulletin Bunding and Spill Management. In the event of an inconsistency between requirements listed from a) to c) above, the most stringent requirement shall prevail to the extent of the inconsistency.	STANDING	Refer to section 15 of the CEMP
<b>PART C - PRIOR TO CONSTRUCTION</b>			
C1	Prior to the commencement of construction of the project, the Proponent shall commission a suitably qualified expert to assess the condition of all Council controlled public roads proposed to be traversed by construction traffic associated with the project (including over-mass or over-dimensional vehicles) in consultation with Council.	COMPLETE	Approval received from DPE on 10/11/14
C2	Prior to commencement of construction of the project, in consultation with Council and the RTA, the Proponent shall 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) considering final traffic volumes and works identified within the report by Transport and Traffic Planning Associates titled "BP Solar Proposed Solar Power Station Moree Assessment of Traffic and Transport Implications" dated December 2010.	COMPLETE	Approval received from DPE on 10/11/14
C1 AND C2	The results of C1 and C2, above shall be contained within a road dilapidation and upgrade report, and shall be submitted to the Director-General prior to the commencement of construction clearly identifying recommendations made by the Council and the RTA and how these have been addressed. The Proponent shall ensure that all upgrade measures identified in the report are implemented to the satisfaction of Council and the RTA, prior to the commencement of construction.	COMPLETE	Approval received from DPE on 10/11/14
C3	Following the final project design and prior to commencement of construction, the Proponent shall submit for approval of the Director-General an operational noise prediction report to demonstrate that the proposed design and layout of the project and any proposed noise management or mitigation measures will ensure that noise levels at nearby sensitive receivers are within the noise and vibration criteria derived by application of the NSW industrial Noise Policy (DECC, 2000) and Assessing Vibration: A Technical Guideline (DECC, 2006).	COMPLETE	Approval received from DPE on 08/12/14
C4	The clearing of all native vegetation is to be limited to the minimal extent practically 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 C15(a).	STANDING	Refer to Flora and Fauna Management Plan, Section 18 of the CEMP
C5	The proponent is to consult with the OEH to determine whether a biodiversity offset strategy and package is required. If it is determined that a biodiversity offset strategy is required, then the Proponent shall prepare a biodiversity offset strategy following final design, in consultation with OEH and the landholder, to the satisfaction of the Director-General, to guide the development of the offset package required in condition E1. The offset strategy is to be prepared by an ecologist and submitted for approval prior to the commencement of construction and should include: (a) consideration of all native vegetation losses and the adequacy of the proposed offset; (b) demonstration of how the offset will aim to achieve 'improve or maintain' biodiversity values; (c) an offset proposal which is supported by a suitable metric (such as the Biobanking Assessment Methodology); (d) connectivity in its design; (e) details of the relative condition and values of communities on the offset site in comparison to those to be impacted; (f) proposed management actions and expected gains; (g) demonstration of how the strategy was prepared in accordance with OEH's Principles for the Use of Biodiversity Offsets in NSW; and (h) measures to ensure in-perpetuity the conservation commitment.	COMPLETE	Through consultation with the OEH it was agreed the Biodiversity offset was not required due to the site area impacted by the works. Refer appendix B of the CEMP
C6	Subject to reasonable confidentiality requirements, the Proponent shall make all documents required under this approval available for public inspection on request.	ONGOING	
C7	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: (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 (e) details of the outcomes of compliance reviews and audits of the project.	COMPLETE	<a href="http://www.moreesolarfarm.com.au">http://www.moreesolarfarm.com.au</a>

C8	<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> <p>(a) procedures to inform the local community of planned investigations and construction activities, including blasting works (if any);</p> <p>(b) procedures to inform the relevant community of construction traffic routes and any potential disruptions to traffic flows and amenity impacts;</p> <p>(c) procedures to consult with local landowners with regard to construction traffic to ensure the safety of livestock and to limit disruption to livestock movements;</p> <p>(d) procedures to inform the community where work outside the construction hours specified in condition D5, in particular noisy activities, has been approved; and</p> <p>(e) procedures to inform and consult with affected landowners to rehabilitate impacted land.</p>	COMPLETE	Refer to CEMP Appendix C or refer to the website: <a href="http://www.moresolarfarm.com.au">http://www.moresolarfarm.com.au</a>
C9	<p>Prior to the commencement of construction, the Proponent shall ensure that the following are available for community complaints for the life of the project (including construction and operation) or as otherwise agreed by the Director-General:</p> <p>(a) a 24 hour telephone number on which complaints about construction and operational activities at the site may be registered;</p> <p>(b) a postal address to which written complaints may be sent; and</p> <p>(c) an email address to which electronic complaints may be transmitted.</p> <p>The telephone number, postal address and email address shall be advertised in a newspaper circulating in the 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.</p> <p>These details shall also be provided on the Proponent's internet site required by condition C7.</p> <p>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>	ONGOING	A, B and C complete - <a href="http://www.moresolarfarm.com.au">http://www.moresolarfarm.com.au</a> Site signage to be installed and media releases will be published as required
C10	<p>The Proponent shall record details of all complaints received through the means listed in condition C9 of this approval in an up to-date Complaints Register. The Register shall record, but not necessarily be limited to:</p> <p>(a) the date and time, of the complaint;</p> <p>(b) the means by which the complaint was made (telephone, mail or email);</p> <p>(c) any personal details of the complainant that were provided, or if no details were provided, a note to that effect;</p> <p>(d) the nature of the complaint;</p> <p>(e) any action(s) taken by the Proponent in relation to the complaint, including timeframes for implementing the action; and (f) if no action was taken by the Proponent 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>	ONGOING	Refer to CEMP Section 11
C11	<p>The Proponent shall provide an initial response to any complaints made in relation to the project during construction or operation within 48 hours of the complaint being made. The response and any subsequent action taken shall be recorded in accordance with condition C10. Any subsequent detailed response or action is to be provided within two weeks.</p>	STANDING	
C12	<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 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>	ONGOING	Compliance Tracking Program in place, Preconstruction compliance report complete
C13	<p>The Proponent shall nominate for the approval of the Director-General a suitably qualified and experienced Environmental Representative(s) independent of the design, construction and operation personnel. The Proponent shall engage the Environmental Representative(s) prior to construction until at least 6 months after commencement of operation, or as otherwise agreed by the Director-General. The Environmental Representative(s) shall:</p> <p>(a) monitor the implementation of all environmental management plans and monitoring programs required under this approval;</p> <p>(b) monitor the outcome of all environmental management plans and advise the Proponent upon the achievement of all project environmental outcomes;</p> <p>(c) have responsibility for considering and advising the Proponent on matters specified in the conditions of this approval, and all other licences and approvals related to the environmental performance and impacts of the project;</p> <p>(d) ensure that environmental auditing is undertaken in accordance with the requirements of Condition C12 and the project Environmental Management System(s);</p> <p>(e) be consulted in responding to the community concerning the environmental performance of the project; and</p> <p>(f) have the authority and independence to recommend to the Proponent reasonable steps to be taken to avoid or minimise unintended or adverse environmental impacts, and, failing the effectiveness of such steps, to recommend to the Proponent that relevant activities are to be ceased as soon as reasonably practicable if there is a significant risk that an adverse impact on the 'environment will be likely to occur, until reasonable steps are implemented to avoid such impact.</p>	COMPLETE	Approval received from DPE on 02/12/14
C14	<p>The Proponent shall prepare and implement a Construction Environmental Management Plan (CEMP) to outline environmental management practices and procedures to be followed during construction of the project. The Plan shall be prepared in consultation with Council and be consistent with the Guideline for the Preparation of Environmental Management Plans (DIPNR, 2004 or its latest revision) and shall include, but not necessarily be limited to:</p> <p>(a) a description of all relevant activities to be 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> <p>(h) specific consideration of relevant measures to address any requirements identified in the documents referred to under conditions A1(b) and A1(c) of this approval;</p> <p>(i) the additional requirements of this approval;</p> <p>(j) a complaints handling procedure during construction;</p> <p>(k) maps or plans clearly indicating where the project area has been reduced to minimise impacts to EEC and native pasture in good condition; and</p> <p>(l) a series of construction work method statements (or similar) to be prepared and the anticipated level of risk associated with each.</p> <p>(m) measures to monitor and manage soil and water impacts in consultation with NOW and DTRIS (Fisheries) 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 (including to groundwater dependent species and to registered groundwater users);</p> <p>(n) a flood management plan for the project area including a flood model for predicted water levels and shall include contingency measures for the site during potential floods, inclusive of measures for the removal of debris around the perimeter of the site to avoid alterations to flood paths occurring as a result of debris build up;</p> <p>(o) measures to monitor and manage dust emissions including dust generated by traffic on unsealed public roads and unsealed internal access tracks; and</p> <p>(p) emergency management measures including measures to control bushfires.</p> <p>The Construction Environmental Management Plan shall be submitted for the approval of the Director-General no later than one month prior to the commencement of any relevant construction works associated with the project, or within such period otherwise agreed by the Director-General. Construction works shall not commence until written approval has been received from the Director-General.</p>	COMPLETE	Approval received from DPE on 17/12/14

C15 A	Flora and Fauna Management Plan, developed in consultation with 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: (i) consideration of the recommendations in the Terrestrial Ecology Assessment undertaken by Ozark Environmental and Heritage Management titled "Proposed BP Solar Power Station in Moree" dated November 2010, (ii) plans showing terrestrial vegetation communities; important flora and fauna habitat areas; locations of EECs and native pastures; 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; (iii) 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; (iv) procedures to accurately determine the total area, type and condition of vegetation communities to be cleared; (v) reference to the Ground Cover Management Plan required in condition C15(b); and (vi) a procedure to review management methods where they are found to be ineffective.	COMPLETE	Refer to section 18 of the CEMP
C15 B	Ground Cover Management Plan, developed in consultation with OEH and an agronomist, ecologist or environmental specialist with suitable experience 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: (i) procedures to minimise disturbance to ground cover not impacted by the project particularly in the area of the native pasture 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.	COMPLETE	Refer to section 19 of the CEMP
C15 C	Landscape Plan for the approval of the Director-General. In preparing the Plan, the Proponent shall consult with Council. The Plan shall include the building design and landscaping measures to enhance the design of, and minimise, mitigate and/or offset the impacts of the project in relation to visual amenity and heritage values. The Plan shall include, but not necessarily be limited to: (i) identification of landscaping objectives and standards based on visual impacts and local environmental values; (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 identified as moderate or moderate to high within the "landscape and visual impact assessment" prepared by Green Bean Design dated December 2010; (iii) implementation, management and monitoring strategies to ensure the establishment and ongoing maintenance of landscaped areas; (iv) a consultation strategy to seek feedback from affected residents and the interested community on the proposed landscape measures.	COMPLETE	Refer to section 20 of the CEMP
C15 D	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: (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, inclusive of any recommendations in the "operational and construction noise and vibration assessment Solar Power Farm Moree" prepared by Atkins Acoustics and Associates Pty Ltd dated November 2010; (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 D5 of this approval, including a risk assessment process under which an Environmental Representative may approve out-of-hour construction activities 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 (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.	COMPLETE	Refer to section 21 of the CEMP
C15 E	Traffic Management Plan to manage traffic conflicts that may be generated during construction. The Plan shall address the requirements of the relevant road authority and shall include, but not necessarily be limited to: (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 with regard to road traffic impacts have been complied with; (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.	COMPLETE	Refer to section 22 of the CEMP
C15 F	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: 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 area; iii. procedures for dealing with unidentified objects and/or human remains consistent with condition D3; iv. Aboriginal cultural heritage induction processes for construction personnel; and v. procedures for ongoing Aboriginal consultation and involvement.	COMPLETE	Refer to section 14 of the CEMP
C16	C16. Prior to any construction within the railway corridor, approval is to be obtained from the Australian Rail Track Corporation for any works to be undertaken within the railway corridor, in particular the tunnelling of any cables beneath the existing railway line or the construction of any electricity transmission line passing over the existing railway line.	ONGOING	
<b>PART D - DURING CONSTRUCTION</b>			
D1	Soil and water management controls shall be employed to minimise soil erosion and the discharge of sediment and other pollutants to lands and/or waters during construction activities, in accordance with: (a) Managing Urban Stormwater: Soils and Conservation (Landcom, 2AOD); (b) Managing Stormwater: Urban Soils and Construction 2A installation of Services (DECC 2008); and (c) Managing Stormwater: Urban Soils and Construction Vol 2C Unsealed Roads (DECC 2008).	ONGOING	Refer to Section 15 of the CEMP
D2	If during the course of construction the Proponent becomes aware of any previously unidentified heritage object(s), all work likely to affect the object(s) shall cease immediately and the Heritage Council of New South Wales shall be notified immediately in accordance with section 146 of the NSW Heritage Act 1977. Relevant works shall not recommence until written authorisation from the Director-General of OEH advising otherwise is received by the Proponent.	ONGOING	Refer to Section 26 of the CEMP
D3	If during the course of construction the Proponent becomes aware of any previously unidentified significant Aboriginal object(s), all work likely to affect the object(s) shall cease immediately and the OEH informed in accordance with section 894 of the National Parks and Wildlife Act 1974. Relevant works shall not recommence until written authorisation from the Director-General of OEH advising otherwise is received by the Proponent.	ONGOING	Refer to Section 14 of the CEMP
D4	The Proponent shall implement all reasonable and feasible measures to minimise noise generation from the construction of the project consistent with the requirements of the Interim Construction Noise Guideline (DECC, July 2009) and recommendations in the "operational and construction noise and vibration assessment Solar Power Farm Moree" by Atkins Acoustics and Associates Pty Ltd dated November 2010, including noise generated by heavy vehicle haulage and other construction traffic associated with the project.	ONGOING	Refer to Section 21 of the CEMP
D5	The Proponent shall only undertake construction activities associated with the project that would generate an audible noise at any sensitive receptor during the following hours: (a) 7:00 am to 6:00 pm, Mondays to Fridays, inclusive; (b) 8:00 am to 1:00 pm on Saturdays; and (c) at no time on Sundays or public holidays. This condition does not apply in the event of a direction from police or other relevant authority for safety reasons, to prevent environmental harm or risk to life.	ONGOING	Refer to Section 21 of the CEMP

D6	Construction outside of these hours specified in condition D5 may be varied for works as approved through the out-of-hours work protocol outlined in condition C1s(d)(v)of this approval. Any request to alter the hours of construction shall be: (a) considered on a case-by-case basis; (b) accompanied by details of the nature and need for activities to be conducted during the varied construction hours and any other information necessary to reasonably determine that activities undertaken during the varied construction hours will not adversely impact on the acoustic amenity of receptors in the vicinity of the site; and (c) require that affected residential receivers are informed of the timing and duration of any construction activities approved under this condition at least 48 hours before that work commences.	ONGOING	Refer to Section 21 of the CEMP
D7	Any work generating high noise that has impulsive, intermittent, low frequency or tonal characteristics, including jack hammering, line drilling, pile driving, rock hammering, rock breaking, saw cutting, sheet piling, vibratory rolling but excluding blasting, must only be undertaken: (a) between the hours of 8:00am and 6:00pm Monday to Friday; (b) between the hours of 8:00am and 1:00pm Saturday; and (c) in continuous blocks of no more than three hours, with at least a one hour respite between each block of work generating high noise impact, where the location of the work is likely to impact the same receivers; except as otherwise approved by the Director-General. For the purposes of this Condition 'continuous' includes any period during which there is less than a one hour respite between ceasing and recommencing any of the work the subject of this Condition.	ONGOING	Refer to Section 21 of the CEMP
<b>PART E - PRIOR TO OPERATIONS</b>			
E1	If it is determined that a biodiversity offset package is required under condition C5, details of the package shall be submitted for the approval of the Director-General prior to the commencement of operation or as agreed by the Director-General. The package shall: (a) describe how the offset shall be guaranteed and monitored in perpetuity; (b) ensure all cleared vegetation communities and native pastures are represented. Where this cannot be achieved demonstrate how an equivalent offset has been developed; (c) demonstrate how the offset ratio determined improves or maintains biodiversity values; and (d) include requirements for a post construction review to confirm the extent of clearing was commensurate with and not greater than that predicted. If clearing is greater, then the package shall demonstrate how the offset was modified and increased to the value of the actual biodiversity loss.	STANDING	N/A
E2	Prior to the commencement of operation of the project, but after completion of substantial works, the Proponent shall commission a suitably qualified expert to assess the condition of all Council controlled public roads traversed by construction traffic associated with the project (including over-mass or over-dimensional vehicles) in consultation with Council. Should the pre-operational dilapidation survey report identify any damage to roads attributable to construction traffic associated with the project, the Proponent shall repair the roads consistent with the recommendations of the preoperational dilapidation survey report, within such time as agreed with the Council. The pre-operation road dilapidation report shall be submitted to the Director-General prior to the commencement of operation, clearly identifying recommendations made by the Council and how these have been addressed.	STANDING	N/A
E3	The Proponent shall prepare and implement an Operation Environmental Management Plan in accordance with the Guideline for the Preparation of Environmental Management Plans (DIPNR, 2004) or its latest revision. The Plan is to be prepared in consultation with Council, as relevant. The Plan shall include but not necessarily be limited to: (a) identification of all statutory and other obligations that the Proponent is required to fulfil in relation to the operation of the development, including all consents, licences, approvals and consultations; (b) a management organisational chart identifying the roles and responsibilities for all relevant employees involved in the operation of the project; (c) overall environmental policies to be applied to the operation of the project; (d) standards and performance measures to be applied to the project, and means by which environmental performance can be periodically monitored, reviewed and improved (where appropriate), and what actions would be taken in the case that non-compliance with the requirements of this approval are identified. In particular the following environmental performance issues shall be addressed: (i) bushfire hazard and risk management; (ii) management and maintenance of offsets; (iii) inspection, monitoring and maintenance requirements; (iv) management of vegetation, soil erosion, weed control; and (v) flood management; (e) the environmental monitoring requirements outlined under this approval; (f) complaints handling procedures as identified in conditions C9 to C11; (g) specific consideration of relevant measures to address any requirements identified in the documents referred to under conditions A1(b) and A1(c) of this approval; and (h) management policies to ensure that environmental performance goals are met and to comply with the conditions of this approval. The Plan shall be submitted for the approval of the Director-General no later than one month prior to the commencement of Operation of the project or within such period as otherwise agreed by the Director-General. Operation shall not commence until written approval has been received from the Director-General. Upon receipt of the Director-General's approval, the Proponent shall make the Plan publicly available as soon as practicable.	STANDING	N/A
<b>PART F - DURING OPERATION</b>			
F1	The Proponent shall take all reasonable measures to minimise noise emissions and vibration from all plant and equipment operated on the site such that they do not exceed noise and vibration criteria derived by application of the NSW industrial Noise Policy (DECC, 2000) and Assessing Vibration: A Technical Guideline (DECC, 2006),	STANDING	N/A
F2	The Proponent shall only undertake maintenance works associated with the project that would generate an audible noise at any sensitive receptor, during the hours stipulated for construction activities in condition D5.	STANDING	N/A
F3	Within six months of the commissioning of the project, the Proponent shall prepare and submit a Visual impact Verification Report for the Director-General's approval. Unless otherwise agreed to by the Director-General, the Visual impact Verification Report shall: (a) confirm the visual impacts at each of the receptors and roadways identified in the Environmental Assessment as having the potential to be 'moderate and moderate to highly impacted', considering the final model and layout of generating components on site as well as site specific mitigating factors at the receptors and roadways (such as receptor orientation, intervening screening factors and design of permanent buildings to minimise visual intrusion including appropriate external finishes). (b) identify all reasonable and feasible screening and landscape planting options available at each receptor and roadways at which potential impacts have been verified to be 'moderate and moderate to high' including demonstration that these measures have been determined in consultation with affected receptors and relevant road authorities.	STANDING	N/A
F4	Within 18 months of the approval of the Visual Impact Verification Report by the Director-General (or as otherwise agreed to by the Director-General), the Proponent shall ensure that the measures identified in the Report are implemented at affected receptors and roadways as identified in the Report in consultation with relevant landowners and road authorities.	STANDING	N/A
F5	The Proponent shall implement a revegetation and rehabilitation program for all areas of the development footprint which are disturbed during the construction of the project but, which are not required for the ongoing operation of the project including temporary construction facility sites and sections of construction access roads. The Proponent shall ensure that all revegetation measures are implemented progressively where possible and in all cases within six months of the cessation of construction activities at the relevant area. Unless otherwise agreed to by the Director-General, the Proponent shall monitor and maintain the health of all revegetated areas until such time that the plantings have been verified by an independent and suitably qualified expert (whose appointment has been agreed to by the Director-General) as being well established, in good health and self sustaining.	STANDING	N/A
<b>PART F - DECOMMISSIONING</b>			
G1	Within 18 months of the site being decommissioned, the site shall be returned, as far as practicable, to its condition prior to the commencement of construction in consultation with relevant landowners. All solar panels and associated above ground structures including but not necessarily limited to, the substation, the control and facilities building and electrical infrastructure, including underground infrastructure to a depth of 300 millimetres, shall be removed from the site unless otherwise agreed by the Director-General, except where the substation, control room or overhead electricity lines are transferred to or in the control of the local electricity network operator. All other elements associated with the project, including site roads, shall be removed unless otherwise agreed to by the Director-General.	STANDING	N/A
G2	If the solar farm is not used for the generation of electricity for a continuous period of 12 months, it shall be considered decommissioned by the Proponent, and the site shall be returned as far as practical, to its condition prior to the commencement in accordance with condition A7, unless otherwise agreed by the Director-General. The Proponent shall keep independently-verified annual records of the use of the solar panels for electricity generation. Copies of these records shall be provided to the Director-General upon request.	STANDING	N/A
G3	No later than one month prior to the decommissioning of the project, or as otherwise agreed by the Director-General, the Proponent is to prepare a Decommissioning Management Plan for the approval of the Director-General. The Plan is to include but not necessarily limited to: (a) identification of structures to be removed and how they will be removed; (b) measures to reduce impacts on the environment and surrounding sensitive land USCS; (c) details of components to be recycled; (d) details of rehabilitation and revegetation	STANDING	N/A



M O R E E S O L A R F A R M

Appendix B - Form MSF 03

FORM - MSF03: CEMP Audit

Date	Completed By	Any non-compliances? (yes/no)	List CEMP Sections	Actions



	<p align="center"><b>NON-COMPLIANCE/CORRECTIVE ACTION AND PREVENTIVE ACTION REPORT</b></p> <p>Report Code<sup>(1)</sup>:</p>		<p><b>FI.ELN.GEN-11.03A</b></p>
			<p><b>Revision: 00</b></p>
			<p><b>Date: 15/07/2013</b></p>
			<p><b>Page 1 of 11</b></p>
		<small>(where applicable):</small>	
			<p><b>Effectiveness verification deadline:</b></p>
<b>EFFECTIVENESS OF THE ACTION</b>			
<p><b>Effective action</b></p> <p><input type="checkbox"/> Yes    <input type="checkbox"/> No</p>	<p><b>Interventions proposed</b></p>		<p><b>Name:</b></p> <p><b>Signed:</b></p> <p><b>Date:</b></p>



Appendix D – Form MSF 09

**FORM-MSF09: Corrective Action Register**

Date	Nature of Non-conformance	Required Corrective Action	Works Can Resume		Signed
			Yes	No	



M O R E E S O L A R F A R M

**Appendix E – Form MSF 10a**



Appendix F – Form MSF 07



CONSTRUCTION ENVIRONMENTAL MANAGEMENT PLAN  
 MOREE SOLAR FARM  
 VERSION: FINAL  
 DATE: 20/11/14

**FORM – MSF07: ENVIRONMENTAL INCIDENT REPORT**

Incident No:	Time:
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Date:	Duration of Incident:
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Is there a risk of material harm to the environment?	Yes: <input type="checkbox"/> No: <input type="checkbox"/> If Yes, Notify EPA at earliest opportunity.
--	---

Nature of Incident:

Temperature: .....°C	Wind direction & speed: .....km/hr
Relative Humidity: ..... %	Rainfall since 9am:.....mm
Fire Danger Rating: .....	

The location of the place where pollution is occurring or is likely to occur:

The nature, the estimated quantity or volume and the concentration of any pollutants involved (if known):

The circumstances in which the incident occurred, including the cause of the incident (if known):

The corrective action taken or proposed to be taken to deal with the incident and any resulting pollution or threatened pollution (if known):

Has EPA been notified?	Yes: <input type="checkbox"/> N/A: <input type="checkbox"/>
Name:	Signature:                      Date:                      Time:

Close-off:
Name:                                      Signature:





M O R E E S O L A R F A R M

Appendix H- Form MSF 01

FORM-MSF01: Environmental Due Diligence Induction Register

Date	Name	Organisation	Training Received (please tick)		Signed <i>I confirm that I have attended the induction and understand my environmental responsibilities</i>
			General environmental awareness	Aboriginal Heritage	