

Approved form

Environmental Protection Act 1994

Transitional environmental program

This form must be used when proposing a transitional environmental program (TEP) to the administering authority pursuant to section 331 of the Environmental Protection Act 1994. For further information on TEPs refer to the Transitional Environmental Programs Guideline (ESR/2016/2277) and Annual return for a transitional environmental program form (ESR/2016/2139).

TRANSITIONAL ENVIRONMENTAL PROGRAM FOR QGC KENYA PROJECT AREA Section 330 of the *Environmental Protection Act 1994*

Individual or Company Responsible:	QGC PTY LTD [LEVEL 30, 275 GEORGE STREET BRISBANE QLD 4000 10 089 642 553
Environmental Authority number (if relevant)	EPPG00878413]
Environmental Authority holder names (if relevant)	QGC PTY LTD, BG INTERNATIONAL (AUS) PTY LTD, AUSTRALIA PACIFIC LNG PTY LTD, SGA (QUEENSLAND) PTY LTD, BG INTERNATIONAL LIMITED, CNOOC COAL SEAM GAS COMPANY PTY LTD, TOKYO GAS QCLNG PTY LTD[
Development Approval number (if relevant)	[N/A]
Title:	[QGC KENYA PROJECT AREA TEP]
Date:	[28 September 2017]
Reason for TEP:	S330(1)(a) REDUCE POTENTIAL ENVIRONMENTAL HARM CAUSED BY AN ACTIVITY AND S330(c) COMPLY WITH A CONDITION OF AN ENVIRONMENTAL AUTHORITY (EA):

Site details:	Sensitive Receptor Details: Bellara, Lot 1 on RP 202346, 329 Noel Robinson Road, Crossroads Qld 4406 (Herein referred to as the Nothdurft Residence) QGC Tenure Details: Kenya Project Area EA EPPG00878413
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Period of TEP: 1 MAY 2017 - 14 FEBRUARY 2018]
Start date: [1 MAY 2017]
Finish date: [30 SEPTEMBER 2018]

Content of Program:

1. TO REDUCE ENVIRONMENTAL HARM CAUSED BY AN ACTIVITY: (SECTION 330(1)(A)):

Noise monitoring conducted by QGC at the agreed "Representative Location", adjacent to the Nothdurft Residence, has shown that noise levels have exceeded the nighttime noise limit, as set out in Condition E7, Schedule E, Table 1 - Noise Limits at Sensitive Receptors (EPPG00878413), as a result of noise from QGC's Kenya Central Processing Plant (CPP). In particular, QGC measured noise levels between 1 - 2dB(A) above the 28dB(A) night time limit on the 23 October (22:00- 22:30), 24 October (3:45-4:00), and 25 October (3:00-3:15) 2016, for a total duration of 1 hour (or approximately 0.4% of the night time periods) over 32 days of monitoring conducted from 6 October to 6 November 2016 as part of EPO STAT1085. The administering authority has raised concerns that the noise limit exceedances, coupled with complaints from the Nothdurft family, likely constitutes an unreasonable interference or disturbance to the acoustic environment at the Nothdurft residence from noise.

Description of transition: QGC has completed a detailed assess/select engineering review for the Kenya CPP to identify potential options to reduce the intermittent EA noise limit exceedances at the Nothdurft residence. QGC has elected to progress with construction of a noise barrier at the Kenya CPP to reduce noise and ensure compliance with noise limits as set out in Condition E7, Schedule E, Table 1 - Noise Limits at Sensitive Receptors (EPPG00878413) by 31 October 2017, thus also reducing potential environmental harm caused by the activity: (section 330(1)(a)). Noise modelling conducted using SoundPLAN v7.4, indicates that the barrier will reduce noise from the CPP by up to 12 dBA at the Nothdurft residence, which will ensure that compliance is maintained during moderate and strong temperature inversions and downward wind conditions, particularly as might be expected during winter months of the calendar year.

See Table 1.

2. TO COMPLY WITH A CONDITION OF AN ENVIRONMENTAL AUTHORITY (SECTION 331(e)):

QGC has monitored noise levels at the Representative location in response to Environmental Protection Order EPO STAT1085/CR73680 which identified instances where noise levels were not in compliance with the night time noise limit as set out in

Condition E7, Schedule E , Table 1 - Noise Limits at Sensitive Receptors (EPPG00878413) - see Section 1 above.

Description of Transition : Comply with a condition of an environmental authority (section 331(e)):

As detailed above in Section 1, QGC has confirmed the construction and operation of a noise barrier will effectively reduce noise levels received at the Nothdurft residence to ensure compliance with Condition E7, Schedule E , Table 1 - Noise Limits at Sensitive Receptors (EPPG00878413). Modelling of the barrier concept identifies a reduction in noise by up to 12 dBA.

See Table 1.

TABLE 1	
Objective(s) [section 331(a)] State the objectives to be achieved and maintained under the TEP for the activity. The objectives must be specific and clear and relate to achieving compliance with the Act, the <i>Environmental Protection Regulation 2008</i>, environmental protection policies, or if relevant, the conditions of approval.	
1. Deliver a noise mitigation project that provides noise reduction from the Kenya CPP at the Nothdurft residence (sensitive receptor) to achieve compliance with Condition E7, Schedule E , Table 1 - Noise Limits at Sensitive Receptors (EPPG00878413) by 14 November 2017 and reduce potential environmental harm as a result of the Kenya CPP operation. 2. Undertake monitoring of the performance of the noise barrier once installed, to ensure that the barrier achieves compliance with the EA during moderate and strong temperature inversions and downward wind conditions, particularly as might be expected during winter months of the calendar year. 3. Best practice management of environmental noise emissions,	

Actions [section 331(b)]	Commencement date	Completion date
List the actions to be taken to achieve each of the objectives. Actions must take into account:	[section 331(b)] A start and finishing date for each action or	

1. Best practice environmental management for the activity (including how these measures stand against the measures currently used nationally and internationally for the activity [section 331(b)(i)]); and 2. The risks of environmental harm being caused by the activity (including the proposed actions, how the risks have been considered and how they will be treated or mitigated [section 331(b)(ii)]).	groups of actions must be included.	
1.QGC will comply with the noise limits outlined in condition E7, Schedule E, Table 1 - Noise Limits at Sensitive Receptors, (EPPG00878413) by installing a noise barrier at the Kenya Central Processing Plant (Kenya CPP) by 14 November 2017.	1 May 2017	14 November 2017
:Noise monitoring will be conducted at the sensitive receptor or a representative location to confirm compliance with the EA once the noise barrier has been installed. Noise Monitoring will be undertaken by an independent acoustic expert for at least 1 week per month between 15 November 2017 and 14 February 2018, and between 1 June and 31 August 2018 to assess noise under typical and worst case noise propagation conditions.	14 November 2017	31 August 2018

Performance indicators [section 331(g)] Detail how and when each action will be measured to indicate that the action was completed successfully and that the objective of the TEP is being achieved. Performance indicators must not be measured more than six months apart [section 331(g)] and must be quantitative (that is, able to be measured, assessed and audited in a consistent, objective and repeatable manner).	Commencement date	Completion date
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1. By 5pm on the first day of each month commencing 1 July 2017, QGC will provide the administering authority southwest.ES@ehp.qld.gov.au with written correspondence outlining the progress of actions to install the noise barrier and achieve compliance with the noise limits outlined in condition E7, Schedule E, Table 1 - Noise Limits at Sensitive Receptors, EPPG00878413	1 July 2017	1 December 2017
2 Upon installation of the noise barrier at the Kenya CPP Site, an independent acoustic specialist, will conduct noise monitoring at the Nothdurft Residence and/or the Representative Location to confirm compliance with condition E7, Schedule E, Table 1 - Noise Limits at Sensitive Receptors, (EPPG00878413). Noise Monitoring will be undertaken for at least 1 week per month between 15 November 2017 and 14 February 2018, and between 1 June and 31 August 2018 to assess noise under typical and worst case noise propagation conditions.)	14 November 2017	31 August 2018

Monitoring [section 331(h)]	Commencement date	Completion date
Provide details of the monitoring activities required to ensure compliance with the proposed TEP actions and dates. This includes details of who will conduct the activities, how monitoring needs to occur and the environmental and scientific testing that may be required.		

1.QGC will continue to engage an independent suitably qualified expert to carry out noise monitoring at the Nothdurft Residence and/or the Representative Location as set out in the Requirements of EPO STAT1085/CR73680 (attached).	1 May 2017	30 September 2017
2. Upon installation of the noise barrier at the Kenya CPP Site, an independent suitably qualified expert will conduct noise monitoring at the Nothdurft Residence and/or the Representative Location to confirm compliance with condition E7, Schedule E, Table 1 - Noise Limits at Sensitive Receptors, (EPPG00878413). Noise Monitoring will be undertaken for at least 1 week per month between 15 November 2017 and 14 February 2018, and between 1 June and 31 August 2018 to assess noise under typical and worst case noise propagation conditions.)	14 November 2017	31 August 2018
Reporting [section 331(h)] Regular progress reports are to be provided to EHP on specified dates including monitoring results, a description of activities and issues from the previous month and any proposed activities for the next month. A final report describing how the objective(s) of the TEP was achieved must be provided within one month of the final action being completed and prior to the end date of the TEP. Failure to carry out prescribed actions must be reported.	Commencement date	Completion date

1. By 5pm on the first day of each month commencing 1 July 2017, QGC will provide the administering authority southwest.ES@ehp.qld.gov.au with written correspondence outlining the progress of actions to install the noise barrier and achieve compliance with the noise limits outlined in condition E7, Schedule E, Table 1 - Noise Limits at Sensitive Receptors, EPPG00878413.	1 July 2017	1 December 2017
2. An interim report will be provided to the administering authority developed by the independent acoustic expert detailing the outcome of noise monitoring between 15 November 2017 and 14 February 2018 and confirming compliance with conditions of the EA	15 November 2017	15 March 2018
3. A final report will be provided to the administering authority developed by the independent acoustic expert detailing the outcome of noise monitoring between 1 June and 31 August 2018 and confirming compliance with conditions of the EA	1 June 2018	30 September 2018

Declaration

As per section 481 of the *Environmental Protection Act 1994*, it is an offence to state anything to an authorised person that you know is false or misleading in a material particular or omit from a statement made to an authorised person anything without which the statement is, to your knowledge, misleading in a material particular.

I declare that:

- I do solemnly and sincerely declare that the information provided is true and correct to the best of my knowledge. I understand that it is an offence under section 480 of the *Environmental Protection Act 1994* to give to the administering authority, or an authorised person, a document containing information that I know is false, misleading or incomplete in a material particular¹.
- I understand that information supplied on or with this application form may be disclosed publicly in accordance with the *Right to Information Act 2009* and the *Evidence Act 1977*.

INDIVIDUAL OR IF COMPANY, EXECUTIVE OFFICER NAME Anthony Pearce
SIGNATURE 
POSITION OF SIGNATORY (IF RELEVANT) General Manager HSSE DATE 28/09/17

Please return your completed application to

Post:

Department of Environment and
Heritage Protection
GPO Box 2454
BRISBANE QLD 4001

Courier or hand delivery:

Permit and Licence Management
Department of Environment and Heritage Protection
Level 3, 400 George Street
BRISBANE QLD 4000
Business hours: 8:30am–4:30pm business days

Enquiries:

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