



## Planning

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Mr Greg King  
Project Manager  
Caltex Jet Fuel Pipeline Upgrade Project (Stage 2)  
Locked Bag 2000  
Taren Point NSW 2229

Cc: Mr Alan Parnell

Dear Mr King,

### **Director-General's Requirements Caltex Jet Fuel Pipeline Upgrade Project**

The Department has received your application for the Caltex Jet Fuel Pipeline Upgrade Project.

I have attached a copy of the Director General's requirements for the Project. These requirements have been prepared in consultation with the relevant Government authorities, and are based on the information you have provided to date. I have also attached a copy of the government authorities' comments for your information. Please note that the Director-General may alter these requirements at any time.

If your proposal is likely to have a significant impact on matters of National Environmental Significance, it will require an approval under the Commonwealth *Environment Protection Biodiversity Conservation Act 1999* (EPBC Act). This approval is in addition to any approvals required under NSW legislation. It is your responsibility to contact the Department of Environment, Water, Heritage and the Arts in Canberra (6274 1111 or <http://www.environment.gov.au>) to determine if the proposal requires an approval under the EPBC Act. If it is determined that an approval is required under the EPBC Act, please contact me immediately as supplementary Director-General's requirements may need to be issued.

It would be appreciated if you can contact the Department at least two weeks before you propose to submit your Environmental Assessment for the Project. This will enable the Department to determine the:

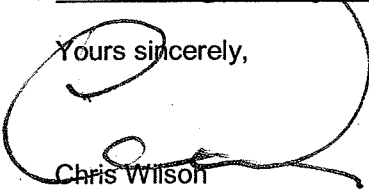
- applicable fee (see Division 1A, Part 15 of the Environmental Planning and Assessment Regulation 2000);
- consultation and public exhibition arrangements; and
- number of copies (hard-copy and/or CD-ROM) of the Environmental Assessment that will be required for exhibition purposes.

Once the Department receives the Environmental Assessment, it will review it in consultation with the relevant agencies to determine if it adequately addresses the Director-General's requirements, and may require you to revise it prior to public exhibition.

The Department is required to make all the relevant information associated with the project publicly available on its website. Consequently, it would be appreciated if you can ensure all documents submitted to the Department are in a suitable format for the internet.

If you have any enquiries about these requirements, please contact Chris Ritchie on 9228 6413 or [chris.ritchie@planning.nsw.gov.au](mailto:chris.ritchie@planning.nsw.gov.au).

Yours sincerely,

  
Chris Wilson  
Executive Director  
Major Projects Assessment  
As delegate for the Director-General

18.1.11

# Director-General's Requirements

Section 75F of the *Environmental Planning and Assessment Act 1979*

Application Number	MP 11_0004
Project	The Caltex Jet Fuel Pipeline Upgrade Project which includes the replacement of around 1.5km of existing pipes, installation of new pumps at the Refinery Site and Caltex's Banksmeadow Terminal.
Site	Land within the Sutherland Shire and Botany local government areas. The pipeline runs north from the existing refinery at Kurnell, across Botany Bay and then north-east to the terminal at Sydney Airport.
Proponent	Caltex Refineries (NSW) Pty Ltd
Date of Issue	18 January 2011
General Requirements	<p>The Environmental Assessment of the project must include:</p> <ul style="list-style-type: none"> <li>• an executive summary;</li> <li>• a detailed description of the following within the site and any associated areas: <ul style="list-style-type: none"> <li>- historical operations/activities; and</li> <li>- existing and approved operations/facilities, including any statutory approvals that apply to these operations and facilities.</li> </ul> </li> <li>• a detailed description of the project, including the: <ul style="list-style-type: none"> <li>- need for the project;</li> <li>- proposed modifications or upgrades to activities or infrastructure;</li> <li>- alternatives considered;</li> <li>- various components and stages of the project;</li> <li>- likely interactions between existing and proposed operations as well as the project and other land uses in the vicinity of the site; and</li> <li>- plans of any proposed building works;</li> </ul> </li> <li>• a risk assessment of the potential environmental impacts of the project, identifying the key issues for further assessment;</li> <li>• a detailed assessment of the key issues specified below, and any other significant issues identified in the risk assessment (see above), which includes: <ul style="list-style-type: none"> <li>- a description of the existing environment, using sufficient baseline data;</li> <li>- an assessment of the potential impacts of the project, including any cumulative impacts, taking into consideration any relevant guidelines, policies, plans and statutory provisions (see below);</li> <li>- a description of the measures that would be implemented to avoid, minimise, mitigate, rehabilitate/remediate, monitor and/or offset the potential impacts of the project, including detailed contingency plans for managing any significant risks to the environment;</li> </ul> </li> <li>• a statement of commitments, outlining all the proposed environmental management and monitoring measures;</li> <li>• a conclusion justifying the project on economic, social and environmental grounds, taking into consideration whether the project is consistent with the objects of the <i>Environmental Planning &amp; Assessment Act 1979</i>; and</li> <li>• a signed statement from the author of the Environmental Assessment, certifying that the information contained within the document is neither false nor misleading.</li> </ul>
Key Issues	<ul style="list-style-type: none"> <li>○ <b>Project Need</b> – including: <ul style="list-style-type: none"> <li>- consideration of the project and an analysis of the need to upgrade the jet fuel pipeline route; and</li> <li>- details of the proposed works clearly describing the relevant location, ownership, land use, and zoning provisions.</li> </ul> </li> </ul>

	<ul style="list-style-type: none"> <li>○ <b>Hazards and Risk</b> – a Preliminary Hazard Analysis (PHA) prepared in accordance with the Department's guidelines (see attached). The PHA should separately consider changes proposed within the Kurnell Refinery boundary, the upgraded pipeline arrangements between the refinery and wharf, increases in pipeline operating pressures and the modifications within the Caltex Banksmeadow terminal. The analysis should include: <ul style="list-style-type: none"> <li>– identification of potential hazards associated with the project, to determine the potential for offsite impacts;</li> <li>– an estimate of the consequences and likelihood of significant events;</li> <li>– comparison of the estimated overall risks against the Department's risk criteria; and</li> <li>– proposed safeguards to ensure risks are minimised.</li> </ul> </li> <li>○ <b>Noise and Vibration</b> – including: <ul style="list-style-type: none"> <li>– a noise impact assessment, including an assessment of predicted noise impacts and road traffic noise during both construction and operation;</li> <li>– consideration of vibration impacts from excavation works; and</li> <li>– details of the proposed noise mitigation, monitoring and management measures;</li> </ul> </li> <li>○ <b>Air Quality</b>– including a comprehensive air quality assessment of both the construction and operational phases, focusing on dust, odour &amp; vapour (including volatile compounds).</li> <li>○ <b>Soil and Water</b> – including: <ul style="list-style-type: none"> <li>– a detailed assessment of potential soil, surface and groundwater impacts; potential soil contamination; details of proposed erosion and sedimentation controls (during construction), stormwater management, spill containment and bunding;</li> <li>– consideration of sea level rise and how this would be managed; and</li> <li>– consideration of acid sulfate soils and how they would be managed if detected.</li> </ul> </li> <li>○ <b>Greenhouse Gas &amp; Energy Efficiency</b> – including: <ul style="list-style-type: none"> <li>– a quantitative assessment of the potential greenhouse gas emissions of the project, and qualitative assessment of the potential impacts of these emissions on the environment; and</li> <li>– a detailed description of the measures that would be implemented on site to ensure that the project is energy efficient.</li> </ul> </li> <li>○ <b>Biodiversity</b> – including: <ul style="list-style-type: none"> <li>– Potential impacts on the marine ecology &amp; details of the proposed measures to minimise these impacts; and</li> <li>– the measures taken to reduce the likelihood of fuel spills.</li> </ul> </li> <li>○ <b>Aboriginal Heritage</b> – including: <ul style="list-style-type: none"> <li>– sufficient information and discussion to demonstrate the likely impacts on Aboriginal Heritage values/items and proposed mitigation measures; and</li> <li>– should aboriginal sites be found, an assessment of the aboriginal sites identified should be done.</li> </ul> </li> <li>○ <b>Traffic and Transportation</b> – including: <ul style="list-style-type: none"> <li>– an assessment of the potential for disruption to traffic and increase in traffic movements during the construction and operation phase; and</li> <li>– an assessment of the impacts on any road and proposed measures to mitigate these impacts.</li> </ul> </li> <li>○ <b>General Environmental Risk Analysis</b> –including an environmental risk analysis to identify potential environmental impacts (construction and operation), proposed mitigation measures, potentially significant residual environmental impacts after the application of proposed mitigation measures and an appropriately detailed impact assessment of any additional key environmental impacts identified through the risk analysis.</li> </ul>
References	<p>The EA should take into account relevant Government technical and policy guidelines, as well as industry guidelines and relevant strategic plans. While not exhaustive, guidelines and plans which may be relevant to the Project are included in the attached lists.</p>

<b>References</b>	The EA should take into account relevant Government technical and policy guidelines, as well as industry guidelines and relevant strategic plans. While not exhaustive, guidelines and plans which may be relevant to the Project are included in the attached lists.
<b>Consultation</b>	<p>During the preparation of the EA, you should consult with the relevant local, State or Commonwealth government authorities, service providers, community groups or affected landowners.</p> <p>In particular, you must consult with:</p> <ul style="list-style-type: none"> <li>• Commonwealth Government;</li> <li>• Department of Environment, Climate Change and Water;</li> <li>• NSW Industry and Investment;</li> <li>• NSW Office of Water;</li> <li>• NSW Roads and Traffic Authority;</li> <li>• Botany City Council;</li> <li>• Sutherland Shire Council;</li> <li>• relevant local Aboriginal communities and Local Aboriginal Land Councils; and</li> <li>• the local community.</li> </ul> <p>The EA must clearly indicate issues raised by stakeholders during consultation, and how those matters have been addressed in the EA.</p>
<b>Deemed refusal period</b>	Under clause 8E(2) of the <i>Environmental Planning and Assessment Regulation 2000</i> , the applicable deemed refusal period is 60 days from the end of the proponent's EA period for the Project.

## Policies, Guidelines & Plans

### Hazards & Risk

State Environmental Planning Policy No. 33 – Hazardous and Offensive Development

Hazardous Industry Planning Advisory Paper No. 3 – Environmental Risk Impact Assessment Guidelines

Hazardous Industry Planning Advisory Paper No. 4 – Risk Criteria for Land Use Safety Planning

Hazardous Industry Planning Advisory Paper No. 6 – Guidelines for Hazard Analysis

AS 2885.1-2007 Pipelines - Gas and liquid petroleum

HB 203: 203:2006 Environmental Risk Management – Principles & Process (Standards Australia)

Multi-Level Risk Assessment (DUAP)

### Noise & Vibration

NSW Industrial Noise Policy (DECC)

Environmental Noise Control Manual (DECC)

Environmental Noise Management – Assessing Vibration: a technical guide (DEC)

Environmental Criteria for Road Traffic Noise (NSW EPA)

Interim Construction Noise Guideline (DECC)

DIN 4150 Part 3 - Structural Vibration: effects of vibration on structures (ISO, 1999)

### Soil & Water

#### Surface Water

National Water Quality Management Strategy: Australian Guidelines for Fresh and Marine Water Quality (ANZECC/ARMCANZ)

National Water Quality Management Strategy: Australian Guidelines for Water Quality Monitoring and Reporting (ANZECC/ARMCANZ)

Using the ANZECC Guideline and Water Quality Objectives in NSW (DEC)

State Water Management Outcomes Plan

Managing Urban Stormwater: Soils & Construction (Landcom)

Draft Coastal Risk Management Guide: Incorporating sea level rise benchmarks in flood risk assessments (DECC)

NSW Coastal Planning Guideline: Adapting to sea level rise (DoP, 2010)

Floodplain Development Manual (DIPNR)

Floodplain Risk Management Guideline (DECC)

#### Groundwater

National Water Quality Management Strategy Guidelines for Groundwater Protection in Australia (ARMCANZ/ANZECC)

NSW State Groundwater Policy Framework Document (DLWC, 1997)

NSW State Groundwater Quality Protection Policy (DLWC, 1998)

NSW State Groundwater Quantity Management Policy (DLWC, 1998)

Guidelines for the Assessment & Management of Groundwater Contamination (DECC, 2007)

#### Soil

Acid Sulfate Soil Manual (DLWC, 1998)

### Air Quality

Protection of the Environment Operations (Clean Air) Regulation 2002

Approved Methods for the Modelling & Assessment of Air Pollutants in NSW (DEC)

Approved Methods for the Sampling & Analysis of Air Pollutants in NSW (DEC)

**Biodiversity**

Draft Guidelines for Threatened Species Assessment under Part 3A of the *Environmental Planning and Assessment Act 1979* (EP&A Act) (DEC)  
Policy & Guidelines - Aquatic Habitat Management and Fish Conservation (NSW Fisheries)

**Aboriginal Heritage**

Draft Guidelines for Aboriginal Cultural Heritage Assessment and Community Consultation (DoP and DEC)

**Traffic & Transport**

Guide to Traffic Generating Development (RTA)  
Road Design Guide (RTA)