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Our ref: 13/14378

Mr Peter Duncan  
Chief Executive Officer  
Roads and Maritime Services  
Level 9  
101 Miller Street  
NORTH SYDNEY NSW 2000

Att: Mark Andrew

Dear Mr Duncan

**DGRs for F3 to M2 project SSI - 13\_6103**

Please find attached a copy of the Director General's environmental assessment requirements (DGRs) for the preparation of an Environmental Impact Statement (EIS) for the F3 to M2 project. These requirements have been prepared in consultation with relevant government agencies 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 you do not lodge an EIS for the proposal within 2 years, you must consult further with the Director General in relation to the preparation of the EIS.

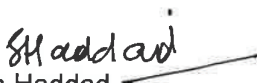
Prior to exhibiting the EIS that you submit for the proposal, the department will review the document in consultation with the relevant agencies to determine if it addresses the requirements in Schedule 2 of the *Environmental Planning and Assessment Regulation 2000*.

I would appreciate it if you would contact the department at least two weeks before you propose to submit your EIS. This will enable the department to determine the number of copies (hard-copy and CD-ROM) of the EIS that will be required for reviewing purposes.

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 and Biodiversity Conservation Act 1999* (EPBC Act). This approval would be in addition to any approvals required under NSW legislation and it is your responsibility to contact the Department of Sustainability, Environment, Water, Population and Communities to determine if an approval under the EPBC Act is required (<http://www.environment.gov.au> or 6274 1111).

Your contact officer, Andrew Beattie, can be contacted on 9228 6384 or at [Andrew.Beattie@planning.nsw.gov.au](mailto:Andrew.Beattie@planning.nsw.gov.au). Please mark all correspondence regarding the proposal to the attention of the contact officer.

Yours sincerely

  
Sam Haddad  
Director General

29/10/2013

# Director General's Environmental Assessment Requirements

## Section 115Y of the *Environmental Planning and Assessment Act 1979*

<b>Application Number</b>	SSI - 13_6103
<b>Proposal</b>	New below ground multi-lane motorway known as the F3 to M2 project.
<b>Location</b>	Between the M1 Pacific Motorway (formerly the F3 Sydney–Newcastle Expressway) at North Wahroonga and the M2 Hills Motorway at North Rocks, in the Hills, Hornsby and Ku-ring-gai Local Government Areas.
<b>Proponent</b>	Roads and Maritime Services
<b>Date of Issue</b>	29 October 2013
<b>General Requirements</b>	<p>The Environmental Impact Statement (EIS) must be prepared in accordance with, and meet the minimum requirements of, Part 3 of Schedule 2 of the <i>Environmental Planning and Assessment Regulation 2000</i> (the Regulation), including:</p> <ol style="list-style-type: none"> <li>the information required under clause 6 of Schedule 2 of the Regulation.</li> <li>the content listed in clause 7 of Schedule 2 of the Regulation, including but not limited to: <ul style="list-style-type: none"> <li>a statement of the objectives of the project, including a description of the strategic need, justification, objectives and outcomes for the project, taking into account existing and proposed transport infrastructure and services within the adjoining subregions, and as relevant the outcomes and objectives of relevant strategic planning and transport policies, including, but not limited to, <i>NSW 2021</i>, <i>NSW Government State Infrastructure Strategy</i>, <i>NSW Long Term Transport Master Plan</i> (December 2012), <i>draft Metropolitan Plan for Sydney</i> (March 2013) and any other relevant plans;</li> <li>an analysis of feasible alternatives to the carrying out of the project and project justification, including: <ul style="list-style-type: none"> <li>an analysis of alternatives/options considered having regard to the project objectives (including an assessment of the environmental costs and benefits of the project relative to alternatives and the consequences of not carrying out the project), and the provision of a clear discussion of the route development and selection process, the suitability of the chosen alignment and whether or not the project is in the public interest, and</li> <li>justification for the preferred project taking into consideration the objects of the <i>Environmental Planning and Assessment Act 1979</i>.</li> </ul> </li> <li>an analysis of the project including an assessment, with a particular focus on the requirements of the listed key issues, in accordance with clause 7(1)(d) of Schedule 2 of the Regulation (where relevant), including an identification of how relevant planning, land use and development matters (including relevant strategic and statutory matters) have been considered in the impact assessment (direct, indirect and cumulative impacts) and/or in developing management/ mitigation measures;</li> <li>a detailed description of the project and its relationship and/or interaction with the existing public transport service (rail and bus), bus stops, passenger facilities, location of routes, operator amenities, cyclist facilities, the proposed removal of trees and the location and operational requirements of construction compounds; and</li> </ul> </li> </ol>

	<ul style="list-style-type: none"> <li>• detail how the principles of ecologically sustainable development will be incorporated in the design, construction and ongoing operation phases of the project.</li> </ul> <p>Notwithstanding the key issues identified for consideration, the EIS must include an environmental risk analysis to identify the potential environmental impacts associated with the infrastructure.</p> <p>Where relevant, the assessment of key issues identified for consideration, and any additional significant issues identified in the risk assessment, must include:</p> <ul style="list-style-type: none"> <li>• adequate baseline data;</li> <li>• consideration of the potential cumulative impacts due to other development in the vicinity; and</li> <li>• measures to avoid, minimise and if necessary, offset the predicted impacts, including detailed contingency plans for managing any significant risks to the environment.</li> </ul>
<b>Key issues</b>	<p>The EIS must also address the following specific matters:</p> <p><b>Traffic and Transport</b> – including, but not limited to:</p> <ul style="list-style-type: none"> <li>• an assessment (including modelling) of the operational traffic impacts of the project, impacts (volumes, speeds, intersection performance, freight volumes, tolling etc) on the M1 (F3 Freeway), M2 and M7 Motorways, Pennant Hills Road and the surrounding local, regional and state road network;</li> <li>• an assessment of wider transport interactions (local and regional roads and public and freight transport);</li> <li>• an assessment of the induced traffic and operational implications for public transport (particularly with respect to strategic bus corridors and bus routes) and consideration of opportunities to improve public transport. The assessment must address impacts on cyclists and pedestrian access and safety (for those ancillary works around the Motorway corridor, as relevant) and consider opportunities to integrate cycleway and pedestrian elements with surrounding networks;</li> <li>• an assessment of construction traffic impacts, including a considered approach to route identification and scheduling of transport movements, the number, frequency and size of construction related vehicles (passenger, commercial and heavy vehicles, including spoil management movements), construction worker parking, the nature of existing traffic on construction access routes (including consideration of peak traffic times and sensitive road users, including emergency vehicles and buses), and the need to close, divert or otherwise reconfigure elements of the road network associated with construction of the project;</li> <li>• a strategy for managing construction traffic impacts, with a particular focus placed on those activities identified as having the greatest potential for adverse traffic flow, capacity or safety implications, and a broader, more generic approach developed for day-to-day traffic management; and</li> <li>• consideration of the cumulative construction impacts on residents/businesses taking into account other infrastructure projects that have either commenced construction, are preparing for construction or have recently been completed.</li> </ul>

	<p><b>Noise and vibration</b> – the including, but not limited to:</p> <ul style="list-style-type: none"> <li>• an assessment of the noise impacts of the project during operation, consistent with the <i>Road Noise Policy</i> (EPA, 2011) and <i>NSW Industrial Noise Policy</i> (EPA, 2000). The assessment must include specific consideration of impacts to receivers (dwellings, child care centres, educational establishments, hospitals, motels, nursing homes, or places of worship), including specific consideration of sleep disturbance and, as relevant, the characteristics of noise (eg. low frequency noise), and identify reasonable and feasible mitigation measures; and</li> <li>• an assessment of construction noise and vibration impacts, consistent with the <i>Interim Construction Noise Guideline</i> (DECCW, 2009) and <i>Assessing Vibration: a technical guideline</i> (DEC, 2006). The assessment must have regard to the nature of construction activities (including transport, tonal or impulsive noise-generating works and the removal of operational noise barriers, as relevant), the intensity and duration of noise and vibration impacts, the nature, sensitivity and impact to potentially affected receivers, the need to balance timely conclusion of noise and vibration-generating works with periods of receiver respite, and other factors that may influence the timing and duration of construction activities (such as traffic management), and mitigation and management measures. The assessment should present, as relevant, an indication of potential for works outside standard working hours, including predicted levels and exceedences, justification for the activity and discussion of available mitigation and management measures.</li> </ul> <p><b>Air Quality</b> – including but not limited to:</p> <ul style="list-style-type: none"> <li>• an assessment of construction and operation activities that have the potential to impact on local and regional air quality. The assessment should provide an assessment of the risk associated with potential discharges of fugitive and point source emissions, and include: <ul style="list-style-type: none"> <li>○ details of the proposed methods to minimise adverse impacts on air quality during construction, particularly in relation to mobile plant,</li> <li>○ air quality impact assessment and air dispersion modelling conducted in accordance with the <i>Approved Methods for the Modelling and Assessment of Air Pollutants in NSW</i> (EPA, 2005) where there is a risk of adverse air quality impacts, or where there is sufficient uncertainty as to the potential level of risk, including a particle assessment addressing PM10 and PM2.5 values, consideration of impacts from dispersal of TSP, CO, NO<sub>2</sub> and other nitrogen oxides, volatile organic compounds (eg BTEX), details of the proposed mitigation measures to address air quality in tunnels and in the vicinity of portals and any mechanical ventilation systems (ie ventilation stacks), including details of proposed monitoring,</li> <li>○ consideration of the requirements of <i>Environmental Health Risk Assessment: Guidelines for assessing human health risks from environmental hazards</i> (enHealth, 2012), and</li> <li>○ take into account any applicable advice provided by the Independent Advisory Committee on Tunnel Air Quality.</li> </ul> </li> </ul> <p><b>Soil and Water</b> - including but not limited to:</p> <ul style="list-style-type: none"> <li>• an assessment of construction and operational erosion and sediment and water quality impacts, taking into account impacts from both accidents and runoff (i.e. acute and chronic impacts), having consideration to impacts to surface water runoff, soil erosion and</li> </ul>
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	<p>sediment transport, mass movement, and urban and regional salinity. The assessment of water quality impacts is to have reference to relevant public health and environmental water quality criteria, including those specified in the <i>Australian and New Zealand Guidelines for Fresh and Marine Water Quality</i> (ANZECC/ARMCANZ 2000), and any applicable regional, local or site-specific guidelines;</p> <ul style="list-style-type: none"> <li>• groundwater impacts as a result of the project (including ancillary facilities such as the tunnel control centre and any deluge systems), considering local impacts along the length of the tunnels and impacts on local and regional hydrology. The assessment must consider: extent of drawdown; impacts to groundwater quality; discharge requirements; location and details of groundwater management and implications for groundwater-dependent surface flows, groundwater-dependent ecological communities, and groundwater users. The assessment should be prepared having consideration to the requirements of the <i>NSW Aquifer Interference Policy</i>; and</li> <li>• a Spoil Management Strategy detailing how spoil will be managed during construction, including likely volumes, likely nature and classification of excavated material, opportunities for recycling, potential disposal sites, stockpile management, and method of transportation.</li> </ul> <p><b>Community Liaison</b> – including but not limited to:</p> <ul style="list-style-type: none"> <li>• a Community Communication Framework for construction, identifying relevant stakeholders, procedures for distributing information and receiving/responding to feedback and procedures for resolving community complaints during construction. Key issues that should be addressed in the draft Strategy should include (but not necessarily be limited to): <ul style="list-style-type: none"> <li>○ air quality monitoring and management,</li> <li>○ traffic management (including property access, pedestrian access),</li> <li>○ landscaping/urban design matters,</li> <li>○ construction activities including out of hours work, and</li> <li>○ noise and vibration mitigation and management.</li> </ul> </li> </ul> <p><b>Urban Design and Visual Amenity</b> – including, but not limited to:</p> <ul style="list-style-type: none"> <li>• a consideration of the urban design and visual amenity implications of the project, including supporting infrastructure, during construction and operation. The assessment must identify urban design and landscaping objectives to enhance the northern and southern interchanges and tunnels, and must demonstrate how the proposed urban design elements of the project would be consistent with the existing and desired future character of the area;</li> <li>• identification and evaluation of the visual impacts and urban design aspects of the project (and its components) on surrounding areas;</li> <li>• a consideration of impacts on views and vistas, streetscapes, key sites and buildings;</li> <li>• measures to manage lighting impacts both during construction and operation; and</li> <li>• artists impressions and perspective drawings of the proposal from a variety of locations along the route.</li> </ul> <p><b>Biodiversity</b> – including, but not limited to:</p> <ul style="list-style-type: none"> <li>• an assessment of the potential ecological impacts of the project, with</li> </ul>
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	<p>specific reference to vegetation and habitat clearing, connectivity, edge effects, weed dispersal, bushfire risk, riparian and aquatic habitat impacts and soil and water quality impacts. The assessment must:</p> <ul style="list-style-type: none"> <li>○ make specific reference to impacts on threatened species and endangered ecological communities,</li> <li>○ have reference to the <i>Draft Guidelines for Threatened Species Assessment</i> (DEC/DPI, 2005), <i>Threatened Biodiversity Survey and Assessment: Guidelines for Developments and Activities</i> (DEC), the <i>Guidelines for Aquatic Habitat Management and Fish Conservation</i> (DPI, 1999) and any relevant draft or final recovery plans, and</li> <li>○ include details of any off-set measures that may be required, including demonstration that the measures are consistent with the <i>Principles for the use of biodiversity offsets in NSW</i> (DECCW, 2008).</li> </ul> <p><b>Land Use, Property and Socio-economic</b> - including but not limited to:</p> <ul style="list-style-type: none"> <li>• impacts on directly affected properties and land uses, including impacts related to access, land use, property acquisition and amenity related changes; and</li> <li>• social and economic impacts to businesses along Pennant Hills Road and the Pacific Highway, and the community associated with traffic, access, property, public domain and amenity related changes.</li> </ul> <p><b>Aboriginal Cultural Heritage</b> – including, but not limited to:</p> <ul style="list-style-type: none"> <li>• an assessment of the potential Aboriginal cultural heritage impacts of the project, including an assessment of objects, places of significance, natural and landscape values of the corridor and surrounding area, taking into account the <i>Draft Guidelines for Aboriginal Cultural Heritage Impact Assessment and Community Consultation</i> (DEC, July 2005); and</li> <li>• demonstrate effective consultation with Aboriginal communities in determining and assessing impacts and developing and selecting options and mitigation measures (including the final proposed measures).</li> </ul> <p><b>Historic Heritage</b> – including, but not limited to:</p> <ul style="list-style-type: none"> <li>• an assessment of direct and/or indirect impacts to state and local heritage. Where impacts to State or locally significant historic heritage is identified, the assessment shall: <ul style="list-style-type: none"> <li>○ outline the proposed mitigation and management measures (including measures to avoid significant impacts and an evaluation of the effectiveness of the mitigation measures) generally consistent with the guidelines in the <i>NSW Heritage Manual</i> (Heritage Office and Department of Urban Affairs and Planning 1996),</li> <li>○ a statement of heritage impact for all heritage items/areas to be impacted (including significance assessment), and</li> <li>○ consider the impacts from vibration, demolition, altered historical arrangements and access, and architectural noise treatment.</li> </ul> </li> </ul>
<b>Consultation</b>	<p>During the preparation of the EIS, you must consult with the relevant local, State or Commonwealth Government authorities, service providers, community groups and affected landowners.</p>



	<p>In particular you must consult with:</p> <ul style="list-style-type: none"> <li>• local, State and Commonwealth government authorities, including the: <ul style="list-style-type: none"> <li>○ Environment Protection Authority;</li> <li>○ NSW Health;</li> <li>○ Office of Environment and Heritage (including Heritage Division);</li> <li>○ NSW Office of Water;</li> <li>○ Department of Primary Industries;</li> <li>○ The Hills Shire Council;</li> <li>○ Hornsby Shire Council; and</li> <li>○ Ku-ring-gai Municipal Council.</li> </ul> </li> <li>• specialist interest groups, including Local Aboriginal Land Councils, Aboriginal stakeholders;</li> <li>• emergency services;</li> <li>• utilities and service providers; and</li> <li>• the public, including community groups and adjoining and affected landowners.</li> </ul> <p>The EIS must describe the consultation process and the issues raised, and identify where the design of the infrastructure has been amended in response to these issues. Where amendments have not been made to address an issue, a short explanation should be provided.</p>
<p><b>Further consultation after 2 years</b></p>	<p>If you do not lodge an EIS for the infrastructure within 2 years of the issue date of these DGRs, you must consult further with the Director General in relation to the preparation of the EIS.</p>