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Date: 10 June 2011

Our Ref: 10037 / 2008/042627-02

Your Ref: 08_0129 MOD 1

Ms Felicity Greenway A/Manager – Industry, Mining & Industry Projects Department of Planning & Infrastructure GPO Box 39 SYDNEY NSW 2001

Dear Ms Greenway

Re: Exhibition of Modification Request for Orica Ammonium Nitrate Expansion Project

Thank you for your letter to my colleague, Joanna Fielding (received by us on 5 May 2011) inviting a submission on this proposal. My thanks also to Hayley Rich for granting an extension to 10 June 2011 for our response.

Our comments are limited to some questions and observations about the Hazard and Risk Report contained in Orica's modification request.

- 1. In relation to the bulk ammonia storage tank (12,000 tonnes, -33°C):
 - a. the basis of consequence (vapour evaporation) estimates for the catastrophic failure of the tank is not stated
 - b. has Orica considered the issue of concrete bund overtopping in a potential catastrophic failure? If not, how will this affect its consequence estimates?
 - c. we understand that Orica is considering including a flare stack has Orica include consideration of a flare stack in the Hazard and Risk Report?
- 2. Has Orica assessed the integrity of the tank and concrete bund wall in the case of an earthquake?
- 3. In relation to incidents, we note that some relevant incidents have not been included eg the rupture of a cryogenic ammonia tank (roll over due to warm ammonia) in Jonova, Lithuania (USSR) on 20 March 1989 (see http://www.aria.developpement-durable.gouv.fr/ressources/aria 717 eng.pdf)

I hope these comments are of assistance. If you wish to discuss them, please contact Mr Ragu Nayak, Senior Safety Analyst, Major Hazard Facilities Team on 02 8281 6303 or raghava.nayak@workcover.nsw.gov.au.

Yours sincerely

Jan Douglas Team Manager

Major Hazard Facilities Team

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