

GUNNS LTD PULP MILL PROPOSAL

REQUESTS FOR ADDITIONAL INFORMATION

REQUEST DATE	30/07/07
AGENCY	Department of Tourism, Arts & the Environment
AGENCY CONTACT Position Email Telephone	Stewart Johnson Section Head, Major Projects, Environment Division Stewart.Johnson@environment.tas.gov.au (03) 6233 2780
NATURE OF QUERY	<p>The following information is <u>urgently</u> requested:</p> <ol style="list-style-type: none"> 1. Will a hydrogen peroxide plant be included in the proposed new configuration or will hydrogen peroxide now be purchased? There will not be any peroxide plant on site. Peroxide will be purchased. 2. The documentation for the IDP case refers to sodium dichromate being used to inhibit chlorine formation and the overall material balances quote 1.5 tpy usage. With the methanol route for chlorine dioxide now being proposed will dichromate still be a required raw material? Sodium dichromate will also be required for the method of producing chlorine dioxide using methanol. 3. Will the sodium chlorate be purified by crystallization before being used for chlorine dioxide synthesis in the case where there is no chlorate manufactured for sale? In the case of chlorine dioxide synthesis without the manufacture of merchant chlorate there will be no chlorate crystallization. 4. Please provide a new flowsheet showing the handling of the byproducts of the methanol process (formic acid and sodium sesquisulfate) and any new emission points and their flows from this segment of the operation.

	<p>In the generation of chlorine dioxide by the methanol process, formic acid can be produced. Some of this formic acid that can be formed can also react further to form carbon dioxide and hydrogen ion. Since formic acid has a similar vapour pressure to water, it is stripped from the generator and reabsorbed in the chlorine dioxide solution. Additionally methanol which does not react can escape with the chlorine dioxide generator gas and is dissolved in the chlorine dioxide solution. The effects of any formic acid and methanol content in the chlorine dioxide solution on the resulting bleach plant effluent parameters has already been taken into consideration in the final raw effluent loads from the bleach plant.</p> <p>Sodium sesquisulphate will be converted to neutral sodium sulphate in the chemical plant. There will be an approximate excess of 7.6 t/d Na₂SO₄. The plans are for this excess to be stored in a solid waste deposit in a stabilised form.</p>
<p>GUNNS LTD CONTACT Position Email Telephone Date Contact Provided</p>	<p>Wayne Chapman Wchapman@gunns.com.au 63355201 31 July 2007</p>
<p>DATE INFORMATION PROVIDED TO AGENCY CONTACT</p>	<p>31 July 2007</p>

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