

From: [Doris Yau](#)
To: [Philip Nevill](#)
Subject: RE: Dubbo Project Modification 1 (SSD 5251 - Mod 1) - Exhibition
Date: Wednesday, 13 April 2022 2:54:48 PM
Attachments: [image001.png](#)
[image003.png](#)

Hi Philip,

Thanks for the referral.

The modification appears to be related to layout changes on several operation of the mining site. In addition, it is going to construct and operate a new processing plant to produce hydrochloric acid (HCl) and sodium hydroxide (NaOH) to support its onsite operation. From the production of HCl and NaOH, it will generate toxic gas Chlorine and flammable gas Hydrogen. These are new source of hazards that have not been identified in the modification report. In addition, it is noted that production capacity of HCl and NaOH were provided in section 3.4.3, however, other details, such as storage buffers for these materials, are not provided. Given the location of the process plant is significantly away from Dubbo town (more than 12km), the modification may have little off-site concern. Notwithstanding, we will request the following information:

1. Besides Dubbo township, please clarify the closest residence located near the site boundary, in particular on the western side of the proposed Chlor-alkali plant.
2. It is noted that the proposed Chlor-alkali plant will have a production capacity of 100,000 tpa of 34% HCl solution and 95,000 tpa of 32% NaOH solution. These are significant production capacity. Please clarify whether the operation are intended to produce as demand and directly feed to the rest of the mining operation, or there will be buffer storage tanks on-site. If so, please provide the volume of the buffer storage tanks.
3. Please clarify whether concentrated HCl and concentrated NaOH will be produced as part of the process.
4. From Chlor-alkali plant, Chlorine and Hydrogen will be produced. Chlorine is understood to be used to produce HCl, but Hydrogen is a by-product. Please clarify:
 - a. The anticipated quantity of production and production rate for Hydrogen and Chlorine from the ion exchange membrane process
 - b. How these hydrogen will be handled on site (e.g. vented through a stack or feeding to other operations)
 - c. What are the mechanism in place to prevent release of hydrogen and chlorine from the Chlor-alkali plant.

Depending on the response, we may request additional information to clarify the risk to offsite.

Regards,
Doris

Doris Yau

Team Leader - Hazards

Industry Assessment | Department of Planning and Environment

4 Parramatta Square, 12 Darcy Street | Locked Bag 5022 | Parramatta NSW 2124

T: +61 2 9274 6110

E: doris.yau@planning.nsw.gov.au



*The Department of Planning and Environment acknowledges that it stands on Aboriginal land.
We acknowledge the traditional custodians of the land and we show our respect for elders past, present
and emerging through thoughtful and collaborative approaches to our work, seeking to demonstrate our ongoing
commitment to providing places in which Aboriginal people are included socially, culturally and economically.*

From: Philip Nevill <Philip.Nevill@planning.nsw.gov.au>
Sent: Friday, 25 March 2022 2:08 PM
Subject: Dubbo Project Modification 1 (SSD 5251 - Mod 1) - Exhibition

Dubbo Project Modification 1 – Project Layout and Processing Changes (SSD 5251 - Mod 1)

Good afternoon,

The Department of Planning and Environment has received a Modification Application and Modification Report for the Dubbo Project Modification 1 - Project Layout and Processing Changes (SSD-5251).

The Modification Report will be publicly exhibited from **30 March 2022** to **19 April 2022** and can be viewed at the following link:

<https://www.planningportal.nsw.gov.au/major-projects/projects/mod-1-project-layout-and-processing-changes>

The Department invites you to provide a submission on the modification application. Please see the attached exhibition notice for further information.

Any questions, please contact me on the details below.

Kind regards,

Philip Nevill
Senior Environmental Assessment Officer
Energy and Resource Assessment | Department of Planning and Environment
4 Parramatta Square | 12 Darcy Street | Locked Bag 5022 | Parramatta NSW 2150
T 02 82751036 E philip.nevill@planning.nsw.gov.au



*The Department of Planning and Environment acknowledges that it stands on Aboriginal land.
We acknowledge the traditional custodians of the land and we show our respect for elders past, present
and emerging through thoughtful and collaborative approaches to our work, seeking to demonstrate our ongoing
commitment to providing places in which Aboriginal people are included socially, culturally and economically.*