

10.16 Dangerous Goods

WorkCover Authority of NSW (WorkCover NSW) defines dangerous goods as:

substances or articles that present an immediate hazard to people, property or the environment. They include explosives; gases; flammable liquids; solids with a flammability hazard; oxidising substances; toxics; radioactive substances; corrosives and miscellaneous dangerous goods such as dry ice, molten bitumen and environmentally hazardous substances.

Dangerous goods and other hazardous materials are legislated under the *Work Health and Safety Act 2011* and the impending *Workplace Health and Safety (Mines) Act 2013* (which, upon commencement, will repeal the *Coal Mine Health and Safety Act 2002*).

Centennial Mandalong currently holds all necessary approvals under these Acts and maintains a system for managing dangerous goods and hazardous materials that satisfies the requirements of the legislation and relevant WorkCover NSW codes of practice.

As the Project is essentially a continuation of the existing Mandalong Mine operation, there is no plan to introduce additional classes of dangerous goods or hazardous materials. The dangerous goods and hazardous materials currently used at Mandalong Mine, which will continue to be used, are:

- Oils and greases, including engine coolants, hydraulic oil, transmission oil and gear oil;
- Diesel;
- Gases, including oxygen, acetelyne, nitrogen, helium, argon, methane and LPG;
- Mining chemicals (chemical inserts for roof support, mine grouts, shotcrete);
- Explosives (not stored on site permanently); and
- Other general use chemicals, including calcium lime rust remover (CLR), rat poison, general paints, coagulator, cleaning substances and dust suppression polymer.

The majority of dangerous goods will continue to be stored at the Mandalong Mine Access Site, however some substances, including bulk hydraulic oil, solsenic, diesel and nitrogen, will be stored at the proposed Mandalong South Surface Site. The Mandalong South Surface Site will have the same controls for dangerous goods as at the existing Mandalong Mine Access Site and will operate under the same management system.

With the continued implementation of best management practices for these materials within the Project Application Area, along with the effective implementation of the approved EMS and workplace health and safety management systems, the Project should not pose any significant risk in relation to its locality, to human health, life or property or the biophysical environment. Further, by employing the mitigation and management strategies identified in this EIS, the Project should not result in the emission of a polluting discharge in a manner which would post a significant risk or impact to the local environment or surrounding populace.

On this basis, and as concluded in **Section 6.4.7**, the Project is not considered to comprise a "potentially hazardous industry" or a "potentially offensive industry" within the meaning of these expressions in SEPP 33, and therefore a preliminary hazard analysis was not prepared.

10.16.1 Mitigation and Management

Centennial Mandalong will continue to employ the mitigation measures and management strategies currently adopted at the Mandalong Mine for the storage, handling and disposal of dangerous goods to minimise the risk to human safety, the local environment and mine assets. The following specific commitments are made:

Emergency Management System

Mandalong Mine's *Emergency Management System* and *Pollution Incident Response Management Plan* will be reviewed and updated for the Mandalong Southern Extension Project. The review will take into consideration relevant requirements under the impending *Workplace Health and Safety (Mines) Act 2013*, commitments made in this EIS and all relevant consent conditions.

Training and Awareness

The updated *Emergency Management System* and *Pollution Incident Response Management Plan* will be used to train and inform employees and contractors of the appropriate emergency procedures. The following excerpts from the *Emergency Management System* will be applied to dangerous goods awareness:

Employees will be provided with suitable training, education and/or information to gain or refresh the necessary skills and knowledge to competently perform their tasks and be aware of specific hazards to be managed. Refresher training will be provided to maintain an employee's skills and/or knowledge in a particular area, as appropriate.

All new employees and contractors, on commencing at the mine will be trained in the basic awareness of the hazards identified in the Emergency Management System.

Where appropriate the Coal Services Order 34 induction and training scheme will be used to guide development and implementation of the additional training requirements of the Emergency Management System.

General

- All dangerous goods will be transported to and from the Project Application Area by a licensed contractor in accordance with the relevant Australian Standards and codes of practice.
- All dangerous goods will be clearly labelled when delivered from the supplier and stored in suitable designated storage facilities in accordance with relevant Australian Standards and codes of practice.
- All on-site dangerous goods storage facilities will be regularly inspected and maintained to avoid leaks, spills and other faults.
- Safety data sheets (SDSs) will be maintained for all chemicals and dangerous goods in a number of locations in both hard copy and electronically for ease of access by the entire workforce. The SDSs will be checked against first aid supplies to ensure all first aid requirements are available on site.
- Spill kits will be provided and maintained on-site.
- Explosives will not be stored on site. When required, explosives will be delivered in purpose-built enclosures on the day of use and promptly removed from site after use.