

Group Standard

C8 – Explosives Standard

Group standard	Title: Explosives Standard			
	Function: Health, Safety, Environment (HSE)			
	No. of Pages: 3			
	Approved :	Effective:	Supersedes:	Auditable From:
	March 2018	April 2018	N/A	January 2019
Owner: Group Executive HSE		Approver: Rio Tinto Executive Committee		Target Audience: All Rio Tinto staff and each Rio Tinto Group business and function
Direct Linkages to other relevant Policies, Standards, Procedures or Guidance notes: Rio Tinto Management System Standard C3 Vehicles and Driving Standard Group Security Standard Group Procedure Explosives Management Group Procedure Business Resilience and Recovery				
Document purpose: To support implementation of the Group Safety policy by providing the minimum requirements for preventing fatalities and catastrophic events related to the management of explosives within Rio Tinto operations.				

C8 – Explosives Safety

Intent and scope

This standard applies to all Rio Tinto business units, projects and managed operations for explosives management.

The objective of this standard is to provide a control framework for the risks associated with explosives and includes:

- Transport (to the site and on-site);
- Acceptance at site;
- Storage;
- On-site manufacture and mixing;
- Handling and use;
- Management of misfires;
- Disposal;
- Response to an emergency; and
- Reconciliation, transfer of ownership and quality control.

Control requirements

Requirements in this standard apply in addition to any defined in the Rio Tinto Management System. At all times, the elimination of risk is the priority.

Planning

- 1.1. Each operation that accepts, manufactures, stores, handles, transports or uses explosives must have a nominated manager responsible for the implementation of this standard.
- 1.2. The nominated manager must:
 - a) identify the risks posed by the storage of explosives and by explosives activities;
 - b) maintain an Explosives Management Plan that sets out how the risks associated with the storage of explosives and explosives activities are to be controlled;
 - c) ensure all incidents or deviations from the process involving explosives (e.g. misfires or unreconciled products) are reported and investigated in line with the Group requirements for incident reporting and investigation; and
 - d) Establish an emergency response plan for potential explosive incident scenarios, including but not limited to emergency response equipment, training and competency requirements and notification protocols.

Implementation and operation

- 2.1. The Explosives Management Plan must meet the requirement of the local jurisdiction and the Explosives Group Procedure. The plan must:
 - a) be designed by a competent / authorised person; and
 - b) be audited and reviewed by an independent competent person or group at least every two years.
- 2.2. Transport, storage and stacking of all explosive equipment must comply with relevant local and international classifications of dangerous good classes.
- 2.3. There must be a process to verify receipt during the transfer of ownership of explosive agents (acceptance).

2.4. There must be adequate physical security measures in place to prevent unauthorised access, theft or sabotage, as defined in the Group Procedure Management of Explosives.

Monitoring

3.1. Where an explosives manufacturing, mixing and storage facility is established within a Rio Tinto operation, the nominated manager must:

- a) ensure the facility has been designed by a competent / authorised person or group;
- b) establish an operation and maintenance plan; and
- c) implement a process to verify, monitor and improve the adequacy of controls.

Competency

4.1. All persons required to transport, handle, manufacture, use or dispose of explosives must be appropriately trained, deemed competent and authorised.