

CMR 008 – Explosives Standard
Doc No: GRP-CMR-STD-008

Document Information Sheet				
Title: CMR 008 – Explosives Standard				
Document No: GRP-CMR-STD-008				
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Date: 27/11/2020				
Revision Record:				
Rev	Date	Description	Revised By	Approved By
0	27/11/2020	CMR format & content review	S. Baldwin	M. De Jonge
1	15/12/2022	Update document with new logo & doc numbering	K. McCready	D. Crooks

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1. Purpose

MPC Kinetic (MPK) consider the use of explosives as one of its highest risk activities undertaken within its operations. Within the business these high-risk activities are referred to as Core Mandatory Requirements (CMR's). CMR's focus on the critical controls required to manage high-risk activities and allow our personnel to make informed decisions to manage those risks effectively.

The purpose of CMR 008 – Explosives Standard is to provide guidance on how to

- Manage the risks associated with the use of explosives, which is supported by the explosives bow tie risk assessment
- Implement the Explosives Core Mandatory Requirement (CMR). This is supported by GRP-CMR-FRM-008 Explosives Critical Controls.

2. Scope

The scope of this standard applies to all MPK Employees and Sub-Contractors who are involved with explosives activities for MPK operations within all MPK controlled work sites.

Note: works outside of MPK control is not considered in scope

3. Reference Documents

Document Name
GRP-CMR-FRM-008 Explosives Critical Controls
GRP-TRA-PRO-001 Training Procedure

4. Critical Control Implementation

4.1 Manage the Safe Detonation of Explosives

4.1.1 Develop Safe Fire Procedures

The denotation of explosives must be performed using approved safe fire procedures.

As a minimum, the procedures must contain:

- The steps to safely do the work
- Hazards specific to the job
- Roles and responsibilities
- Training requirements
- Security of explosive materials

4.1.2 Minimum Licencing & Training Requirements

All persons must be licenced and trained to handle explosives. The licencing requirements must be confirmed based on the state legislative requirements.

Licensing requirements will require the persons to be:

- At least 18 years of age
- Have appropriate training
- Have an explosive security clearance check
- RIIBLA205 Store, Handle and Transport Explosives
- Undertake relevant verification of competency assessment

All handlers of explosives must be trained in the approved safe-fire procedures.

Refer: GRP-TRA-PRO-001 Training Procedure

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4.1.3 Use Safety Tubes

Safety tubes must be used when:

- Arming explosives

Safety tubes must be designed for the explosive impact.

4.1.4 Establish Exclusion Zones

Exclusion zones must be established by:

- Placing warning signs at all access points
- Setting up barriers to prevent access
- Communicating the exclusion area to the relevant site personnel

Only authorised personnel may enter the exclusion zone until the “all clear” is given.

4.1.5 Actions to be Taken Post-Fire

Upon retrieving explosive devices:

- An inspection must be conducted by an approved handler to make sure all charges have fired
- No one must enter the exclusion zone until the "all clear" signal is given

4.1.6 When Drill & Blast Misfire Happens

If a misfire happens, the exclusion area must be maintained.

No attempt must be made to extract explosives from any charged or misfired hole. A new primer must be put in and the hole re-blasted.

No drilling or digging must be done until all misfired holes have been detonated.

The Authorised Blaster must determine when the area is safe.

4.1.7 When a Wireline Misfire Happens

If a misfire happens, the exclusion area must be maintained. Explosives are brought to surface.

Visual verification of fire or misfire must be undertaken.

Misfired devices need to be handled as per approved safe fire procedures.

Authorised handlers will determine when the area is safe.

4.2 Procuring Explosive Materials

When procuring explosive materials, you must confirm they come from a licensed supplier.

4.3 Requirements for Storing Explosives

4.3.1 Storage Container Requirements

Containers used to store explosives must:

- Meet the relevant design standard
- Be labelled according to the legislative requirements
- Be locked when not in use

The keys for the containers must be kept in a secure location. Explosives and denotators must be stored in separate containers.

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4.3.2 Separate Explosives from Incompatible Materials

The design and layout of storage facilities must separate explosive materials from:

- Incompatible hazardous materials
- Potential ignition sources

4.4 Manage Transportation of Explosives

4.4.1 Transport Vehicle Requirements

Vehicle requirements for transporting explosives, include:

- All vehicles must have warning signage attached according to the legislative requirements
- The quantities of explosives must not exceed the legislative limits

4.4.2 Driver Licencing Requirements

All Drivers transporting explosives must be licenced. The licensing requirements must be confirmed based on:

- State legislative requirements
- Type and quantity of explosives being transported

Drivers must always have their license available when transporting explosive materials.

4.5 Emergency Response Requirements

4.5.1 Develop Procedures

Emergency response procedures must be developed based on the risks associated with the work activity.

The potential emergencies related to explosives, include:

- Fire
- Explosion

4.5.2 Implement Procedures

Emergency response procedures must be implemented on-site. This includes:

- Communicating procedures to the relevant site personnel
- Confirming or arranging specific emergency response training
- Arranging relevant emergency equipment

The emergency procedures must be checked they are working effectively. This includes:

- Undertaking drills or scenario testing
- Conducting regular inspections