

## Road marking vehicles – static electricity

CAMs # 478614

### 1. Relevant To

This alert is important for all Fulton Hogan & Coastline departments that operate road marking vehicles.

### 2. Critical Risk – Explosion

People working in our road marking business have raised concerns around the risk of static electricity build up when transferring paint into storage tanks on our road marking vehicles.

Paint is often transferred between road marking vehicles using a pneumatic pump, or gravity fed from a 1000l container. The transfer process can generate static electricity. If a spark sets a paint tank on fire, the tank could explode – seriously hurting anyone working nearby.

It's important to do what we can to manage this risk.



### 3. Background

Solvent based paint is a **Class 3 flammable liquid**, and requires controls to prevent static electricity during loading and transfer. Fulton Hogan uses both solvent based and waterborne paint.

A Safety Improvement Team (SIT) was set up last year to find a practical way to manage this risk. They have completed their work and the fix is simple and inexpensive.

### 4. Findings

The solution is to permanently fit a retractable static grounding reel to the road marking vehicle.

Before paint transfer, the operator clips the grounding lead to the paint container or vehicle that the paint is being transferred from. This prevents the buildup of static electricity.

These reels will be fitted to **all** road marking vehicles that spray paint. This will ensure that vehicles can use both solvent and waterborne paints, and can easily transfer between regions.

The static grounding reel will be tested as part of the 6 monthly certified safe for road marking trucks and B type paint machines.



## 5. Mandatory Requirements

Please complete the following mandatory requirements before 1<sup>st</sup> January 2026.

5.1. Permanently fit a retractable static grounding reel to all road marking vehicles.

NB: Specifications and supplier details have been sent to all workshops.

5.2. Discuss this RED Alert with your roadmarking teams and show them how to:

- Attach the static grounding reel “crocodile clip” to a clean metal part on the vehicle or container the paint is being transferred from.
- Ensure the static grounding reel “crocodile clip” is always connected to a suitably clean metal part when paint is being transferred.

Please minute these discussions and add a copy of them to attendees’ training records.

## 6. Revision History

Date	Author	Brief Description of Change
04/07/2025	L Wright, T McLellan	First Draft
07/07/2025	T Talbot	Second Draft

## 7. Closeout Requirements

Please discuss this Red Alert with your teams, complete the items below and return to your Safety Manager. They will collate all responses for the business unit and send a single confirmation to [nzincident@fultonhogan.com](mailto:nzincident@fultonhogan.com) before (1<sup>st</sup> September 2025)

7.1. What date was this Red Alert communicated to the workplace: \_\_\_\_/\_\_\_\_/2025

7.2. Could this incident occur in your Region/Project? (Circle your answer below)

**YES** If Yes, please answer questions 7.3 & 7.4

**NO** If No, please answer question 7.5

7.3. Have all the actions and recommendations been implemented? (Circle your answer below)

**YES** If Yes, please answer question 7.4

**NO** If No, please answer question 7.5

7.4. Are these measures sufficient to eliminate or reduce the risk of an incident (or similar) described in the alert from happening again? (Circle your answer below)

**YES** or **NO**

If No, please raise a CAMs case listing the required actions and accountabilities to be taken in order to eliminate or reduce the risk. Record the CAMs number below:

**CAMs Case Number:** CAMs-\_\_\_\_\_

7.5. Please explain why this incident could not occur within your region / project.

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In signing this document, I confirm that the actions above have been completed in this region/project.

Region / Project: \_\_\_\_\_

Region / Project Manager Name: \_\_\_\_\_

Signature: \_\_\_\_\_ Date: \_\_\_\_\_