

Network Safeworking Rules and Procedures

Using Railway Track Signals

Procedure Number: 9004

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Document History

Version	Effective Date	Pages updated	Reasons for change
2.02	21 11 2022	All	Glossary Terms and general corrections

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1. Purpose

This procedure outlines how *Railway Track Signals* are used to warn *Rail Traffic Crews*.

2. General

Railway Track Signals consist of an orange plastic disc containing a chemical composition and are sealed. A metal clasp is attached and is used to *Secure* the *Railway Track Signal* to the *Track*.

When the *Rail Traffic Travels* over the *Railway Track Signal*, a chemical reaction takes place due to the pressure and an explosion is created.

Railway Track Signals are used to protect workers, worksites and *Obstructions* on *Track* in the *Network*.

The number of *Railway Track Signal* explosions together with associated signs indicate what *Rail Traffic Crews* must do.

3. Railway Track Signal Response Table

Figure 9004-1 *Railway Track Signals* response table.

Number of explosions	Rail Traffic Crew response
Two	Sound one long <i>Whistle</i> . Reduce to and <i>Travel</i> at <i>Restricted Speed</i> . Look for and obey any warnings. In the absence of any warnings or <i>Handsignal</i> , be prepared to Stop within 2500 metres.
Three	Sound one long <i>Whistle</i> . Stop immediately. If not advised by a <i>Protection Officer</i> as to the cause or cause is unknown, contact the <i>Network Controller</i> .

3.1 Responding to a Single Railway Track Signal

If *Rail Traffic* has not previously travelled over any *Railway Track Signals* and explodes a single *Railway Track Signal*, the *Rail Traffic Crew* must:

- sound one long *Whistle*;
- reduce to and *Travel at Restricted Speed*;
- look for and obey any warnings;
- tell the *Network Controller*, and
- be prepared to stop within 2500 metres, in the absence of any warning or *Handsignal*.

If *Rail Traffic* has already travelled over two *Railway Track Signals* and explodes a single *Railway Track Signal*, the *Rail Traffic Crew* must:

- sound one long *Whistle*.
- stop immediately.
- contact the *Network Controller*, if not advised by a *Protection Officer* as to the cause.

4. Placing Railway Track Signals



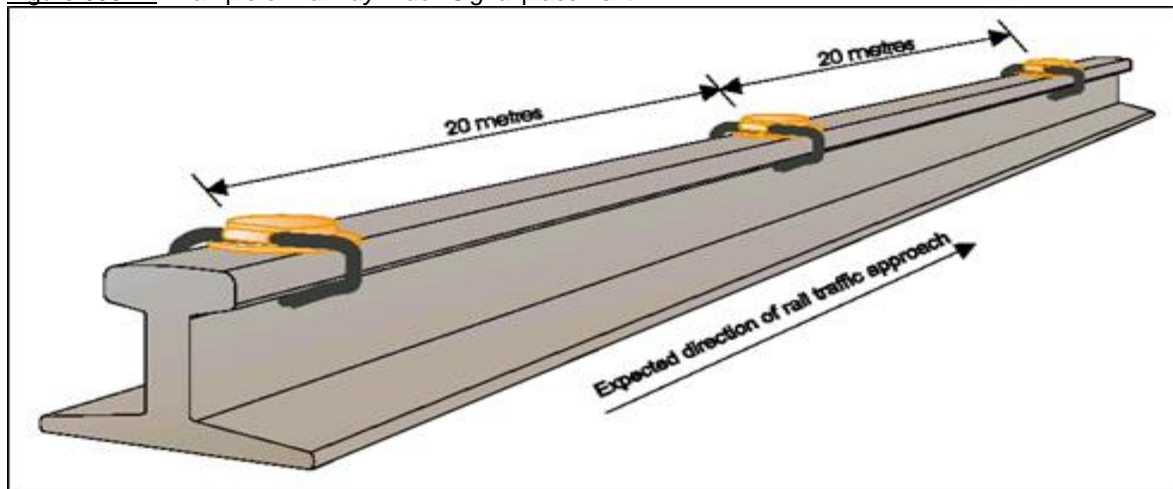
WARNING: Except in *Emergencies*, do not use *Railway Track Signals*:

- **underground;**
- **in tunnels;**
- **in steep-sided cuttings;**
- **within 20 metres of workers; or**
- **where prohibited by *Arc Infrastructure*.**

Competent Workers must place *Railway Track Signals*:

- on all rails of the line to be *Protected*, including all 3 rails where there are *Dual Gauge Tracks*:
 - opposite each other to ensure they explode simultaneously;
- on the departure side of *Fixed Signals*;
- on the approach side of Stop signs;
- centrally on the railhead with the clasp facing towards the expected direction of *Rail Traffic* approach;
- by bending the clasps around the railhead; and
- 20 metres apart to ensure distinct and separate explosion.

Figure 9004-2 Example of *Railway Track Signal* placement.



5. Placing of Railway Track Signals Near Public Crossings and Platforms

Railway Track Signals must not be placed within 50 metres of any *Level Crossing* or *Platform*. Where necessary, the distance must be increased beyond the *Level Crossing* or *Platform*.

6. Removal of Unused Railway Track Signals

Where the placement of *Railway Track Signals* required for *Protection* no longer exists, all unused *Railway Track Signals* must be removed from all rails and accounted for.

7. Storing Railway Track Signals

Competent Workers must:

- return unused *Railway Track Signals* to their containers; and
- keep packed *Railway Track Signals* in a *Secure* place.

8. Dealing with Failed Railway Track Signals

If *Railway Track Signals* do not explode when run over by *Rail Traffic*:

- leave failed *Railway Track Signals* on the rail;
- report the failure immediately to a Supervisor; and
- if necessary, place new *Railway Track Signals* on the railhead.



NOTE: When dealing with failed *Railway Track Signals*, *Competent Workers* must refer to the *Manufacturer's Material Safety Data Sheet*.

9. References

Nil

10. Effective date

21 November 2022