

OTPR 720

Protecting Trains

Applicability

NSW SMS

Publication Requirement

Internal Only

Document Status

Issue/Revision #	Effective from
1.0	1 January 2019

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Introduction

Trains require protection in all circumstances if:

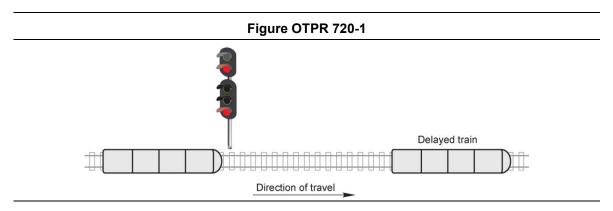
- they need assistance, or
- they *obstruct*, or might obstruct, *adjacent* lines, or
- the line is obstructed.

Trains may require protection if delayed in *track-circuited territory*.

Protecting a delayed train in track-circuited territory

Train Crew

- 1. If possible, get the *Signaller's* assurance that immediately following *rail traffic* has been or will be stopped.
- 2. No further protection is necessary if:
 - the Signaller has given an assurance that immediately following rail traffic has been or will be stopped
 - a train or track vehicle is standing at a signal at STOP behind the delayed train, and the Driver or track vehicle operator has given an assurance that they will not pass that signal.
- Place protection if:
 - the Driver or track vehicle operator has not given an assurance that rail traffic standing at the signal behind the delayed train will not pass the signal, and
 - you cannot speak to the Signaller to get their assurance that immediately following rail traffic has been or will be stopped.



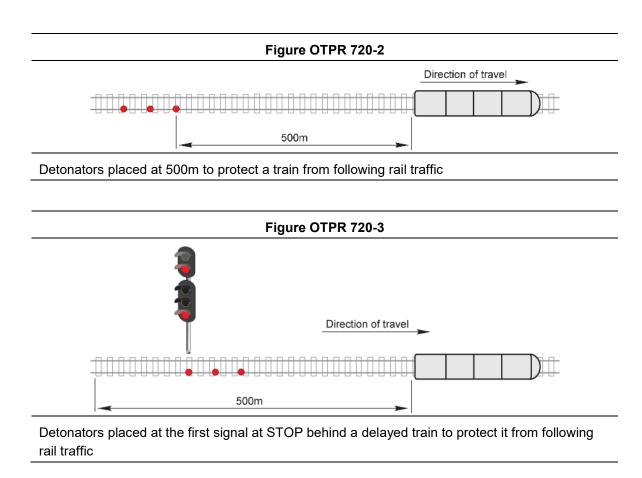
Rail traffic standing at a signal at STOP with assurance from the Driver or track vehicle operator. No further protection of the delayed train is necessary.

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- 4. Place three *detonators* on the line at the nearer of:
 - o 500m behind the delayed train, or
 - o the first signal at STOP behind the delayed train.



5. Return to the train.

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Protecting a train needing assistance

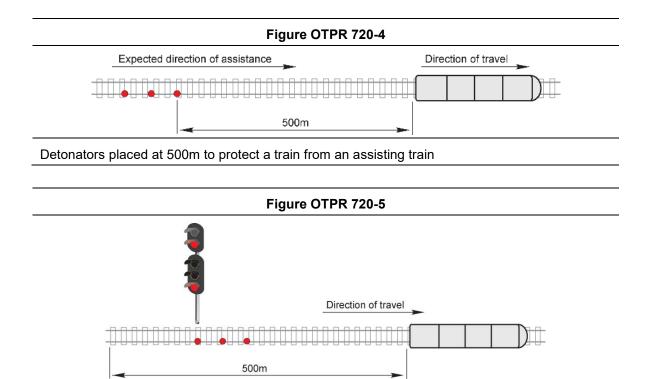
A stopped train that needs assistance from another train needs to be protected.

Train Crew

- 1. Secure the train.
- 2. Tell the *Train Controller* that this has been done.
- Ask the Train Controller about the direction from which assistance will approach.

Assisting from behind

- 4. No further protection is necessary if:
 - o the assistance will come from behind, and
 - another train is standing at a signal at STOP within 500m behind the train needing assistance.
- 5. If there is no train standing at a signal at STOP within 500m behind the train needing assistance, place three detonators on the line at the nearer of:
 - 500m behind the train, or
 - the first signal at STOP behind the train.



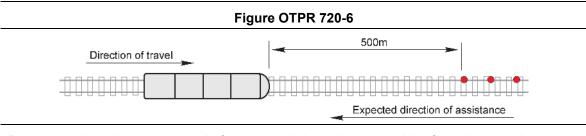
Detonators placed at the first signal at STOP behind a train to protect it from an assisting train



- 6. Tell the Network Control Officer the location of the protection.
- 7. Return to the train.

Assisting from the opposing direction

§. If assistance is expected from the opposing direction, place three detonators on the line 500m forward of the train in the expected direction of assistance.



Detonators placed to protect a train from an assisting train approaching from the opposing direction

- 9. Tell the Network Control Officer the location of the protection.
- 10. Return to the train.

Train Controller

11. If advice is not included in a *Proceed Authority*, give the Drivers of assisting trains a *Condition Affecting the Network* (CAN) warning. Include the location of the train needing assistance and the location of the protection.

Protecting adjacent or obstructed lines

Protection is needed for obstructed lines, or for the lines adjacent to *disabled* rail vehicles if the vehicles are or might be *foul* of the lines.



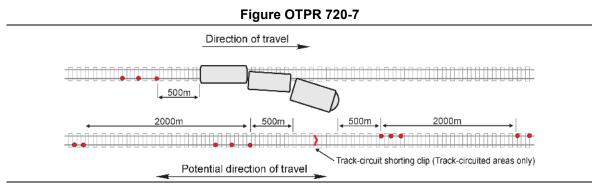
If possible, give an emergency call to warn approaching rail traffic.

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Train Crew or Qualified Worker

- 1. Ask the Train Controller to:
 - o stop approaching rail traffic, and
 - o set signals at STOP with blocking facilities applied.
- 2. Get an assurance that other trains in the sections have been stopped.
- 3. If the Train Controller cannot give an assurance that rail traffic has been or will be stopped:
 - place three detonators on the affected adjacent lines, 500m from the obstructing train in the directions of possible approach by rail traffic, and
 - place two detonators on the affected adjacent lines at a further 2000m in the directions of possible approach by rail traffic.



Detonator placement to protect an adjacent line from an obstructing train in bidirectional double-line territory

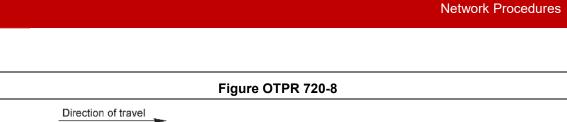


If the adjacent lines are *bidirectional*, place protection in both directions.

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Return to the train.

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Direction of travel

Detonator placement to protect a derailed train and the adjacent line

Train Crew

- 1. Talk to the Train Controller and:
 - ask them to have controlled signals on affected lines set and kept at STOP with blocking facilities applied, and
 - get an assurance that other trains in affected sections have been stopped.

Related OTHR Network Procedures

OTPR 709	Using detonators
OTPR 712	Protecting work from rail traffic on adjacent lines
OTPR 721	Spoken and written communication

Effective Date

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