

# Engineering Procedure

## Signalling

### CRN SP 005

## DAMAGE TO SIGNALLING EQUIPMENT INCLUDING CABLE

Version 1.3

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**Owner: Principal Signal Engineer**

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# 1 General

It is essential that repair of damage to vital signalling equipment including cables is completed to be safe and secure.

Details of incidents of damage in involving the replacement, reconnection or readjustment of vital signalling equipment including cables shall be reported to the Signal Maintenance Supervisor and Signal Maintenance Engineer who shall satisfy him/herself that the matter has received appropriate attention and shall instigate corrective action to prevent a recurrence, as required.

The Signal Maintenance Supervisor shall maintain a record or database of damage to vital signalling equipment including cables, recording full details of the incident and personnel involved, and the repairs required and affected.

Repairs shall be carried out by suitably accredited personnel to proper standards and to the satisfaction of the Signal Maintenance Supervisor and Signal Maintenance Engineer.

Repairs shall be carried out in accordance with the respective safeworking procedures for working on signalling equipment.

The repaired equipment shall be tested by a suitable accredited person to ensure that the function operates correctly and reliably. Signalling cable repairs shall be insulation tested.

When repairs to damaged signalling equipment have been effected, a Detailed Report and/or "Damage to Signalling and Safeworking Equipment by Other Parties" forms (SF SP005/A and SF SP005/B) as applicable, shall be submitted to the Signal Maintenance Supervisor by the senior signalling employee attending.

Full details of the cause of the damage shall be given. Units of plant owned or operated by either CRN or other parties shall be included in the report as well as the name of the operator.

Whenever temporary repairs are made to vital items of signalling equipment including cables then a report of the nature of the repairs is to be made to the Signal Engineer so that the Defect Work Order can be raised to manage the defect and track when permanent repairs are made.

If a temporary repair has been made, the Signal Maintainer shall ensure that permanent repairs are carried out at the earliest opportunity and advise the Signal Maintenance Supervisor when the works have been completed and the Defect Work Order closed.

Where accredited persons other than the local Signal Maintainer attend a failure or damage incident and carry out temporary repairs, a copy of the Detailed Report is to be forwarded to the local Signal Maintenance Supervisor describing the defect/damage and the temporary repairs made so a Defect Work Order can be raised to ensure that permanent repairs are made.

A record of temporary repairs required to be made permanent shall be kept by the Signal Maintenance Supervisor and Signal Maintenance Engineer.

Signalling Forms

**JHG-CRN**

**Signalling Form**

**SF SP005/A Rev.1.0**

**DAMAGE TO SIGNALLING AND SAFEWORKING EQUIPMENT BY OTHER PARTIES**

LOCATION: \_\_\_\_\_

EQUIPMENT: \_\_\_\_\_

Date of accident: \_\_\_\_ / \_\_\_\_ / 19\_\_\_\_ Time \_\_\_\_am/pm Time of call \_\_\_\_am/pm

Time attended at scene: \_\_\_\_am/pm Date remedied: \_\_\_\_ / \_\_\_\_ / 19\_\_\_\_ Time remedied \_\_\_\_am/pm

OTHER PARTIES INVOLVED: \_\_\_\_\_

(Full name and address, including Vehicle Registration where applicable, name both owner and driver)

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

LICENCE No. OF DRIVER \_\_\_\_\_ POLICE OFFICER I/C INVESTIGATIONS \_\_\_\_\_

FULL DESCRIPTION OF HOW ACCIDENT OCCURRED: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

NAME AND CLASSIFICATION OF OFFICER I/C REPAIRS: \_\_\_\_\_

\_\_\_\_\_

DESCRIPTION OF EQUIPMENT DAMAGE & REPAIRS REQUIRED (Refer SF SP005/B)

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

WORK ORDER No.: \_\_\_\_\_

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

Date \_\_\_\_\_

CERTIFIED CORRECT: \_\_\_\_\_

(Controlling Officer)

(Covering Report Attached)

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**Signalling Form SF SP005/B Sh 1 of 2 Rev.1.0**

**DAMAGE TO SIGNALLING AND SAFEWORKING EQUIPMENT BY OTHER PARTIES**

(Checklist for use in case of derailment or major incident)

**INCIDENT DETAILS**

Incident			
Location:			
Date:		Time:	
Report Compiled by (Name):			
Position:		Location:	

**THROUGH SERVICES**

Air Lines	
Cable Troughing (GST)	
GLT	
Cable Pits	
Cable - Multicore	
Cable - Power	
Cable - Communications	
Aerial Line Wires / Cable	
Line Poles	

**POINTS EQUIPMENT**

Channel Iron	
Cranks, Compensators Etc.	
Levers, Frames	
Point Machines	
Derails	
Detectors	
Locks (Facing Point, Plunger, Bracket)	
Releasing Switches	
Point Blades	
Extension Irons	
Spreaders, Rods, Etc.	
Clamp / Claw Lock Mechanism	
ESML	

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**Signalling Form SF SP005/B Sh 2 of 2 Rev.1.0**  
**EQUIPMENT HOUSINGS**

Termination Boxes / 'DB's	
Equipment /Level Crossing Hut	
Location Cases	
Earthing Rods, Mats	

**SIGNAL EQUIPMENT**

Signal Gantries	
Running Signals	
Shunt Signals	
Signal Lights	
Point Indicators	
Train Stops	
Employee Warning Lights	
Buffer Stop Lights	
Notice Boards	
Telephones	
Trackside Monitoring Equipment	

**LEVEL CROSSING EQUIPMENT**

Lights Stand	
Lights	
Boom Lights	
Boom Mechanism	
Booms	
Pedestrian Barriers / Lights	
ARMCO Guardrails	

**TRACK CIRCUITS**

Insulated Joints	
Bootleg Risers	
Matching Transformers	
Track Connection Cables	
Series Bonds, Parallel Bonds	
Feed / Relay Fuses	
Impedance Bonds	
Solar feed Units	