

## S&C – Cast Crossing - Crack Monitoring

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### Scope

Includes: Monitoring of existing cracks in Cast Crossing & Cast Vees in the track awaiting removal or repair  
Excludes: Liquid Penetrant Testing (LPT) & Magnetic Particle Testing (MPT)

### Preparation

Tools, equipment and plant items required but not limited to:

- Soft dust brush
- Inspection mirror
- Torch (for shaded areas and poor light conditions)
- Magnifying glass
- Tape measure
- Rule
- Rail marking paint
- Copy of minimum action sheets from NR/SP/TRK/054 & NR/SP/TRK/001

Work planning considerations:

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### Method

1. Measure and check the size of any existing defect against the previous record.
2. For cracks seen coming from behind a fishplate, the fishplate shall be removed to enable full inspection of the crack.
3. If the crack size has worsened, check the minimum actions are still in accordance with NR/SP/TRK/054 and if necessary apply any new actions.
4. If necessary re-mark the defect using rail marking paint and make a note of the new size and record details.
5. Check the condition of the timbers/bearers and for any evidence of voiding in the immediate vicinity of the defect.
6. Check top and line notifying the Line Manager of any track condition deterioration.
7. Complete and submit form TEF 3031 to the Line Manager.

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### **References**

Supports Ellipse Standard job

- 009011 S&C – Cast Crossing - Crack Monitoring

If applicable refer to the following associated documents:

- NR/SP/TRK/001 Inspection and Maintenance of Permanent Way
- NR/SP/TRK/054 Inspection of Cast Crossing & Cast Vees in the track
- NR/SP/TRK/056 Rail Testing – Non Ultrasonic Procedures
- NR/L3/TRK/002/F03 Track – Renew Fishplate
- TEF 3031 Cast Crossing Inspection form
  
- Risk Control Sheets:
- NR/L3/MTC/0002/TK000 Generic Track Risks