Track - Preliminary Survey for CWR Stressing

Scope

Includes: Plain line and S&C
Excludes: Reactive work (i.e. broken or defective rail management)

Preparation

Tools, equipment and plant items required but not limited to:
- 20/30m tape measure
- Note book
- Pencil
- Wax crayon/marker

Work planning considerations:
- Desktop review of Ellipse, Stressroute NR, GEOGIS, Raildata, RDT, CDDS and local curve registers to establish data relative to site of planned stressing
- Signalling arrangements
- Traction bonding arrangements

Method

1. Check track layout is to design line and level and fully ballasted.
2. Confirm all track components are suitable for stressing.
3. Identify rail fastening(s); including any seized, defective or missing.
4. Consider the requirement for replacement pads and insulators.
5. Check for defective sleepers, timbers, baseplates, cracked washers and missing or loose nuts and bolts.
6. Identify where short term ballast removal is needed to assist stressing work. This is to prevent potential obstruction to the free movement of the unclipped rail once rollers are installed.
7. Check high tensile steel bolts are fitted (to IBJs, stress transfer blocks, etc.) and correctly torqued.
8. Identify any defective rails and IBJs to be replaced.
9. Check adjustment switches for the need to lubricate and adjust. Identify any supporting sleepers requiring reposition.
10. Select and mark the position and lengths of anchor points (ensuring correct length for component condition), lengths of rail to be pulled and pulling points.
11. Identify rail section type and compatibility for welding.
12. Identify existing weld positions and ensure minimum weld to weld/joint distance can be maintained.
13. Take account of the influence of cuttings, embankments, the period of the year and time of day, may have on rail temperatures during stressing.

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14. Establish time required to complete the overall work, including possession, isolations management and signalling work. If OLE isolation is not required, plan for rail continuity bonding to be fitted before cutting rails

References

Supports Ellipse Standard job
- 009062 Track – CWR – stressing

If applicable refer to the following associated documents:
- NR/SP/TRK/0011 Continuous Welded Rail (CWR) Track
- NR/PRC/MTC/TK0081 Management of rail welding
- NR/GN/TRK/7001/TWI2P013 How to understand stressing
- NR/GN/TRK/7001/TWI2P015 How to carry out stressing

- Risk Control Sheets:
- NR/L3/MTC/0002/TK000 Generic Track Risks
- NR/L3/MTC/0002/TK407 CWR Stressing

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