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| RAIL FLAW REPORT | | | | | | | | | | | | | | | | | | | | | |
| Information to be completed as per relevant inspection | | | | | | | | | | | | | | | | | | | | | |
| Provisioning Centre / Project: | |  | | | **Work Group / Contractor:** | |  | | | | | **Date**: | | | | |  | | | | |
| Inspectors Name: | |  | | | **Signature:** | |  | | | | | **Km:** | | | |  | | | | | |
| Weld ID Number: | |  | | | **Rail Leg:** | | UP | DN | | | **Method of Detection:** | | | | AK | | | | HT | | VIS |
| Welder ID Number: | | |  | | **Temperature:** | |  | | °C | **Rail Section:** | | | | 60kg | | | | 53kg | | | 47kg |
| Weld Type: | T – Thermic | | | FB – Flash Butt | | WF - Wire Feed | | | | | **Rail Type:** | | SC – Standard Carbon | | | | | | | HH – Head Hardened | |

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| Main Lines: | Up Main | | | Dn Main | | | Dn Coal | | | Up Coal | | Single Main | | | Relief Line | | \_\_\_\_\_\_\_\_\_\_ | |
| Line: | |  | | | Location: | | | |  | | | | KM2ME: | | |  | | |
|  | | | | | | | | | | | | | | | | | | |
| Loops, Turnouts and Sidings: | | | | | | | | Loop | | | Turnout | | | Siding | | | |  |
| Location: | |  | | | | | | | | Loops/Siding name or points number: | | | |  | | | | |
|  | | | | | | | | | | | | | | | | | | |
| Turnout Information | | | | | | Track from: | | | |  | | | | Track To: | | | |  |
| Turnout Component: | | |  | | | | | | | Modifier Code (R/L): | | | |  | | | | |

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| Defect Details: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Internal Rail: | | TD | TDX | | | | | HSH | | | | VSH | | PR | | | HW | | | FW | | | HSW | | | | | VSW | | | BHC | |
| Size Measurements: | | Length | |  | mm | | | | Width | | |  | mm | | | | Height | | | |  | | | mm | | | Defect Other: \_\_\_\_\_\_\_\_\_ | | | | | |
| Size Ranking: | | *As per ARTC Section 1 guide* | | | | | | | | | | E | | | Small | | | | | | Medium | | | | | | | | Large | | | |
| Alignment: | | Peak | | | |  | | | | mm | | Gauge Narrow | | | | | |  | | | | mm | | | Weld Ramp Angle | | | | |  | | µra |
| As per electronic straight edge | | Dip | | | |  | | | | mm | | Gauge Wide | | | | | |  | | | | mm | | |
| Weld Visual: | EB | | Other: \_\_\_\_\_\_ | | | | | | | | **Weld Cleanliness:** | | | | | 3 | | | 4 | | | Comments: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | | | | | | | | | | |
| Defect Crack: | | Yes  No | | | | | Length: | | | | |  | | | mm | | Width: | | | |  | | | | | mm | |  | | | | |

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| Defect Rectification: | | | | | | | | | | | | | |
| Monitor | | | Weld Closure | | | Grind | | | | Repair | | | |
| Internal Defect: | *As per Rail: Section 1* | | 1 Day | | 7 Days | 14 Days | | 28 Days | | 90 Days | | Other: \_\_\_\_\_ | |
| Plate Defect: | Yes | | No | | **Speed Restriction:** | Yes | | No | | Speed Applied: | |  | |
| Alignment Defect: | 14 Days | | 28 Days | | 30 Days | 60 days | | 90 Days | | 180 days | | Other: \_\_\_\_\_ | |
| Rectification Date: | |  | | **Rail Required:** | | | Full HH | | 5mm Worn | | 10mm Worn | |  |

**Referencing**

|  |  |
| --- | --- |
| **ACRONYM** | **DESCRIPTION** |
| AK | AK Car |
| HT | Hand Testing |
| VIS | Visual Testing |
|  | |
| **ACRONYM** | **ELLIPSE DEFECT ATTRIBUTE** |
| TD | Rail Head Transverse Crack |
| TDX | Rail Head Multiple Transverse Cracks |
| WT or WF Head | Rail Head Transverse Weld Defect (T or FB) |
| WT or WF Web | Rail Web Transverse Weld Defect (T or FB) |
| WT or WF Foot | Rail Foot Transverse Weld Defect (T or FB) |
| EB | Rail Head Transverse Crack from Wheel Burn |
| WFW | Rail Head Repair Weld Defect |
| HSH | Rail Head Horizontal Split |
| VSH | Rail Head Vertical Split |
| HW | Rail Head Web Separation |
| FW | Rail Foot Web Separation |
| HSW | Rail Web Horizontal Split |
| SW | Rail Web Transverse Vertical Split |
| VSW | Rail Web Longitudinal Vertical Split |
| PR | Rail Web Piped Rail |
| BHC | Rail Web Bolt Hole Crack |