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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**

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| **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  |