

Safety, Engineering & Technology (Track & Civil) Form

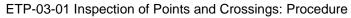
ETP-03-01 Inspection of Points and Crossings: Procedure

Form number: ETP0301F-05

TURNOUT DETAILED INSPECTION - Dual gauge SG - BG

Location:	Turnout Number:	Equipment No.:	Kilometrage:
Inspector Name:	Date:	Work Order:	Track:

OVERVIEW INSPECTION These tasks apply generically to all points and crossings assemblies								
ELEMENT	MEASURE	COMMENT	CONDITION		RESPONSE			
Component Damage			Any component loose, missing or broken.	A6	Increase monitoring, prioritise repair			
Track geometry, Pumping			5 – 20 mm	A6	Increase monitoring, prioritise repair			
in Critical Areas			20 mm or more	A6	Increase monitoring, prioritise repair			
			Visible deterioration	A6	Increase monitoring, prioritise repair			
Track Geometry, Overall Condition			Single Measured defect	-	ETS-05-00 5.4 table 5-15			
			Multiple measured defects	-	ETS-05-00 5.4 table 5-15			
			1	A6	Increase monitoring, prioritise repair			
Bearers and Fasteners, Ineffective in Critical Areas			2 consecutive	АЗ	40 km/h TSR until repaired			
			> 2 consecutive	A1	10 km/h TSR until repaired			
			< 20% loose clips, screws or spikes, timbers degraded	A6	Increase monitoring, prioritise repair			
Bearers and Fasteners, Overall Condition			Pads and insulators skewed some fasteners missing 1 in 4 timbers deteriorating	A6	Increase monitoring, prioritise repair			
			> 50% loose clips, screws or spikes, 1 in 3 timbers degraded missing fasteners	A6	Increase monitoring, prioritise repair			
Pallact condition and			Fines on surface. Ballast shoulder reduced.	A6	Increase monitoring, prioritise repair			
Ballast, condition and profile			Trapped moisture, mud and track pumping. Ballast low, ends of multiple bearers visible.	A6	Increase monitoring, prioritise repair			
			Ballast < 25 mm from moving parts. Ballast loose on sleepers.	A6	Increase monitoring, prioritise repair			
Ballast, Excess			Ballast touching moving parts or ballast obstructing inspection of fasteners. Ballast fallen into trough.	A6	Increase monitoring, prioritise repair			





OVERVIEW INSPECTION These tasks apply generically to all points and crossings assemblies							
ELEMENT	MEASURE	COMMENT	CONDITION		RESPONSE		
			Any of below				
			Misalignment at heel				
			Signs of rail movement				
Rail, Creep			Blade up out of square.	A6	Increase monitoring, prioritise repair		
			Greater than 15 mm clearance of moving drive locking and detection equipment from fixed parts.				
			Anti creep device not correctly positioned for current rail temp				
			Irregular contact band.	A6	Increase monitoring, prioritise repair		
Rail, Condition			Minor RCF, wheel burns or top / side wear. Evidence of bent rail.	A6	Increase monitoring, prioritise repair		
Kali, Condition			Severe RCF likely to interfere with Ultrasonic testing. Advanced wear. Corrugations. Other rail defects requiring a response.	A6	Increase monitoring, prioritise repair		
			35mm to 26 mm	A7	Routine scheduled inspection		
Rail, Remaining Head Height			24 to 26 mm and without defect per Section 1 Rail	A6	Increase monitoring, prioritise repair		
			Head height defect	-	Section 1 Rail		





POINTS INSPECTION					FOITH Humber. ETF030TF-03
ELEMENT	MEASURE	COMMENT	CONDITION		RESPONSE ACTION
	COMMON		85 mm to < 95 mm	A6	Increase monitoring, prioritise repair
Switch Opening, actual	STANDARD	1	80 mm to < 85 mm	A2	20 km/h TSR until repaired
	BROAD		< 80 mm	A1	10 km/h TSR until repaired
			≥ 1456 mm	-	Assess as per ETS-05-00 Table 5-15
			1445 mm to < 1456 mm	A6	Increase monitoring. Prioritise repair
	STANDARD		1430 mm to < 1445 mm	A7	No defect
	STANDARD		1427 mm to < 1430 mm	A4	60/65 km/h TSR until repaired
			1425 mm to < 1427 mm	A2	20 km/h TSR until repaired
Track gauge (at the switch			< 1425 mm	A1	10 km/h TSR until repaired
tip)	BROAD	1	≥ 1621 mm	-	Assess as per ETS-05-00 Table 5-15
			1610 mm to < 1621 mm	A6	Increase monitoring. Prioritise repair
			1595 mm to < 1610 mm	A7	No defect
			1597 mm to < 1595 mm	A4	60/65 km/h TSR until repaired
			1595 mm to < 1590 mm	A2	20 km/h TSR until repaired
			< 1590 mm	A1	10 km/h TSR until repaired
			1360 mm to < 1365 mm	A6	Increase monitoring. Prioritise repair
	STD. LEFT		1365 mm to < 1370 mm	A2	20 km/h TSR until repaired
Back of switch blade to opposite switch gauge	STD. RIGHT		≥ 1370 mm	A1	10 km/h TSR until repaired
face at tip			1525 mm to < 1530 mm	A6	Increase monitoring. Prioritise repair
	BROAD		1530 mm to < 1535 mm	A2	20 km/h TSR until repaired
			≥ 1535 mm	A1	10 km/h TSR until repaired





POINTS INSPECTION					
ELEMENT	MEASURE	COMMENT	CONDITION		RESPONSE ACTION
	STD LEFT		1370 mm to < 1380 mm	A6	Increase monitoring. Prioritise repair
	STD. LEFT		1380 mm to < 1390 mm	А3	40 km/h TSR until repaired
	CTD DIGUT		1390 mm to < 1400 mm	A2	20 km/h TSR until repaired
Back of switch blade to opposite switch blade at	STD. RIGHT		≥ 1400 mm	A1	10 km/h TSR until repaired
supplementary drive or stretcher, measurement			1535 mm to < 1545 mm	A6	Increase monitoring. Prioritise repair
Stretcher, measurement	BROAD		1545 mm to < 1555 mm	А3	40 km/h TSR until repaired
	BROAD		1555 mm to < 1565 mm	A2	20 km/h TSR until repaired
			≥ 1565 mm	A1	10 km/h TSR until repaired
Throat Opening (Back of	COMMON		≥ 40 mm	A7	Routine inspection
switch blade to stock rail	STANDARD		35 mm to < 40 mm	А3	40 km/h TSR until repaired
at the junction of heads)	BROAD		< 35 mm	A1	10 km/h TSR until repaired
	COMMON		>2 mm to 3mm	A6	Increase monitoring. Prioritise repair
Switch blade and stock rail condition, metal flow	STANDARD		>3mm to 4mm	A2	B.G./ S.G. mxd. only 20 km/h TSR until repaired
	BROAD		>4mm	A1	B.G./ S.G. mxd. only10 km/h TSR until repaired
Switch blade and stock	COMMON				
rail condition, surface	STANDARD		Visible damage, breakout of cracks, moderate to severe RCF and head checking	A6	Increase monitoring. Prioritise repair
condition	BROAD		and mode showing		
	COMMON		Bends evident, possible previous repair. Gap to switch stops and/or gap switch blade to stock rail through (excepting toe) 5 -10 mm.	A3	40 km/h TSR until repaired
Switch Alignment	STANDARD		Pont, gape greater 10 mm	A1	10 km/h TSR until repaired
	BROAD		Bent, gaps greater 10 mm	AI	TO KIMI TOK UNUITEPAIIEU





POINTS INSPECTION					
ELEMENT	MEASURE	COMMENT	CONDITION		RESPONSE ACTION
	COMMON		1 mm to 3 mm	A6	Increase monitoring. Prioritise repair
Switch blade closed gap	STANDARD	7			101 / TOP :: 1
	BROAD		>3 mm	A1	10 km/h TSR until repaired
Broad gauge switchblade against short stock	BROAD		>2 mm	A6	Increase monitoring. Prioritise repair
	COMMON		3 mm to < 4 mm	A6	Increase monitoring. Prioritise repair
Switch width at the tip, conventional only	STANDARD		> 4 mm to < 5 mm	А3	40 km/h TSR until repaired
oonvondond only	BROAD	7	5 mm or more	A1	10 km/h TSR until repaired
Switch height at the tip,	COMMON		> 10 mm to < 12 mm	A6	Increase monitoring. Prioritise repair
measured using ARTC switch tip gauge,	STANDARD		> 8 mm to < 10 mm	A3	40 km/h TSR until repaired
conventional only	BROAD		8 mm or less	A1	10 km/h TSR until repaired
Switch height at the tip,	COMMON		> 12 mm to < 13 mm	A6	Increase monitoring. Prioritise repair
measured with ruler,	STANDARD		12 mm or less	A1	10 km/h TSR until repaired
conventional only	BROAD		12 min or less	A	10 km/m 13k until repailed
	COMMON		2 mm to > 1 mm	A6	Increase monitoring. Prioritise repair
Switch Tip Wheel Clearance, undercut only	STANDARD		1 mm to > 0 mm	A3	40 km/h TSR until repaired
Cicaranics, and court ciny	BROAD		0 mm or less	A1	10 km/h TSR until repaired
	COMMON		50 mm to < 100 mm	A6	Increase monitoring. Prioritise repair
Switch blade damage	STANDARD		400		40 loss /s TOP contil non-size d
	BROAD	7	> 100 mm	A1	10 km/h TSR until repaired
	COMMON		≤ 22	A7	Routine inspection
Stock rail or switch blade gauge wear face angle	STANDARD	7	>22 to < 26	A6	Increase monitoring. Prioritise repair
gaago waa laaa anglo	BROAD	7	26 or greater	A1	10 km/h TSR until repaired





POINTS INSPECTION					
ELEMENT	MEASURE	COMMENT	CONDITION		RESPONSE ACTION
Fixed and pivot heel	COMMON		Cracked	А3	40 km/h TSR until repaired
blocks	STANDARD		Broken but still effective	A2	20 km/h TSR until repaired
	BROAD		Missing/Broken and ineffective	A1	10 km/h TSR until repaired
Fixed and pivot heel	COMMON		$Missing/ineffective \leq 2$	A4/A3	60/65 km/h TSR until repaired Heavy Haul 40 km/h TSR until repaired
blocks, bolts	STANDARD		Missing/ineffective 3	А3	40 km/h TSR until repaired
	BROAD		Missing/ineffective >3	A1	10 km/h TSR until repaired
Anti creep device	LEFT		Loose cracked but effective.	A6	Increase monitoring. Prioritise repair
including bolts	RIGHT		Missing/Broken and ineffective	A6	Increase monitoring. Prioritise repair
	COMMON		1 only - Cracked/loose 1 only - Broken/Ineffective	A6 A2	Increase monitoring. Prioritise repair 20 km/h TSR until repaired
Rail brace/chair, slide plates and rollers.	STANDARD		2 consecutive - cracked / loose / broken / ineffective	A1	10 km/h TSR until repaired
	BROAD		> 2 consecutive - cracked / loose / broken / ineffective	A1	10 km/h TSR until repaired
	COMMON		1 only - Cracked/loose	A6	Increase monitoring. Prioritise repair
		-	1 only - Broken/Ineffective	A2	20 km/h TSR until repaired
Switch Stops	STANDARD		2 consecutive - cracked / loose / broken / ineffective	A1	10 km/h TSR until repaired
	BROAD		> 2 consecutive - cracked / loose / broken / ineffective	A1	10 km/h TSR until repaired



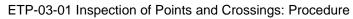


POINTS INSPECTION								
ELEMENT	MEASURE	COMMENT	CONDITION		RESPONSE ACTION			
Sprooder her			Loose fastenings or worn insulators	A6	Increase monitoring. Prioritise repair			
Spreader bar			Missing/broken	A1	10 km/h TSR until repaired			
Tie Per Preed Course only	Common rail to BG rail		Missing/broken/ineffective	A1	10 km/h TSR until repaired			
Tie Bar Broad Gauge only	BG rail to SG rail		Missing/broken/ineffective	A6	Increase monitoring. Prioritise repair			
Gap between BG and SG switch rails	Common rail to BG rail		>100mm	A2	20 km/h TSR until repaired			
	COMMON							
Switch Blade Support	STANDARD		Gaps up to >2mm through blade or >1mm at drive points	A6	Increase monitoring. Prioritise repair			
	BROAD		. Farma					



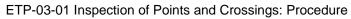


MIDPOINT OF LEAD									
ELEMENT	MEASURE	COMMENT	CONDITION	RESPO	DNSE				
			≥ 1456 mm	-	Assess as per ETS-05-00 Table 5- 15				
	STD. LEFT		1445 mm to < 1456 mm	A6	Increase monitoring. Prioritise repair				
			1430 mm to < 1445 mm	A7	Routine scheduled inspection				
	STD. RIGHT BROAD LEFT		1427 mm to < 1430 mm	A4	60/65 km/h TSR until repaired				
Track gauge (midpoint			< 1425 mm	A1	10 km/h TSR until repaired				
lead)			≥ 1621 mm	-	Assess as per ETS-05-00 Table 5- 15				
			1610 mm to < 1621 mm	A6	Increase monitoring. Prioritise repair				
			1595 mm to < 1610 mm	A7	Routine scheduled inspection				
	PROAD BIGHT		1595 mm to < 1590 mm	A2	20 km/h TSR until repaired				
	BROAD RIGHT		< 1590 mm	A1	10 km/h TSR until repaired				





ELEMENT	MEASURE	COMMENT CONDITION		RESP	ONSE
			≥ 1443 mm	A1	10 km/h TSR until repaired
			> 1440 mm to < 1443 mm	A4	60/65 km/h TSR until repaired
			> 1438 mm to 1440 mm	A6	Increase monitoring. Prioritise repair
	STD. K1a		> 1430 mm to 1438 mm	A7	No action
			> 1427 mm to 1430 mm	A6	60/65 km/h TSR until repaired
			> 1425 mm to 1427 mm	A2	20 km/h TSR until repaired
Track gauge (at the crossing nose)			1425 mm and less	A1	10 km/h TSR until repaired
crossing nose)		1	≥ 1608 mm	A1	10 km/h TSR until repaired
			> 1605 mm to < 1608 mm	A4	60/65 km/h TSR until repaired
	BROAD K1b		> 1603 mm to 1605 mm	A6	Increase monitoring. Prioritise repair
			> 1597 mm to 1603 mm	A7	No action
			> 1592 mm to 1597 mm	A6	60/65 km/h TSR until repaired
			1592 mm and less	A1	10 km/h TSR until repaired
Gauge from common rail turnout blade to the BG blade opposite just past wheel transfer off the short stock rail; switches set for the turnout			>1485mm	A2	20 km/h TSR until repaired



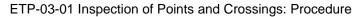


FIXED K CROSSING INPO	SECTION					
ELEMENT	MEASURE		COMMENT	CONDITION	RESPO	ONSE
				≥ 1400 mm	A1	10 km/h TSR until repaired
				1398 mm to < 1400 mm	А3	40 km/h TSR until repaired
				1396 mm to < 1398 mm	A4	60/65 km/h TSR until repaired
	OTD	174 -		1389 mm to < 1396 mm	A7	No action
	210	K1a		1386 mm to < 1389 mm	A6	Increase monitoring. Prioritise repair
				1384 mm to < 1386 mm	A4	60/65 km/h TSR until repaired
				1382 mm to < 1384 mm	А3	40 km/h TSR until repaired
Charle Bail Effectiveness				< 1382 mm	A1	10 km/h TSR until repaired
Check Rail Effectiveness			1	≥ 1565 mm	A1	10 km/h TSR until repaired
				1563 mm to < 1565 mm	А3	40 km/h TSR until repaired
		DD0 4D 1/4		1561 mm to < 1563 mm	A4	60/65 km/h TSR until repaired
	BBOA			1556 mm to < 1561 mm	A7	No action
	BROAD K1a			1551 mm to < 1556 mm	A6	Increase monitoring. Prioritise repair
				1549 mm to < 1551 mm	A4	60/65 km/h TSR until repaired
				1547 mm to < 1549 mm	А3	40 km/h TSR until repaired
				< 1547 mm	A1	10 km/h TSR until repaired
				15 mm to 20 mm width	A6	Increase monitoring. Prioritise repair
Crossing nose break width	K1a	K1b		20 mm to 25 mm width	А3	40 km/h TSR until repaired
				> 25 mm wide	A1	10 km/h TSR until repaired
Crossing nose condition, metal flow	К1а	K1b		1 mm or more flow	A6	Increase monitoring. Prioritise repair
Crossing nose condition, batter/ hollow	К1а	K1b		2 mm or more hollow / severe	A6	Increase monitoring. Prioritise repair
Crossing nose condition, surface condition	K1a	K1b		Pieces 3mm or more across have fallen from surface	A6	Increase monitoring. Prioritise repair





FIXED K CROSSING INPO	SECTION					
ELEMENT	MEASURE COMMENT CONDITION R		RESPO	RESPONSE		
			No cracks	A7	Routine inspection	
			Noncritical	A6	Increase monitoring. Prioritise repair	
			Critical	A6	Increase monitoring. Prioritise repair	
Crossing Cracks	K	1	Fully (not affecting the running surface)	A4	60/65 km/h TSR until repaired	
			Fully (affecting the running surface)	A1	10 km/h TSR until repaired	
			Visible evidence of flange tips running in dirt.	A6	Increase monitoring. Prioritise repair	
Crossing flangeway	K1a	K1b	Flangeway obstructed (with ballast etc) or evidence of flange tip running on steel work	A1	10 km/h TSR until repaired	
Crossing spacer blocks	K	1	Cracked	A4/A3	60/65 km/h TSR until repaired Heavy Haul 40 km/h TSR until repaired	
9 4 4 4 4 4 4 4			Broken but still effective	А3	40 km/h TSR until repaired	
			Missing/Broken and ineffective	A1	10 km/h TSR until repaired	
			Single or multiple bolts loose yet effective	A6	Increase monitoring. Prioritise repair	
Crossing spacer blocks, bolts	K1		Missing/ineffective ≤2	A4/A3	60/65 km/h TSR until repaired Heavy Haul 40 km/h TSR until repaired	
			Missing/ineffective 3	A3	40 km/h TSR until repaired	
			Missing/ineffective >3	A1	10 km/h TSR until repaired	
			>49 mm	A4	60/65 km/h TSR until repaired	
			48 mm to 49 mm	A6	Increase monitoring. Prioritise repair	
			40 mm to < 46 mm	A7	No action	
Check rail flangeway	K1a	K1b	38 mm to < 40 mm	A6	Increase monitoring. Prioritise repair	
			< 38 mm	A4	60/65 km/h TSR until repaired	





FIXED K CROSSING INPSECTION							
ELEMENT	MEASURE		COMMENT	CONDITION	RESPONSE		
				1360 mm to < 1365 mm	A6	Increase monitoring. Prioritise repair	
Check rail flare	STD K1a	STD K1b		1365 mm to < 1370 mm	А3	40 km/h TSR until repaired	
				≥ 1370 mm	A1	10 km/h TSR until repaired	
				60/65 km/h TSR until		60/65 km/h TSR until repaired Heavy Haul 40 km/h TSR until repaired	
Check rail spacer blocks	K1			Broken but still effective	А3	40 km/h TSR until repaired	
				Missing/Broken and ineffective	A1	10 km/h TSR until repaired	
					A4/A3	60/65 km/h TSR until repaired	
Check rail spacer blocks, bolts	174			Missing/ineffective ≤2		Heavy Haul 40 km/h TSR until repaired	
	K1			Missing/ineffective 3	А3	40 km/h TSR until repaired	
				Missing/ineffective >3 or missing end bolt in check rail.	A1	10 km/h TSR until repaired	





FIXED V CROSSING INPSECTION							
ELEMENT	MEASURE		COMMENT	CONDITION	RESPONSE		
				≥ 1443 mm	A1	10 km/h TSR until repaired	
	STD LEFT V1	STD LEFT V2		> 1440 mm to < 1443 mm	A4	60/65 km/h TSR until repaired	
	SIDELITYI	SID LLI I VZ		> 1438 mm to 1440 mm	A6	Increase monitoring. Prioritise repair	
				≥ 1443 mm A1 10 km/h TSR until repaired > 1440 mm to < 1443 mm			
					A6	60/65 km/h TSR until repaired	
	STD RIGHT V1	STD RIGHT V2		> 1425 mm to 1427 mm	A2	20 km/h TSR until repaired	
Track gauge (at the crossing nose)				1425 mm and less	A1	10 km/h TSR until repaired	
				≥ 1608 mm	A1	10 km/h TSR until repaired	
				> 1605 mm to < 1608 mm	A4	60/65 km/h TSR until repaired	
	BROAD V1	BROAD V2		> 1603 mm to 1605 mm	A6	Increase monitoring. Prioritise repair	
				> 1597 mm to 1603 mm	A7	No action	
				> 1592 mm to 1597 mm	A6	60/65 km/h TSR until repaired	
				1592 mm and less	A1	10 km/h TSR until repaired	



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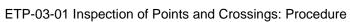
FIXED V CROSSING INPSECTION							
ELEMENT	MEASURE		COMMENT	CONDITION	RESPO	DNSE	
				≥ 1400 mm	A1	10 km/h TSR until repaired	
	STD LEFT V1	STD LEFT V2			А3	40 km/h TSR until repaired	
					60/65 km/h TSR until repaired		
				1389 mm to < 1396 mm	1400 mm A3		
				1386 mm to < 1389 mm	A6	Increase monitoring. Prioritise repair	
	STD RIGHT	STD RIGHT		1384 mm to < 1386 mm	A4	60/65 km/h TSR until repaired	
	V1	V2		1386 mm to < 1389 mm	40 km/h TSR until repaired		
Ohaala Dall Effactions				< 1382 mm	A1	10 km/h TSR until repaired	
Check Rail Effectiveness			≥ 1565 mm	A1	10 km/h TSR until repaired		
				1563 mm to < 1565 mm	А3	40 km/h TSR until repaired	
				1561 mm to < 1563 mm	A4	60/65 km/h TSR until repaired	
	BROAD V1	BROAD V2		≥ 1400 mm A3	No action		
	BROAD VI	BROAD VZ		1551 mm to < 1556 mm	A6	Increase monitoring. Prioritise repair	
				1549 mm to < 1551 mm	A4	60/65 km/h TSR until repaired	
				1547 mm to < 1549 mm	A3	40 km/h TSR until repaired	
				< 1547 mm	A1	10 km/h TSR until repaired	



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FIXED V CROSSING INPSECTION							
ELEMENT	MEASURE		COMMENT	CONDITION	RESPO	RESPONSE	
				15 mm to 20 mm width	A6	Increase monitoring. Prioritise repair	
Crossing nose break width	V1	V2		20 mm to 25 mm width	А3	40 km/h TSR until repaired	
				> 25 mm wide	A1	10 km/h TSR until repaired	
Crossing nose condition, metal flow	V1	V2		1 mm or more flow	A6	Increase monitoring. Prioritise repair	
Crossing nose condition, batter/ hollow	V1	V2		2 mm or more hollow / severe	A6	Increase monitoring. Prioritise repair	
Crossing nose condition, surface condition	V1	V2		Pieces 3mm or more across have fallen from surface	A6	Increase monitoring. Prioritise repair	
				No cracks	A7	Routine inspection	
			N	Noncritical	A6	Increase monitoring. Prioritise repair	
Crossing Cracks	V1	V2		Critical	A6	Increase monitoring. Prioritise repair	
				Fully (not affecting the running surface)	A4	60/65 km/h TSR until repaired	
				Fully (affecting the running surface)	A1	10 km/h TSR until repaired	
One arise floor many	LEFT V1	LEFT V2		Visible evidence of flange tips running in dirt.	A6	Increase monitoring. Prioritise repair	
Crossing flangeway	RIGHT V1	RIGHT V2		Flangeway obstructed (with ballast etc) or evidence of flange tip running on steel work	A1	10 km/h TSR until repaired	
						60/65 km/h TSR until repaired	
Crossing spacer blocks		1/0		Cracked	A4/A3	Heavy Haul 40 km/h TSR until repaired	
	V1	V2		Broken but still effective	А3	40 km/h TSR until repaired	
				Missing/Broken and ineffective	A1	10 km/h TSR until repaired	





FIXED V CROSSING INPSECTION							
ELEMENT	MEASURE		COMMENT	CONDITION	RESPONSE		
				Single or multiple bolts loose yet effective	A6	Increase monitoring. Prioritise repair	
				Missing/ineffective ≤2	A4/A3	60/65 km/h TSR until repaired	
Crossing spacer blocks, bolts	V1	V2		Missing/menective ≤2	A4/A3	Heavy Haul 40 km/h TSR until repaired	
				Missing/ineffective 3	А3	40 km/h TSR until repaired	
				Missing/ineffective >3	A1	10 km/h TSR until repaired	
Wing rail vertical wear	LEFT V1	LEFT V2		5 mm to 10 mm	A6	Increase monitoring. Prioritise repair	
wing fall vertical wear	RIGHT V1	RIGHT V2		>10 mm	А3	40 km/h TSR until repaired	
Wing Rail Condition, metal	LEFT V1	LEFT V2		1mm or more flow	A6	Increase monitoring. Prioritise repair	
flow	RIGHT V1	RIGHT V2			Αυ	morease monitoring. I nontise repair	
Wing Rail Condition,	LEFT V1	LEFT V2	Pieces 3mm or more across have fallen from surface	A6	Increase monitoring. Prioritise repair		
surface condition	RIGHT V1	RIGHT V2		Pieces 3mm or more across have railen from surface	Ao	morease monitoring. Phontise repair	
	STD. LEFT V1	STD. LEFT V2	1360 mm to < 1365 mm	A6	Increase monitoring. Prioritise repair		
	SID. LEFT VI	SID. LEFT VZ		1365 mm to < 1370 mm	А3	40 km/h TSR until repaired	
Wing Rail flare	STD. RIGHT V1	STD. RIGHT V2		≥ 1370 mm	A1	10 km/h TSR until repaired	
				1525 mm to < 1530 mm	A6	Increase monitoring. Prioritise repair	
	BROAD V1	BROAD V2		1530 mm to < 1535 mm	А3	40 km/h TSR until repaired	
				≥ 1535 mm	A1	10 km/h TSR until repaired	





FIXED V CROSSING INPSECTION								
ELEMENT	MEASURE		COMMENT CONDITION		RESPO	RESPONSE		
				>49 mm	A4	60/65 km/h TSR until repaired		
	LEFT V1	LEFT V2		48 mm to 49 mm	A6	Increase monitoring. Prioritise repair		
Check rail flangeway				40 mm to < 46 mm	A7	No action		
	RIGHT V1	RIGHT V2		38 mm to < 40 mm	A6	Increase monitoring. Prioritise repair		
	RIGHT VI	RIGHT VZ		< 38 mm	A4	60/65 km/h TSR until repaired		
	STD. LEFT	STD. LEFT		1360 mm to < 1365 mm	A6	Increase monitoring. Prioritise repair		
	SID. LEFT	SID. LEFT		1365 mm to < 1370 mm	А3	40 km/h TSR until repaired		
Check rail flare	STD. RIGHT	STD. RIGHT		≥ 1370 mm	A1	10 km/h TSR until repaired		
]	1525 mm to < 1530 mm	A6	Increase monitoring. Prioritise repair		
	BROAD V1	BROAD V2		1530 mm to < 1535 mm	А3	40 km/h TSR until repaired		
				≥ 1535 mm	A1	10 km/h TSR until repaired		
Charle rail anger blocks	V1	V2		Cracked	A4/A3	60/65 km/h TSR until repaired Heavy Haul 40 km/h TSR until repaired		
oncon rail opacor brooks			Broken but still effective	А3	40 km/h TSR until repaired			
				Missing/Broken and ineffective	A1	10 km/h TSR until repaired		
Check rail snacer blocks	V1 V2	Vo.		Missing/ineffective ≤2	A4/A3	60/65 km/h TSR until repaired Heavy Haul 40 km/h TSR until repaired		
bolts		V2		Missing/ineffective 3	А3	40 km/h TSR until repaired		
Check rail flangeway Check rail flare Check rail spacer blocks				Missing/ineffective >3 or missing end bolt in check rail.	A1	10 km/h TSR until repaired		