

Form number: PP122F-01

NEW	EQUIPMENT & SYSTEM APPROVAL PROFORMA			Ref:	1120	∞	•		
systen	the prompts given below are only a guide to the information required for approval n that requires approval delete any section that is not applicable or include additio arked with an asterisk (*).								
1	Equipment or System to be approved *								
	Pandrol Hytrel Resilient Rail Pad								
2	Originator *			V					
	Name: Ken Sherwood Company: P	androl A	ustralia	Pty. Ltd	d.				
3	Introduction *								
	Pandrol's Hytrel resilient rail pads are a two-part rail pad moulded primarily from a thermo-plastic elastomer called Hytrel. The pad is designed to work 'in-bending'. The material, in conjunction with the particular design, allows the pad to provide resilience comparable to a rubber pad but with an increased life expectancy. The pad has also proven to be effective in preventing sleeper skewing under certain circumstances.								
4	Determination of Need *								
	This request for approval is to provide a lower-cost, longer wearing alternative to the resilient rubber pads currently in use by ARTC.								
5	Significant Change or Not (as determined by the Manager Standards) *								
	This change in equipment or system is assessed as MINOR.								
6	Review Panel (as determined by the Manager Standards) *								
	John Furness - Manager Standards								
	Abbie Thomas – Track and Civil Engineer								
	Adrian Oorloff – Project Engineer East-West								
7	Safety		ul :	_					
	The Hytrel pad maintains the same level of safety as other rail pads that are	e current	iy in us	e. 					
8	Performance and Suitability	27 400							
	The Hytrel pad will be able to perform the same task as the existing rubber pad (Pandrol drawing 9589). The pad will provide similar impact attenuation (44%-47%) to the existing rubber pad currently in use by ARTC (47%). The pad underwent testing of rail clamping force, longitudinal restraint and assembly repeated load test for 3 million cycles as per AS 1085.19-2003 Railway Track Material: Resilient Fastening Assemblies. The assembly including the Hytrel pad completed all tests successfully.								
(i)	Use in other rail networks								
	Hytrel pads are currently used extensively in the Transnet (Spoornet) rail network in South Africa and in the Pilbara region of Western Australia.								
(ii)	Use in the ARTC network								
	N/A								
(iii)	Issues arising from usage of the equipment/system								
	No issues arise from the usage of this equipment. The pad is compatible with existing concrete sleepers and resilient fastening assemblies.								
(iv)	Changes required to infrastructure or systems for use of the equipment								
	The use of this pad requires no changes to existing infrastructure or systems	s.							
9	Maintainability								
	Maintenance of the Hytrel pad is covered by existing practices.								
10	Approval *								
	The Pandrol Hytrel Resilient Rail Pad is approved for use in the ARTC Networ	rk.							
11	Conditions of Approval *								
	No conditions.								
12	Does the Originator accept the additional Conditions of Approval as set by the Review Panel:	Yes	\boxtimes	No		N/A			



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13	Sign off			ARTC office use only
	Review Panel:	111		1
į	John Furness	Murress	Date:	8/3/2011
	Abbie Thomas	Olemen	Date:	8/3/11
1	Adrian Oorloff	Ad Denk A	Date:	8/3/11