

Federal Department of the Environment Transport, Energy and Communications DETEC

Federal Office of Transport FOT Infrastructure Division

Notified National Technical Rules (NNTRs)

ID:	CH-C	SM-RA-001 Stat		State:	Switzerland	Version:	1.0	1.0 Status:		June 2019	
Title:		Proof of	of safety concept for acquiring ETCS authorisation in Switzerland								
Office respons	Office Federal Approva			ransport F es Sectior	OT Address:			3003 Bern Switzerland			
E-mail : _BAV-W		eiterentwicklungRegelwerke@bav.admin.ch									
Referenced TSI or CSM article:			CCS TSI, Clause 3.2.1 CSM-RA, Annex I, Section 1.1.1								
Reference in Swiss regulation:			IP-RailO IP 38.3, Section 1.1 IP-RailO IP 47.1, Section 3.2								
Current NNTR classification:		□ NNTR on an 'open point' in the CSM □ NNTR due to difference between Swiss regulation and corresponding requirements in the CSM □ NNTR due to additional requirements in Swiss regulation without equivalent in the CSM									
Full description:		Title:		Proof of safety concept for acquiring ETCS authorisation in Switzer-land							
			Type of require- ment		Safety	Reliability/ availability	Health	Environm		compatibility	
					X	X		<u> </u>		X	
			Scope of application ETCS-L2 and L1LS lines and vehicles in Switzerland								
		Requiren	The compliance and proof of safety described in the document 'SiNa Konzept Version 2.02' (ETCS system manager baseline configuration) must be provided in order to acquire ETCS authorisation for vehicles and infrastructure. As a minimum, the tests defined in the document 'Master Testkonzept' Version 1.6 (ETCS system manager baseline configuration) must be conducted and have a positive outcome.								
		Reasons tion	/explana-	A proof of safety concept ensures safe, interoperable and reliable transport with ETCS. The 'master test concept' establishes test areas in which the requirements must be met in order to achieve a demonstrably functional, interoperable and integrated ETCS system throughout Switzerland. The 'master test concept' also establishes who is responsible for the various areas of testing. In the case of concrete projects, it is recommended to provide the Swiss ETCS system manager with any new information.							
			Applicable to		RU	Vehicle or	wner	IM		IU	
			Validity p	period	X unlimited	X		X		X	
Current norms i Switzer	in	cable			1						
Test sp for cert conform	ificate										

Notified National Technical Rules (NNTRs)

ID:	CH-C	SM-RA-002		State:	Switzerland	Versi	on:	1.0	Status:	June 2019		
Title:		Require	rements at speeds greater than 200 km/h									
		Office of Transport FOT als and Rules Section					Address: 3003 Bern Switzerland					
E-mail: _BAV-W		eiterentwicklungRegelwerke@bav.admin.ch										
Referenced TSI or CSM article:		CCS TSI, Clause 3.2.1 CSM-RA, Annex I, Section 1.1.1										
Reference in Swiss regulation:			IP-RailO IP 38.3, Section 1.1 IP-RailO IP 47.1, Section 3.2									
Current NNTR classification:		□ NNTR on an 'open point' in the CSM □ NNTR due to difference between Swiss regulation and corresponding requirements in the CSM □ NNTR due to additional requirements in Swiss regulation without equivalent in the CSM										
Full description:		Title:	1									
		Type of require-		Safety	Reliab availab	•	Health	Environment	Technical compatibility			
					X	X		-	-			
			Scope of applica- tion ETCS-L2 vehicles in Switzerland									
			Requirement For the use of vehicles at speeds exceeding 200 km/h, proof of compliance with Gamma brake model (at least in accordance with EU Commission Decision 2015/14) must be demonstrated.									
			For vehicles which can technically reach speeds above 200 km/h (e.g. because entering this maximum speed prevented by technical means), but which are not per use at this maximum speed in Switzerland, the measurement journeys at a higher speed than that permitted Switzerland shall be addressed and assessed in the secretificate. Any residual risk must be acceptable.							peed is not t permitted for neasures to mitted in the safety		
			Reasons, tion	explana-	It must be assumed that the basic control locking device will be transmitted up to 250 km/h. The maximum permitted vehicle speed in Switzerland may nonetheless not be exceeded.							
		Applicable to		RU X	Ve	hicle X	owner	IM -	IU -			
			Validity p	eriod	d unlimited							
Current norms Switzer	in	cable			•							
Test sp for cert conforr	ificate											

Notified National Technical Rules (NNTRs)

ID:	СН-С	SM-RA-0	003	State:	Switzerland	Versi	on:	1.0		Status:	June 2019	
Title:		Quality	of train data									
		Office of Transport FOT als and Rules Section				Address:		3003 Bern Switzerland				
E-mail: _BAV-W		eiterentwicklungRegelwerke@bav.admin.ch										
Referenced TSI or CSM article:			CCS TSI, Clause 3.2.1 CSM-RA, Annex I, Section 1.1.1									
Reference in Swiss regulation:			IP-RailO IP 38.3, Section 1.1 IP-RailO IP 47.1, Section 3.2									
Current NNTR classification:		□ NNTR on an 'open point' in the CSM □ NNTR due to difference between Swiss regulation and corresponding requirements in the CSM □ NNTR due to additional requirements in Swiss regulation without equivalent in the CSM										
Full de	script	ion:	Title:	itle: Quality of train data								
			Type of require- ment			Reliab availa	oility	Health	Envi	ronment	Technical compatibility	
					Х	Х		-		-	-	
		Scope tion	of applic	ETCS ve	hicles i	n Swi	tzerland					
			Requir	The processes for transmitting and entering train data shall be designed in such a way that no more than 1 in 1,000 trains has incorrect data.								
			Reason tion	ns/expla	safety ob	The assumptions of the risk analyses carried out to achieve the safety objectives are based on these values. Data in this sense are brake percentages, vmax, train length etc						
				A value is considered incorrect if it deviates by 20 per cent or more from the actual value.								
		Applicable to		RL	ı	Vehic	cle owner		IM	IU		
		Validity	/ period	X unlimited	X - - - unlimited							
			vanuit	, period		-						
Current norms i Switzer	in	cable										
Test sp for cert conform	ificate											