



Safety recommendation no. 59

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Safety deficit	On Monday 29 July 2013 at 18:44, trains 12976, Payerne–Lausanne local service, and 4049, RegioExpress Lausanne–Payerne, collided on points no. 1 in Granges-Marnand station. On impact, train 12976 was travelling at 60 km/h and train 4049 at 45 km/h. Of the 45 persons in the two trains, 26 were injured, 6 of them seriously. The locomotive engineer of train 4049 was killed on the spot.
Safety recommendation	When setting priorities for equipping stations with the Euro-ZUB train control system, more weight should be given to stations where trains meet only occasionally, and account should be taken of human factors such as the dangers of routinisation, job stress, train movement, duty rotas.
Stage of the implementation	The fitting of the 21 similar but remote controlled junction stations with speed control is on course for completion by the end of 2015 at the latest. At the same time the departure process was reviewed and adjusted. As a result the dispatcher gives permission to depart, currently in 11 stations (two-man rule). As an immediate measure from October 2013, the SBB introduced the two-man rule in the following 7 stations: Granges-Marnand, Avenches, Châtillens, Cugy FR, Estavayer-le-Lac, Yvonand and Zweidlen. From 15.12.13 the two man rule was further extended to the following 5 stations: Bauma, Galmiz, Lucens, Turbenthal and Wald. In addition the SBB has accelerated its 1700 points programme to completion in 2 years, which means that speed control will be fitted to a further 1700 points by the end of 2018. Implemented.
Investigation report concerning the safety recommendation	<u>Schlussbericht</u>