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This document is a translation made by SHK of the original response in Swedish to the safety recommendation. In case of discrepancies between this translation and the Swedish original text, the Swedish text shall prevail in the interpretation of the response.

## Near collision involving rail vehicles at Karlstad Central Station

On 18/08/2020, the Swedish Transport Administration received the Swedish Accident Investigation Authority's (SHK) final report RJ 2020:03, Near collision involving train 8923 and train 18922 at Karlstad Central Station, Värmland County, 19 August 2019. The response below sets out the action the Swedish Transport Administration is taking as a result of the recommendations issued in the report.

**The Swedish Transport Administration was recommended to:**

**RJ 2020:03 R1: review whether the basis for risk analyses for change in signal systems needs to be expanded with regard to (see section 3.4):**

o **Special conditions and changes regarding signal technology and design rules,**

The Swedish Transport Administration will be conducting a review of how special conditions and changes regarding signal technology and design rules can be improved in the basis for risk analysis for changes to signal systems. This is expected to be complete 30/03/2021.

o **Deficiencies and experience from previous signal design, safety review and commissioning.**

Feedback from past experience is taking place in the project where the Swedish Transport Administration is continually working on constant improvements. One example is a project involving recurring seminars for reviewers and inspectors for training and to learn from past experience that has been initiated over the course of the year, this is implemented in November of 2020.

**RJ 2020:03 R2: review how the safety management system provides support for individual deficiencies identified during planning or safety reviews also to be analysed from a broader risk perspective (see section 3.3).**

An administration-wide decision, with case number TRV 2019/102393, concerning enhanced review was made on 01/10/2019, which means that all projects that are planning for changes in the interlockings of interlocking system 65 shall apply enhanced review in accordance with TDOK 2014:0488 ver. 2.0. The review is being conducted by at

least two reviewers, who, in partnership, inspect documentation and especially designs pertaining the interlocking.

On 30/06/2020, TDOK 2014:0488 was updated to version 3.0, with enhanced review, the number of review sessions and clearer responsibility in section 4.5, safety plan and safety evidence. This has been implemented in the Swedish Transport Administration's affected operational areas: Maintenance, Investment and Major Projects.

**RJ 2020:03 R3: review how training and information for projectors, safety reviewers and commissioning inspectors can be improved based on past experience and changes in technology and regulations (see section 3.5).**

The Swedish Transport Administration, as announced under the sub-point of recommendation R1, has initiated a project involving recurrent seminars for reviewers and inspectors involving training and learning from past experience, the first of which is implemented on 18/11 and 26/11/2020. In the long-run, this will become a natural element of the Swedish Transport Administration's work with continual improvements.

Best regards,

Hanan Åberg  
Director of Safety