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**BANVERKET****Head Office**

Swedish National Rail Administration
Administration nationale suédoise des voies ferrées
Schwedisches Zentralamt für Eisenbahwesen

Date - Date - Datum
1998-12-03

Your letter - Votre lettre - Ihr Schreiben

Our ref - Nos réf - Unsere Zeichen
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cc:

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To whom it may concern

Letter of support for an ARTES application

The Swedish National Rail Administration has used formal methods in several research projects during the last few years. A set of formal specifications for safety properties of interlockings has been developed. The specification comprises functional safety requirements. As a case study, the safety-critical part of the relay interlocking from a small station was verified.

The Swedish National Rail Administration is in the process of introducing a new generation of small, PLC based interlocking systems. We are planning to introduce formal verification as a mandatory part of the system review before installation and commissioning of every new interlocking system of this kind.

We believe that formal methods will be useful tools in our future safety activities, and welcome research activities within the field. We would therefore like to express our support for the project proposed by Parosh Abdulla, Uppsala University.

Yours Sincerely,

Kjell Johansson,
Manager
Traffic and System Principles
Swedish National Rail Administration