

**Development of Evaluation Method of Risk of Train Driver's Error with Consideration on
Inducement Factors**

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In order to find out an effective measure in limited time and budget, a priority needs to be judged corresponding to the purpose and effect of a measure. One of priority judgments is the size of a risk. We improved FMEA (Failure Mode and Effects Analysis) for the risk assessment of human error phenomena, and developed it to a new risk assessment technique. In order to use this technique, sufficient background factors of accidents and incidents need to be analyzed. Moreover, for prevention of human errors, not only the error phenomena but also the inducement factors should be grasped. We combined the result of the risk assessment of the error phenomena with the factors which induced generation of the error phenomena. As a result, we were able to present the method of management of human error prevention which could be adopted in a railroad office.