

## **Failure Investigation of On-board Electronic Equipments for Trains**

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Railway vehicles are equipped with various electronic equipments including traction inverters. It is very important to improve the reliability of each element constituting the equipments. We have the maintenance problems of on-board electronics parts, such as difficulty to reproduce the occurrence of failures, difficulty to prevent sporadic occurrence of failures, difficulty to identify the reasons in case failure does not reoccur. Then, we have held the investigation committee on the prevention of failures of on-board electronic equipments since 2002. The members are experts from railway operators and manufacturers. This time we report on the characteristics of the failures of traction inverters and their countermeasures based on the survey results of the inverter faults/failures.