

## **Evaluation of Deterioration Cause of Track-Slab in Cold Districts**

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Deteriorated track-slabs have been so far found in some districts under cold weather. It is very important to the maintenance of track-slabs that we understand cause of deterioration. Therefore we performed the investigation of external appearances and materials of the track-slabs. It has been understood by the appearance investigation that the deterioration frequently happens at the south sides of the track-slabs where the exposure time to sunshine is long. Also, the material investigation has shown that the deterioration of track-slabs is caused by an alkali-silica reaction and a frost-damage.