

## **Basic Study of OCL Maintenance by Pantograph Contact Force**

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For preventing accidents occurring at contact area between overhead catenary system and a pantograph, the overhead catenary system must be periodically maintained, resulting in requiring heavy maintenance cost. The present on-board monitoring system for the overhead contact lines mainly keeps watch on dynamic states of the contact wire. However, its static states are extremely required for the efficient maintenance work of the overhead contact line. Therefore, the authors developed some methods which estimate static height of the contact wire by the contact force and the pantograph height. This paper describes estimation results of static height of the contact wire of on-track test by the proposed method and validates availability of the method. Furthermore, some contact force measurement results of on-track test are shown.