

## **Proposal of Seismic Design Information of Poles Made of Aluminum Alloy in Overhead Contact Systems**

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Since aluminum alloy is lightweight with excellent corrosion resistance, installing poles made of aluminum alloy could improve workability and maintainability. However, the Seismic Design Guideline for Overhead Contact Systems and Commentary does not specify seismic design information of poles of aluminum alloy. Therefore, we conducted experiments and analyses of poles of aluminum alloy from the viewpoint of seismic design. Based on those results, we proposed the information of poles of aluminum alloy to enable seismic design in accordance with the Seismic Design Guideline for Overhead Contact Systems and Commentary.