

**A Study on Aerodynamic Interference between a Panhead and an Articulated
Frame by Applying CFD Technique**

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To reduce aerodynamic noise generated by a pantograph, it is necessary not only to improve a panhead shape, but also to reduce interference between a panhead and an articulated frame. However, a detailed mechanism of the interference between them has not been clarified completely. Therefore, reduction of aerodynamic noise generated by the pantograph is still difficult. This paper clarifies vortex structures around the panhead and the articulated frame, and their interference mechanism by applying CFD technique.