

**Applicability Evaluation of Railway Steel Bridge Composed of
Ni-advanced Weathering Steels and High Performance Steel Materials**

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The revised design standard of railway steel structures and composite girders adapted the recently developed steel materials including Ni-advanced weathering steels and Bridge high performance steels (BHS). There is a possibility that Ni-advanced weathering steels can be applied without painting even more corrosive environment. BHS have high strength and good weld ability. This paper explains the applicability evaluation method of the Ni-advanced weathering steels, which was obtained from the result of exposure tests, and the advantages of application of BHS for composite girders from the result of trial design.