Study on Disaster Prevention of Site-Support Method for Bridge Construction

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Abstract

Site-support method (SSM) for bridge construction needs lower technical requirements which do not need special machinery and equipment. The system can be simultaneous performed on multiple positions which are often used for the upper structure of bridge construction. The characteristics and construction process of SSM for bridge construction have been discussed in this research. Case studies were used to investigate causes of disaster and in-depth interviews were used to explore the preventive measures of the system. Risk management of occupational safety and health (OSH) administration was used to identify and evaluate hazards. The PDCA quality control cycle was applied to construct risk security management strategies.

Keyword：Site-Support Method; Occupational Injury; Bridge Construction