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Application of Earthquake Early Warning and Real-time Strong-motion Monitoring System to disaster mitigation for High-Ri

Tomohiro Kubo^{1*}, Yoshiaki Hisada¹, Masahiro Murakami¹

¹Kogakuin University

We propose the application of EEWS (earthquake early warning system) and RSMS (real-time strong motion monitoring system) to emergency response for a high-rise building based on the PDCA (Plan, Do, Check, Action) cycle in order to improve the emergency response plan and these systems, continually.

We apply the EEWS and RSMS to emergency response plan in "Plan" and "Do" stage on the PDCA cycle, and carried out the earthquake disaster drill in "Check" stage on the PDCA cycle in October 2008. In "Action" stage on the PDCA cycle, we improve the issues of the emergency response for people in the building and these systems that we found in "Check" stage. In Next PDCA cycle, we apply the improvement plan to these systems and the emergency response plan, and study an effect of the improvement plan during the earthquake disaster drill in 2009.

Therefore, we can effectively improve these systems and the emergency response based on the PDCA cycle.

Keywords: Earthquake Early Warning System, Real-time Strong Motion System, Earthquake Disaster drill, Emergency Response Plan, PDCA cycle