



Research on Emergency Management System of the First Phase Project of Middle Route of South to North Water Transfer Project of China

Jin Quan, Xiao-hui Lei, Bo-jun Liu, and He-zhen Zheng

China Institute of Water Resources and Hydropower Research (IWHR), China (jeanquan@foxmail.com)

Middle Route of South to North Water Transfer Project of China (MRP) divert water to Beijing Tuancheng Lake from Taocha in the Danjiangkou reservoir located in the Hubei province of China. Its main tasks are to provide drinking water and industrial water for Beijing, Tianjin, Shijiazhuang and other more than 20 cities under extremely strict water quality requirements, and include ecological and agricultural water in flood seasons. The safety of water delivery and water quality in the MRP is very important to northern China. The construction of the project is large-scale and very complicated, so the management of the project is very difficult. Therefore, it is urgent and important to establish a complete emergency management system to improve the capability of emergency response of MRP. This dissertation carried deep and aborative research on emergency management of MRP. Combined with the analysis of current operation mode and achievements, after the risk investigation and risk analysis, assessment the current emergency management system of MRP from emergency management mode, commanding organs, emergency troops, commanding procedures, pre-plans system, the strategy of emergency operation, emergency exercise, personnel training, and practical cases. Focus on the sudden water contamination event, the emergency operation models of MRP were established. Conclusions and suggestions were made in the end of this dissertation, which can be used for emergency management and decision-making departments for reference.

Key Words: First Phase Project of Middle Route of South to North Water Transfer Project, Emergency Management Systems, Emergency Operation, Prevention and Control of Water-supply-risk, Sudden Water Contamination