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Independent Peer Review as a Guarantee for Safety, Serviceability and Optimisation of Deep Foundation Systems

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The quality control management for complex construction projects consists of well educated engineers, well equipped construction companies, independent building authorities and the independent peer reviewers. At all complex construction projects like deep excavations, tunnels, dams and foundation systems the soil-structure-interaction has to be considered during the planning and design phase. For the construction phase the supervision of the construction works on the project area is necessary for quality control. Regarding the 4-eye-principle as basis of the quality control management an independent peer review of the planning, design and construction phase is the guarantee for safety, serviceability and optimization of all projects (Figure 1).

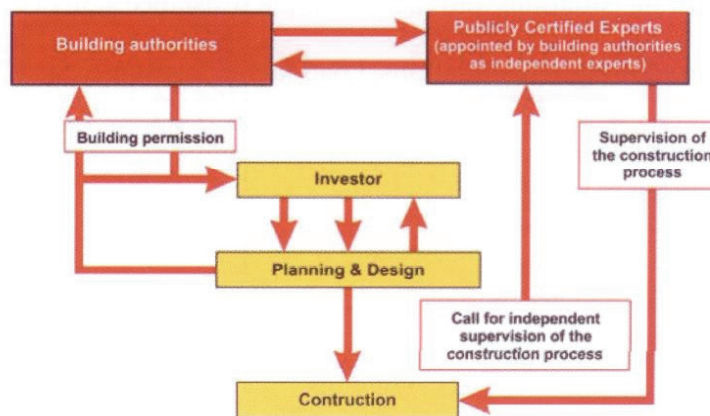


Figure 1. Independent peer review process.

The paper deals with the terms of an independent peer review for deep foundation systems and the application in engineering practice. The observational method as part of the quality control management is shown.

Keywords: Quality control, Independent peer review, 4-eye-principle, Observational method.