

## New source inserting system for SK as an R&D of HK calibration

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Current SK calibration is done by inserting several calibration sources from the holes at the top of the tank manually in the dark. So we, Kobe group, are planning to set the source inserting system using a winch with a wire encoder controlled by PC. This is also the first step of R&D of the HK calibration system. The target position precision of the system is less than 1cm. By using a gate valve, we can change the sources even under the light. The installation and practical use will be done by the end of FY2015. At this stage, we can move the sources only in z (vertical) direction. At the next stage, we are thinking of testing the calibration system which is movable in all (x, y, and z) directions in the HK prototype.

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