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Alignment Strategy for HALF

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Hefei Advanced Light Facility (HALF), a planned key mega-science facility approved by the Chinese government in 14th five-year plan, will be constructed in Hefei, China, and National Synchrotron Radiation Laboratory (NSRL) is responsible for the construction. HALF is a 4th generation diffraction limited synchrotron radiation light source which includes a 240 m injector, a 180 m transport line, and a 480 m storage ring. Comparing to the 3rd and earlier generation light source, it requires much higher alignment accuracies. This paper instructs the alignment strategy for it, including alignment accuracy requirements for different parts, alignment procedures and techniques for different stages of the project from civil engineering to the installation of components in the machine and the deformation monitoring system.

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Footnotes

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