

Hardware Exchange : incoming device to KEK

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KEK Experience for HW coming-in in LC collaboration

- SLAC5045 Klystrons with tank
- ATF DR Injection/extraction kickers from SLAC
- ATF loss monitor installation (SLAC)
- ATF Linac bunching section upgrade (SLAC)
- ATF Various beam monitors (SLAC, BINP, Oxford, RHUL, LLNL, PAL,...)
- X-band WG components & accelerator cavities (SLAC)
- ATF2 magnets (IHEP)
- ATF2 magnet movers & power supplies (SLAC)
- ATF-DR BPM electronics upgrade (FNAL & SLAC)
- STF SC cavities (DESY, FNAL, ...)

Green: similar to pre-tuning machine.

KEK regulations and work need to require permission from responsible person;

- AC power cabling, water connection
- HV safety, high current safety, strong magnetic field safety
- High pressure vessel regulation
- Toxic gas safety
- Radiation safety
- Chemical safety
- Laser safety
- Welding work, crane work, machining work

Safety guide-line in KEK

- License required: Crane work, welding work, car and special car, machining device in KEK mechanical engineering center, ...
- Application required: Radiation device, Laser device, chemicals including oil, high pressure vessel, toxic gas, ...

Installation guide-line in KEK

For pre-tuning machine

- Crane work must be done by licensed person.
(several KEK researcher have license, otherwise we ask company worker.)
- AC power connection should be done by licensed person, or strictly followed to KEK power line connection guideline.
(The responsibility is in “実験盤取扱責任者” , and report to “装置責任者” .)

Conclusion for HW exchange

No major difficulties, no worry for pre-tuning machine case.

- If a coming-in device need to clear KEK regulations, KEK contact person must prepare an application.
(no need for pre-tuning machine)
- If a coming-in device need installation work, it should be done by eligible person, should be followed KEK guideline. (KEK contact person must arrange it.)
(Hayano will arrange them.)