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Status of J-PARC neutron facility recovered from the Earthquake

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Abstract

After nine months of the gigantic earthquake and followed disasters, we, J-PARC, have been recovered from the serious damage occurred in the accelerator complex and the facilities, and we have tried to operate the facilities since last December. In our facility, the Materials and Life Science Experimental Facility (MLF), had damages on the target system, Instruments, Shielding, building and infrastructures. After dedicated great efforts of the staffs and contracted companies we could make the facility ready to accept protons to the target on 22 December. Now, in January, we have started comprehensive diagnostic process and commissioning on all of the components in J-PARC through Linac, 3GeV-RCS, Beam Transport lines, Target system, Moderator system, Neutron beam lines, Instruments on so on. Although we have found unrecoverable damages in a short term, however, because of adjustments and retuning whole system seems to work unexpectedly well so far. Now we are going to restart user program from February and planning a major restoration work in the next summer shutdown to ramp up proton power to 300 to 400kW. In the ICANS-XX meeting we will report some details of the present status of J-PARC/MLF.