China has built a world-class spallation neutron source, called CSNS, to provide users a neutron scattering platform with high flux, wide wavelength range and high efficiency.

A real time monitor system is developed in CSNS, to monitor, broadcast and record each pulse of proton. Each proton pulse charge is measured and marked with high-precision timestamp. Then, the result of measurement will be broadcasted to control room, each neutron instrument.