

## **Ensuring safe and reliable operation of CNGS as of 2008**

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After the successful repair and modifications of the water cooling system of the CNGS horns, the CNGS physics run 2007 started as scheduled. The beam performance during this run was very good as expected. However, the run had to be stopped five days in advance due to radiation effects in electronics equipment.

To assure the on-time restart with beam in May 2008 additional shielding and modifications in the installed electronics are needed.

The proposed layout of the CNGS shielding is shown. Radiation calculations as well as the operational aspects with the new shielding are presented. In addition the strategy for addressing the radiation issues on the electronics will be discussed.