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Approaches to the maintenance at LNL.

The Laboratori Nazionali di Legnaro (LNL) is a centre for applied and nuclear physics founded in 1960 in Legnaro, Padova (Italy). At the beginning the centre was equipped with a 7MV Van de Graaf accelerator and, since then, a new machine has been installed roughly every 10 years, namely a 2MV van de Graaf accelerator, a 14MV Tandem XTU, a super-conducting 58MV booster (ALPI) and finally a super-conducting 12MV injector (PIAVE). Because of the different wear of these accelerators due both to use and age, various approaches to their maintenance have been envisaged: planned, opportunistic preventive, recovery after failure and radical update/upgrade. In this paper we analyze these methods applied to specific cases and we describe the smooth transition from an all-on-paper to all-on-DB logbook of the daily activities and faults. In addition the Work Permitting procedures in force at the moment at LNL are explained.

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