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RESOURCE LOADED PLANNING FOR ALICE

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The ALICE experimental area management team faces various challenges when it comes to sharing scarce resources, indispensable to any efficient installation in a category one worksite. Space, cranes, jigs, and personnel with key competences have to be carefully allocated to activities so as to avoid slowing down work progress. To this intent, a resource loaded planning has been developed that allows highlighting coactivities and prioritizing critical tasks. It uses the built-in capabilities of Microsoft Project. The use of this scheduling tool leads to a more efficient use of time and a safer work environment. The installation sequence resulting from this schedule is presented in this paper. The first part of the sequence focuses on the revision of the coils in the SX2 building. The dipole has then to be installed in the RB26 side of the UX25 cavern. This complex and resource intensive activity has to be performed in parallel with the services installation inside the L3 magnet. On the RB24 side of the cavern the shielding foundation has to be built. Its design includes the installation of pre-cast concrete slope modules to allow LHC quadrupoles to be lowered and taken into the tunnel. This additional constraint on the already busy schedule of ALICE makes it crucial to plan all activities taking into account the resources they require. The key milestone set as a goal is the beginning of the field mapping of the ALICE magnets which are scheduled to start on 21 July 2005.

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