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Maintaining Clean Rooms at the SNOLAB Underground Laboratory

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The SNOLAB underground laboratory has 50 thousand square feet of floor space all kept as a class 2000 clean room. This suppresses backgrounds from Uranium and Thorium which comprise approximately 1ppm of mine dust and a few ppm of concrete. The systems used to maintain and monitor the cleanliness will be discussed as well as results from cleanliness audits.

Air in mines typically has much higher radon content than on surface. At SNOLAB the radon levels are approximately 130 Bq per cubic meter. Systems used to supply small amounts of air from surface will be described with the quality of results achieved.

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