



Contribution ID: 25

Type: Oral

## Oxygen deficiency monitoring at TRIUMF

Cryogenic equipment is used in many modern accelerator facilities. A release of cryogenics may cause an oxygen deficient atmosphere resulting in a hazardous work environment. A well designed oxygen deficiency monitoring system will allow a facility to run efficiently while still permitting workers access to operate and service the equipment in a safe manner.

TRIUMF is in the process of upgrading the operation of its oxygen monitoring system. I will give an overview of the design process including hazard analysis, sensor selection, monitoring options, annunciations of alarms, what happens during a low O<sub>2</sub> alarm, active monitoring versus procedural planning, and servicing and calibration requirements.

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