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Cover gas board for the SNO+ Universal Interface

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The SNO+ experiment is a large-scale liquid scintillator detector with a focus on investigating neutrinoless double beta decay. In order to fully calibrate the experiment, human access is required to within the detector region and therefore careful consideration is needed to prevent radon ingress from the mine air, a significant source of background. A cover gas system is being developed to pump on specific volumes located on the Universal Interface (UI), used to introduce calibration sources into the detector volume, where there is potential for contact with mine air and purge it with inert nitrogen gas. The development of the cover gas board used to control the pump/purge system will be discussed here.

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