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Scroll Pumps "on Demand" Usage for Reduction of Operating Costs.

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TRIUMF is Canada's national laboratory for particle and nuclear physics and accelerator-based science. The facility produces and delivers a variety of beams to targets and experiment stations through beam lines. The total length of beam lines operating at TRIUMF is about 700 meters. The vacuum in these beam lines is supported by turbo pumps backed by scroll pumps. There are more than 65 scroll pumps operating continuously and TRIUMF spends more than 50 days of maintenance related activities per year. A new mode of operation, permitting the usage of the scroll pumps only when they are needed was proposed, tested and it is in process of implementation. The savings in reduced maintenance activities and electrical power consumption are expected to exceed 50%. Details of the new operating mode will be presented.

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