

RIKEN-RAL Refurbishment Project

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Muon Spectroscopy User Meeting

16th July 2018



Purpose

- Many components approaching their 25th birthday, some even older..
- · Obsolete components no parts available
- Enable RIKEN beamline to run for next 25+ years
- Standardise with ISIS







Objectives

- No reduction in specification
- Improvements to operation of facility where possible
- Minimise down-time by using existing shutdowns
- Replacement equipment compatible with existing ISIS systems



Priorities:

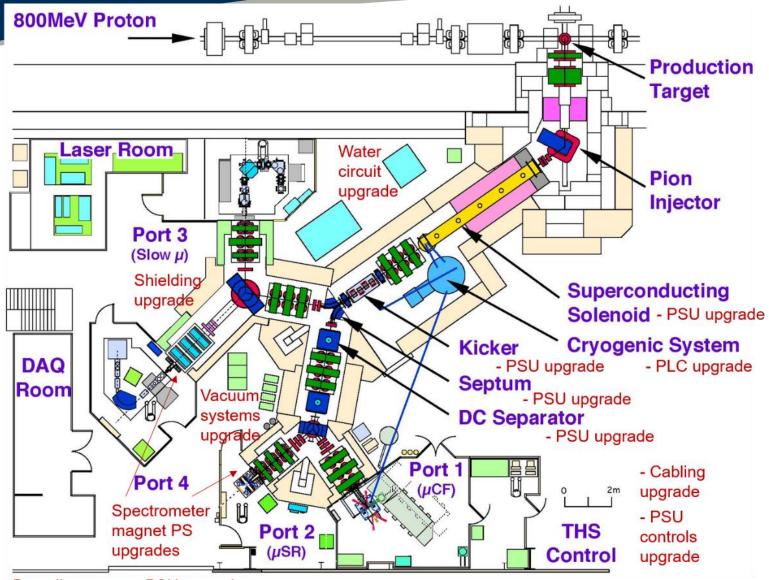
- · Water circuits old, leaking
- · Vacuum equipment and pumps oil-free
- Power supplies for beamline magnets, septum, separator, solenoid and Argus and Chronus magnets
- · Detectors and Sample Environment ISIS standard
- Cabling
- Power supply controls PLC upgrade
- Investigation of shielding to improve maintenance access.
- Beamline magnet assessment



Separator power supplies and HV terminations



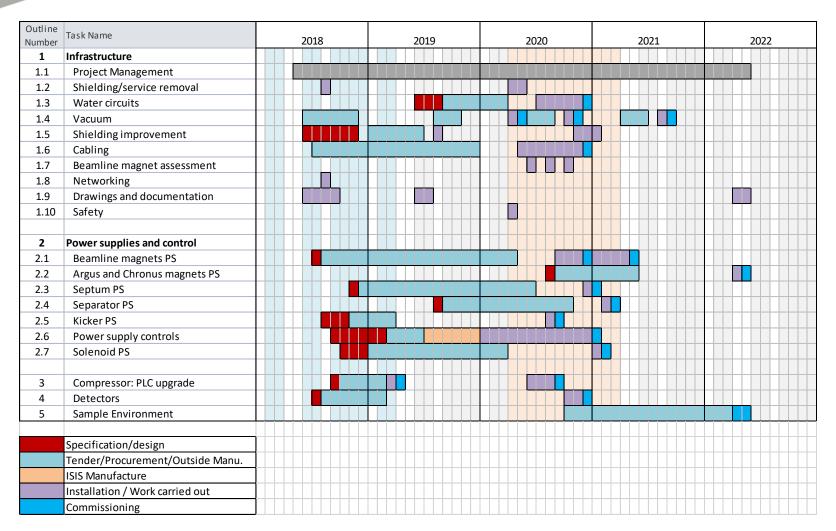




Beamline magnet PSU upgrades



Plan Project started 1st May





Progress:

- Equipment purchased
- Specifications and tenders prepared
- Drawings upgraded:

