

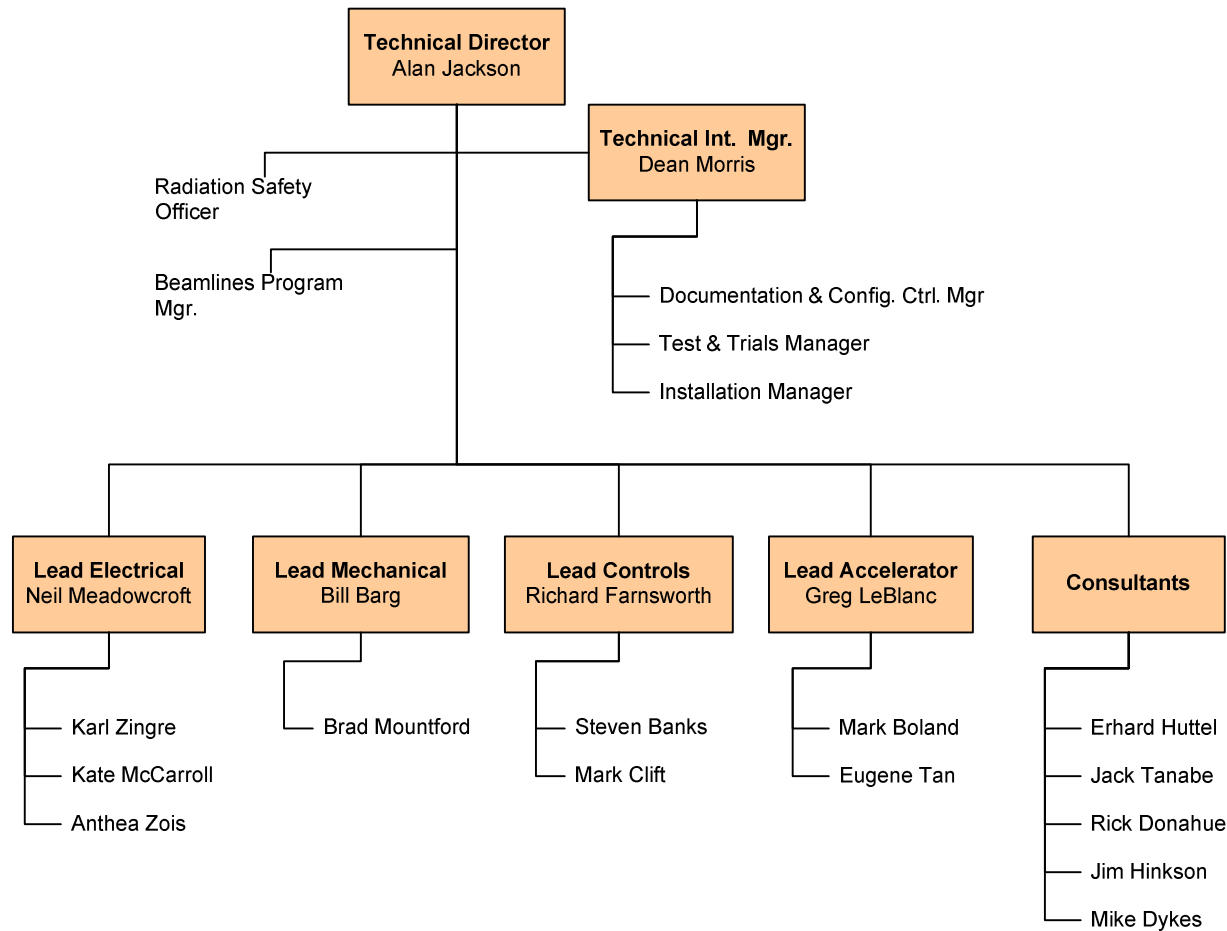
Australian Synchrotron



The AS Project Delivery and Status

Delivery Team 2003

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Location of the Australian Synchrotron

Melbourne CBD

Monash University

Synchrotron site

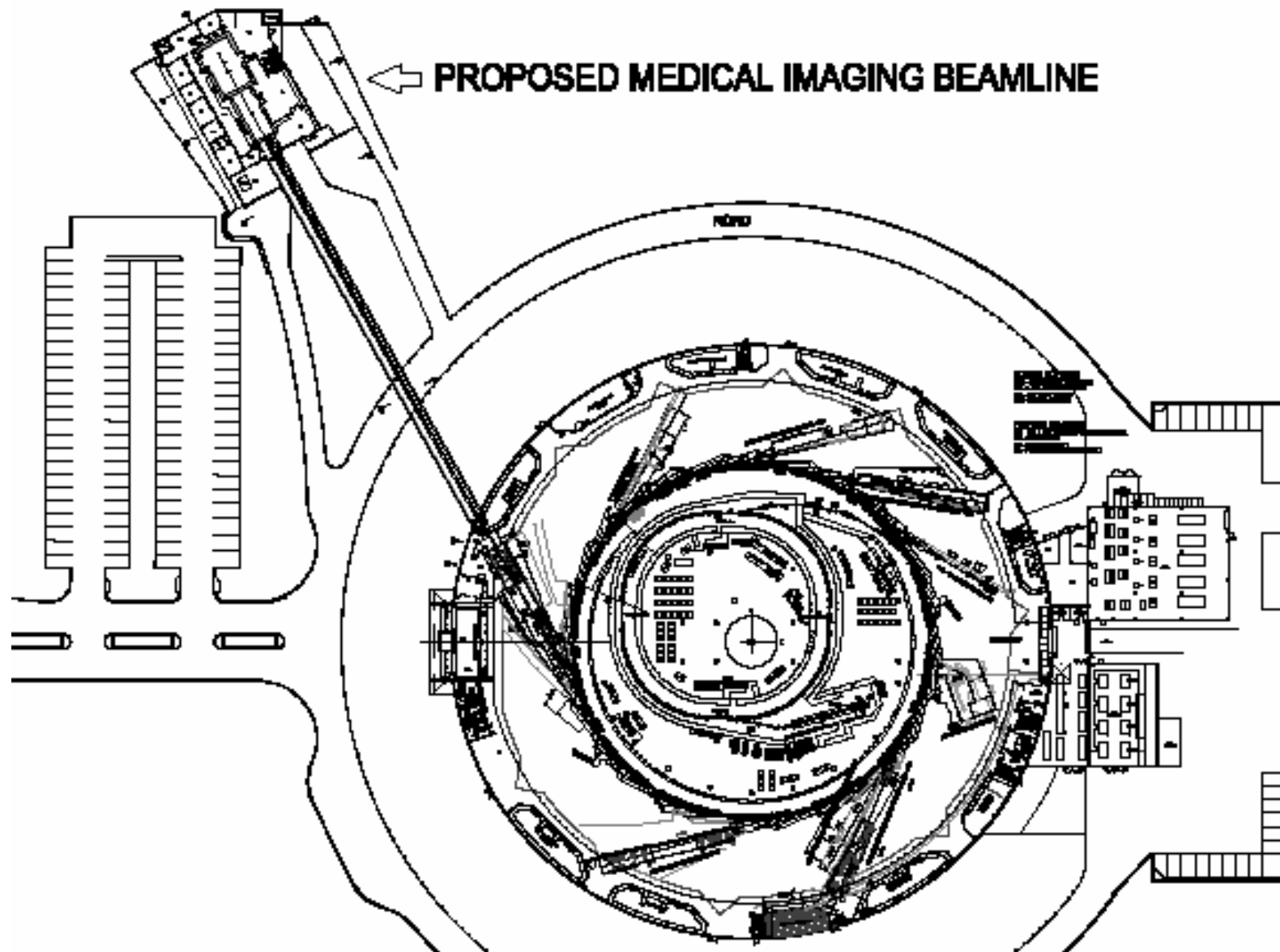


The Australian Synchrotron (AS) Building



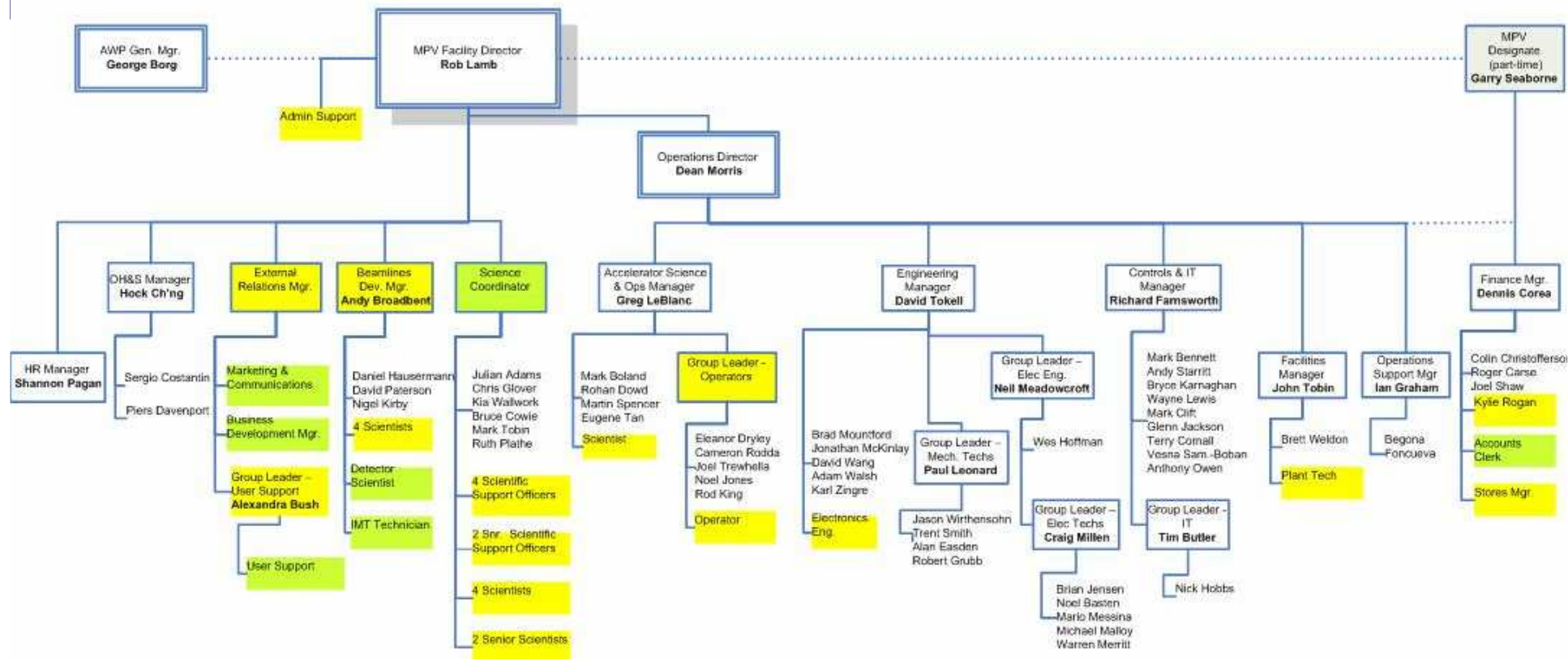
The AS Facility

Australian Synchrotron



Operators Team 2007

OPERATIONS TEAM, SEPTEMBER 2007



Number of existing employees	68
Current unfilled vacancies	24 identified
Future positions	7 identified

Dean Morris, 18th September 2007

LINAC 100MeV

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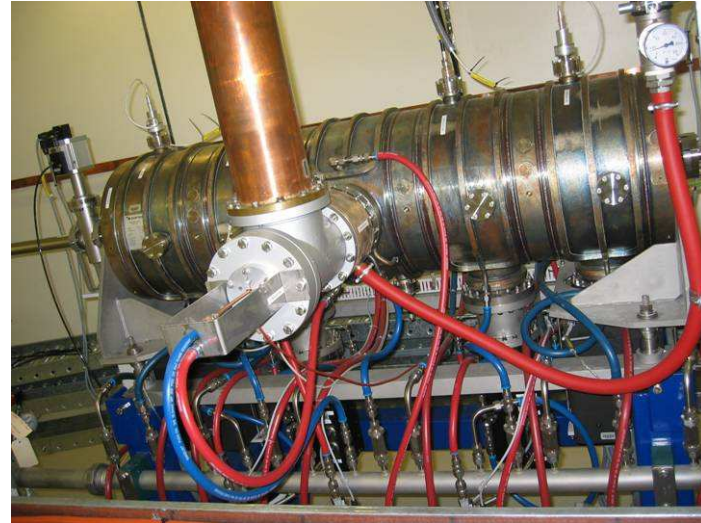
Status: Transmission could be improved from 70 % to 80 – 90 %

Projects: More diagnostics, e.g. RF phase measurements, beam position monitors.

Others: earthing - stepper motors, LLE temp. comp. - upgrade from SSB.

BORF 75kW, 1.2MV

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Projects:

- Replacement of non AU standard equipment, i.e. US 60Hz and 110VAC, e.g. aux. transformers, P/S's.
- Analogue process variables (PV) for all local readings for remote display, fault handling and archiving.
- Redesign GUI LLE and automation. New software to be written.

SRRF 4x150kW

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Status: New, additional phase shifter to dump the SR beam every second for beam studies and synchronisation Fast Fault Memories (FFM) for better fault diagnostics. LLE Master phase loops have been removed for better phase stability and additional smoke detectors where installed after an incident during commissioning.

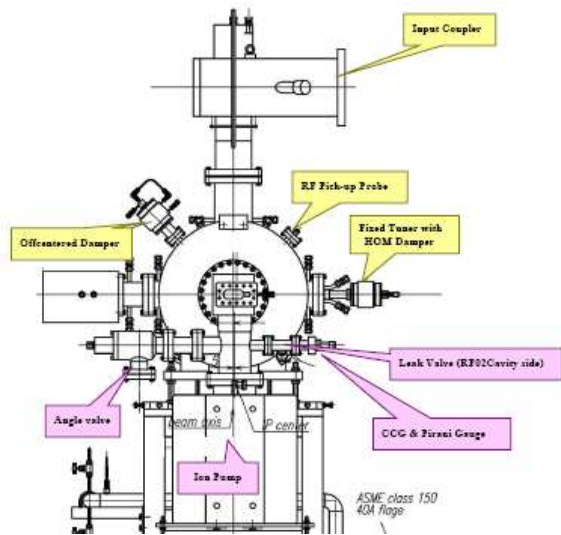
Projects:

Additional fire protection, i.e. auto. CO2 injection into HVPS cabinet, thermal sensors embedded in each transformer LV winding and interlocks.

MTTR, situation to be improved, e.g. accessibility, key interlocked doors, testing, LCW etc.

SR RF Cavities, 4x 750kV

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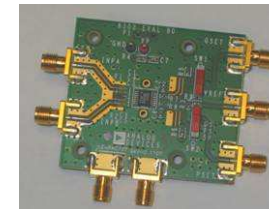
Status: RF input coupler and HOM dampers where optimised during commissioning and work well since then.

LCW Equipment protection had to be improved.

Projects:

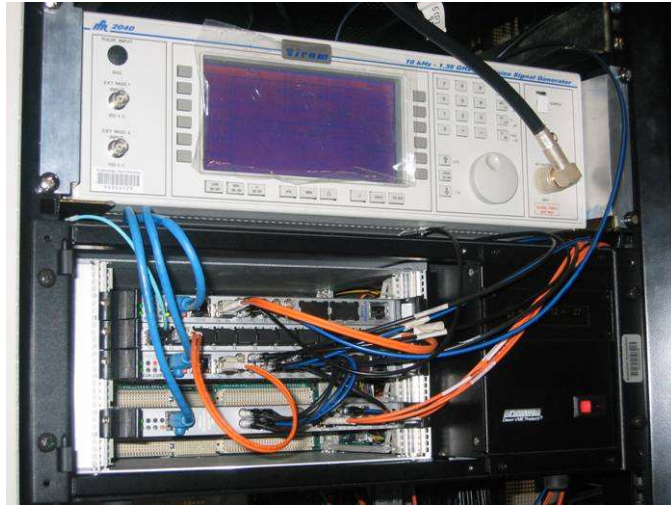
Smith chart display cavity tuning, material has arrived, detailed design to start now.

photo AD8302



Timing system

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Status:

system has been upgraded to event system series 230, ref www.rfi.fi, including EVG, two EVR, gun trigger and a spare system for spare holding and testing.

Projects:

- Replacing the DG535's and more EVR's to be ordered for BL requirements.
- Bunch by Bunch Transverse Feedback system to be designed, ordered and installed by early 2008.

All RF spare parts with long lead time were identified ordered and have arrived on side.

The Operators Spares Analysis Report from 2007 has identified an extra \$750'000 for RF spare parts

Facility Development

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A laboratory / workshop to be organised for the accelerator, RF and Electronics group, and BL requirements.

Space Space Space

The 2007 winning Project – Facility Improvements

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IMPRESSA
if you love coffee



Three divine professional coffee machines arrived on site.

