The AS Project Delivery and Status



Delivery Team 2003



Location of the Australian Synchrotron

Melbourne CBD

alitte cardle Minkles

Monash University

Synchrotron site











danager Ion Pagan	Sergio Costantin Piers Davenport	Marketing & Communications Business Development Mgr. Group Leader – User Support Alexandra Bush	Daniel Hausermann David Paterson Nigel Kirby 4 Scientists Detector -Scientist	Julian Adams Chris Glover Kis Walwork Bruce Cowle Mark Tobin Ruth Plathe 4 Scientific Support Officers 2 Snr. Scientific Support Officers 4 Scientists	Mark Boland Rohan Dowd Martin Spencer Eugene Tan Scientist	Eleanor Dryley Cameron Rodda Joel Trowhella Noel Jones Rod King Operator	Brad Mountlord Jonathan McKinlay –David Warig Adam Walsh Karl Zingre Electronics	Group Leader - Mech: Techs Paul Leonard Jason Wirthensol Trent Smith Alan Easden Robert Grubb	Group Leader - Elec Eng, leil Meadowcroft Wes Hoffman Group Leader - Elec Techs Craig Millen Brian Jensen Mario Mesens	Andy Starritt Bryce Karraghan Wayne Lewis Mark Citr Glenn Jackson Terry Connell Vesne Sam - Boban Anthony Owen	Brett Weldon	Bugona Begona Foncueva	Acquint Cristian Joel Shaw Kyše Rogan
				2 Senior Scientists					Moel Basten Mario Messina Michael Malloy Warren Merritt	C. and (Bould			

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

Dean Morris, 18th September 2007







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



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.







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.











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



Status:

system has been upgraded to event system series 230, ref <u>www.rfi.fi</u>, 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

Australian Synchrotron

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 Australian Synchrotron



Three divine professional coffee machines arrived on site.





