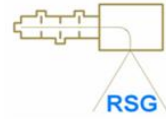


RADIATION SERVICES GROUP



Incorporating

RADIATION SERVICES AUSTRALIA PTY LTD

Radiation Shielding Suppliers ABN 14 002 813 309

&

RADIATION SERVICES CONSULTING PTY LTD

Radiation Shielding Consultants ABN 17 488 139 862



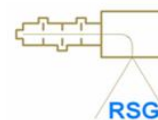
Radiation Services Group Company Profile

2011



PO Box 504 SEVEN HILLS NSW 2147
Ph: (02) 9838 9591 Fax: (02) 9838 9950
Email: info@radiationservices.net Web: www.radiationservices.net

**Company Profile for
Radiation Services Group
(RSG)**



The History of Radiation Services Group

Radiation Services Australia Pty. Ltd. was established in 1984 to provide assistance to the user (or potential user) of radiation apparatus in medicine (therapeutic, diagnostic and nuclear medicine), industry and electron beam processing.

Initial operations were primarily based on service to linear accelerators and design, fabrication and supply of specialised shielding products (neutron and photon scatter doors etc.).

Company principals are Kevin Fitzsimmons and Dennis Zavasky, both of whom have greater than 30 years experience in the many aspects of the radiation industry.

Expertise in shielding designs for high energy radiation was readily applicable to low energy radiation and so the extension of our company's services into the diagnostic energy areas was a logical step as the market for these services evolved.

All of our designs are guaranteed to meet ICRP 60 recommended standards as a minimum and (where specified) the more stringent design constraints imposed by the end user or regulatory authority.

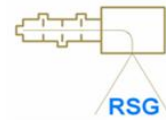
Our company now provides the following comprehensive range of services:

- Radiation shielding designs (diagnostic to megavoltage)
- Consulting services to architects and the construction industry
- Design, fabrication, supply and installation of radiotherapy bunker doors
- Inspection and shielding certification of X-ray rooms
- Shielding integrity testing of X-ray walls, viewing panels etc.
- Supply of shielded wallboards (ply, MDF, plasterboard, CFC etc.)
- Supply of shielded door sets for diagnostic suites
- Supply of all specialty materials for use in radiation shielding

In 2002, Radiation Services Consulting was established to continue the design consultancy functions of RSA. Together these companies trade as Radiation Services Group.

For reference, a list of past and current major projects is appended. Names and contact numbers for many of these projects are available on request.

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Major Design and Consulting Projects

Only major projects are listed. Since 1994, we have completed over 500 shielding designs for projects ranging from single x-ray rooms to entire hospitals.

1. Woden Valley Hospital Radiation Oncology Redevelopment

The brief for this project was extensive, in that all shielding for a high energy accelerator plus a high dose rate brachy therapy suite, as well as engineering details to allow for installation of equipment were included. Design development, documentation and construction supervision. Included were all liaisons with statutory authorities for approvals and final certification. Project period - 13 months.

2. St. George Hospital Cancer Care Centre

Same as for Woden Valley, but with the addition of writing tender documentation for equipment. Project period - 18 months.

Architects: Brown Brewer & Gregory/Leighton Irwin Joint Venture
Contact: Russell Goldstein, Mark Boffa

3. St. Vincent's Private Hospital.

Design of shielding for radiotherapy unit. Project period - 3 months.

Project Managers: Civil & Civic

4. Wollongong Hospital (1)

Design of shielding for linear accelerators in Cancer Care Centre. Design of shielding for X-ray department and operating theatres, documentation, construction supervision and certification. Project period - 18 months.

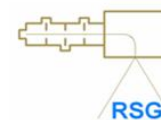
Project Managers: Baulderstone Hornibrook
Contact: Ian Glover

5. Randwick Hospital Campus

Design of shielding for all of the redevelopment on this site. Includes Medical Imaging, Nuclear Medicine, Operating Theatres and Private Hospital. Design, documentation, construction supervision and certification. Project period - 3 years. Radiation Services Australia supplied all shielded wallboards for this project.

Project Managers: Thiess Contractors
Contact: Terry Antoniadis

**Company Profile for
Radiation Services Group
(RSG)**



Major Design and Consulting Projects

6. Liverpool Hospital (1) Radiation Oncology

Design of shielding for radiotherapy department plus design advice on layout and department function. Included radiotherapy simulator & CT scanner. Project period - 2 years.

Project Managers: Capworks Management
Contact: John Smith or John Sung

7. Liverpool Hospital (2) Nuclear Medicine

Design of shielding for Nuclear Medicine Department.

Architects: Rice Daubney
Contact: Gerry Lee

8. Bankstown - Lidcombe Hospital Redevelopment

Design of shielding for radiology and nuclear medicine departments, design, documentation, construction supervision and certification.

9. Northwest Private Hospital (Brisbane)

Design of shielding for radiology and nuclear medicine. Design to Queensland regulations. Design, documentation, construction supervision and certification. Project period 18 months.

Principals:	Health Care of Australia	Contact:	Colin Sinclair
Architects:	Woods Bagot	Contact:	Bill Johnson
Builders:	Buildcorp NSW		

10. Royal Prince Alfred Hospital (1) Radiation Oncology Redevelopment

Radiation Services Australia was engaged as radiation consultants for the redevelopment of the Radiotherapy Department. Engaged by Public works and the Area administration. Separate engagement by Radiotherapy Department on other matters pertaining to shielding of bunkers etc. Project period 2 years.

Project Managers:	Atkinson Capital Insight/CSAHS	Contact:	Rob Fisher
Architects:	Electromedical Group		
	NSW Department of Public Works	Contact:	Henry Swierk

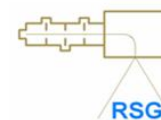
11. North Gosford Private Hospital

Radiation shielding design, documentation, construction supervision, certification and supply of all shielding materials for this MBF hospital.

Architects:	Thompson Adsett	Contact:	Damon Perry
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**Company Profile for
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Major Design and Consulting Projects

18. Darwin Hospital

Design of all radiation shielding for this project.

Principals: Territory Health
Architects: Spowers + Di Carlo Potts Joint Venture Contact: Ian Russell
Level 1, 82 Smith St. DARWIN NT Phone: (08) 8981 6565

19. Concord Repatriation Hospital

Design of all radiation shielding for this project. Tender documentation and construction supervision.

Principals: Central Sydney Area Health
Architects: Woods Bagot
Level 4, 146 Arthur Street, NORTH SYDNEY NSW 2060
Ph: (02) 9957 5919

20. Campbelltown Cancer Care Centre (Megavoltage accelerators)

Design of all radiation shielding for this project. Construction supervision and certification.

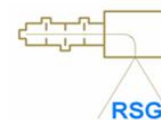
Principals: South Western Sydney Area Health
Architects: Di Carlo Potts & Associates Contact: Les Lloyd
Level 4, Henry Lawson Bldg. Birkenhead Point, DRUMMOYNE NSW
Ph: (02) 8752 8888
Project Managers: Dockrill Health Projects Contact: Len Dockrill

21. Wollongong Hospital (2)

Design of all radiation shielding for this project. Construction supervision and certification.

Principals: Illawarra Health
Architects: McConnel Smith & Johnson Contact: Eva Bednarski
35 Richards Avenue, SURRY HILLS NSW 2010
Ph: (02) 8353 8888
Project Managers: Dockrill Health Projects Contact: Len Dockrill

**Company Profile for
Radiation Services Group
(RSG)**



Major Design and Consulting Projects

**22. Epworth Private Hospital (Richmond, Victoria)
(Megavoltage accelerators)**

Design of all radiation shielding for this project. Construction supervision and certification.

Principals:	Epworth Foundation 89 Bridge Road RICHMOND, VIC 3121	Contact:	Tom Kirkland
Architects:	Design Inc Melbourne Pty. Ltd. Melbourne Central Tower, Level 51, 360 Elizabeth St. MELBOURNE VIC 3000 Phone: (03) 9654 9654	Contact:	Ian Laging
Project Managers:	ABI Group	Contact:	Geoff Benjamin

23. Sutherland District Hospital

Design of all radiation shielding for this project. Construction supervision and certification.

Principals:	South Eastern Sydney Area Health	Contact:	Noel Samyia
Architects:	Peddle Thorp & Walker 50 Bridge Street, SYDNEY 2000 Ph: (02) 9232 5877	Contact:	Noel Samyia
Project Managers:	Incoll RGA	Contact:	Brian Geddes

24. Royal Prince Alfred Hospital (3)

PPF/PDP for two accelerator bunkers

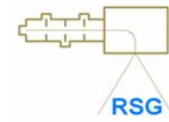
Principals:	Central Sydney Area Health	Contact:	Tim Stat
Architects:	Public Works and Services Dept Ph: (02) 9372 8362	Contact:	Tim Stat
Project Managers:	Atkinson Capital Insight	Contact:	Rob Fisher

25. Royal Prince Alfred Hospital (4)

Design development and documentation for two high energy accelerator bunkers.

Principals:	Central Sydney Area Health	Contact:	Tim Stat
Architects:	Public Works and Services Dept Ph: (02) 9372 8362	Contact:	Tim Stat
Project Managers:	Atkinson Capital Insight	Contact:	Rob Fisher

**Company Profile for
Radiation Services Group
(RSG)**



Major Design and Consulting Projects

26. Coffs Harbour Hospital

Design development, shielding design and documentation for this development. Construction supervision and certification.

Principals: Mid North Coast Area Health Service, Northern Sector
Designers: Steensen Varming (Australia) Pty. Ltd.
Level 2, 160 Sailors Bay Road
Northbridge NSW 2063
Project Managers: Bovis Lend Lease (Sydney)

27. Shoalhaven Hospital

Design of radiation shielding for this hospital redevelopment. Construction supervision and certification.

Principals: Illawarra Area Health Service
Architects: Silver Thomas Hanley Daryl Jackson
Level 2, 23 Mountain Street
ULTIMO NSW 2007

28. Australian Customs Service Container X-ray Project

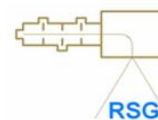
Design of scanner hall for linear accelerator imaging system. Negotiation of all licenses (siting, construction and operate) with ARPANSA for all sites. Construction supervision and certification, radiation safety training for operators. Radiation safety officer for the container x-ray division of border control.

Principals:	Australian Customs Service	Contact:	John Valastro
	Ph: (02) 6275 6938		
Project Manager:	Jones Lang Lasalle	Contact:	Andrew Hanna
	Ph: (02) 9220 8375		
Designers:	GHD	Contact:	Rick Pilz
	Ph: (02) 9239 7249		

29. Royal North Shore Hospital POEM Building

Design and documentation of all radiation shielding for this development. Construction supervision and certification.

Principals:	Northern Sydney Area Health Service	Contact:	Tim Brook
Architects:	Bligh Voller Nield		
	Ph: (02) 8297 7200		



Major Design and Consulting Projects

34. Newcastle Mater Hospital Radiotherapy Expansion

Design to allow addition of three high energy accelerators to the existing department. Provision of engineering advice for services, radiation protection issues for workers on site and construction supervision.

Project Managers: Abigroup Contractors
Level 4 Carpark Platt Street
WARATAH, NSW 2298

Contact: James Seedsman

35. Canberra Hospital Redevelopment (February 2007 – December 2007)

Design to allow addition of two high energy accelerators, additional nuclear medicine and planning to the existing department. Provision of engineering advice for services, radiation protection issues for workers on site and construction supervision. Final survey and certification.

Project Managers: AC&A Architects
3/28 Thynne Street
BRUCE ACT 2617

Contact: Darrell Walker

36. Auburn Hospital Redevelopment (June 2007 – January 2008)

Design for modifications and additions to x-ray facilities. Provision of engineering advice for services, radiation protection issues for workers on site and construction supervision.

Architects: Silver Thomas Hanley
Level 2, 23 Mountain Street
ULTIMO NSW 2007

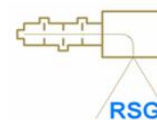
Contact: D. Joe Mihaljevic

37. Macquarie University Private Hospital and Australian School of Advanced Medicine (July 2007 – present)

Design for three high energy accelerators, planning simulator, Gammaknife (including Category 1 source security), cyclotron bunker for un-self shielded PETrace cyclotron, hot cells and radiopharmacy, PET and medical imaging throughout the hospital. Provision of engineering advice for services, radiation protection issues for workers on site and construction supervision. Final survey and certification.

Client: Macquarie University
Project Managers: Boulderstone Hornibrook
Site Office
Innovation Drive
NORTH RYDE NSW 2113

Contact: Evan Rawstron
Contact: Michael Cama



Major Design and Consulting Projects

38. Gold Coast University Hospital (October 2007 – present)

Design for two high energy accelerators, radiotherapy planning, nuclear medicine and medical imaging facilities. Design to Queensland requirements. Provision of engineering advice for services, radiation protection issues for workers on site and construction supervision.

Project Managers: GCUH Architects
70-72 Bowen Street
SPRING HILL QLD 4000

Contact: Tony Giammichelle

39. Lismore Hospital Redevelopment (December 2007 – present)

Design for two high energy accelerators and planning simulator, plus medical imaging throughout the hospital. Provision of engineering advice for services, radiation protection issues for workers on site and construction supervision. Final survey and certification.

Client: Department of Commerce, NSW
Architects: Hassell Architects
Level 2, 88 Cumberland Street
SYDNEY NSW 2000

Contact: Bruce Porter
Contact: Benson Abrahams

40. Australian Submarines Corporation (July 2008 – December 2009)

Design x-ray bay for NDT laboratories, including engineering and services. Construction supervision and site radiation safety management. Final survey and certification for ARPANSA.

Project Managers: KBR Government & Infrastructure
186 Greenhill Road
Parkside, SA 5063

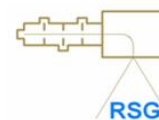
Contact: Jim Nayler

41. Liverpool Hospital Redevelopment Milestones 1&2 (September 2008 – present)

Design for PET facilities, Nuclear Medicine Department, Iodine therapy rooms and Medical Imaging throughout the redevelopment, includes engineering and services advice. Final survey and certification.

Client: South Western Sydney Area Health Service
Project Managers: Bovis Lend Lease
Site Office
102 Bigge Street
LIVERPOOL NSW 2170

**Company Profile for
Radiation Services Group
(RSG)**



Major Design and Consulting Projects

42. Medica Centre Hurstville (July 2008 – present)

Design for two high energy accelerators including laminated shields due to restricted space and planning simulator, PET scanners and medical imaging throughout the practice. Provision of engineering advice for services, radiation protection issues for workers on site and construction supervision. Final survey and certification.

Architects: Nordon Jago Architects
103c Parramatta Road
ANNANDALE NSW 2038
Contact: Andy Twine

43. New Royal Children's Hospital Melbourne (September 2008 – present)

Design for all ionising radiation facilities (including nuclear medicine, PET and imaging) throughout the hospital. Provision of engineering advice for services, radiation protection issues for workers on site and construction supervision. Final survey and certification.

Project Managers: Bovis Lend Lease
Site Office, RCH
Royal Park, Flemington Road
PARKVILLE VIC 3052
Contact: Dereck Wheeler

44. Nepean Cancer Care Centre Stage 3 (June 2008 – December 2008)

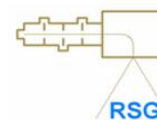
Design for additional high energy accelerator bunker. Provision of engineering advice for services, radiation protection issues for workers on site and construction supervision. Final survey and certification.

Client: NSW Department of Commerce
McKell Building
2-24 Rawson Place
SYDNEY NSW 2000
Contact: Philip Rose

45. Olivia Newton John Cancer Care Centre (March 2009 – Present)

Design for four high energy linear accelerators, planning simulator, brachytherapy and orthovoltage room. Provision of engineering advice for services, radiation protection issues for workers on site and construction supervision. Final survey and certification.

Architects: MSJ Architects
35 Richards Avenue
SURREY HILLS NSW 2010
Contact: John Zadro



Major Design and Consulting Projects

46. Royal North Shore Hospital Redevelopment (June 2009 – Present)

Design for three high energy accelerator bunkers, HDR brachytherapy, orthovoltage therapy, radiotherapy simulators, PET suite, Nuclear Medicine, medical imaging throughout the redevelopment and 131I therapy suite. Provision of engineering advice for services, radiation protection issues for workers on site and construction supervision. Final survey and certification.

Project Managers: Thiess
Site Office
Royal North Shore Hospital
Reserve Road
ST LEONARDS NSW 2065

Contact: Chris Billingham

47. New Orange Base Hospital (November 2008 – present)

Design for two high energy accelerator bunkers, orthovoltage, sim/CT and medical imaging throughout the new hospital. Provision of engineering advice for services, radiation protection issues for workers on site and construction supervision. Final survey and certification.

Project Managers: Hansen Yuncken
Site Office, Bloomfield
Forest Road
ORANGE NSW 2800

Contact: Ross Newham

48. Cairns Hospital (July 2008 – present)

Design for two high energy accelerator bunkers plus all ionising radiation facilities throughout the hospital. Design to Queensland requirements. Provision of engineering advice for services, radiation protection issues for workers on site and construction supervision.

Architects: Jackson/MSJ/FAB Pty. Ltd
POB 403
FORTITUDE VALLEY
QLD 4006

Contact: David Trott

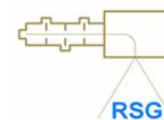
49. Mackay Hospital (July 2008 – present)

Design for all radiation equipment within the hospital redevelopment. Design to Queensland requirements. Provision of engineering advice for services, radiation protection issues for workers on site and construction supervision. Final survey and certification.

Architects: Woods Bagot
POB 7842
Waterfront Place
BRISBANE QLD 4000

Contact: Mary-Ann Bossom

**Company Profile for
Radiation Services Group
(RSG)**



Major Design and Consulting Projects

50. Royal Prince Alfred Hospital 6 (July 2008 – October 2009)

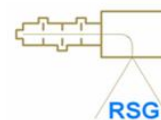
Design for additional high energy accelerator bunker. Provision of engineering advice for services, radiation protection issues for workers on site and construction supervision. Final survey and certification.

Client:	NSW Department of Commerce McKell Building 2-24 Rawson Place SYDNEY NSW 2000	Contact:	Angus Bell
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51. Sunway Medical Centre – Kuala Lumpur, Malaysia (November 2009 - present)

Design for three high energy linear accelerators, simulator and brachytherapy. Design to Malaysian requirements. Provide engineering and construction details. Liaise with regulators regarding relevant radiation issues.

Architects:	TAHPI Pty Ltd Suite 1, Ground Floor 68 Alfred Street MILSONS POINT NSW 2061	Contact:	Hai Sun TAN
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Normal Interaction of RSC with Project Team

Our experience in this field has provided insight into the role of a Radiation Design Consultant, which in the past has been rather nebulous due to the relatively recent emergence of the specialty.

The following outline of the scope of work for a design project gives a better idea of this role.

1. Schematic design.

Input during schematic design is limited to advice concerning general location of equipment/facilities in order that inappropriate conjunctions of rooms can be avoided and such factors as shielding weight are considered.

2. Design development.

This is by far the largest part of our consultant input. Included here are calculations of room shielding and presentation of construction alternatives. Wall weights are significant in areas shielded for ionising radiation. Also included herein are User Consultation & Briefing and liaison with the EPA to facilitate plan acceptance. Also included here are the shielding design reports for the end user and the EPA, as well as negotiation with local councils.

3. Construction documentation.

The various techniques required to establish and to maintain shielding integrity of walls and other barriers, consistent with construction techniques as specified, are covered in detail. Shielding materials required for walls, doors etc. and construction details are defined.

4. Site attendance.

During the construction phase, a principal of Radiation Services Group will regularly attend the site to monitor construction works to verify that shielding requirements are met. At completion of the works, a certificate verifying that the building complies with design constraints as advised by the relevant statutory authority (e.g. NSW EPA Radiation Control) and that shielding integrity is maintained throughout the structure (signing off and providing certification).

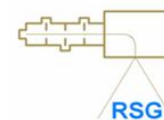
5. Assessment of existing rooms.

Shielding of existing rooms can be evaluated either by physical inspection (where possible) of walls and doors. If it is not possible to examine the construction of a particular barrier, then RSA uses an ²⁴¹Am source to estimate the shielding therein.

In some (very rare) cases a core drilling is required to finally ascertain wall construction. If this is required, then RSC provides supervision to a delegated contractor.

Shielding requirements are then calculated, compared to that existing and recommendations for additional shielding prepared.

**Company Profile for
Radiation Services Group
(RSG)**



Normal Interaction of RSC with Project Team

In order to simplify document transfer and to keep our interaction as seamless as possible, RSC has implemented the latest AUTOCAD as our drawing package. Documents are prepared under Microsoft Word 2007. All documentation can be delivered as hard copy, floppy disk, CD-ROM or by email.

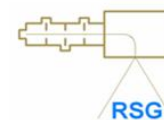
All of the above projects have readily satisfied the requirements of the appropriate regulatory authorities for the purposes for which they were designed.

Of great importance in this type of work, RSG carries insurance for public and product liability as well as trade practice and professional indemnity.

Email: Kevin Fitzsimmons kevin@radiationservices.net
 Dennis Zavasky dennis@radiationservices.net

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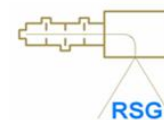


Past and Present Heavy Door Projects

1. Newcastle Mater Misericordiae Hospital, Newcastle
Shielding required for 18MV photoneutrons, power operated door.
2. Auckland Hospital, Auckland, New Zealand.
Shielding required for 18MV photoneutrons, power operated door.
3. Royal North Shore Hospital, Sydney.
Shielding required for 18MV photoneutrons, power operated door.
4. Westmead Centre of the Parramatta Hospital, Westmead.
Shielding required for 25MV photoneutrons, power operated door.
5. St. Marys Munitions Filling Factory, St Marys, N.S.W.
Specialised door due to munitions environment, shielding for photons, power operated sliding door.
6. Sydney University, Sydney.
Shielding for isotope room, manual door.
7. W.P. Holman Clinic, Hobart.
Shielding required for 18MV photoneutrons, power operated door.
8. Newcastle Mater Misericordiae Hospital, Newcastle, N.S.W.
Shielding required for 18MV photoneutrons, power operated door.
9. Prince of Wales Hospital, Sydney.
Shielding required for 18MV photoneutrons, power operated door.
10. Wellington Hospital, Wellington, New Zealand.
Shielding required for 18MV photoneutrons, power operated door.
11. Tien Mun Hospital, Hong Kong.
Shielding required for 18MV photoneutrons, power operated door.
12. Dunedin Hospital, New Zealand.
Shielding required for 18MV photoneutrons, power operated door.
13. Wollongong Hospital, Wollongong N.S.W.
Shielding required for 18MV photoneutrons, power operated door.
14. St. Vincent's Private, Sydney.
Shielding required for scattered photons, manual door.
15. Mater Misericordiae Hospital, Crows Nest.
Shielding required for scattered photons from 6MV linac, manual door.
16. Royal Adelaide Hospital.
Shielding required for 18MV photoneutrons, power operated sliding door.
17. Woden Valley Hospital.
Shielding required for 18MV photoneutrons plus for HDR brachytherapy, power operated doors. The brachytherapy door weighs approximately six tons.

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**Company Profile for
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(RSG)**



Past and Present Heavy Door Projects

18. Royal North Shore Hospital.

Shielding required for 18MV photoneutrons, power operated door.

19. Royal Prince Alfred Hospital.

Shielding required for 18MV photoneutrons, power operated door.

20. St. Vincent's Public Hospital, Sydney.

Shielding required for scattered photons, manual door.

21. W.P. Holman Clinic, Launceston.

Shielding required for 18MV photoneutrons, power operated door.

22. Prince of Wales Hospital.

Brachytherapy Door, power operated sliding door.

23. Liverpool Hospital.

Shielding required for 18MV photoneutrons, power operated door.

24. Townsville Hospital.

Three sets of scatter photon doors.

25. Queen Elizabeth Hospital, Hong Kong.

Shielding door for 18MV photoneutrons, power operated door.

26. Newcastle Mater Misericordiae Hospital.

Photon scatter doors for very small bunker.

27. Wollongong Hospital.

Photon scatter doors for maze entrance (power operated double doors) and under floor access door.

28. Wellington Hospital.

18MV photoneutron door for new bunker development. Power operated door.

29. Waikato Hospital.

18MV photoneutron door for new bunker development. Power operated door. Note that the low ceiling in the vicinity was not due to my input on this project.

30. Nepean Hospital

18MV photoneutron door for new bunker development. Power operated door.

31. Freemasons Hospital (Melbourne)

18MV photoneutron door for upgraded bunker. Power operated sliding door.

32. Canberra Hospital

18MV photoneutron door for upgraded bunker. Power operated swing door.

33. Royal Prince Alfred Hospital

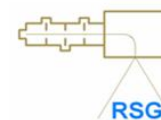
Door for high dose rate brachytherapy room. Power operated swing door.

34. Waikato Hospital

18MV photoneutron door for upgraded bunker. Power operated swing door.

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Email: info@radiationservices.net Web: www.radiationservices.net

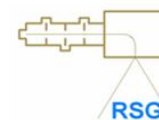
**Company Profile for
Radiation Services Group
(RSG)**



Past and Present Heavy Door Projects

35. B.P. Koirala Memorial Cancer Hospital, Bharatpur, Nepal
18MV photoneutron door for new bunker. Power operated swing door.
36. St. Teresa's Hospital, Kowloon, Hong Kong
25MV photoneutron door for new bunker. Power operated door.
37. Campbelltown Hospital, Campbelltown, NSW
18MV photoneutron door for new bunker. Power operated swing door.
- 38, 39. Epworth Hospital, Melbourne
25 MV photoneutron doors for two new bunkers. Hydraulically operated swing doors.
40. Franco Vietnamese Hospital, Ho Chi Min City, Vietnam
25MV photoneutron door for new bunker. Power operated swing door.
41. Hong Kong Sanatorium Hospital
18MV photoneutron door for new bunker. 3 tonne pneumatic operating sliding door.
- 42, 43. Royal Prince Alfred Hospital
18MV Hydraulically driven photoneutron doors for two new bunkers.
- 44-46. Australian Customs X-Ray Container Project – Three sites – Melbourne, Sydney and Brisbane
Pneumatic sliding door pairs located each end of building.
Each door leaf 2100mm x 5000mm x 1700kgs
- 47,48. Oncology Hospital, Ho Chi Min City, Vietnam – installed January 2004
2 hydraulically operated neutron absorbing doors for 21MV accelerator bunkers
49. Cardinal Santos Medical Centre, Manila, Philippines – installed December 2004
Hydraulically operated neutron absorbing door for 18MV accelerator bunker
- 50, 51. Princess Margaret Hospital, Hong Kong – installed January 2005
2 Hydraulically operated neutron absorbing doors for 18MV accelerator bunkers
52. St. Luke's Medical Centre, Quezon City, Philippines – installed January 2006
Hydraulically operated neutron absorbing door for 18MV accelerator
53. Waikato Hospital, Hamilton, New Zealand – installed March 2006
Hydraulically operated sliding neutron absorbing door for 18MV accelerator
- 54,55 Frankston Private Hospital, Frankston, Victoria – installed July 2006
2 hydraulically operated neutron absorbing doors for 18MV accelerators
- 56 Ringwood Private Hospital, Ringwood, Victoria – installed August 2006
Hydraulically operated neutron absorbing door for 18MV accelerator
- 57 St. John of God Hospital, Subiaco, WA – installed September 2006
Hydraulically operated photon shielding door for 192Ir HDR brachytherapy unit

**Company Profile for
Radiation Services Group
(RSG)**



Past and Present Heavy Door Projects

58,59 Mater Misericordiae Hospital, Newcastle, NSW – installed October 2006
2 hydraulically operated sliding neutron absorbing doors for 18MV accelerators

60 W.P. Holman Clinic, Launceston, Tasmania – installed July 2007
Hydraulically operated neutron absorbing door for 18MV linear accelerator

61,62 Canberra Hospital, Canberra, ACT – installed December 2007
2 Hydraulically operated neutron absorbing door for 18MV linear accelerator

63 W.P. Holman Clinic, Hobart, Tasmania – installed January 2008
Hydraulically operated neutron absorbing door for 18MV linear accelerator

64 St George Hospital Cancer Care Centre, Sydney, NSW – installed May 2008
Hydraulically operated neutron absorbing door for 18MV linear accelerator

65 Mercy Hospital, Auckland, New Zealand – installed May 2008
Hydraulically operated neutron absorbing door for 18MV linear accelerator

66. Prince of Wales Hospital, Hong Kong – installed November 2008
Hydraulically operated neutron absorbing door for 18MV linear accelerator

67. Australian Submarines, Adelaide, SA – installed November 2008
7 Tonne Sliding Door Hydraulically operated scatter door

68,69. Epping Medical Centre, Melbourne Victoria – installed Jan 2009
Hydraulically operated neutron absorbing door for 18MV linear accelerator

70,71. St Luke's Medical Centre, Taguig City, Philippines – installed 2009
Hydraulically operated neutron absorbing door for 18MV linear accelerator

72. Royal Prince Alfred Hospital Sydney New South Wales – installed Sept 2009
Hydraulically operated neutron absorbing door for 18MV linear accelerator

73. Orange Hospital NSW – installed 2009
Hydraulically operated neutron absorbing door for 18MV linear accelerator

74. Siloam Hospital, Jakarta
Hydraulically operated neutron absorbing door for 18MV linear accelerator

75. Macquarie University Private Hospital NSW – installed April 2010
Security Door for the gamma knife

76. Liverpool Hospital NSW – installed April 2010
Hydraulically operated neutron absorbing door for 18MV linear accelerator

77. Macquarie University Private Hospital NSW – installed May 2010
Hydraulically operated neutron absorbing door for 18MV linear accelerator

All doors on this list have been designed, manufactured and installed by RSA. Fabrication of components and rigging has been by specialist subcontractors when required.

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