

ENTRY NO. CU81 Date August 1995
 Cyclotron Model Scanditronix MC60 PF
 Institution Clatterbridge Centre for Onc. Douglas Cyc. Unit
 Address Clatterbridge Rd Bebington Wirral L63 4JY U.K.
 Tel +44 (0)151-334-6366 Telex
 Fax +44 (0)151-334-2845 E-MAILandrzejk@ccotrust.co.uk
 In Charge: A. Kacperek Reported by: A. Kacperek

HISTORY

MILESTONE DATES:
 Installation 1982/3 First Beam 1984
 DESIGN/CONSTRUCTION BY: Scanditronix MC60 PF
 COST: Accelerator £1.5million Facility £4.5 million
 FUNDED BY: Med. Res. Council (UK) UK Cancer Charities

STATUS

STAFF: Operators Technicians 5*
 BUDGET: Machine ± £250K Funded by in house
 TIME DISTRIBUTION: (e.g. basic research, isotope production, maintenance, etc.)
 (a) Proton treatment and QA 40 %
 (b) Radiobiology (Protons) 8 %
 (c) Isotopes production 2 %
 (d) Neutron treatment and QA 2 %
 (e) Maintenance & Projects 48 %
 * Technicians operate machine

CHARACTERISTIC BEAMS

Accelerated Ions	E/A (MeV/u)	Current (part µA)	
		Internal	External
(a) p	62.5	>100	50
(b) d			

1994 µA-hours on target: N/A (Proton therapy is main activity and requires relatively small current)

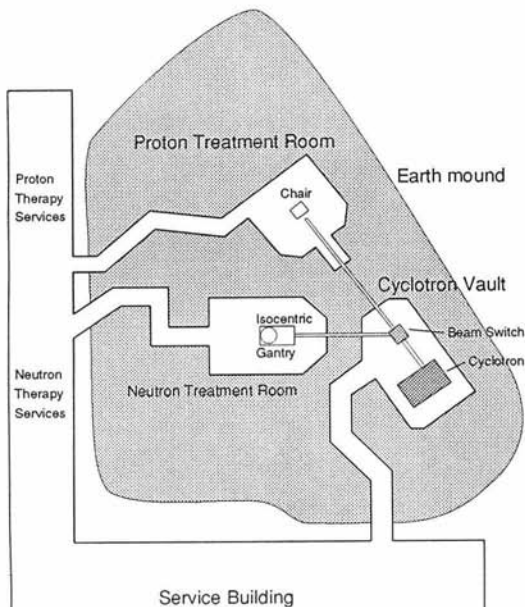
FACILITIES

SHIELDED AREA: Fixed: m² Moveable m²
 Target Stations: No. Served At Same Time: 1
 OTHER FACILITIES: Neutron Isocentric Gantry built by Scanditem.
 Proton Therapy equipment built in-house.
 Controlled by PDP11-23

REFERENCES/NOTES

- (a) D. E. Bonnett, et al., "The 62MeV proton beam for the treatment of ocular melanoma at Clatterbridge"
- (b) British Journal of Radiology 66, pp 907-914 (1993)

PLAN VIEW OF FACILITY, COMMENTS



ENTRY NO. CU82 Date October 12, 1995
 Cyclotron Model General Electric Petrace®
 Institution University of Cambridge Clinical School
 Address Wolfson Brain Imaging Centre
 Tel 44(0)1223 331814 Telex
 Fax 44(0)1223 336946 E-MAILjcc24@wbic.cam.ac.uk
 In Charge: Dr. J. C. Clark Reported by: Dr. J. C. Clark

HISTORY

MILESTONE DATES:
 Installation First Beam
 DESIGN/CONSTRUCTION BY: GE/Scanditronix
 COST: Accelerator Facility
 FUNDED BY: Wolfson Foundation

STATUS

STAFF: Operators None Technicians
 BUDGET: Machine Funded by
 TIME DISTRIBUTION: (e.g. basic research, isotope production, maintenance, etc.)
 (a) Isotope Production for PET 100 %
 (b) %
 (c) %
 (d) %
 (e) %

CHARACTERISTIC BEAMS

Accelerated Ions	E/A (MeV/u)	Current (part µA)	
		Internal	External
(a) proton			70
(b) deuteron			65

1994 µA-hours on target: New installation 1995

FACILITIES

SHIELDED AREA: Fixed: m² Moveable None m²
 Target Stations: 6 No. Served At Same Time: 2
 OTHER FACILITIES: PET scanner GE advance dedicated to neurointensive care research, neurosurgery, brain repair, anaesthetics, psychology

REFERENCES/NOTES

- (a)
- (b)

PLAN VIEW OF FACILITY, COMMENTS