ENTRY NO. CU85 **Date** August 1995

Cyclotron Model Scanditronix MC60 PF

Institution Clatterbridge Centre for Onc. Douglas Cyc. Unit

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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)			

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

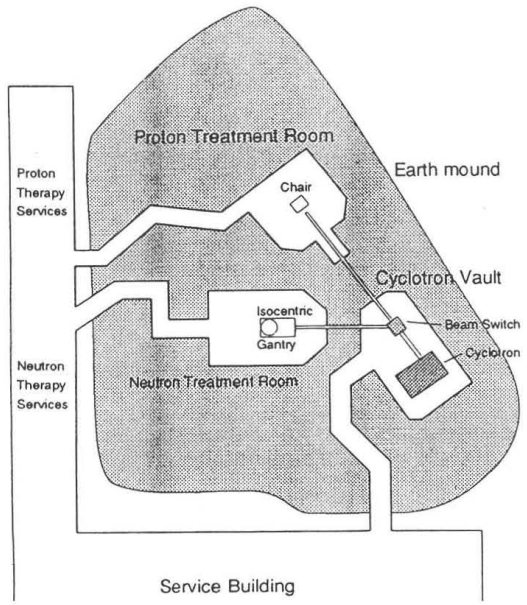
OTHER FACILITIES:

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
(b) treatment of ocular melanoma at Clatterbridge"
British Journal of Radiology 66, pp 907-914 (1993)

PLAN VIEW OF FACILITY, COMMENTS



ENTRY NO. CU86 **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-MAIL** jcc24@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