

ENTRY NO. CU83 Date 08/09/95  
 Cyclotron Model SCANDITRONIX MC40 MARK 2  
 Institution MEDICAL RESEARCH COUNCIL CLINICAL SCIENCES CENTRE  
 Address RPMS, HAMMERSMITH HOSPITAL, DUCANE ROAD, LONDON W12  
 Tel 0181-740 3162 Telex  
 Fax 0181-743 3987 E-MAIL B. MACKAY @ RPMS.AC.UK.  
 In Charge: M.L. RENTON Reported by: D.B. MACKAY

**HISTORY**

MILESTONE DATES:  
 Installation 1985 First Beam 1986  
 DESIGN/CONSTRUCTION BY: SCANDITRONIX AND MRC  
 COST: Accelerator £1M Facility £3M  
 FUNDED BY: MEDICAL RESEARCH COUNCIL

**STATUS**

STAFF: Operators 8 Technicians 2  
 BUDGET: Machine £50K Funded by MRC  
 TIME DISTRIBUTION: (e.g. basic research, isotope production, maintenance, etc.)  
 (a) PET TRACERS 70 %  
 (b) OFF-SITE MEDICAL ISOTOPE PRODUCTION 20 %  
 (c) MAINTENANCE DEVELOPMENT 10 %  
 (d) %  
 (e) %

**CHARACTERISTIC BEAMS**

Accelerated Ions	E/A (MeV/u)	Current (part $\mu$ A)	
		Internal	External
(a) PROTONS	40	300	100
(b) DEUTERONS/ALPHA	10	300/150	100/65
(c) $^3\text{He}$	17	150	70

1994  $\mu$ A-hours on target: 80,000

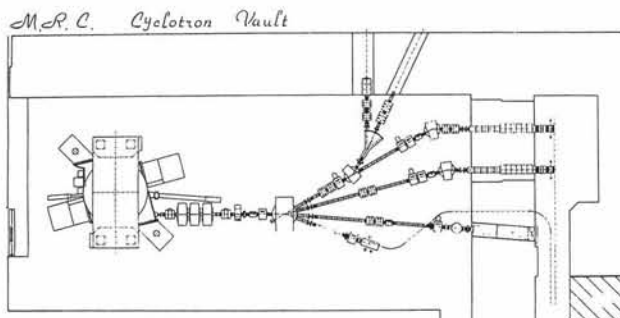
**FACILITIES**

SHIELDED AREA: Fixed: 80 m<sup>2</sup> Moveable m<sup>2</sup>  
 Target Stations: 5 No. Served At Same Time: 1  
 OTHER FACILITIES:  
 2 OF THE TARGET STATIONS HAVE ACTUATORS WHICH EACH CARRY UP TO 12 TARGETS  
 1 X CYCLONE 3 OXYGEN GENERATOR (IBA) - SEE SEPARATE ENTRY

**REFERENCES/NOTES**

(a) .....  
 (b) .....

**PLAN VIEW OF FACILITY, COMMENTS**



ENTRY NO. CU84 Date 08.09.95  
 Cyclotron Model CYCLONE 3 (IBA)  
 Institution MEDICAL RESEARCH COUNCIL CLINICAL SCIENCES CENTRE  
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 Tel 0181-740 3162 Telex  
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 In Charge: M.L. RENTON Reported by: D.B. MACKAY

**HISTORY**

MILESTONE DATES:  
 Installation FEBRUARY '91 First Beam MARCH '91  
 DESIGN/CONSTRUCTION BY: IBA  
 COST: Accelerator £500K Facility CONVERSION  
 FUNDED BY: ROYAL POSTGRADUATE MEDICAL SCHOOL

**STATUS**

STAFF: Operators Technicians  
 BUDGET: Machine Funded by  
 TIME DISTRIBUTION: (e.g. basic research, isotope production, maintenance, etc.)  
 (a)  $^{15}\text{O}$  PRODUCTION FOR PET (30-40 HOURS/WK) 95 %  
 (b) MAINTENANCE 2 HOURS/WK 5 %  
 (c) %  
 (d) %  
 (e) %

**CHARACTERISTIC BEAMS**

Accelerated Ions	E/A (MeV/u)	Current (part $\mu$ A)	
		Internal	External
(a) DEUTERONS	1.8	120	50
(b)			

1994  $\mu$ A-hours on target: 30,000

**FACILITIES**

SHIELDED AREA: Fixed: 75 m<sup>2</sup> Moveable m<sup>2</sup>  
 Target Stations: 1 No. Served At Same Time:  
 OTHER FACILITIES:  
 SEE OTHER ENTRY FOR MAIN FACILITIES

**REFERENCES/NOTES**

(a) .....  
 (b) .....

**PLAN VIEW OF FACILITY, COMMENTS**

