ENTRY NO. CU31 Date

Cyclotron Model CV-28 (The Cyclotron Corp.)
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In Charge: F. Dworschak Reported by: S. Berger
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HISTORY

MILESTONE DATES:
Installation 1974/75 First Beam 1976
DESIGN/CONSTRUCTION BY: The Cyclotron Corp.
COST: Accelerator $ 1 Mio Facility $ 2 Mio
FUNDED BY: German Government

STATUS

STAFF: Operators 4 Technicians 1
BUDGET: Machine $ 50.000/year Funded by German Governme
TIME DISTRIBUTION: (e.g. basic research, isotope production, maintenance, etc.)

Basic
(a) Isotope Production 20 %
(b) Nuclear Chemistry 25 %
(c) Solid State Physics 40 %
(d) Maintenance 15 %
(e) %

CHARACTERISTIC BEAMS

	Accelerated Ions	E/A (MeV/u)	Current (part μA) Internal	External
(a)	p, d	max. 24	max. 250	max. 70
(b)	α, ^{3}He			

1994 μA-hours on target: 2400 operating hours

FACILITIES

SHIELDED AREA: Fixed: 200 m² Moveable /..... m²
Target Stations: 7 No. Served At Same Time: max. 1
OTHER FACILITIES: pneumatic transfer for internal and external target

REFERENCES/NOTES

(a) J. Hemmerich et al., Kerntechnik 19, 67 (1970)
(b) F. Dworschak et al., EPAC 88, Rome 1988, p. 105
(c) Z. Kormany et al., EPAC 94, London 1994, p. 152

PLAN VIEW OF FACILITY, COMMENTS

ENTRY NO. CU32 Date

Cyclotron Model CV-28
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In Charge: Dr. F. Dworschak Reported by: Dr. S.M. Qaim

HISTORY

MILESTONE DATES:
Installation 1975 First Beam 1976
DESIGN/CONSTRUCTION BY: Cyclotron Corporation
COST: Accelerator Facility
FUNDED BY: KFA Jülich

STATUS

STAFF: Operators 5 Technicians
BUDGET: Machine Funded by
TIME DISTRIBUTION: (e.g. basic research, isotope production, maintenance, etc.)

(a) Basic research 50 %
(b) Isotope production 50 %
(c) %
(d) %
(e) %

CHARACTERISTIC BEAMS

	Accelerated Ions	E/A (MeV/u)	Current (part μA) Internal	External
(a)	p;d;	24; 14;)		
(b)	^{3}He;α;	36; 28;)	100	40

1994 μA-hours on target: ca. 20 000

FACILITIES

SHIELDED AREA: Fixed: ca. 300 m² Moveable m²
Target Stations: No. Served At Same Time:
OTHER FACILITIES:
Hot cells, radiochemistry laboratories

REFERENCES/NOTES

(a)
(b)

PLAN VIEW OF FACILITY, COMMENTS