NAME OF MACHINE CS-30 (TCC)	DATE_8/20/78
INSTITUTION <u>Nihon Medi-Physics</u> ADDRESS 4, 2-1, Takatsukasa, Ta	Co., Ltd. karazuka, Hyogo, Japan
IN CHARGE M. Hazue	REPORTED by S. Nakamoto
HISTORY AND STATUS	MAGNET
DESIGN, dateMODEL tests	POLE FACE diameter 96 cm; R extraction 42 cm
ENG. DESIGN, date	GAP, mincm; FieldkG
CONSTRUCTION, date 1974 AugNov.	GAP, min cm; Field kG at X 10 ⁶ max cm; Field kG AVERAGE FIELD at R ext 17.5 kG
FIRST BEAM date (or goal) NOV., 1974	AVERAGE FIELD at R ext 17.5 kg
MAJOR ALTERATIONS Addition of yoke	
iron, Dec., 1976	
OPERATION, hr/wk; On Target hr/wk	POLE FACE COIL PAIRS: AVF/sec;
TIME DIST., in house 100 %, outside 0 %	Harmonic correction
	Rad grad/sec or Circ coils6
COST, ACCELERATOR	WEIGHT: Fe ~ 20 tons; Coilstons
COST, FACILITY, total FUNDED BY in house	CONDUCTOR, Material and type <u>Alminum</u>
FUNDED BY in house	STORED ENERGYMJ
	COOLING SYSTEM Circulated demineralized water
ACCELERATOR STAFF, OPERATION and DEVELOPMENT	POWER: Main coils ~40 max, kW
SCIENTISTS ENGINEERS3	Trimming coils <u>~ 1</u> max, kW
TECHNICIANS 2 CRAFTS	YOKE/POLE AREA%
GRAD STUDENTS involved during year	SECTOR ANGLE (Sep Sec) deg
OPERATED BY Res staff or X Operators	ION ENERGY (Bending limit) $E/A =q^2/A^2 \text{ MeV}$
	(Focusing limit) E/A =q/A MeV
BUDGET, op & dev FUNDED BY in house	ACCELERATION SYSTEM
RESEARCH STAFF, not included above	DEES, number 2 angle 90 deg
USERS, in house outside	BEAM APERTUREcm; DC BIASkV
GRAD STUDENTS involved during year	
RES. BUDGET, in house	
FUNDED BY	
	HARMONICS, RF/Orb F, used DEE-Gnd, max25kV, min gapcm
FACILITIES FOR RESEARCH	STABILITY, (pk-pk noise)/(pk RF volt)
	RF PHASE stable to ±deg
SHIELDED AREA, fixed 87 m ²	RF POWER input, max ~25 kW
movablem ²	RF PROTECT circuit, speed
TARGET STATIONS 3 in 1 rooms	Type gap tube shortening
STATIONS served at same time, max0	FREQUENCY MODULATION, rate/sec
MAG SPECTROGRAPH, type	MODULATOR, type
COMPUTER, model	BEAM PULSE, width
OTHER FACILITIES	VACUUM SYSTEM
	PUMPS, No., Type, Size one 25cm, one 10cm
	diffusion pump
	OPERATING PRESSURE 10 µTorr,
REFERENCES/NOTES	PUMPDOWN TIME 0.5 hrs
	ION SOURCES/INJECTION SYSTEM PIG type
	EXTRACTION SYSTEM Electrostatic deflector + mag. channel control system manual

ENTRY NO. 36 (cont.)

CHARACTERIS	TIC BEAMS			BEAM PROPERTIES	
		Goal	Achieved	Measured Conditions	
	Particle	(Me∨)	(Me∨)	Pulse WidthRF degμA ofMeV	~
ENERGY			26 15 38	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	
CURRENT	ne-4_	(μΑ)	3U (μA)	(avial)	
Internal	<u>p</u> d	200	200	(mm-mrad) { axial radial } μA of MeV_ OPERATING PROGRAMS, time dist	
External	p	50	50	Basic Nuclear Physics	%
	d	50	50	Solid State Physics	%
				Bio-Medical Applications	%
				Isotope Production 95	%
Secondary		(part/s)	(part/s)	Development5	% %
					%

PLAN VIEW OF FACILITY, NOTEWORTHY FEATURES, OPERATION SUMMARY, ADDITIONAL REFERENCES

