INSTITUTION LOS ANGEIESS, CA CONTROL C	NAME OF MACHINE Biomedical Cyclotron	DATE 7-10-78
HISTORY AND STATUS DESIGN data (Cyclotron Corp; CS-22) 1970 ENG. DESIGN, data (Cyclotron Corp; Carp; CS-22) 1970 ENG. DESIGN, data (Cyclotron Corp; Factor Corp; CS-22) 1970 ENG. DESIGN, data (Cyclotron Corp; Factor Corp; CS-22) 1970 ENG. DESIGN, data (Cyclotron Corp; Factor Corp; CS-22) 1970 ENG. DESIGN, data (Cyclotron Corp; Factor Corp; Eng. Corp; Factor Corp; Eng. Corp; Factor Corp; Eng. Corp; Factor Corp; Factor Corp; Eng. Corp; Factor Corp; Eng. Corp; Factor Corp; Factor Corp; Eng. Corp; Factor Corp; Factor Corp; Eng. Corp; Factor Co	INSTITUTION . University of California	- Center for the Health Sciences
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MAGNET SOME CITE (CYCLOT MOBE COTE); CS-22) 1970 ENG. DESIGN, date CONSTRUCTION, date FIRST BEAM date (or goal) SOME OPERATIONS NOID MAJOR ALTERATIONS NOID OPERATION, 50 DEFACE QIameter OPERATION, 50 DEFACE COLL PAIRS: AVF 3 USERS' SCHEDULING CYCLE Weeks COST, ACCELERATOR COST, ACCELERATOR COST, ACCELERATOR COST, CACELLITY, total SOME COST, C	N.S. MacDonald, Ph.D.	N.S. MacDonald, Ph.D.
Constrict Cyclotrop Corp. CS-22 1970		
COMERCIAI (CYCIOTROB COPICS-22) 1970 ENG. DESIGN, date — ENG. DESIGN, date — CONSTRUCTION, date — FIRST BEAM date (or goal) 3-15-71 MAJOR ALTERATIONS NONE OPERATION, 50 hr/wk; On Target 24 hr/wk THE DIST, in house 100 %, outside 0 % USERS' SCHEDULING CYCLE weeks COST, FACILITY, total \$700,000 FUNDED BY AEC, University ACCELERATOR STAFF, OPERATION and DEVELOPMENT SCIENTIST 1 ENGINEERS 2 CRAFTS 1 GRAD STUDENTS involved during year 1 GRAD STUDENTS involved during year 1 FUNDED BY DOE RESEARCH STAFF, not included above USERS, in house 3 outside 2 GRAD STUDENTS involved during year 1 FUNDED BY DOE RESEARCH STAFF, not included above TEST BURGET, in house 100 % outside 2 GRAD STUDENTS involved during year 1 FUNDED BY DOE RESEARCH STAFF, not included above THE BURGET, in house 1 in 1 rooms STATIONS served at same time, max 1 in 1 rooms STATIONS served at same tim	HISTORY AND STATUS	MAGNET
ENC. DESIGN, date — CONSTRUCTION, date — FIRST BEAM date (or goal) 3-15-71 MAJOR ALTERATIONS NODE OPERATION, 50 hr/wk; On Target 24 hr/wk TIME DIST., in house 100 %, outside 0 % second corrections of the correction of the corr	Comercial (Cyclotron Corp; CS-22)	97 81
FIRST BEAM date (or goal) 3-15-71 MAJOR ALTERATIONS NONE OPERATION, 50 hr/kk; on Target 24 hr/wk USERS' SCHEDULING CYCLE weeks COST, ACCELERATOR		CAP min 5
FIRST BEAM date (or goal) 3-15-71 MAJOR ALTERATIONS NONE OPERATION, 50 hr/kk; on Target 24 hr/wk USERS' SCHEDULING CYCLE weeks COST, ACCELERATOR		$\frac{10}{10}$ cm; Field $\frac{10}{10}$ kG at $\frac{0.2}{10}$ X 10^6
OPERATION, SO hr/wk; on Target 24 hr/wk ITIME DIST., in house 10 0 %, outside 0 % USERS' SCHEDULING CYCLE weeks COST, ACCELERATOR	EIRST REAM date (or goal) 7 15 71	AVERAGE FIELD at Black 16 ampere turns
OPERATION, SO hr/wk; on Target 24 hr/wk ITIME DIST., in house 10 0, wouside 0, weeks COST, ACCELERATOR	MAJOR ALTERATIONS None	CUBBENT STABILITY ± 30 perts/106 B /(B) 1.25
OPERATION, SO hr/wk; on Target 24 hr/wk ITIME DIST., in house 10 0, wouside 0, weeks COST, ACCELERATOR	NOTE NOTE	NUMBER OF SECTORS 3 SPIRAL max 60 dec
TIME DIST., in house 100 %, outside 0 weeks USERS SCHEDULING CYCLE weeks COST, ACCLERATOR COST, FACILITY, total 6700,000 FUNDED BY AEC, University ACCELERATOR STAFF, OPERATION and DEVELOPMENT SCIENTISTS 1 ENGINEERS 2 TECHNICIANS 2 CRAFTS 1 GRAD STUDENTS injovived during year 1 FUNDED BY DOE RESEARCH STAFF, not included above USERS, in house 3 outside 2 GRAD STUDENTS involved during year 1 RES. BUDGET, in house 7 FUNDED BY DOE FACILITIES FOR RESEARCH SHELDED AREA, fixed noveled not be a mone movable none movable none movable none movable none movable none movable 1 TARGET STATIONS 1 in 1 rooms STATIONS served at same time, max 1 MAG SPECTROGRAPH, type COMPUTER, model 1 TIME DIST., in house 1 TOTAL THE PROJECT OF	OPERATION 50 br/wk: On Target 24 br/wk	POLE FACE COLL PAIRS: AVE 3 /sec
USERS SCHEDULING CYCLE COST, FACILITY, total \$700.000 FUNDED BY AEC, University ACCELERATOR STAFF, OPERATION and DEVELOPMENT SCIENTISTS 1 ENGINEERS 2 TECHNICIANS 2 CRAFTS GRAD STUDENTS involved during year 1 OPERATED BY DOE RESEARCH STAFF, not included above USERS, in house 3 outside 2 GRAD STUDENTS involved during year 1 SUSERS, in house 3 outside 2 GRAD STUDENTS involved during year 1 FUNDED BY DOE RESEARCH STAFF, not included above USERS, in house 3 outside 2 GRAD STUDENTS involved during year 1 FUNDED BY DOE RESEARCH STAFF, not included above USERS, in house 3 outside 2 GRAD STUDENTS involved during year 1 RES. RUDGET, in house 7 FUNDED BY DOE FACILITIES FOR RESEARCH SHIELDED AREA, fixed 7 movable 7 TARGET STATIONS 1 in 1 rooms STATIONS served at same time, max 1 MAG SPECTROGRAPH, type 7 OTHER FACILITIES 1 SISOTOP Production yes 1 irradiaton, solid state 9es 1 irradiaton, solid		Harmonic correction
COST, FACILITY, total \$700,000 FUNDED BY AEG, University ACCELERATOR STAFF, OPERATION and DEVELOPMENT SCIENTISTS 1 ENGINEERS 2 TECHNICIANS 2 CRAFTS - GRAFTS - GRAFTS - GRAD STUDENTS involved during year 1 Operators BUDGET, op & dev - FUNDED BY NOE RESEARCH STAFF, not included above USERS, in house 3 outside 2 GRAD STUDENTS involved during year 1 CRACLERATION SYSTEM RESEARCH STAFF, not included above USERS, in house 3 outside 2 TUNDED BY DOE RES. BUDGET, in house - GRAFTS - GRAFTS - GRAD STUDENTS involved during year 1 CRACLERATION SYSTEM PUNDED BY DOE FACILITIES FOR RESEARCH SHIELDED AREA, fixed		Rad grad /sec or Circ coils
CONDUCTOR, Material and type FUNDED BY AEC, University ACCELERATOR STAFF, OPERATION and DEVELOPMENT SCIENTISTS 1 ENGINEERS 2 TECHNICIANS 2 CRAFTS - GRAPTS		WEIGHT: Fe 24 tons: Coils tons
STORED ENERGY ACCELERATOR STAFF, OPERATION and DEVELOPMENT SCIENTISTS 1 ENGINEERS 2 TECHNICIANS 2 CRAFTS 1 GRAD STUDENTS involved during year OPERATED BY A Res staff or Operators BUDGET, op & dev FUNDED BY DOE RESEARCH STAFF, not included above USERS, in house 3 outside 2 GRAD STUDENTS involved during year 1 FUNDED BY DOE RES. BUDGET, in house 5 Outside 2 GRAD STUDENTS involved during year 1 FUNDED BY DOE FACILITIES FOR RESEARCH SHIELDED AREA, fixed 7 None move and substantial state yes Biological no time e-of-flight no THE FACILITIES TORES AND STATIONS erved at same time, max 1 Stations served at same time, max 1 Stations production yes irradiaton, solid state yes Biological no time e-of-flight no REFERENCES/NOTES STORED PERGY COOLING SYSTEM POWER: Main coils 30 KW max, kW Trimming coils max, kW YOKE/POLE AREA 100 98 SECTOR ANGLE (Sep Sec) deverage deverage and sectors of the country		
COOLING SYSTEM POWER: Main coils 30 kW max, kW POWER: Main coils 30 kW POWER: Main coi	FUNDED BY AFC University	
SCIENTISTS 1 ENGINEERS 2 TECHNICIANS CRAFTS 1 GRAD STUDENTS involved during year OPERATED BY Res staff or Operators BUDGET, op & dev FUNDED BY DOE RESEARCH STAFF, not included above USERS, in house 3 outside 2 GRAD STUDENTS involved during year 1 RES. BUDGET, in house 5 outside 2 GRAD STUDENTS involved during year 1 RES. BUDGET, in house 6 outside 2 GRAD STUDENTS involved during year 1 RES. BUDGET, in house 7 outside 2 GRAD STUDENTS involved during year 1 RES. BUDGET, in house 7 outside 2 GRAD STUDENTS involved during year 1 RES. BUDGET, in house 7 outside 2 GRAD STUDENTS involved during year 1 RES. BUDGET, in house 7 outside 2 GRAD STUDENTS involved during year 1 RES. BUDGET, in house 7 outside 2 GRAD STUDENTS involved during year 1 RES. BUDGET, in house 7 outside 2 GRAD STUDENTS involved during year 1 RES. BUDGET, in house 7 outside 2 GRAD STUDENTS involved during year 1 RES. BUDGET, in house 7 outside 2 GRAD STUDENTS involved during year 1 RES. BUDGET, in house 7 outside 2 GRAD STUDENTS involved during year 1 RES. BUDGET, in house 7 outside 2 GRAD STUDENTS involved during year 1 RES. BUDGET, in house 7 outside 2 GRAD STUDENTS involved during year 1 RES. BUDGET, in house 7 outside 2 GRAD STUDENTS involved during year 1 RES. BUDGET, in house 7 outside 2 GRAD STUDENTS involved during year 1 RES. BUDGET, in house 7 outside 2 BEAM APERTURE 4 cm; DC BIAS 2.5 kN TUNED by p. coarse STRAPS fine VC auto RF 12 to 25 mHz, stable ± 10 //10 //10 Orb F - to - mHz; GAIN, max - kV/trun HARMONICS, RF/Orb F, used - mHz; GAIN, max - kV/trun HARMONICS, RF/Orb F, used - mHz; GAIN, max - kV/trun HARMONICS, RF/Orb F, used - mHz; GAIN, max - kV/trun HARMONICS, RF/Orb F, used - mHz; GAIN, max - kV/trun HARMONICS, RF/Orb F, used - mHz; GAIN, max - kV/trun HARMONICS, RF/Orb F, used - mHz; GAIN, max - kV/trun HARMONICS, RF/Orb F, used - mHz; GAIN, max - kV/trun HARMONICS, RF/Orb F, used - mHz; GAIN, max - kV/trun HARMONICS, RF/Orb F, used - mHz; GAIN, max - kV/trun HARMONICS, RF/Orb F, used - mHz; GAIN, max - kV/trun HARMONICS, RF/Orb	TEG, UNIVERSITY	
SCIENTISTS 1 ENGINEERS 2 TECHNICIANS CRAFTS 1 GRAD STUDENTS involved during year OPERATED BY Res staff or Operators BUDGET, op & dev FUNDED BY DOE RESEARCH STAFF, not included above USERS, in house 3 outside 2 GRAD STUDENTS involved during year 1 RES. BUDGET, in house 5 outside 2 GRAD STUDENTS involved during year 1 RES. BUDGET, in house 6 outside 2 GRAD STUDENTS involved during year 1 RES. BUDGET, in house 7 outside 2 GRAD STUDENTS involved during year 1 RES. BUDGET, in house 7 outside 2 GRAD STUDENTS involved during year 1 RES. BUDGET, in house 7 outside 2 GRAD STUDENTS involved during year 1 RES. BUDGET, in house 7 outside 2 GRAD STUDENTS involved during year 1 RES. BUDGET, in house 7 outside 2 GRAD STUDENTS involved during year 1 RES. BUDGET, in house 7 outside 2 GRAD STUDENTS involved during year 1 RES. BUDGET, in house 7 outside 2 GRAD STUDENTS involved during year 1 RES. BUDGET, in house 7 outside 2 GRAD STUDENTS involved during year 1 RES. BUDGET, in house 7 outside 2 GRAD STUDENTS involved during year 1 RES. BUDGET, in house 7 outside 2 GRAD STUDENTS involved during year 1 RES. BUDGET, in house 7 outside 2 GRAD STUDENTS involved during year 1 RES. BUDGET, in house 7 outside 2 GRAD STUDENTS involved during year 1 RES. BUDGET, in house 7 outside 2 GRAD STUDENTS involved during year 1 RES. BUDGET, in house 7 outside 2 BEAM APERTURE 4 cm; DC BIAS 2.5 kN TUNED by p. coarse STRAPS fine VC auto RF 12 to 25 mHz, stable ± 10 //10 //10 Orb F - to - mHz; GAIN, max - kV/trun HARMONICS, RF/Orb F, used - mHz; GAIN, max - kV/trun HARMONICS, RF/Orb F, used - mHz; GAIN, max - kV/trun HARMONICS, RF/Orb F, used - mHz; GAIN, max - kV/trun HARMONICS, RF/Orb F, used - mHz; GAIN, max - kV/trun HARMONICS, RF/Orb F, used - mHz; GAIN, max - kV/trun HARMONICS, RF/Orb F, used - mHz; GAIN, max - kV/trun HARMONICS, RF/Orb F, used - mHz; GAIN, max - kV/trun HARMONICS, RF/Orb F, used - mHz; GAIN, max - kV/trun HARMONICS, RF/Orb F, used - mHz; GAIN, max - kV/trun HARMONICS, RF/Orb F, used - mHz; GAIN, max - kV/trun HARMONICS, RF/Orb	ACCELERATOR STAFF, OPERATION and DEVELOPMENT	POWER: Main coils 30 KW max, kW
SECTOR ANGLE (Sep Sec)		Trimming coilsmax, kW
SECTOR ANGLE (Sep Sec)	SCIENTISTS ENGINEERS	YOKE/POLE AREA 100 %
OPERATED BY X Res staff or Operators BUDGET, op & dev	TECHNICIANS CRAFTS	SECTOR ANGLE (Sep Sec) deg
Cocusing limit) E/A =q/A MeV		ION ENERGY (Bending limit) E/A =q ² /A ² MeV
RESEARCH STAFF, not included above USERS, in house 3 outside 2 GRAD STUDENTS involved during year 1	OPERATED BY Res staff or Operators	(Focusing limit) E/A = q/A MeV
RESEARCH STAFF, not included above USERS, in house 3 outside 2 GRAD STUDENTS involved during year 1 RES. BUDGET, in house DOE RES. BUDGET, in house DOE FACILITIES FOR RESEARCH SHIELDED AREA, fixed Movable DAG at a same time, max 1 mone STATIONS served at same time, max 1 mone STATIONS served at same time, max 1 mone STATIONS served at same time, max 1 mone DOE OTHER FACILITIES SIGNARPH, type DOE OTHER FACILITIES SIGNARPH, type SIGNAMOPPER, model Tradiaton, solid state Yes Biological No time - of-fflight No REFERENCES/NOTES DEES, number 2 angle 180 de BEAM APERTURE 4 cm; DC BIAS 2.5 kV min pag 1 TO N SURGES/INJECTION SYSTEM Penning Cold Cathode BEAM APERTURE 4 cm; DC BIAS 2.5 kV TUNED by, coarse Straps fine VC auto RF 12 to 25 mHz, stable ± 10 //10° Orb F to mHz; GAIN, max kV/ture HARMONICS, RF/Orb F, used mone MRT, Cleft Research Straps fine VC auto RF 12 to 25 mHz, stable ± 10 //10° Orb F to mHz; GAIN, max kV/ture HARMONICS, RF/Orb F, used mone MRT, Cleft Research Straps fine VC auto RF 12 to 25 mHz, stable ± 10 //10° Orb F to mHz; GAIN, max kV/ture HARMONICS, RF/Orb F, used mone MRT, Cleft Research Straps fine VC auto RF 12 to 25 mHz, stable ± 10 //10° Orb F to mHz; GAIN, max kV/ture HARMONICS, RF/Orb F, used mone MRT, Cleft Research Straps fine VC auto RF 12 to 25 mHz, stable ± 10 //10° Orb F mHz; GAIN, max kV/ture HARMONICS, RF/Orb F, used mone MRT, Cleft Research Straps fine VC auto RF 12 to 25 mHz, stable ± 10 //10° Orb F mHz; GAIN, max kV/ture HARMONICS, RF/Orb F, used mone MRT, cleft Research Straps fine VC auto RF 12 to 25 mHz, stable ± 10 //10° Orb F mHz; GAIN, max kV/ture HARMONICS, RF/Orb F, used mone MRT, cleft Research Straps fine MRT, cleft Research	EUNDED BY	Penning Cold Cathode
USERS, in house 3 outside 2 USERS, in house 3 outside 2 GRAD STUDENTS involved during year 1 RES. BUDGET, in house	PONDED BY	
USERS, in house 3 outside 2 TUNED by, coarse StrapS fine VC auto RES. BUDGET, in house 7 Orb F 12 to 25 mHz, stable ± 10 /10 RES. BUDGET, in house 7 Orb F 12 to 7 mHz; GAIN, max 7 kV/turn FUNDED BY DOE	DESEARCH STAFE not included above	DEES, number $\frac{2}{}$ angle $\frac{180}{}$ de
GRAD STUDENTS involved during year 1 RES. BUDGET, in house		
RES. BUDGET, in house FUNDED BY DOE HARMONICS, RF/Orb F, used DEE-Gnd, max 25 kV, min gap 1 cn STABILITY, (pk-pk noise)/(pk RF volt) 17./12kv RF PHASE stable to ± de RF POWER input, max 150 kV RF PHOTECT circuit, speed use Type ign. crowbar FREQUENCY MODULATION, rate // sem MODULATOR, type Biological no tim e-of-flight no REFERENCES/NOTES Orbor To mHz; GAIN, max kV/turn HARMONICS, RF/Orb F, used DEE-Gnd, max 25 kV, min gap 1 cn STABILITY, (pk-pk noise)/(pk RF volt) 17./12kv RF PHASE stable to ± de RF POWER input, max 150 kV RF PROTECT circuit, speed use Type ign. crowbar FREQUENCY MODULATION, rate // sem MODULATOR, type BEAM PULSE, width VACUUM SYSTEM PUMPS, No., Type, Size PUMPS, No., Type, Size // pumpown TIME // hr ION SOURCES/INJECTION SYSTEM Penning Cold Cathode EXTRACTION SYSTEM dc electrostatic, mag. channel	USERS, in house 3 outside 4	TUNED by, coarse straps fine vc auto
FUNDED BY DOE HARMONICS, RF/Orb F, used DEE-Gnd, max 25 kV, min gap 1 cn STABILITY, (pk-pk noise)/(pk RF volt) 17./12kV RF PHASE stable to ± de RF POWER input, max 150 kV RF PROTECT circuit, speed use STATIONS served at same time, max 1 MAG SPECTROGRAPH, type MODULATION, rate / sem MODULATOR, type / BEAM PULSE, width OTHER FACILITIES / isotope production yes irradiaton, solid state yes / Biological no tim e-of-flight no REFERENCES/NOTES HARMONICS, RF/Orb F, used / DEE-Gnd, max 25 kV, min gap 1 cn STABILITY, (pk-pk noise)/(pk RF volt) 17./12kV RF PHASE stable to ± de RF POWER input, max 150 kV RF PROTECT circuit, speed use MODULATION, rate / sem MODULATION, rate / sem MODULATOR, type BEAM PULSE, width VACUUM SYSTEM PUMPS, No., Type, Size PUMPDOWN TIME	GRAD STUDENTS involved during year1	
FACILITIES FOR RESEARCH SHIELDED AREA, fixed	RES. BUDGET, in house	
SHIELDED AREA, fixed	LONDED BA DOE	
SHIELDED AREA, fixed	EACH LITTER FOR DECEADOR	
movable none none none none none none none no		
TARGET STATIONS 1 in 1 rooms STATIONS served at same time, max 1 MAG SPECTROGRAPH, type COMPUTER, model OTHER FACILITIES isotope production yes irradiaton, solid state yes Biological time-of-flight no REFERENCES/NOTES PUMPDOWN TIME	SHIELDED AREA, fixed m ²	
Typeign.crowbar NODULATION, rate/set MODULATION, rat	movable none m ²	
STATIONS served at same time, max 1 MAG SPECTROGRAPH, type COMPUTER, model OTHER FACILITIES isotope production yes irradiaton, solid state yes Biological no tim e-of-flight no REFERENCES/NOTES PUMPS, No., Type, Size PUMPDOWN TIME	TARGET STATIONS 1 in 1 rooms	
MODULATOR, type COMPUTER, model OTHER FACILITIES isotope production yes irradiaton, solid state yes Biological no tim e-of-flight no REFERENCES/NOTES MODULATOR, type BEAM PULSE, width VACUUM SYSTEM PUMPS, No., Type, Size PUMPS, No., Type, Size PUMPDOWN TIME ION SOURCES/INJECTION SYSTEM Penning Cold Cathode EXTRACTION SYSTEM dc electrostatic, mag. channel		
OTHER FACILITIES isotope production yes irradiaton, solid state yes Biological tim e-of-flight REFERENCES/NOTES BEAM PULSE, width VACUUM SYSTEM PUMPS, No., Type, Size OPERATING PRESSURE PUMPDOWN TIME ION SOURCES/INJECTION SYSTEM Penning Cold Cathode EXTRACTION SYSTEM dc electrostatic, mag. channel	MAG SPECTROGRAPH, type	
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irradiaton, solid state yes Biological no tim e-of-flight no REFERENCES/NOTES PUMPS, No., Type, Size		BEAM FOESE, WIGHT
Biological no tim e-of-flight no REFERENCES/NOTES OPERATING PRESSURE		VACUUM SYSTEM
Tim e-of-flight no REFERENCES/NOTES OPERATING PRESSURE		PUMPS, No., Type, Size
TIM e-of-flight no OPERATING PRESSURE	Biological no	
PUMPDOWN TIME	tim e-of-flight no	
Penning Cold Cathode EXTRACTION SYSTEM dc electrostatic, mag. channel	REFERENCES/NOTES	
EXTRACTION SYSTEM dc electrostatic, mag. channel		
EXTRACTION SYSTEM dc electrostatic, mag. channel		ion sources/injection system Penning Cold Cathode
		-
		EVED ACTION CVCTEM
		de electrostatie, mag. channel
		CONTROL SYSTEM

ENTRY NO. 82 (cont.)

CHARACTERISTIC BEAMS

BEAM PROPERTIES

		Goal	Achieved		Measured	Condition	ns
	Particle	(Me∨)	(Me∨)	Pulse Width _	RF deg	μA of	MeV
ENERGY	p	22.1	22.1	Phase Exc, max	RF deg	μA of	_MeV
	z d	12.2	12.2	Extract Eff 60-	70% 10	0_μA of <u>22</u>	_MeV +
	He	31.6	31.6	Res, ΔE/E	%	μA of	_MeV
				Emittance			
CURRENT Internal	_ p		.6100	(mm-mrad) { -	axial }	μA of	_ Me V
	3 ^d	200	750			_	
	Не	100	90	OPERATING PRO	OGRAMS, time d	ist	
External	α	100	95	Basic Nuclear P	hysics		%
	Р		_52	Solid State Phy	sics		%
	3 ^d		75	Bio-Medical Ap	plications		%
	He		50	Isotope Produc	tion100_		%
	α	(part/s)	(part/s) 55	Development			%
Secondary							%
	-						%

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

Principal Use: Preparing radionuclides for the nuclear medicine clinic of the hospital, and for research in biology and medicine

Quantitative analyses of Oxygen-18 in small water samples of biological origin by proton activation to Fluorine-18 are routine.