NAME OF MACHINE SARA Rhone-Alpes Acce	
INSTITUTION Institut des Sciences Nuclé	aires Grenoble and Inst.Phys.Nucl.
ADDRESS 53 Avenue des Martyrs 38026 (GRENOBLE CEDEX (Lyon)
IN CHARGE J.M. LOISEAUX	REPORTED by M. LIEUVIN, J.M. LOISEAUX
HISTORY AND STATUS	MAGNET 4 x 48° sectors
DESIGN, date 1976 MODEL tests 1977	POLE FACE diametercm; R extraction 2108cm
ENG. DESIGN, date 1976 - 1977	
CONSTRUCTION, date beginning 1977	GAP, min 6 cm; Field 14.5 kG at 89.6 X 10 at 89.6 X 10
FIRST BEAM date (or goal) 1980	AVERAGE FIELD at R ext kG ampere turns
MAJOR ALTERATIONS	CURRENT STABILITYparts/10 ⁶ ; B _{max} /⟨B⟩
	NUMBER OF SECTORS ; SPIRAL, maxdeg
OPERATION, hr/wk; On Target hr/wk	POLE FACE COIL PAIRS: AVF/sec;
TIME DIST., in house%, outside%	Harmonic correction
LISERS' COLERAN INC. OVOLE	Rad grad/sec or Circ coils
COST, ACCELERATOR 1.5 . 106 (1976) COST FACILITY total Existing	WEIGHT: Fe 100 tons; Coils 1 tons
COST, FACILITY, total Existing	CONDUCTOR, Material and type Cu 14 x 14 mm ²
FUNDED BY I N2 P3 - CNRS	STORED ENERGYMJ
	COOLING SYSTEM Water
ACCELERATOR STAFF, OPERATION and DEVELOPMENT	POWER: Main coils 46/Sector max, kW
20151171070	Trimming coils 2.5/Sector max, kW
SCIENTISTS ENGINEERS	YOKE/POLE AREA%
TECHNICIANS CRAFTS	SECTOR ANGLE (Sep Sec) 48deg
GRAD STUDENTS involved during year	ION ENERGY (Bending limit) $E/A = 120$ q^2/A^2 MeV
OPERATED BY Res staff or Operators	(Focusing limit) E/A =q/A MeV
BUDGET, op & dev	
FUNDED BY	ACCELERATION SYSTEM
RESEARCH STAFF, not included above	DEES, number 2 angle 34 deg
	BEAM APERTURE 3 cm; DC BIAS O kV
USERS, in house outside	TUNED by, coarse Mov. Pan. fine Mov. Pan
GRAD STUDENTS involved during year	RF_ 15 to 25 mHz, stable ± /10 ⁶
RES. BUDGET, in house	Orb F 3.5 to 6.1 mHz; GAIN, max 400 kV/turn
FUNDED BY	HARMONICS, RF/Orb F, used 3, 4, 5, 6
FACILITIES FOR RESEARCH	DEE-Gnd, max 100 kV, min gapcm
	STABILITY, (pk-pk noise)/(pk RF volt)
SHIELDED AREA, fixedm ²	RF PHASE stable to ±deg
movablem ²	RF POWER input, max kW
TARGET STATIONS in rooms	RF PROTECT circuit, speed
STATIONS served at same time, max	Type CROWBAR
MAG SPECTROGRAPH, type	FREQUENCY MODULATION, rate/sec
COMPUTER, model	MODULATOR, type
OTHER FACILITIES	BEAM PULSE, width
	VACUUM SYSTEM
	PUMPS, No., Type, Size 4 Dif. Pumps
	OPERATING PRESSURE 1 µTorr,
REFERENCES/NOTES	· · · · · · · · · · · · · · · · · · ·
	PUMPDOWN TIME hrs
 Projet Post Accelerateur Grenoble Int. Report. March 76 	Stripping in the first orbit
- Rhône Alpes Acceleration System	
Berlin Conference April 76	EXTRACTION SYSTEM Elect. Deflec + Mag. channels
	CONTROL SYSTEM

ENTRY NO. 16 (cont.)

CHARACTERISTIC BEAMS			BEAM PROPERTIES						
		Goal	Achieved	Measured		Conditions			
	Particle	(Me∨)	(Me∨)	Pulse Width	RF deg	μA of	MeV		
20 ₁	$^{12}\mathrm{c}$	360		Phase Exc, max	RF deg	μA of	MeV		
	$^{2O}_{ m Ne}$	600		Extract Eff	%	μA of	MeV		
	40 _{Ar}	600		Res, $\Delta E/E$	%	μA of	MeV		
				Emittance					
CURRENT Internal		(μA)	(μΑ)	(mm-mrad) {	axial radial }	μA of	MeV		
External 12 _C 6+ 20 _{Ne} 10				OPERATING PROGRAMS, time dist					
	_5.2C	<u>4</u> eμA		Basic Nuclear Ph	nysics			_%	
		1.6еµА		Solid State Phys	ics			_%	
	40Ar	<u>.5eμA</u>		Bio-Medical Applications				_%	
Secondary				Isotope Product	ion		· · · · · · · · · · · · · · · · · · ·	_%	
		(part/s)	(part/s)	Development				_%	
								_ %	
								%	

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

