

**EUROPEAN ORGANISATION FOR NUCLEAR RESEARCH  
ORGANISATION EUROPEENNE POUR LA RECHERCHE NUCLEAIRE**

PS/PA Note 89-32  
**Rév. 1 - 21.05.1990**  
**Rév. 2 - 02.03.1991**

**SAFETY INSTRUCTIONS FOR EXPERIMENTS PS195**

L. Danloy/PS et G. Kessler/EF

Geneva, March 2nd, 1991

### 1. UPDATING OF ANNEXES 1 AND 3; ANNEX 8 (new)

The updated and new annexes are attached.

### 2. COMMENTS ABOUT RADIATION SAFETY

The area with an access control through the door 73 was reshaped, the spectrometer (iron and lead) being integrated in the shielding wall and a lead shutter being installed downstream this spectrometer, along the axial beam line.

Two additional conditions are requested for the opening of the beam stopper:

- the polarity of the magnetic field in the bending magnet BHN01 (M111) in the line s0 must be for bending antiprotons.
- the lead shutter must be closed

The access at the electronic racks along the spectrometer is free as long as the foreseen limit conditions are satisfied:

- \* maximum momentum of antiprotons: 300 MeV/c
- \* admissible maximum intensity  $\leq 3 * 10^6 \text{ s}^{-1}$ .

### 3. COPIES

You can get copies of this note by taking contact with the PA secretariat (phone: 2438) or with the PS195 secretariat (phone: 5090).

L. Danloy

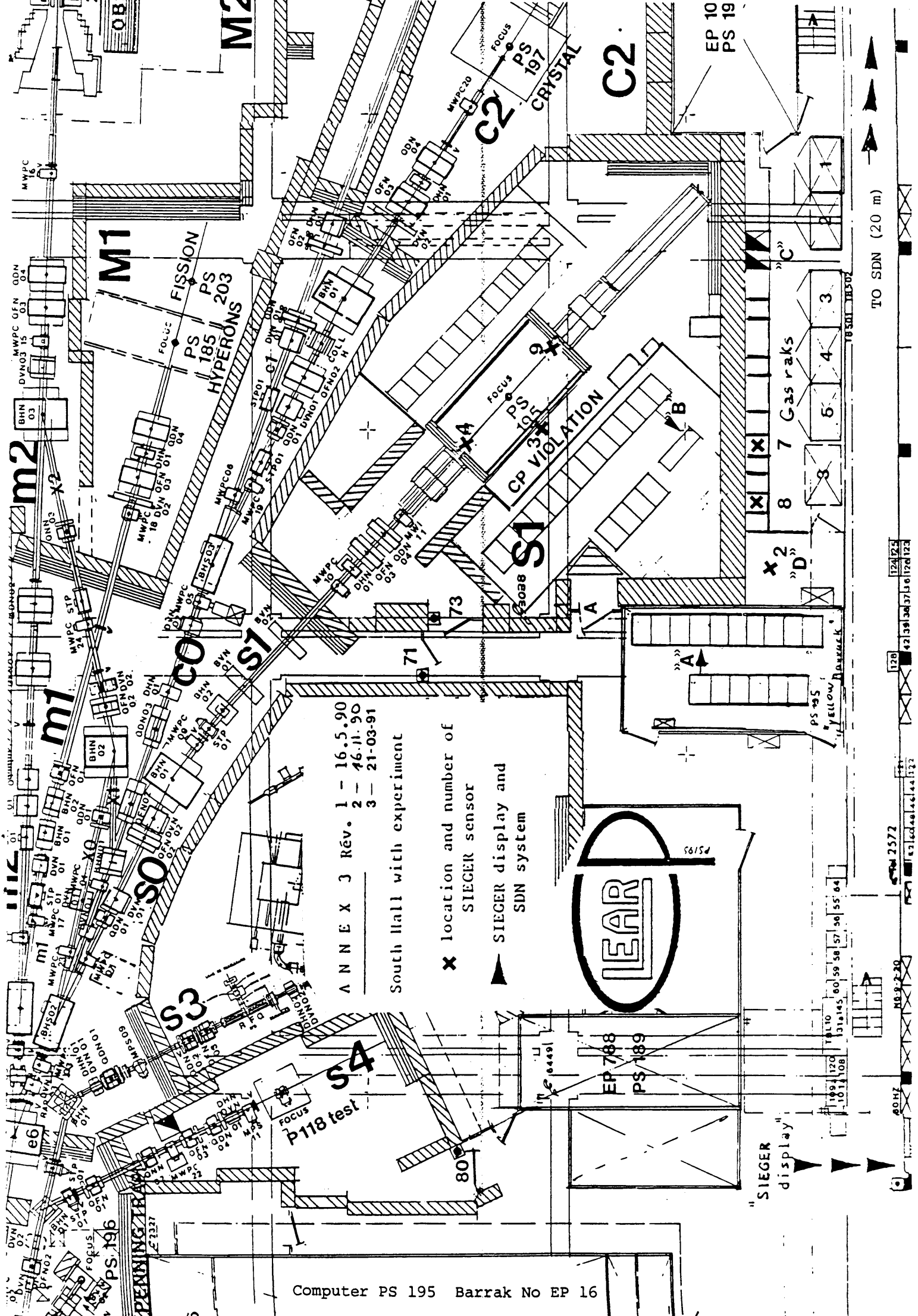
L. Tauscher

Names, phone numbers and addresses of responsible persons

Function, responsibility	Name (s)	CERN Tel. No	Private address
Group Leader	P. Pavlopoulos	4258 13+7132	Chateau des Bains 12 Sergy Tel. (10) 50 42 26 29
Group Leader in Matter of Safety (GLIMOS)	L. Tauscher	3025	5, Chemin Croix-Bovet F - 01170 GEX Tel. (10) 50 41 62 06
Deputy GLIMOS	M. Droege	6314 - 5090 13 + 7283	9d Av. Alfred Cortot CH-1260 -NYON Tel. 022-62 30 21
Flammable Gas and Territorial Safety Officer	L. Danloy	2625 13+3027	Rue de la Prulay 54 1217 Meyrin Tel. 782 90 49
Radiation Safety Officer (PS)	M. Martini	4045	30, rue des Hautins 01630 Saint-Genis-Pouilly Tel. (10) 50 42 26 11
Territorial Safety, gas supply	M. Zahnd	3478 13+3132	Ch. Grand-Puits 68 1217 Meyrin Tel. 782 92 17
	D. Mouton	2498	Chemin Taverney 5 Grand-Saconnex Tel. 798 35 39
Electrical Safety Linkman, holder of XGAS card	D. Guyon	3307 13+7242	Chemin des Vignes 9 Saint-Genis-Pouilly Tel. (10) 50 42 00 20
Gas systems (CAL, ST, PC1/2)	D. Fromm	2332 13+7038	Villeneuve-Crozet Tel. (10) 50 41 05 74
	P. Dechelette	4414 13+7170	

... / ...

Function, responsibility	Name (s)	CERN Tel. No	Private address
Gaz System (DC)	M. Duclos	5833	SACLAY tel. int. 7305
Target H2 supply	P. Kreuger	4131	
Gas supply to PC	P.C. Kettle	3088	
Gas supply to DC	M. Duclos F. Louis	5833 6324/5912	
Gas supply to ST	M. Dogson	3427	
Gas supply to CAL	M. Fidecaro	2304	



ANNEX 3 Rév. 1 - 16.5.90  
 2 - 16.11.90  
 3 - 21-03-91

South Hall with experiment

- X location and number of SIEGER sensor
- ▲ SIEGER display and SDN system



"SIEGER display"

TO SDN (20 m)

## ACTIONS IN CASE OF A GAS ALARM

The presence of flammable Gases in the Experimental AREA will be indicated by Sensors of the "SIEGER" and/or the SDN System. Their positions are marked (**S2...S4** and **S7...S9**) on the Sketch below. (Annex 3).

There are 2 Alarm Levels:

### ALARM LEVEL 1 = PRE-WARNING:

(It will be communicated from the MCR\*).

**First check wether there is an obvious reason** for the Alarm such as someone spilling Methylal during refill or cleaning with Alcohol in the proximity of a Sensor..

**If no such reason exists**, call one of the Persons listed below, who will try to locate the Gas Source with a Hand-Held Detector.

### ALARM LEVEL 2 = IMMEDIATE DANGER

The **FIRE BRIGADE** will be AUTOMATICALLY ALARMED and appear within a few Minutes. They will verify the REASONS for the ALARM. If the Alarm was triggered by the SDN System you might on request of the FIRE BRIGADE have to be prepared to:

**run the Magnet Current to Zero** (Push the "STOP" Button on the Magnet Control Panel in the "Yellow Barrack", Position "A" on the Sketch);

**cut the Power Supply for the Racks in the Area** by turning the big black Handle at the bottom of the "Orange" Rack N°3 to HORIZONTAL, (Position "B" on the Sketch)

**close only those Valves which supply flammable Gases** (indicated "EMERGENCY VALVE") to the various Detectors on the Main-Distribution-Rack N°3 (Position "C" on the Sketch) AND in the Calorimeter Gas Supply Cage (Position "D" on the Sketch).

**The ARGON flow to the PC's and DC's must continue!**

**ATTENTION: don't touch the Valves of PS 197!**

Names of Gas Specialists:

L.Danloy/PS	2625	13-3027
D.Mouton/PS	2498	
M.Zahnd/PS	3478	13-3132

MCR\* = PS Main Control Room

For more Informations: < PS/PA-I Note 89 - 32 SAFETY INSTRUCTIONS FOR PS 195 EXPERIMENT >  
available from " GLIMOS": L.TAUSCHER Tel.: 3025

## DISTRIBUTION

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