Acist Healthcare

Vault Access System

Push button 1
(Round Safety Process)

Optional Probe

Cyclotron Interlocks

CYCLOTRON

Audible Signal

Cyclotron signal report

Push button 2
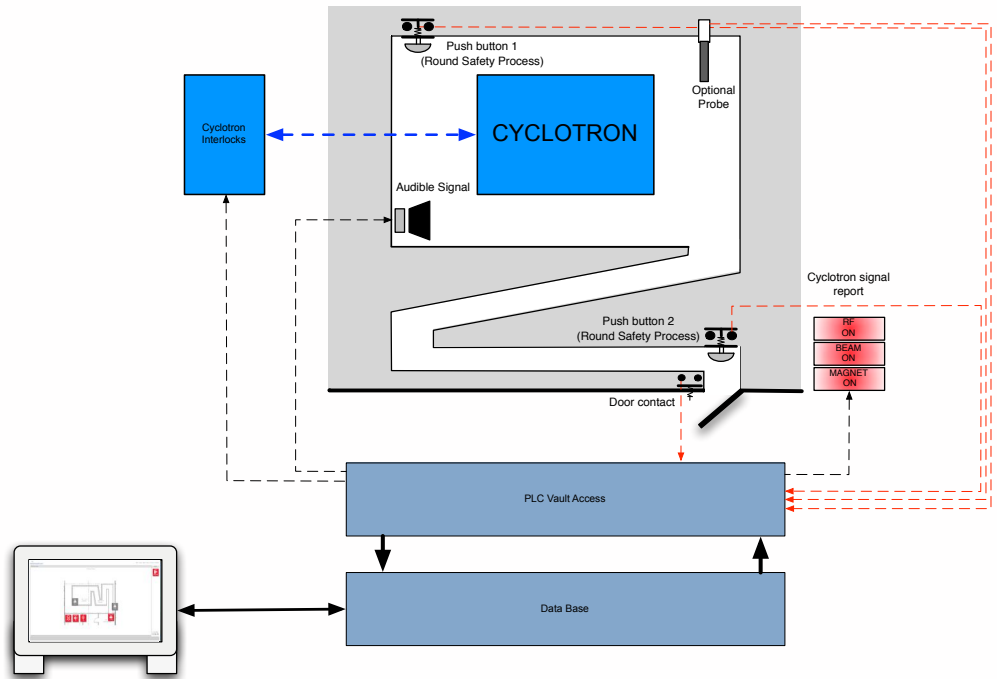(Round Safety Process)

RF ON
BEAM ON
MAGNET ON

Door contact

PLC Vault Access

Data Base

Vault Access System :

V.A.S. manages the process of access authorization to the cyclotron room (vault).

It authorizes cyclotron start-up only after ensuring that no one remains in the vault.

Following this authorization, it also informs on cyclotron status (Magnet, RF and Beam).

V.A.S can also manage vault access authorization after a beam, depending on the residual radioactivity level (optional)

Operating Process

V.A.S controls vault access safely.

V.A.S allows vault access by:

> Authorizing cyclotron beam

> Managing Round process

> Monitoring vault door contacts

> Informing staff on cyclotron status

> Measuring vault residual radioactivity level before authorizing vault access (optional).

Database collects the information for displaying, alerting and backup.

The displayed module's screens are specifics but can be designed according to your needs.

Database can be used in maintenance mode or multi-site mode through remote access

R.S.S. is designed to collect the facility information.
R.S.S. allows supervising, alerting and acting on installation in order to preserve property and persons.
R.S.S. is equiped with different modules to control radiation, to manage transfer or the cyclotron access. These modules are integrated in function of your needs.
Radiation Safety System can be used in multi-site mode from a remote single point (service center for example).

Radiabat Safety System

www.acist-healthcare.com

V.A.S. Characteristics

Round System

Push Button	**Normaly Open - DC 24V**
Audible	**90 db**
Timer	**set by Customer**
Door Status	**define by 1 serial wirred sensors.**

Signal	**Electrical Signal**
Type	**Cyclotron Beam ON**
Information	**Cyclotron RF ON**
	Cyclotron MAGNET ON
Power	**Electrical (DC 24V)**

Cyclotron interlocks

Hard Wire Chain	**Vault Safety Condition**

Standart Package

Cyclotron Signal Report	**3**
	(Beam On, RF On, Magnet On)
Buzzer	**1**
Door Contact	**2**
Round Buttom	**2**

Available Options

Additional Remote Signal

GM Probe in Vault

One probe can be used to measure activity inside the vault after a cyclotron beam. In this case, the authorization of access in cylotron vault is given by the probe. This option is included if the RPS module is installed.

Extended Warranty (up to 5 years)

- **VAS is a Vault Access System**

- **VAS displays Vault Access and Cyclotron status**

- **VAS manages alarm and history**

- **VAS manages user rights**

- **VAS manages the vault access request after a cyclotron beam**

- **VAS supports remote access**

- **VAS is part of Radiabat Safety System**