



*Inquiry about
Radioactive Workshops & Storage
needs*

A status report

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OUTLINE

Inquiry about RW&S needs

1. Why an inquiry?

*Workshops and storage facilities span **across Departments and Directorates**. Why embarking in such a huge and delicate task ?*

2. How are we doing it?

***Needs are many and varied**. The methodology to collect, store, study and present the data is a key issue.*

3. What is the current status?

*Given the task nature, it is important to have **guidance and support by the management** based on the intermediate results.*

4. What's next?

*"Clients" are knocking at the door with their RW&S needs! Despite the complexity of the task, **tight deadlines are required**.*



Why an inquiry ?

An alarming situation...

*Radiological surveys have pointed out an **unsafe, inefficient** and sometimes **alarming** management of radioactive accelerator components in workshops and storage areas. These concerns have been expressed by DG SCR & RSOs on several occasions (e.g. EDMS 997833 & 995282).*

*This situation is against the **safety rules** and the **effective operation** of the accelerator complex.*

*The Directorate is pursuing CERN-wide a **rationalization of radioactive workshops and storage**. At the last BFSP, the Director of Accelerators and Technologies has asked that, as a **first step**, a complete survey of all Departments' needs be performed.*



What we will get?

The deliverables...

*In order to limit the data collection effort to the minimum reasonable level, the inquiry form will be filled for the **general equipment assemblies** (e.g. an RF cavity, a beam monitor). This will provide:*

- The roots of the **Assembly Breakdown Structure** (ABS) of all accelerators, i.e. a complete overview of the equipment managed by each Group;
- The detailed **list of labs and workshops** needed by each Group and their present/future use.
- The **storage area, volume, type, environment** needed to ensure the maintenance of the installed/future equipment.
- The **amount of waste** created each shutdown by machining and by preventive maintenance. Information about the waste due to equipment dismantling can also be inferred.



What is the status?

Intermediate results and outlook

The *inquiry form* & instructions have been *developed, tested, and distributed* to BE, EN, TE, PH. *Data collection is well advanced* in the BE Department.

First facts for your consideration:

- Radioactive *workshops, assembly labs* and *medium-term storage* are *tightly linked*: the same location is often used ;
- *Test equipment* for radioactive and non-active items is often *unique* and/or *very expensive*; it is often located in non-designated areas;
- Small radioactive spare items (e.g. electrical motors) are kept in the assembly lab (*long-term storage* and *assembly lab overlap*);
- *Equipment is not always identified/traced*, even for the LHC; *traceability* of pieces of equipment in the machines, workshops and storages *will be an issue*.



Concluding remarks

Inquiry about RW&S needs

1. We face a global, complex and delicate problem

*Several **Departments** (BE, EN, TE, PH, GS) and all **Directorates** are concerned in the effort to rationalize workshops & storage. The inquiry for which we are responsible is only a part of this effort.*

2. We need guidance and co-ordination

- *to **integrate our results** within the frame of general storage needs,*
- *to help in **identifying the resources** for any solution future solution (time, budget, spaces);*
- *to point out the **constraints** (e.g. technical, operational, legal).*

3. Support and advice is needed

- *to collect data from the experiments (PH);*
- *To obtain a timely response from the equipment owners.*