

# Requirements for the future temporary handling procedure for irradiated electronics

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Until the Workshop for the handling of radioactive materials is ready in bld. 867 (end of 2010 or beginning of 2011), a temporary procedure is needed to allow for non-destructive testing of electronics in several approved labs and destructive in one common lab.

If an equipment group would like to keep the possibility of performing any tests on the DUTs after the irradiation in UJ22 or CNGS in 2010, a clear description has to be submitted at least 2 weeks BEFORE the start of the irradiation consisting of:

- Description of actions to be performed (i.e. scope measurements, exchange of a subsystem, exchange of irradiated components by new ones etc...)
  - Destructive actions to be listed separately (soldering)
- Name of the lab where non-destructive tests should be carried out
  - Destructive tests would have to be performed most likely in 530
- Responsible person for the tests
- Justification (importance for the LHC)

The procedure will have to be approved by DGS/RP (Doris), the RSO and the responsible of the lab. The number of approved labs has to be kept to a strict minimum! The present list is ([EDMS 1056444](#)):

- 36-3-017 (CRYO)
- 866-1D-001 (BPM)
- 287 (TE/EPC lab)
- 30-5/040 (BIC/PIC)

Description of the test setup has to be done in the document [IRRADIATION PLANNING](#) (next page) prior to installation

## CNGS electronics test irradiation LOG

### INTERVENTION

|                                 |  |       |  |
|---------------------------------|--|-------|--|
| Date:                           |  | Time: |  |
| Location of the test equipment  |  | Group |  |
| People requiring access to TSG4 |  |       |  |
|                                 |  |       |  |
|                                 |  |       |  |

### Description of material (attach photo) and responsible

|               |  |         |  |
|---------------|--|---------|--|
| Owner, group: |  | Tel:    |  |
| Size:         |  | Weight: |  |
| Details:      |  |         |  |

### Irradiation planning (targeted dose, fluence etc)

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### Post-Irradiation Handling

|                                    |  |                |  |
|------------------------------------|--|----------------|--|
| Removal from TSG4 tunnel - date:   |  |                |  |
| Removal from CNGS premises - date: |  | Peak dose rate |  |

|           |
|-----------|
| Comments: |
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### DGS/RP COMMENTS

|           |  |       |  |
|-----------|--|-------|--|
| RP agent: |  | Date: |  |
|           |  |       |  |