Test beam check list

Michael JECKEL EN-EA-EC
Content:

• Safety & Radiation Protection
• Arrival
• Access
• Installation
• Departure
Safety

Defibrillator in building 887

Phone: CERN fire brigade 7.44.44
+41.22.767.44.44 from non CERN mobile phones

Central bridge
Safety & Radiation Protection

• It is mandatory to wear a personal dosimeter in the experimental halls all the time

• It is mandatory to wear always a helmet and safety shoes in the experimental area

• It is prohibited to smoke, drink and eat in the experimental halls all the time

“Only exception the cafeteria in building 887”

Links: How to obtain a dosimeter  Safety users guide

Contact: ph-safety-office@cern.ch
Arrival

• Fill out an **Transport Request (Arrival)** when the material comes from outside CERN

• Fill out an **Transport Request** when you need a crane or forklift to unload the material

  Request needs to be send five working days prior to the intervention
Access

• Fill in an **EDH- Access Request** for the control room and for patrol rights.
  
  Link: [Electronic locks instructions](#)

• To enter the experimental hall the personal dosimeter is enough.

**Safety courses @ SIR:**
CERN Safety Introduction
Electrical Safety – Awareness
Radiation Protection - Supervised Area
CERN - Beam Facilities
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Only for CERN services
Installation

What are your requirements?

- Transport and crane
- Adjustable support / scanning table
- Electricity
- Gas **EDMS 1604697**
- Geometer
- Magnet
- Additional beam instrumentation
- Vacuum pipe
- Cables
- IT services

- Be aware that the experimental area might not be the same as last time!
Installation

Our requirements!

• Provide all relevant information of the set up:
  • Dimensions (XYZ), weight and a photo of the detector
  • Movement range of scanning stage
  • Reservation of scanning stage (DESY / XSCA)
  • Drawing of the setup
  • Your requirements
  • All information **must** be provided **three weeks** prior to the allocated beam time to the “Beam Line Physicist” & “User Technical Support”

Link: [SBA page](#)
Beam H4 - PPE134

- Vacuum pipe
- Magnet
- Detector
- X.Y meters
- X: Y meters
- Exit door PPX / PPG
- Patrol box
- Flash Beam Imminent Warning
- Radiation display
- Radiation monitor

For access problems please contact CCC: 77500

EDMS 1605378

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Michael JECKEL EN-EA-EC
Installation

• After installation, remove all non-necessary equipment / material from the beam area to avoid (time-intensive) RP checks at the end
Installation – patch panel

Zone PPE 172 (H2B), 134 (H4A), 146 (H6A), 138 (H8A) & 158 (H8B)

A: 36 x SHV
B: 60 x BNC
C: 10 x RJ45
D: 6 x Type D
D: 2 x Profibus
E: 2 x Burndy 12
E: 2 x Burndy 19
E: 2 x Burndy 28
F: DESY table control
Installation

Provide adequate attachment points for lifting operations!

Detector
Departure

- Make sure that you take **ALL** your equipment and waste with you!
- All equipment and waste that was present in the experimental area has to be considered as potentially activated and thus be registered in the TREC system to be checked by RP. Be aware that for SHIPPING/TRANSPORT requests out of CERN, a $\gamma$-spectrometry is mandatory to coop with international RP regulations. In order to avoid that your equipment becomes blocked for weeks (or longer) at CERN, remove all unnecessary items from the beam area before taking beam.

Link: TREC instructions

TREC
Departure

Don’t forget to select
Departure

The shipment request will be created by the TREC system.

Dangers: Until RP gives the clearance the material is by definition Radioactive!

CERN Location: Is the experimental hall and not an office.

Never click here!