

## Minutes of BGV meeting #63, 18/08/2015

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**Agenda page:** <https://indico.cern.ch/event/438072/>

**Present:** Bernd, Paolo, Plamen, Massi

**Vidyo:** Olivier

### ❖ Status of systems

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- SciFi modules production
  - The 3rd module was delivered to P8, all fine
  - Started the assembly of the 4th module. There are enough SiPMs, which are currently being qualified
  - The clamps on the Temp. connectors facilitate the cable dismounting, not for keeping the connector fixed
- DAQ and Readout
  - Steady progress with understanding the measurements and data
    - \* Format issue solved (additional raw data banks when using the LHCb framework for readout)
    - \* Channel reordering understood
    - \* A little more noise with a periodicity of four compared to EPFL measurements
    - \* TELL1 corrections to be implemented
      - Attenuator circuit cross-talk – studies made with a special PCB at EPFL
      - Cable cross-talk – FIR filter, like in the VELO
  - Mariana setting up the BGV trigger with Richard
  - Zero-suppressed readout not tested yet
- The detector mounting tests are going well (Paolo)

### ❖ TS2 planning

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- BGV schedule for TS2
  - A discussion took place on 17th Aug with the LHC Coordination team, VSC and RF. The notes can be found on the Indico page of the present meeting
  - The LHC access constraints can be found here: <https://espace.cern.ch/en-dep-mef-lpc/TS2015/Access%20Constraints/Forms/AllItems.aspx>,  
The direct link to the current version is: [https://espace.cern.ch/en-dep-mef-lpc/TS2015/Access%20Constraints/2015-TS2-Constraint\\_Schedule\\_v1%203%2020150817.pdf](https://espace.cern.ch/en-dep-mef-lpc/TS2015/Access%20Constraints/2015-TS2-Constraint_Schedule_v1%203%2020150817.pdf)
    - \* The zone relevant for the BGV is LSS4L
  - A day-by-day activity plan presented by Bernd (see slides)
  - A chart and more details will be advertised later this week
  - **Task1 (Bernd):** Discuss with Marzia the access constraints for the service tunnel (UA43)

- **Cable connections and installation of electronics near the BGV**
  - Olivier and Axel will be away (Swiss Physics Society meeting in week 36)
  - Hoping that Guido can support the activities on Wednesday
  - Steve Sousa from the BI-BL section will help on Mon and Wed
  - **Task2 (Plamen)**: Organize a meeting with Raymond and the other people involved to define the work to be done
    - \* LV cables connection to patch panel, cabling chain, installation and connection of electronics boards, ...
- **DAQ installation**
  - The goal is to install all DAQ components such that we are able to make measurements, i.e. including LV, HV, and Temp. monitoring
  - Transport of DAQ system agreed with the transport service
    - \* Other components from P8 to be attached to this request, e.g. Chiller and Manifold
    - \* Delivery to the BGV racks (P4) agreed for Mon 10 am
- **Cooling installation**
  - Vladir and Massi taking care of it, maybe with help from Olivier Crespo
  - **Task3 (Plamen)**: Ask EN/EL for help for connecting the chiller to the power supply box
- **Compressed air installation**
  - Status of components not known. Plamen to contact Francisco urgently
- **Others**
  - The detector modules will be installed at distance of about 1 mm to the vacuum chamber
    - \* More safe than the nominal 0.3 mm
  - After the detectors installation, plan to keep the rails and plates above the BGV detector chamber (chamber safety)
  - **Task4 (Plamen)**: Get a labeling tool in the tunnel

## ❖ AOB

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- **Task5 (Valdir)**: Need alignment targets (spheres) to use in the 2MA metrology
- **Metrology of 2MAs**
  - **Task6 (Paolo,Plamen,Valdir)**: Prepare a protocol for the procedure/measurements at the metrology lab
  - Suggestion to measure and note down a point near the base of the stud. It could be used to re-position the modules on the detector plate in case a stud gets damaged (precaution)
  - Paolo has requested the transport of the first 2MA on Thursday afternoon
    - \* **Task7 (Paolo)**: Ask the service for caution when handling and transporting on bumpy roads
- **Next BGV meeting**
  - Default option: **Tue 25/08/2015 (16:00-17:30)**
  - Second option: **Wed 26/08/2015 (14:00-15:30)**
  - Location: 864-1-C02 (for both options)

## **Task List:**

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**Task1 (Bernd):** Discuss with Marzia the access constraints for the service tunnel (UA43)

**Task2 (Plamen):** Organize a meeting with Raymond and the other people involved to define the work to be done

**Task3 (Plamen):** Ask EN/EL for help for connecting the chiller to the power supply box

**Task4 (Plamen):** Get a labeling tool in the tunnel

**Task5 (Valdir):** Need alignment targets (spheres) to use in the 2MA metrology

**Task6 (Paolo,Plamen,Valdir):** Prepare a protocol for the procedure/measurements at the metrology lab

**Task7 (Paolo):** Ask the service for caution when handling and transporting on bumpy roads