

Minutes of RADWG meeting held on 3 April 2009

Present : Daniel Kramer, Thijs Wijnands, Julian Palluel, Reiner Denz, , Roberto Losito, Yves Thurel, J. Lendaro, M. Donze, G. Penacoba, E. Gousiou, P.Dahlen, A.Gharib, S. Le Naour, G. Spiezia, C. Dehavay, H. Vincke, J.Casas, M. Magistris, J.L.Gonzales, A. Massi.

Excused : A. Herty, A. Marin

Matters Arising (T. Wijnands):

T. Wijnands presented the Radiation calendar for the first half of 2009, the ongoing work on the radiation laboratories for the equipment groups and 2 upcoming events. For the **radiation laboratory**, a proposal will be made and a memo circulated. The idea is that the main equipment groups decide on the technical infrastructure that is needed, thereby trying to minimize the additional equipment that is needed and sharing as many tools as possible. External review committee will then propose the required RP equipment and dispositions.

R.Losito: The process of gathering the individual requirements for the lab spaces needs to be steered. T.Wijnands should be in charge of collecting the information.

T.Wijands: We have to wait for the final proposal from RP and then organize a meeting.

There will be a new **policy** concerning the use of dedicated **dosimeters** (badge) during tests **outside CERN**. The eventual use of airplanes will have an impact on the procedure. Thomas Otto will distribute a memo with the details.

*Y. Thurel : The description of the **radiation results** should be put in **EDMS** not in *indico*. Otherwise the documents will be very difficult to find afterwards.*

G. Pernacoba : TS/DEM should be part of the discussion group as well.

G. Spiezia gave a presentation of the new CNGS web page that will contain all information needed to test electronic equipment. The URL : <http://cngs-rad-facility.web.cern.ch>. The web page will be gradually updated; users are invited to provide comments to Giovanni. Some of the missing items: racks numbers (for cabling works), link to CNGS operational web page, link to EDH radioactive waste forms and link to the RadMon data visualization interface. The page could also contain the links to the test results stored in EDMS.

D. Kramer gave a presentation on the simplified data viewer which is presently available at the following URL: <http://dkramer.web.cern.ch/dkramer/radmontest/> . The data viewer is only for RadMon data; to view the correlation with other machine data - use the TIMBER interface. The possibility to view the CNGS target intensity will be implemented as well (*action: D.Kramer*).

M. Magistris presented how radioactive waste should be handled and how we dispose of radioactive waste. Waste means items that have to be eliminated. After operation RP will check every item that has been in the irradiation tests zone and check it for induced radioactivity and contamination. If the items are considered non radioactive, they can be handled in a laboratory (soldering included) but traceability of each individual unit is required. Every item from the test zone, even if marked as **non-radioactive** has to be **eliminated as radioactive waste** at the end of its life cycle. How traceability is actually carried out is the responsibility of the equipment owner but perhaps some homogeneity is required (*Action : T. Wijnands*). All the items after the tests have to be transported directly to the building 954. Small items can be disposed of directly into the appropriate waste bin. For larger items, the corresponding EDH form has to be filled in. The URL will be made available via the webpage. Users have to foresee to allocate a budget for the waste elimination. The approximate cost in CH is 100CHF/dm³. Items can be compressed at CERN. Knowledge of material composition of the devices is very helpful during the elimination as well as knowledge of traces of heavy metals and

should be written in the form. The question came up if gamma spectrometer measurements could not be systematically used (*Action : T. Wijnands to check with L. Ulrici*)

J. Lendaro presented the technical installation in CNGS at the moment. Electrical modifications have been made and modified RADMON radiation devices have been installed. These **remote sensing units** will be placed on the equipment assuring the dose and 1MeV eq. neutron fluence measurement. It was pointed out, that users should never modify the test station configuration, but ask instead J.Lendaro. The powering of the stations is on the safety network separated from the CNGS installations.

J. Palluel presented the modified WorldFIP cabling structure and a **new irradiation scheme**. This does not change anything for the users, they will only have to connect to another test station but they have access to the same side tunnel. Every station contains a drop cable long enough to reach the neighboring test tunnel. If needed, the drop can be extended, but the line has then to be revalidated.

R. Losito: *It is important to assure a free escape passage in case of an emergency, so the cabling should be done more properly. (Action : J.Lendaro to see if use of additional cable trays is possible).*

H. Vincke gave a presentation on how to access CNGS. They are described in a an EDMS documents (No. 693630 V12 – *restricted access to the document*). Each planned intervention must be presented in the EATC and the ABOC.

R. Losito : This procedure may have to be revised (*action : T. Wijnands*)

The technical gallery will have very low remnant dose rates during access, in the target tunnel the dose rates are much higher. The minimum time before the zone can be accessed is 12-14 hours due to various procedures that have to be followed. There is still an AB template to be filled out prior to installation in the gallery but this also may have to be revised (*action T. Wijnands*).

Y. Thurel : It would be useful to have a radiological map of the CNGS underground areas and a clear indication where the zones are with very low dose rates. Issue to be followed up (*action T. Wijnands*).

Next RADWG meeting Friday 24 April 14:30 hrs (meeting room will be announced)