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Sent: 21 May 2012 13:35
To: Wilson Alan (CPD)
Cc: Eberhardt, Dieter; Szot, Dieter
Subject: AW: filter test

Alan

Find attached the original filter test and a translation from us. The test is just a short version, the complete version will be available in a couple of weeks. However all relevant data can already be found in this version. The translation is not authorized, if needed we have one produced.

Test set-up

We have tested both filter materials, the one from the old system and the one from the new system. The test was conducted by a nationally accredited authority, the so-called TÜV (technical monitoring association). We used a representative dust sample from LU underground network, that you once have sent to us.

Results

Both materials filter dust sufficiently enough to comply with the Workplace Exposure Limits stated in your 'Air Quality and Dust Filtration' mail. After getting the results we took them to our filter supplier to discuss the findings.

Consequences

We decided to work with the old filter system. The new system is slightly more efficient but the problem here is that we needed much more air pressure for the filter cleaning, as the filter elements are much more fine-meshed. During the discussion with our supplier and through an internal assessment, we realized that we cannot generate the needful pressure to clean the filter elements adequately. That would cause serious problems and filter blockages after some time and the cleaning performance would be severely decreased.

As mentioned the test showed that the old system will be efficient enough to meet your requirements. If you have more questions or need more details please ask.

Best regards
Daniel

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