

**From:** [Foster Mark](#)  
**To:** [Foster Mark](#); [Wilson Alan \(CPD\)](#)  
**Subject:** FW: TCT Update  
**Date:** 01 December 2011 21:01:10

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MARK FOSTER CENG MIMECHE  
SPM - ROLLING STOCK & SYSTEMS INTEGRATION  
BCV LINES UPGRADE PROGRAMME,  
LUL LINE UPGRADES,  
TEMPLAR HOUSE,  
81-87 HIGH HOLBORN  
LONDON WC1V 6NU

 MOBILE: [REDACTED]

 FAX: [REDACTED]

 EMAIL: [MARK.FOSTER@...](mailto:MARK.FOSTER@...) [REDACTED]

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**From:** Szpytko Elisabeth [mailto:Elisabeth.Szpytko@...] **On Behalf Of** Carlton Olivia  
**Sent:** 31 March 2010 08:35  
**To:** Foster Mark  
**Cc:** Camidge Peter (LU); Stokes Louise (LU)  
**Subject:** RE: TCT Update

Dear Mark,

It depends on the work that you are going to be doing. If the work that you are going to be doing will generate exposures to any of the substances listed in table 1 attached then measurements will have to be undertaken to ensure that exposure limits are being adhered to.

If the only dust being generated is tunnel dust, then the nuisance dust levels apply.

Best wishes,  
Olivia

*Dr Olivia Carlton*  
*Head of Occupational Health*

Auto: [REDACTED]

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**From:** Foster Mark [mailto:Mark.Foster@...] [REDACTED]  
**Sent:** 25 March 2010 14:23  
**To:** Carlton Olivia; Camidge Peter  
**Cc:** Stokes Louise  
**Subject:** RE: TCT Update

Olivia

I was provided with the attachment Safety Executive Document EH40/05.

Do I need to call it up or does the clause cover all that I need.

Regards

Mark

MARK FOSTER

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LUL LINE UPGRADES,

3RD FLOOR, EUSTON HOUSE, 24 EVERSOLT STREET, LONDON NW1 1AD

 MOBILE: [REDACTED]

 FAX: [REDACTED]

 EMAIL: [MARK.FOSTER@...](mailto:MARK.FOSTER@...) [REDACTED]

-----Original Message-----

**From:** Szpytko Elisabeth [mailto:Elisabeth.Szpytko@ ] **On Behalf Of** Carlton Olivia  
**Sent:** 25 March 2010 13:33  
**To:** Camidge Peter (LU)  
**Cc:** Foster Mark; Stokes Louise (LU)  
**Subject:** RE: TCT Update

Dear Peter,

I would suggest that the clause appears after the performance clauses. I am not sure what Mark means in relation to statutory requirements. Can you clarify?

Best wishes

Olivia

*Dr Olivia Carlton*

*Head of Occupational Health*

*Auto:* [REDACTED]

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**From:** Camidge Peter  
**Sent:** 22 March 2010 15:27  
**To:** Carlton Olivia  
**Cc:** Foster Mark (MR)  
**Subject:** FW: TCT Update

Olivia,

I would appreciate your advice on how we treat the tunnel dust requirements in the Tender documentation.

Barry Hawkins researched this for me with you team but he has now been “OCR’d” elsewhere in LU.

Mark Foster is now the project manager and has included a proposal below.

Thanks for your help,

Peter

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**From:** Foster Mark [mailto:Mark.Foster@ ]  
**Sent:** 22 March 2010 09:33  
**To:** Camidge Peter  
**Subject:** RE: TCT Update

**Peter**

As discussed this is the current clause.

I feel I would like it to appear after the performance clauses but want to make sure it relates to both that and the statutory requirements.

Thanks  
Mark

**1.1 Tunnel air quality post clean**

- 1.1.1** Atmospheric dust levels shall be no worse after cleaning than prior to cleaning. If this is not achievable the Supplier is to specify the time elapsed after completion of a cleaning run when the respirable dust levels will be no worse than before the tunnel cleaning took place. Typical dust composition and combustibility information from recent analysis on the Victoria Line are contained in two 4-Rail reports, see Appendix 1. Analysis of the respirable dust has revealed that 80% of the dust is made up of iron and that the Pm10 size is < 10 µg/m3 with a mean of 7 µg/m3; Pm2.5 4mg/m3 respirable particles averaged over an 8 hour period. [Link to 5.2](#)

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LUL LINE UPGRADES,

3RD FLOOR, EUSTON HOUSE, 24 EVERSOLT STREET, LONDON NW1 1AD

MOBILE: [REDACTED]

FAX: [REDACTED]

EMAIL: [MARK.FOSTER@\[REDACTED\]](mailto:MARK.FOSTER@[REDACTED])

-----Original Message-----

**From:** Camidge Peter [mailto:Peter.Camidge@[REDACTED]]  
**Sent:** 11 February 2010 15:31  
**To:** Foster Mark  
**Cc:** Fernandes Adam (LU)  
**Subject:** RE: TCT Update

Mark,

I am not sure what help this will be to setting a standard that sets the cleaning requirements.

The link to the publication follows <http://books.hse.gov.uk/hse/public/saleproduct.jsf?catalogueCode=9780717629770> and the attachment details the exposure limits.

Barry Hawkins did a lot of work on this for us this time last year and his recommendations are reproduced below:

=====

Meeting with Olivia Carlton on 7 April 09

From the meeting with Olivia came information on particle size

There are three bands defining respirable particle size:

Pm<sup>10</sup> Particle size is 10 microns or smaller.

Pm<sup>2.5</sup> Particle size is 2.5 microns or smaller.

Pm<sup>1.0</sup> Particle size is 1.0 microns or smaller.

These size particles are not visible to the naked eye.

Also analysis of the respirable dust has revealed that 80% of the dust is made up of iron.

It would seem a sensible move to put into the technical specification the requirement for magnets as this dust would be very effectively removed if magnets were incorporated into the cleaning train.

Olivia has suggested we need a statement in the specification along the lines of " After the dust has settled (2 hours) following the completion of cleaning the levels of respirable dust shall not be worse than before the cleaning commenced".

=====

There is a BS on Workplace atmospheres - Size fraction definitions for measurement of airborne particles  
BS EN 481 :1993 BS 6069 :Section 3.6 :1993.

I have a couple of reports on the effects of dust but it is probably best not to add to your burden.

I suggest that we get Olivia Carlton, Head of LU Occupational Health to review the cleaning section of the spec prior to dispatch – I can arrange that.

Hope this helps

Peter

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**From:** Foster Mark [mailto:Mark.Foster@[REDACTED]]  
**Sent:** 11 February 2010 15:03  
**To:** Camidge Peter  
**Subject:** RE: TCT Update

It is but we need to discuss it further to conclusion as Bob suggested the use of Safety Executive Document EH40/05 as a performance criteria.  
I have not followed up on it yet, do you happen to have a copy?

MARK FOSTER

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3RD FLOOR, EUSTON HOUSE, 24 EVERSOLT STREET, LONDON NW1 1AD



MOBILE: [REDACTED]



FAX: [REDACTED]



EMAIL: [MARK.FOSTER@\[REDACTED\]](mailto:MARK.FOSTER@[REDACTED])

-----Original Message-----

**From:** Camidge Peter [mailto:Peter.Camidge@[REDACTED]]

**Sent:** 11 February 2010 14:53

**To:** Foster Mark

**Subject:** RE: TCT Update

Thanks Mark

Was my contribution on the cleaning standard of any use?

Regards

Peter

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**From:** Foster Mark [mailto:Mark.Foster@[REDACTED]]

**Sent:** 11 February 2010 14:52

**To:** Camidge Peter; Fernandes Adam; Castell Paul

**Cc:** Foster Mark (MR)

**Subject:** TCT Update

Status update of where we are.

I am currently trawling through the technical specification with Guy.

I will then be ensuring that appropriate Standards are called up so that the Tenderers can respond accordingly.

Clive has generally completed the rest and only changes brought about because of the Technical spec will be needed.

Gilbert and Bob have been putting together the basis of the overarching TCT specification and the Motive Power Unit Specification so that it is fully joined up going forwards.

I am very sorry for the delay but am hoping that the works carried out now will minimise the number of questions during the tender process.

Cheers

Mark

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