

Estates.Firesafety

From: Cooke, Simon
Sent: 18 March 2019 15:27
To: Aleksandrs Trofimovs; Doubleday, Tom
Cc: Michael Fostiroopoulos; Thomas Henderson Schwartz; Norman, Amelia; McBrien, Matthew; phender@peterbrett.com; Jamie Lee McQuillan; David Quinn; Backhouse, Alex; RFrench@peterbrett.com; Ian Goodfellow; gharris@peterbrett.com
Subject: RE: UCL PEARL Fire Engineering Review Mark Up
Attachments: UCL_FireSafety-EmployersRequirments(ER)-forPoject&DesignTeams.pdf; 454-FireStrategyBriefing(Rev0)-18Mar19.pdf; 190311 BH Comments on UCL PEARL Layouts.pdf

Aleks

Thank you for mark up of prosed draft fire strategy - we have the following observations:

- You are preparing the fire strategy that is prescriptively following guidance detailed in BS 9999 without reliance on any performance-based fire engineering.
- Travel distances would appear to be cherry-picked between ADB and BS 9999 - please make clear which standard you are using;
- Sprinkler system hazard category is not defined may require HHS or HHP this should be done as part of fire engineering without need for specialist sprinkler engineering consultation;
- We would caution on the use of high level racking sprinklers, as users wish to move storage racking in certain circumstances and manual loading of storage racking would likely cause a high risk of sprinkler head damage;
- Is occupancy group A3 conservative enough (point taken that sprinklers will suppress the fire growth rate)? Our view would be that a B group would be closer to prosed occupation as there will be a large number of visitors undertaking research activities in the warehouse space, who will be unfamiliar.
- Is there an option without sprinklers? What impact would this have on compartment size and fire separation and fire service access etc.?
- Building size approx. 150m x 40m x 11.5m (roof avrage 10m&13m) = 69,000m³
- Please review access and facilities for firefighting for this size of building;
- Is the prosed building is at present multi-level, which we think impacts with compartment sizes, perimeter access and a need for firefighting shaft - may need to be reviewed and clarity on single or multi-level?
- There appear to be a good number of exits provided but if you alter the risk category this may impact on these calculations;
- Suggest that a voice alarm (PAVA) system may be required due to compartment sizes;
- We would suggest that might be appropriate for large area to be covered with Xtralis beam detection (see UCL fire safety ERs Technical Note TN054) instead of VESDA systems;

- Fundamentally, the building would appear to be straightforward but the fire strategy should clarify the points above in more detail.

Please find attached:

- A high-level Fire Safety overview for you and the design teams assistance;
- Our Fire Safety ERs link (PDF links take you to the latest PDF document) for design team use – any problem let us know and we can send TN individually.

I trust this is of assistance please do not hesitate to contact us.

Regards

Simon

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From: Aleksandrs Trofimovs [<mailto:Aleksandrs.Trofimovs@BuroHappold.com>]

Sent: 14 March 2019 14:13

To: Cooke, Simon <simon.cooke@ucl.ac.uk>

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Subject: UCL PEARL Fire Engineering Review Mark Up

Simon

Thank you for the productive meeting today. Please find attached the set of fire engineering review mark ups presented in the meeting today.

Please let me know if you have any comments and feel free to give me a call if you want to discuss anything further.

Kind Regards,

Aleks

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