

From: Fergus MacGregor <fm@psbuk.com>  
Sent: Fri, 2 May 2014 10:51:34 +0000  
To: Hugh Mahoney <hm@psbuk.com>  
Cc: Lydia Noble <lydia.Noble@p5buk.com>  
Subject: FW: Smoke extract system refurb - Grenfell Tower in North Kensington  
Attachments: U(14)01\_200 pdf; IMG\_3772.JPG; IMG\_3761.JPG; IMG\_3759.JPG; 1279 SEA (04) 105 - Proposed Residential Plan (W+2).pdf; U(14)01\_200 (Mark-up 20140502).pdf

Hugh this is one I looked at some time ago and we discounted changing the system to pressurisation system as it would be much too difficult - getting the ducts in/ leakage paths would be a nightmare... . use existing push pull system uprating what they have got, is the easiest solution by a long way. Currently there are 30% of the dampers not working, interim solution is to get the 30% of dampers working possibly by replacement/repair and then revisit the whole system,

I did some rough and ready costings back then in 2012 and having discussed this with Matt that's what he needs now to show the fire brigade/BCO that they are going to address the problem during the refurb. We agreed that it's only a document to show the fire brigade/BCO that they are doing something. Will knock something up today to achieve this. it will need revisiting/site visits to put a firm quote in place\_\_\_\_

The job no is 1243/12

Regards

*Fergus MacGregor*  
*Above Ground Smoke Specialist*

M [REDACTED]



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**From:** M.Smith@maxfordham.com [mailto:M.Smith@maxfordham.com]

**Sent:** 02 May 2014 11:00

**To:** Fergus MacGregor

**Cc:** Hugh Mahoney

**Subject:** Fw: Smoke extract system refurb - as discussed yesterday

Morning Fergus

I understand you're the person to speak to regarding residential smoke extract systems in Hugh's absence. ( spoke to Hugh yesterday about a refurbishment job in London which I believe a colleague of mine in our Edinburgh office has previously discussed with Jim Shields. We're looking to bring the existing non-compliant push-pull system up to scratch and after speaking with Hugh it seems a pressure differential system would be the way to go.

I've recently been informed that a deficiency notice has been placed on the building due to the existing system being inoperative. This expires on Monday. For this reason I'd like to have a chat with you to clarify a few points made by Hugh, and also to see if you may have any ideas for interim measures on the existing system.

Feel free to give me a call to get the background on the job, the email and attachments below should help but will not give the full picture. I tried your mobile earlier but there was no reply.

Kind regards,

Matt

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— Forwarded by Man Smith/MaxFordham on 02/05/2014 10:50 —

From: Matt Smith/MaxFordham  
hm@psbuk.com  
Date: 02/05/2014 10:28  
Subject: Smoke extract system refurb - as discussed yesterday

Morning Hugh

Thanks again for taking the time to discuss the refurbishment of the smoke extract system I'm working on. I'd like to clarify a few details from our conversation if that's alright? I've attached a floor plan of a typical residential floor, our previous smoke extract schematic, a rough and ready marked-up schematic showing my understanding of our conversation with the addition of general ventilation provision, and a few photos for reference. The building is Grenfell Tower in North Kensington.

As a reminder, each of the 2x supply shafts and 2x extract shafts are 400 x 600 mm builder's shafts, the grilles are 300 x 600 mm each {4 in total per floor, 2x high level extract, 2x low level supply}.

Can you clarify the following?

- **Invertor** drive smoke extract fan speed is to be controlled by pressure sensors in each lobby.
- Pressure relief panels are not required.
- **Extract** fan(s) to be sized based on maintaining 2 m/s airflow through single open lobby door, leakage around remaining closed lobby doors and duct pressure losses,
- In case of all lobby doors being closed, the maximum pressure differential should not exceed 60 Pa (equivalent to max. 100 N door opening force).

If any of what I have sent is not clear then please don't hesitate to get in touch either via email or 'phone. I'd also like to reiterate that whilst the specification is 'equal or approved', the contractor is well aware of the complexity of the system and I will ensure that your name is prominently mentioned during discussions of the system. Also, do PSB have a London sales rep?

Kind regards,

Matt

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