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 from
 Matt Smith/MaxFordham
 on
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 To: "David Bradbury" <DavidBradbury@jswright.co.uk>
 cc: "Simon Lawrence" <slawrence@rydon.co.uk>; CN=Duncan Campbell/O=MaxFordham@MaxFordham; philip.booth@uk.arteliagroup.com
 Subject: Grenfell - Smoke extract report

Associated Documents

created by: Michael McMillan on 15-Sep-17

Morning Dave

We discussed briefly the feedback from Paul Hanson at RBKC Building Control yesterday regarding the smoke extract system. My interpretation of what you said was that he would accept the new system if we could show by calculation that it was 'no worse' than the existing system.

I believe I have provided you with our *Smoke Extract Analysis* report previously but have attached it below to save you having to dig it out. As I said yesterday, this was based on equivalent fan data based on the known characteristics of the existing fan from the nameplate. It was not possible to carry out a commissioning exercise due to the poor condition of the existing dampers.

The key section of the report is here:

5 Performance Comparison Results

Method	Flow Rate – Worst Case (m ³ /s)
Existing Natural Ventilation	1.1
Existing Mechanical Ventilation (manual override)	1.2
Proposed Mechanical Ventilation (automated)	5.0

Table 2 - Performance Comparison of Existing and New Systems

It's also important to note that the current system is primarily nat vent with the fan assist being a manual override operated by the fire brigade. The proposed system is a fully automated mechanical system.

Kind regards,

Matt



20140506 - Grenfell Tower - Smoke Extract Analysis.pdf

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