
From: Alan Whyte
Sent: 04 May 2016 13:45
To: 'Paul.Hanson@rbkc.gov.uk'; 'dhughes@rydon.co.uk'
Cc: 'John.Hoban@rbkc.gov.uk'; 'SBlake@rydon.co.uk'; Jonathon Earl
Subject: RE: Grenfell Tower Building Control Demo
Attachments: grenfell tower readings in fire.pdf; grenfell tower rev02.pdf; Grenfell Tower Tech Sub Lobby Smoke Control Systems Rev 6.pdf; E75015-800E.PDF; 75015AG1 Grenfell Tower Cause & Effect Rev 04.pdf

Hi Paul.

Please find attached the latest issued cause and effect, schematic and des-ops for the smoke ventilation system at Grenfell.

At short notice our specialist are unable to attend, and as such I will be attempting to satisfy requirements.

Below are the acceptance testing requirements from the Smoke Control Association Guide for pressure differential systems, with items to be demonstrated tomorrow in red.

Please let me know if this will not be suitable

- Operate each motorised damper by activation of the designated manual or automatic device. – This has been carried out as per commission certification, I assume you would only want to see a proportion of smoke heads activated.
- Check that the fan(s) operate at the same times as the opening of the dampers, measure its performance and check against the design value. Design value is an open door velocity of not less than 2m/s as per attached, a figure which is exceeded in all areas as per attached readings. Random floors to be demonstrated
- Check the automatic change over is operational for the standby fan. To be demonstrated
- Check the automatic change over is operational for the secondary power supply. To be demonstrated
- Inspect the motor drive for correct operation and extension.
- Operate the ventilators and fans in accordance with the design cause and effect and inspect for correct operation and extension. System to be set in environmental mode, and fire simulated to prove cause and effect
- Check the maximum forces required to open escape doors while the system is operating in means of escape mode and record results. The recorded force must not exceed 100N. Pressure differential set at 25p/a on all floors. Pull strength required is between 65 & 80N dependant on existing door and closer
- Check the operation of the manual control point(s) to ensure the system operates as requested. Please note the system can only be activated by detection of smoke (no break glasses), once activated, system can be stopped or other floor opened via main panel or override on each floor.
- Where applicable, the operation and function of the pressure sensors should also be checked. Fan speed change to be demonstrated on opening of doors
- Reset the system on completion of test.
- Provide a certificate of test
- Provide a certificate of compliance.

Kind regards,

Tel: [REDACTED] | Fax: [REDACTED] | Mob: [REDACTED] | Email: alanwhyte@jswright.co.uk | Web: www.jswright.co.uk

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Please Consider the Environment before Printing this E-mail

From: Paul.Hanson@rbkc.gov.uk [mailto:Paul.Hanson@rbkc.gov.uk]

Sent: 04 May 2016 08:44

To: dhughes@rydon.co.uk

Cc: John.Hoban@rbkc.gov.uk; SBlake@rydon.co.uk; Alan Whyte

Subject: RE: Grenfell Tower Building Control Demo

Hi David,

The figures you have sent do not appear to be extract readings - they should be in meters cubed per second (m^3/s). The readings you sent are velocity readings in meters per second (m/s).

	speed in M/sec	speed in M/sec
G	1	1

Remember that the testing of the powered vent system we are witnessing tomorrow should be in accordance with section 9 and item of the attached SCA guide.

Regards

Paul Hanson
Senior Building Control Surveyor (Fire Regulations)
Royal Borough of Kensington and Chelsea
T. [REDACTED]
M. [REDACTED]
F. [REDACTED]
W. www.rbkc.gov.uk/buildingcontrol

From: David Hughes [mailto:dhughes@rydon.co.uk]

Sent: 03 May 2016 13:51

To: Hanson, Paul: CP-Plan <Paul.Hanson@rbkc.gov.uk>

Subject: FW: Grenfell Tower Building Control Demo

Hi Paul

Please see attached air speed readings for the smoke extract / ventilation system at Grenfell Tower

Please let me know if you need any further information prior to Thursday

Kind regards

Dave

David Hughes

Site Manager

T

M

From: Alan Whyte [<mailto:AlanWhyte@jswright.co.uk>]

Sent: 03 May 2016 13:36

To: David Hughes; Steve Blake

Subject: FW: Grenfell Tower Building Control Demo

Dave

The attached doc Grenfell tower readings in fire details high and low speed reading for high and low grills as well as door velocity.

Alan Whyte

J S Wright & Co Ltd

From: David Harrison

Sent: 03/05/2016 12:02

To: David Bradbury

Cc: Alan Whyte

Subject: RE: Grenfell Tower Building Control Demo

Hi David

Please see attached commissioning report / sheets taken by Granville on Thursday 28th April 2016, which should be demonstrated to BC, these will be included in the O&M.

Best Regards

David

From: David Bradbury [<mailto:DavidBradbury@jswright.co.uk>]

Sent: 03 May 2016 11:56

To: David Harrison <David.Harrison@psbuk.com>

Cc: Alan Whyte <AlanWhyte@jswright.co.uk>

Subject: Grenfell Tower Building Control Demo

Morning David,

The technical submission states an average of 2m/s velocity across the lobby / stairwell door, but are you splitting the flow rate across the two dampers?
Basically can you confirm what m3/s reading we should be demonstrating to building control at each damper?
Thanks.

Dave Bradbury
Design Manager
Head Office



Bristol Office - J S Wright & Co. Ltd, Trym Lodge, 1 Henbury Road, Westbury-on-Trym, Bristol, BS9 3HQ. Tel: [REDACTED]

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