

THE GRENFELL TOWER INQUIRY

EXHIBIT DPB/18

This is the Exhibit marked “DPB/18”
referred to in the witness statement
of David Paul Bradbury

David Dimmick

From: David Bradbury
Sent: 22 June 2015 08:29
To: Dan Moodie; Stuart Davis
Cc: Hugh Mahoney; David Peacock
Subject: FW: Grenfell Tower
Attachments: image002.wmz; 75015-Grenfell Tower, North Kensington 19-06-15.zip

All, please find attached updated drawings from PSB.

Kind regards,

Dave Bradbury
Design Manager
Head Office

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

From: Richard Yeadon [mailto:ry@psbuk.com]
Sent: 19 June 2015 17:21
To: David Bradbury
Cc: Hugh Mahoney; Bob Hill; Tim Haigh
Subject: RE: Grenfell Tower

David,

Please find attached our revised drawing E75015-800 Rev B and revised cause and effect 75015- C & E Rev 01 with the updated information for the environmental system.

Best Regards

Richard Yeadon
Senior Design Engineer - PSB UK Ltd

Witt & Son UK Holdings
Fan Systems Group
PSB UK
Witt & Son UK
Witt House
Shelf Mills
Wade House Road
Shelf
Halifax
HX3 7BJ

Tel: + [REDACTED]
DDI: + [REDACTED]

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From: Michal Glowacki
Sent: 15 June 2015 10:24
To: Richard Yeadon
Subject: FW: Grenfell Tower

Kind Regards
Michal Glowacki

From: Michal Glowacki
Sent: 15 June 2015 07:46
To: 'Stuart Davis'; Hugh Mahoney; David Bradbury
Cc: Richard Midgley; Kevin Nattrass
Subject: RE: Grenfell Tower

Good morning Stuart,
Yep, I'll set everything for environmental signal at Level 20.
Thanks for your help, too.

Kind Regards
Michal Glowacki

From: Stuart Davis [<mailto:stuart.davis@directcontrols.co.uk>]
Sent: 12 June 2015 13:55
To: Michal Glowacki; Hugh Mahoney; David Bradbury
Cc: Richard Midgley; Kevin Nattrass
Subject: RE: Grenfell Tower

That's Fine Michal, normally open, closed on high temperature.

We will set the software up so that the user can choose between high temp or average temp.

Think we may look at cable to the top floor as we have a small enclosure up there already to monitor the tank and the booster set.

Thanks for your help.

Regards

Stuart

Stuart Davis

Director
Direct Control Systems Ltd
City Court
161 Hospital Street
Newtown
Birmingham
B19 3XA

Tel: [REDACTED]
Fax: [REDACTED]
Mob: [REDACTED]

email: stuart.davis@directcontrols.co.uk

Company Registration No:02850312

From: Michal Glowacki [<mailto:michal.glowacki@psbuk.com>]
Sent: 12 June 2015 13:23
To: Stuart Davis; Hugh Mahoney; David Bradbury
Cc: Richard Midgley; Kevin Nattrass
Subject: RE: Grenfell Tower

"We could average all of the sensors together and give you one open / closed signal?"

Yes, that's fine, just let me know on which floor do you want to wire in to our system. Any floor except Ground Floor is fine by me. Shall we set it to Normally Open signal changing to closed to activate Environmental control?

Kind Regards
Michal Glowacki

Electrical Engineer
WITTUK GROUP
www.wittandson.co.uk

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Fan Systems Group
PSB UK Ltd
Alldays Peacock
Witt UK

Witt House
Shelf Mills
Wade House Road
Shelf
Halifax
HX3 7BJ
England

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From: Stuart Davis [<mailto:stuart.davis@directcontrols.co.uk>]
Sent: 12 June 2015 12:30
To: Michal Glowacki; Hugh Mahoney; David Bradbury

Cc: Richard Midgley; Kevin Natrass

Subject: RE: Grenfell Tower

Hi Michal

We currently have provision for 5 x outputs (which could be volt free, 0-10v etc) whichever is easier.

We also have 5 x temperature sensors (in total) they are on the Ground, fifth, tenth, fifteenth and twentieth floors. We could average all of the sensors together and give you one open / closed signal ?

Please advise.

Regards

Stuart

Stuart Davis

Director
Direct Control Systems Ltd
City Court
161 Hospital Street
Newtown
Birmingham
B19 3XA

Tel: [REDACTED]

Fax: [REDACTED]

Mob: [REDACTED]

email: stuart.davis@directcontrols.co.uk

Company Registration No:02850312

From: Michal Glowacki [<mailto:michal.glowacki@psbuk.com>]

Sent: 12 June 2015 09:07

To: Hugh Mahoney; Stuart Davis; David Bradbury

Cc: Richard Midgley

Subject: RE: Grenfell Tower

Good morning All

Since we open all dampers when we receive environmental signal on any floor, then we can work with only one Volt Free environmental signal from BMS, unless it's more convenient for you to supply more signals (we can always use them all as one). I just need to know how many and what type (closing or opening at activation) environmental signals do you want to supply and on which floors.

Kind Regards

Michal Glowacki

From: Hugh Mahoney
Sent: 10 June 2015 18:38
To: Stuart Davis; Michal Glowacki; David Bradbury
Cc: Richard Midgley
Subject: RE: Grenfell Tower

Hi Stuart,

If you mean the lobby environmental fans, yes we are powering and controlling these fans.
I assume from your question that your control brief and mine are at odds.
I am out of the office tomorrow I will follow up on Friday.
Can you in the meantime contact David Bradbury for clarification.

Many thanks
Hugh Mahoney
Commercial Manager

PSB UK
Witt House
Self Mills
Shelf
Halifax
HX3 7BJ
England

Mobile [REDACTED]
Tel [REDACTED]
Fax [REDACTED]

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From: Stuart Davis [<mailto:stuart.davis@directcontrols.co.uk>]
Sent: 10 June 2015 17:23
To: Hugh Mahoney; Michal Glowacki; David Bradbury
Cc: Richard Midgley
Subject: RE: Grenfell Tower

Hugh

Are you powering and controlling the Lobby General vent fans ?

Regards

Stuart

Stuart Davis

Director
Direct Control Systems Ltd
City Court
161 Hospital Street
Leewtown

Birmingham
B19 3XA

Tel: [REDACTED]

Fax: [REDACTED]

Mob: [REDACTED]

email: stuart.davis@directcontrols.co.uk

Company Registration No:02850312

From: Hugh Mahoney [<mailto:hm@psbuk.com>]
Sent: 10 June 2015 17:21
To: Stuart Davis; Michal Glowacki; David Bradbury
Cc: Richard Midgley
Subject: RE: Grenfell Tower

Hi Stuart.

There appears confusion here.

The smoke control system and environmental system are in essence one and the same.
The system is fully controlled from our own intelligent control system.
What we need to know is what type of BMS interface control signals you will give for environmental system start and environmental system stop. i.e. a trigger signal to start (I assume high temperature set point) and to stop (I assume once lower temperature set point is reached).
Our controls operates the system in the required operating modes.
Our control will also override your signal if the fire alarm is activated.
In environmental mode the system is designed to be either venting all levels, at the same, time or off.

As I am not a control man I need you and Michal to talk so that we all get the correct signal information for the controls.

Sorry for the confusion.

Best regards
Hugh Mahoney
Commercial Manager

PSB UK
Witt House
Shelf Mills
Shelf
Halifax
HX3 7BJ
England

Mobile [REDACTED]
Tel + [REDACTED]
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From: Stuart Davis [<mailto:stuart.davis@directcontrols.co.uk>]
Sent: 10 June 2015 17:04
To: Michal Glowacki; David Bradbury
:: Hugh Mahoney; Richard Midgley
Subject: RE: Grenfell Tower

Hi Michael

I have phoned and left a message for you regarding the above site.

Currently we have 5 x temperature sensors (10k3A1 type thermistor bead) to be installed that are wired directly back into the Trend BMS. The lobby fans will be speed controlled to temperature demand based on these sensors. We then have an allowance for some hard wired signals back from your system to stop the fans should a fire / smoke condition be activated or the extract override from the fireman's switch be activated. I believe that you have damper actuators on your system that will be spring returned closed to the general vent upon receiving a signal from your system in smoke extract. We then disable the general lobby vent.

Please call me on my mobile when you get 5 minutes and we can discuss.

Thank you.

Regards

Stuart

Stuart Davis

Director
Direct Control Systems Ltd
City Court
161 Hospital Street
Newtown
Birmingham
B19 3XA

Tel: [REDACTED]
Fax: [REDACTED]
Mob: [REDACTED]

email: stuart.davis@directcontrols.co.uk

Company Registration No:02850312

From: Michal Glowacki [<mailto:michal.glowacki@psbuk.com>]
Sent: 09 June 2015 15:25
To: Stuart Davis; David Bradbury
Cc: Hugh Mahoney; Richard Midgley
Subject: RE: Grenfell Tower

Hi Stuart

Ok. Cheers.

Kind Regards
Michal Glowacki

Electrical Engineer
WITTUK GROUP
www.wittandson.co.uk

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From: Stuart Davis [<mailto:stuart.davis@directcontrols.co.uk>]
Sent: 09 June 2015 15:18
To: David Bradbury
Cc: Hugh Mahoney; Michal Glowacki; Richard Midgley
Subject: Re: Grenfell Tower

Hi Hugh / Michal

Michael - I've got your voice message from earlier, I'm in and out of meetings in London today but will call you back tomorrow when I'm in front of my PC so I can check what we have currently allowed for to link to your system.

Regards

Stuart

Stuart Davis
Director
Direct Control Systems Ltd
Tel: [REDACTED]
Fax: [REDACTED]
Mob: [REDACTED]
Web: www.directcontrols.co.uk

(Sent from my iPhone)

On 9 Jun 2015, at 09:23, David Bradbury <DavidBradbury@jswright.co.uk> wrote:

Hi Hugh,

I've just spoken to our BMS specialist Stuart Davis from Direct Controls. I think it's just a signal we were giving you from the BMS which will be linked into the 4 or 5 temperature sensors. It's probably best if you speak directly to Stuart as you can both speak control language.

Stuart Davis – Direct Controls
Mobile: [REDACTED]

Also I'll send the attached to the consultant for any additional comments, has the schematic changed since last week or shall I just issue the one as attached?

Kind regards,

Dave Bradbury
Design Manager
Head Office

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

From: Hugh Mahoney [<mailto:hm@psbuk.com>]
Sent: 09 June 2015 08:45
To: David Bradbury
Cc: Michal Glowacki; Richard Midgley
Subject: Grenfell Tower

Hi David,

I am progressing with the cause and effect for the control system and my control section have produced the attached cause and effect chart.

Can you let me know how many and what type of temperature signals you will be giving to our system.

Also note we have designated the alarm input signal as ZN1 (zone one) etc.

In addition to the above Please advise if there are any changes you want us to make to the chart. Once the information on the chart is agreed we will use it to produce our software. Please note that the nomenclature used on the chart will be reflected in the visual output to the HMI so it is important we get this right.

Your reply ASAP required as until such time that I have your confirmation I will be enable me to schedule the work into my control section.

As always, the devil is in the detail.

Best regards
Hugh Mahoney
Commercial Manager

PSB UK
Witt House
Shelf Mills

Shelf
Halifax
HX3 7BJ
England

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<75015-Grenfell Tower, North Kensington 29-05-15.zip>

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