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16/09/2015 15:37

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File Ref 1 Electrical Contractor

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To: <M.Smith@maxfordham.com>

Subject: FW: Grenfell Tower - AOV

Associated Documents

created by: **Matt Smith** on 16-Sep-15

Afternoon Matt,

Yes we're making progress. I visited site yesterday morning, carried out further surveys regarding the additional main from neighbouring building, very awkward but achievable. We're currently in final discussions with PSB to fully understand the load requirements of the system and JSW are trying to put a meeting together with Rydons, Building Control, Fire Officer and any other relevant parties to discuss both the primary and secondary supplies and also cabling routes from ground to roof.

Regards
Andy

Andy Bridges
R J ELECTRICS LTD
T: F: D: M: E: andy@rjelectrics.co.uk

From: M.Smith@maxfordham.com [mailto:M.Smith@maxfordham.com]
Sent: 16 September 2015 11:46
To:
Cc: 'David Peacock'; 'Dan Moodie'; d.campbell@maxfordham.com; 'Simon Lawrence'; David Bradbury; 'Claire Williams '; Neil Reed; 'MALCOLM Andrew'; Tony Batty; LOWE Michelle
Subject: RE: Grenfell Tower - AOV

Morning Andy

Have you made any progress with this?

Kind regards,

Matt

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Registered office 42-43 Gloucester Crescent, London, NW1 7PE

From: Matt Smith/MaxFordham

To:

Cc: 'David Peacock' <DavidPeacock@jswright.co.uk>, 'Dan Moodie' <dm@rjelectrics.co.uk>, d.campbell@maxfordham.com, 'Simon Lawrence' <slawrence@rydon.co.uk>, "David Bradbury" <DavidBradbury@jswright.co.uk>, "Claire Williams" <clwilliams@kctmo.org.uk>, "Neil Reed" <neil.reed@uk.arteliagroup.com>, "MALCOLM Andrew" <andrew.malcolm@uk.arteliagroup.com>, "Tony Batty" <tbatty@silcockdawson.co.uk>, "LOWE Michelle" <michelle.lowe@uk.arteliagroup.com>

Date: 10/09/2015 18:06

Subject: RE: Grenfell Tower - AOV

Evening Andy

Thanks for calling back earlier.

To clarify, the options to investigate in order of preference are as follows:

1. Upon receipt of the further information you have requested regarding the fans from PSB, to investigate the possibility of uprating the existing cable to provide a 40A per phase secondary supply from Testerton Walk to serve both the rooftop smoke extract fans and the Walkway smoke extract fans (20A supply to each fan set).
2. If the above is not possible/acceptable, to investigate uprating the existing secondary from Testerton Walk to a 32A per phase to serve as secondary supply to either the rooftop smoke extract fans or the Walkway smoke extract fans. In parallel with this, investigate whether an additional 32A per phase secondary supply could be obtained from either Barandon Walk or Hurstway to serve as a secondary supply to the other smoke extract fan set.
3. If neither of the above two options are feasible then to continue your enquiries regarding separate UPS systems.

As discussed, we'll catch up on this on Monday.

Kind regards,

Matt

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From: Andrew Bridges [REDACTED]
To: <M.Smith@maxfordham.com>, 'David Peacock' <DavidPeacock@jswright.co.uk>, 'David Peacock' <DavidPeacock@jswright.co.uk>, 'Simon Lawrence' <slawrence@rydon.co.uk>
Cc: 'Dan Moodie' <dm@rjelectrics.co.uk>, <d.campbell@maxfordham.com>
Date: 04/09/2015 08:13
Subject: RE: Grenfell Tower - AOV

Morning Matt,

To bring you up to speed with the existing secondary supply, after further investigation we have established that this supply is only 20A per phase and served by a 2.5mm H MICC cable. This appears to supply a smaller pressurisation system as opposed to the original smoke vent system which I think is backed up by the previously referenced battery bank located in the basement plant area.

The upshot is that the new system requires supplies to 2 no. 32A TP&N panels so the existing backup supply is not going to be anywhere near sufficient. I have traced the 20A supply back to its' origin in Testerton Walk; this is derived from a 100A TP&N Landlords panel so taking into account the existing Landlords loads up-rating the supply wouldn't be an option.

I am currently sizing a UPS system to utilise as the secondary supply and would appreciate any feedback you may be able to offer.

By all means give me a call to discuss.

Regards

Andy

Andy Bridges
R J ELECTRICS LTD [REDACTED]
T: [REDACTED] F: [REDACTED] D: [REDACTED] M: [REDACTED] E: andy@rjelectrics.co.uk

From: Andrew Bridges [REDACTED]
Sent: 06 August 2015 08:45
To: 'M.Smith@maxfordham.com'
Subject: RE: Grenfell Tower - AOV

Matt,

Thanks for that. I will look into it further, it seems I was looking at an older system which is still live!!

I will get back to you if I need anything further

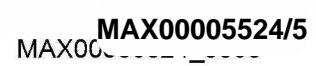
Regards
Andy

Andy Bridges
R J ELECTRICS LTD [REDACTED]
T: [REDACTED] F: [REDACTED] D: [REDACTED] M: [REDACTED] E: andy@rjelectrics.co.uk

From: M.Smith@maxfordham.com [<mailto:M.Smith@maxfordham.com>]
Sent: 05 August 2015 15:43
To: [REDACTED]
Cc: 'David Bradbury'; 'Daniel Moodie'; hm@psbuk.com; d.campbell@maxfordham.com
Subject: RE: Grenfell Tower - AOV

Afternoon Andy / Dave

- 1) This would also be my interpretation of BS9999.
- 2) This was picked up in our survey. Please see annotated image below of the switch room at Grenfell and attached image files:



3) Hopefully this point is covered by the above.

Please note that I'll be away tomorrow and Friday so if you'd like to discuss further this week please get in touch today.

Kind regards,

Matt

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From: Andrew Bridges [REDACTED]
To: 'David Bradbury' <DavidBradbury@jswright.co.uk>, <M.Smith@maxfordham.com>
Cc: 'Daniel Moodie' <dm@rielectrics.co.uk>, <hm@psbuk.com>
Date: 04/08/2015 17:52
Subject: RE: Grenfell Tower - AOV

Matt/ Dave,

Re: Auto changeover units - a couple of issues:

1) My interpretation of the latest PSB schematic effectively indicates 2 separate systems, one in the roof top plant area and 1 at ground floor level. I have had a chat with Hugh at PSB and he has confirmed that each of the main panels is going to require a main changeover unit, sited locally to the panel.

This is going to require dual fire rated feeds from the main and secondary intakes at basement level. An installation of this extent wasn't included in our original tender,

I'm currently re-costing to PSB's latest schematic at which time I shall break down costs to indicate how much the main feeds are coming to.

2) With regard to secondary supply into the building, the Fordham tender drawings indicate an existing supply from Testerton Walk - Intake 6:

- Matt, can you confirm that Fordham's actually picked this up in their survey, I have been looking into this in more detail today, I couldn't locate the secondary supply, but also found a large battery inverter bank that appears to be providing the secondary supply for the existing smoke vent system. Can you shed any light on this?
- Notwithstanding the above, the supply indicated from Testerton Walk appears to be single phase only, as is the existing inverter system. As you are aware the new PSB smoke vent system is based on a 400V 3-phase system. Therefore it's unlikely either of the existing secondary supply options are going to be suitable.

3) Assuming the above information is accurate we are going to have to consider alternative secondary supply sources.

- Secondary supply from neighbouring building - this will need extensive surveying, but on initial inspection there doesn't seem to be any obvious options.
- Standby generator unit - probably not workable at this stage when taking into account the space required and venting and exhaust issues.
- Dedicated UPS system - probably the most viable option for us, but we may require two small systems given the distance between the 2 panels.

Matt, can you get back to me with your thoughts? By all means give me a call to discuss.

Regards
Andy Bridges

Andy Bridges
R J ELECTRICS LTD

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

Sent: 03 August 2015 09:46

To: 'Daniel Moodie'; [REDACTED]

Subject: FW: Grenfell Tower - AOV

Dan / Andy,

Could you confirm the following from Matt is correct please:

- The auto-changeover for the power supply is not included in PSB's schematic. Can you confirm that this is being picked up by RJE?

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: 02 August 2015 19:21
To: David Bradbury <DavidBradbury@jswright.co.uk>
Subject: RE: FW: Grenfell Tower - AOV

Hi David,
Please see below for my answers to the points raised by the consultant engineer

Hugh Mahoney
Commercial Manager

PSB UK Ltd

Witt House
Shelf Mills
Shelf
Halifax
HX3 7BJ
England

Tel: [REDACTED]
Fax: [REDACTED]
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From: David Bradbury [<mailto:DavidBradbury@jswright.co.uk>]
Sent: 16 July 2015 12:40
To: Hugh Mahoney <hm@psbuk.com>
Cc: David Peacock <DavidPeacock@jswright.co.uk>
Subject: FW: FW: Grenfell Tower - AOV

Hugh,

Would you be able to answer the questions below from the consultant for me please.

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: M.Smith@maxfordham.com [<mailto:M.Smith@maxfordham.com>]
Sent: 16 July 2015 11:40
To: David Bradbury
Cc: d.campbell@maxfordham.com; 'Claire Williams'; Nick Valente (nick.valente@uk.arteliagroup.com); Neil Reed
Subject: Re: FW: Grenfell Tower - AOV

Morning Dave

Thanks for sending this through.

A few comments;

- Is the proximity of the low-level point of discharge to the flats at Walkway +1 acceptable? I had previously assumed that all smoke discharge was to be at roof level. This is outside my area of expertise however so it may be correct.

The smoke discharge from a smoke control system can be at any level and it should discharge where it does not affect the point of exit or can be drawn back into the building. This system will not be extracting smoke during the evacuation phase as air will be drawn through the open stairwell door and it will pull in clean air from the stairwell. During firefighting operations air will again be pulled in from the stairwell. Should a window, in the fire affected flat, break then some smoke may be extracted during firefighting operations. i.e. the flat door is open and the stairwell door is open.

- The auto-changeover for the power supply is not included in PSB's schematic. Can you confirm that this is being picked up by RJE?

David you will have to answer this point

- The environmental fans on the cause & effect document are down as 100%. Can you provide a narrative for how these are controlled? I.e. is the fan speed controlled? What are the temperature set points? Are the dampers either fully open or fully closed?

David you will have to answer what the temperature set point is. With regard to the dampers all lobby dampers will be fully open

- Can you also confirm that the phasing of switch over from environmental control to fire condition will be such that the damper on the environmental supply fan will be fully closed prior to the smoke extract fan coming on line?

There will be an initial time delay to the smoke extract fans starting (90 seconds) as all dampers will close and then the dampers on the fire floor will open. Once an alarm signal is received the main environmental fan damper will close and both the main smoke extract fan dampers will open.

Kind regards,

Matt

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From: David Bradbury <DavidBradbury@jswright.co.uk>
To: "M.Smith@maxfordham.com" <M.Smith@maxfordham.com>
Date: 16/07/2015 10:18
Subject: FW: Grenfell Tower - AOV

Matt, FYI. Latest AOV drawings, I've asked them to change the schematic to incorporate the ground floor as well.

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: 15 July 2015 16:41
To: David Peacock
Cc: David Bradbury; Richard Midgley; Tim Haigh; Hugh Mahoney
Subject: RE: Grenfell Tower - AOV

Dave,

Please find attached the following revised drawings and cause and effect for Grenfell Tower:-

E75015-800 Rev C
P75015-140 Rev B
75015-C & E Rev 02

Best Regards

Richard Yeadon
Senior Design Engineer - PSB UK Ltd

Witt & Son UK Holdings
Fan Systems Group
PSB UK
Witt & Son UK
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