Coronavirus Guidance Webinar
20th May, 2020
All slides and a recording of the webinar are available on the website later this afternoon

- CBI Update
- BuildUK Update
- Ventilation Systems:
  - Fire Risk Management (Gary Nicholls, MD Swiftclean and Chair of BESA Vent Hygiene User Group);
  - Maintaining Cleanliness Levels (George Friend, CEO Ventilation Surveys and Services and Chair of Vent Hygiene Specialist Group);
  - Certification and Compliance (Duncan Sibbald, Head of Certification BESA)
- Q&A
Ventilation Systems

Gary Nicholls – Chair of BESA Vent Hygiene User Group

George Friend – Chair of Vent Hygiene Specialist Group

Duncan Sibbald – Head of Certification
Fire Risk Management

Gary Nicholls
Chair of BESA Vent Hygiene User Group
Hospitality Sector minimising cost for Grease Extract Fire Risk Control – post COVID19

Gary J Nicholls
Managing Director Swiftclean (UK) Ltd
Co-Author TR19
Article 11

• Uncontrolled grease levels cause fires
• Elevated summer temp. elevated risk
• TR19® Grease to control

Fire safety arrangements

11.—(1) The responsible person must make and give effect to such arrangements as are appropriate, having regard to the size of his undertaking and the nature of its activities, for the effective planning, organisation, control, monitoring and review of the preventive and protective measures.

(2) The responsible person must record the arrangements referred to in paragraph (1) where—
   (a) he employs five or more employees;
   (b) a licence under an enactment is in force in relation to the premises; or
   (c) an alterations notice requiring a record to be made of those arrangements is in force in relation to the premises.
What to consider as hospitality comes out of lockdown

- When were grease extraction systems cleaned pre-lockdown?
- What was previous frequency of cleaning?
- What was the previous daily rate of grease accumulation per system?
- Was frequency of cleaning based on controlling grease to TR19® Grease limits? *Anyone working to TR19® Grease Specification will have this information at hand*
- How does our turnover compare with pre-lockdown?
## Cleaning frequencies review

<table>
<thead>
<tr>
<th>FREQUENCY OF CONTROL CLEAN</th>
<th>DAILY MICRON AVERAGE ACCUMULATION RANGE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Twice weekly</td>
<td>28.7 upwards</td>
</tr>
<tr>
<td>Weekly cleaning</td>
<td>14.4 to 28.6</td>
</tr>
<tr>
<td>Every 2 weeks</td>
<td>9.6 to 14.3</td>
</tr>
<tr>
<td>Every 3 weeks</td>
<td>6.7 to 9.5</td>
</tr>
<tr>
<td>Monthly</td>
<td>4.8 to 6.6</td>
</tr>
<tr>
<td>Every 6 weeks</td>
<td>3.3 to 4.7</td>
</tr>
<tr>
<td>Every 2 months</td>
<td>2.2 to 3.2</td>
</tr>
<tr>
<td>Quarterly</td>
<td>1.7 to 2.1</td>
</tr>
<tr>
<td>Every 4 months</td>
<td>1.1 to 1.6</td>
</tr>
<tr>
<td>Every 6 months</td>
<td>0.6 to 1.0</td>
</tr>
<tr>
<td>Annually</td>
<td>0.5 or LESS</td>
</tr>
</tbody>
</table>
Calculation example – daily accumulation rate

- Mean pre-clean grease thickness 140 microns
- Number of days since last clean 91 (3 monthly)
- $140/91 = 1.53$ (daily grease accumulation rate)
- Cleaning frequency could be changed to every 4 months – saving cost of one clean per year (reducing cost by 25%)
Certification of work through BESCA’s VHE Scheme
Maintaining Cleanliness Levels

George Friend
Chair of Vent Hygiene Specialist Group
TR19® – General considerations for Inspection and Hygiene of ducted systems

Delivered by:
George Friend
Inspections – What is required?

Post Covid 19 – What are the obligations for inspection of systems?

This is not new, nothing has changed, we should have been doing this for some time!

- British Standards – In place since 2011 – BSEN15780
- BESA TR19 – Section 5 – Since 2013
- HTM 03 – 01 – Healthcare Technical Memorandum

The above clearly define frequency of inspection of systems and cleanliness levels of the systems.
### Table 1 (A.1) — Typical applications of cleanliness quality classes (for ventilation systems)

<table>
<thead>
<tr>
<th>Quality class</th>
<th>Typical examples</th>
</tr>
</thead>
<tbody>
<tr>
<td>Low</td>
<td>Rooms with only intermittent occupancy e.g. storage rooms, technical rooms</td>
</tr>
<tr>
<td>Medium</td>
<td>Offices, hotels, restaurants, schools, theatres, residential homes, shopping areas, exhibition buildings, sport buildings, general areas in hospitals and general working areas in industries</td>
</tr>
<tr>
<td>High</td>
<td>Laboratories, treatment areas in hospitals high quality offices</td>
</tr>
</tbody>
</table>

### Table 6 (TR19) Recommended minimum regular inspection/monitoring intervals (in months) according to system (cleanliness) quality class ('SQC')

<table>
<thead>
<tr>
<th>SQC</th>
<th>inspection and Testing intervals (months)</th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>AHU</td>
<td>Filters (2)</td>
<td>Wetareas (3)</td>
<td>Ducts</td>
<td>Terminals</td>
</tr>
<tr>
<td>Low</td>
<td>24</td>
<td>12</td>
<td>12</td>
<td>48</td>
<td>48</td>
</tr>
<tr>
<td>Medium</td>
<td>12</td>
<td>12</td>
<td>6</td>
<td>24(3)</td>
<td>24(3)</td>
</tr>
<tr>
<td>High</td>
<td>12</td>
<td>6</td>
<td>6</td>
<td>12(4)</td>
<td>12(4)</td>
</tr>
</tbody>
</table>
YES – But only if required!

There are no benefits to cleaning a system unless it fails to meet cleanliness criteria.

REVHA and BESA guidance states that there is no benefit to ductwork cleaning, unless the system fails to meet cleanliness criteria.

General Extract systems are often overlooked, their performance will decrease dramatically when internal deposits build up.
Specific considerations:

- All staff undertaking works correct PPE and face fit testing for RPE
- Isolate the systems wherever possible, before cleaning or inspection
- HEPA filtered vacuums and air movers
- Think about the plan for cleaning the system in direction of airflow
- Protect the occupants
- Evidence system improvements, images and airflows
- Trained and competent staff
Action Plan:

1. No recirculation, as per REVHA, BESA and CIBSE advice
2. Inspect systems for cleanliness
3. Clean systems that fail to meet prescribed cleanliness levels
4. Maintain and inspect systems as per British Standard and Industry guidance (Intervals are also in SFG20)
5. Consider if ventilation to the areas is fit for purpose / adequate and advise if you are concerned for further investigation by specialists
Certification & Compliance

Duncan Sibbald
Head of Certification
Competence
Compliance
Certification

Duncan Sibbald
Head of Certification, BESA
A focus on Competence and Compliance

- Evidence competence and compliance
- Company and individual level
Supporting members through our Certification Schemes
Thankyou!

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Webinar Programme

Coming Up:

**Thursday 21st - Business Webinar.** We are joined by construction marketing and PR guru, Liz Male MBE, who will give us her top tips for promoting yourself out of the pandemic slump.

**Friday 22nd - Mental Health Webinar.** We will be rounding off Mental Health Awareness Week with a presentation giving you practical advice on how to safeguard mental health. Plus, Martin Coyd on the Building Mental Health initiative and Lighthouse Club.

**Tuesday 26th – Technical Webinar.** The importance of commissioning in maximising energy efficiency and extending life cycle expectancy in HVAC systems.
Air conditioning system cleaning maintenance.

An essential look at the common process and products for sustaining a healthy environment and energy efficiency.

Scott Davies, Sales Director – JAVAC Tools & Advanced Chemicals (UK & EIRE)

Thursday 22 May 10am - 11am

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