Technical Data Schedule (TDS) - Guidance Note

Fire / Smoke Control System

Last Issue Date: 08/08/2017

<table>
<thead>
<tr>
<th>Activity</th>
<th>Type Of Service</th>
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<td>A</td>
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</table>
| 1        | SIMULATION (from FIP):  
  a) Simulate by activation from FIP, the fire/smoke situation (for each system or zone where relevant), required to effect changeover from normal mode to fire mode or shutdown as appropriate.  
  b) Check fans, dampers and indicator lamps operate in fire mode as documented.  
  Refer to Special Comments for additional information.  
|          | Y  | Y  |     |     |     |
| 2        | SIMULATION (from DETECTOR):  
  a) Conduct a simulation of a fire/smoke situation (for each system or zone where relevant) to effect changeover from normal mode to fire mode or shutdown as appropriate.  
  b) Check fans, dampers and indicator lamps operate in fire mode.  
  NOTE: Tests required in Activities 4, 5 and 6 are carried out during this simulation test.  
  Refer to Special Comments for information.  
|          | Y  |     |     |     |     |
| 3        | Operate the manual switches at the FFCP. Check that fans start and stop and dampers, if applicable, open and close as documented.  
|          | Y  |     |     |     |     |
| 4        | SYSTEM SHUTDOWN:  
  a) Where supply air systems are fitted with a smoke detector(s), check system shuts down when the detector is automatically activated as documented.  
  b) Verify re-start when the smoke clears and verify that the FFCP manual override `ON' operates while the fan has shut down due to supply smoke detection.  
|          | Y  |     |     |     |     |
| 5        | ZONE SMOKE CONTROL:  
  a) Check the system performance criteria as documented.  
  b) Record all differential pressures on a separate sheet.  
|          | Y  |     |     |     |     |
| 6        | FIRE CURTAINS AND SMOKE CURTAINS:  
  Check to ensure that the integrity and leakage performance are not compromised by operation of the mechanical systems in fire mode.  
|          | Y  |     |     |     |     |
| 7        | REVERSION TO NORMAL:  
  Switch system back to `normal' and check that all equipment and indicator lamps are in the correct non-fire mode.  
|          | Y  | Y  |     |     |     |
| 8        | Record the results in the log book.  
|          | Y  | Y  |     |     |     |

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C SERVICE 3 MONTHLY
D SERVICE ANNUAL
FOR INFORMATION ON THE SERVICING REFER TO AS1851, CLAUSE
13.4.2.4 AND 13.4.2.5, THE NOTES & APPENDICES H & I.

SIMULATION (FROM FIP) - FROM AS1851 TABLE 13.4.2.4:
1/ THE PURPOSE OF A SIMULATED TESTING ROUTINE IS TO CHECK
THE FUNCTIONING OF THE AIR-HANDLING CHANGEOVER SYSTEM AND
NOT THE DETECTORS THEMSELVES. THE RECOMMENDED PRACTICE IN
IN THIS CASE IS TO SIMULATE ACTIVATION OF THE SYSTEM BY
INITIATING THE FIRE ALARM VIA THE SWITCH IN THE FIP.
2/ THIS CHANGE-OVER TEST IS INITIATED IN THE FIRE PANEL TO
VERIFY THE INTEGRITY OF THE INTERFACE BETWEEN FIRE AND
MECHANICAL SYSTEMS.
3/ VERIFICATION OF FAN OR DAMPER OPERATION MAY USE
ELEMENTARY TESTING PROCEDURES; E.G. HEARING FAN START,
OBSERVATION OF INDICATOR LAMP CHANGE OF STATUS, FEELING OF
AIR MOVEMENT ACROSS DOORWAY, GRILLE, DUCT, ETC.

SIMULATION (FROM DETECTOR) - FROM AS1851 CLAUSE 13.4.2.5
NOTES:
1/ THE PURPOSE OF AN AUTOMATIC TESTING ROUTINE IS TO CHECK
THE FUNCTIONING OF THE AIR-HANDLING CHANGEOVER SYSTEM BY
THE ACTIVATION OF A FIELD DEVICE (DETECTOR OR SPRINKLER).
THE RECOMMENDED PRACTICE IN THIS CASE IS BRINGING A HEAT,
FLAME OR SMOKE SOURCE TO A DETECTOR OR OPERATING A
SPRINKLER VALVE TO ACTIVATE FLOW/PRESSURE SWITCHES.
2/ THIS CHANGE-OVER TEST IS INITIATED IN THE FIELD DEVICE
TO VERIFY THE END-TO-END INTEGRITY OF THE FIELD DEVICE &
MECHANICAL SYSTEMS INTERFACE(SEE AS1851 CLAUSE 1.12).

SERVICING NOTIFICATION:
THE AGENCY FACILITY REPRESENTATIVE IS TO BE NOTIFIED
WHENEVER AN AUTOMATIC ACTIVATION TEST IS TO BE CONDUCTED
TO ADVISE THAT THE ALARM WILL SOUND AND THE SYSTEM MAY BE
INOPERATIVE FOR A CERTAIN TIME.

COMPARTMENT SEQUENCING:
FOR THE PURPOSE OF THIS TEST, EACH COMPARTMENT SHOULD BE
SEQUENTIALLY PLACED IN FIRE MODE.

TDS REFERENCES:
FOR THE SERVICING REQUIREMENTS OF THE COMPONENTS E.G.
FANS, MOTORS, FIRE DAMPERS ETC. REFER TO THE RELEVANT TDS.

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