



Risk Assessment Record

Area: Cable Management
Location: Generic
Reference: General cable management
Assessment completed by: Steve Roskilly
Date: last update 2nd February 2008

Activities:

Mains cables are run from a power supply point (generator, wall supply etc) to mains distribution equipment, dimmers, etc. Multicore and "TRS" cables run from distro / dimmers to lighting fixtures on stage trusses etc. Front of House Multicore cabling is also run through audience area to from of house position.

This assessment covers the physical hazards of such cabling and cable management.

| Severity | Likelihood | Risk Class |
|------------------|------------|------------|
| Equipment Damage | Impossible | High |
| No Injury | Remote | Moderate |
| Trivial injury | Possible | Minor |
| Minor injury | Probably | Acceptable |
| Major injury | Likely | |
| Fatal injury | | |

Hazards

| Item | Hazard | Severity | Likelihood | Risk Class |
|----------|---|------------------|------------|------------|
| 1 | Trip hazard from floor run cables | Trivial injury | Possible | Minor |
| 2 | Tension hazard in cables when fixture is rotated can cause damage to strain relief. | Equipment damage | Possible | Minor |
| 3 | Melting hazard due to cables running close or against hot surfaces of lighting fixtures | Equipment damage | Possible | Moderate |
| 4 | Weight of cables | Equipment | Possible | Minor |

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|----------|---|------------------|----------|----------|
| | running from truss may effect truss stability | damage | | |
| 5 | Dropped cables from truss could inflict serious shock load on truss possibly leading to failure | Fatal injury | Remote | Minor |
| 6 | Cable weight from truss could snap PVC tape on truss and cause cable fall | Minor injury | Possible | Moderate |
| 7 | Trip and tangle hazard to persons working at height on truss | Fatal injury | Remote | Minor |
| 8 | Damage to cables laid outside by vehicles | Equipment damage | Possible | Minor |
| 9 | Equipment faults | Fatal injury | Possible | Minor |

Persons at Risk:

Employees: Yes
Contractors: Yes
Public: In case of point 5

Current Controls / Procedures

| Item | Control/ Procedures | Monitored & Assessed by: | Adequate control |
|-------------|--|-------------------------------------|-------------------------|
| 1 | All floor run cables to be laid flat to floor or laid in floor traps and vertical to walls etc. Cables across walkways to be secured by gaffa tape, slipway tape, coverings or cable ramp as appropriate. Walkway crossings to be kept to a minimum and cables grouped together. | Installer | Yes |
| 2 | Sufficient slack to be left in all fixture cables to allow full rotation of the unit and possible small positioning changes | Installer | Yes |
| 3 | All cables to be taped securely to prevent any possible contact with hot surfaces. Silicon lantern cables may make contact with the lantern they are connected to but extra care should be taken to ensure any connectors are kept clear. | Installer | Yes |

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|----------|--|--|-----|
| 4 | Weight of cables should be factored into truss load calculations. If the load is significant, or the fall angle is far from vertical then an additional chain hoist should be employed | Designer | Yes |
| 5 | Cables should not be dropped from the truss at any time. All changes to a cable pick should be made with the truss at ground level | Rigger | Yes |
| 6 | Cable pick to be supported via a "spanset" and shackle, noosed around the cable, so as to take all the weight from the PVC tape. The shackle to be fitted in such a manner as to avoid cable damage | Rigger | Yes |
| 7 | All cables run on truss, stage roof or similar structure to be run neatly on top of truss and taped securely. | Installer to be double checked by rigger | Yes |
| 8 | Only cabling of appropriate nature may be laid over grass roadways. All connectors must be protected via a visual marker to prevent them being driven over. A road cone or pin clearly marked is suitable for this use | Mains installer | Yes |
| 9 | All equipment to be tested in accordance with the Portable Appliance Testing (PAT) regulations | Operations manager / warehouse manager | Yes |

Additional Action Plan Required?
Action required:

(Yes/No?)

No