

EQUIPMENT STARTUP CHECKLIST

Enclosed Vehicle Facilities Application

Equipment type: Exhaust fan
Equipment designation: EF-1
Barcode designation: 111111
Area served: Three-level enclosed garage
Equipment location: On-grade

ELECTRICAL INSPECTION

- | | [Y] | [N] |
|--|-----------------------|-----------------------|
| • Is there a need for emergency power? | <input type="radio"/> | <input type="radio"/> |
| • Electrical completed and disconnect install per code compliance. | <input type="radio"/> | <input type="radio"/> |
| • Starter and wire sizing per contract documents. | <input type="radio"/> | <input type="radio"/> |
| • Motor bumped to verify rotation. | <input type="radio"/> | <input type="radio"/> |
| • Terminations and panel circuit labeled. | <input type="radio"/> | <input type="radio"/> |
| • Voltage and motor amps (per phase) documented. | <input type="radio"/> | <input type="radio"/> |

EQUIPMENT INSTALLATION (PER CONTRACT DRAWINGS AND SPECIFICATION)

- | | [Y] | [N] |
|---|-----------------------|-----------------------|
| • Ductwork complete. | <input type="radio"/> | <input type="radio"/> |
| • Equipment location not within location of outside air intake. | <input type="radio"/> | <input type="radio"/> |
| • Curb and flashing requirements met. | <input type="radio"/> | <input type="radio"/> |
| • Vibration isolation complete. | <input type="radio"/> | <input type="radio"/> |
| • Seismic restraints, if required, complete. | <input type="radio"/> | <input type="radio"/> |
| • Equipment is labeled as scheduled. | <input type="radio"/> | <input type="radio"/> |
| • Equipment manufacturers' startup sheets completed. | <input type="radio"/> | <input type="radio"/> |
| • Manufacturers' O&M available. | <input type="radio"/> | <input type="radio"/> |
| • Manufacturers' startup sheets available. | <input type="radio"/> | <input type="radio"/> |
| • Warranty certificate available. | <input type="radio"/> | <input type="radio"/> |

DISTRIBUTION (TO AND FROM EQUIPMENT)

- | | [Y] | [N] |
|--|-----------------------|-----------------------|
| • Ductwork pressure tested per contract documents. | <input type="radio"/> | <input type="radio"/> |
| • TAB report (with field notes). | <input type="radio"/> | <input type="radio"/> |
| • Identification per contract documents. | <input type="radio"/> | <input type="radio"/> |

AUTOMATIC CONTROLS

- | | [Y] | [N] |
|---|-----------------------|-----------------------|
| • Equipment tag on graphics matches field data. | <input type="radio"/> | <input type="radio"/> |
| • Graphics include all necessary data (location, airflow, static pressure). | <input type="radio"/> | <input type="radio"/> |
| • Temperature controls complete. | <input type="radio"/> | <input type="radio"/> |
| • Control points confirmed. | <input type="radio"/> | <input type="radio"/> |
| • Electrical system interlocks complete. | <input type="radio"/> | <input type="radio"/> |
| • Fire alarm interface complete. | <input type="radio"/> | <input type="radio"/> |
| • Security interface complete. | <input type="radio"/> | <input type="radio"/> |

TRICKS OF THE TRADE (TO BE COMPLETED BY ENGINEER DOING THE DESIGN REVIEW)

- Confirm safe access to the equipment and around the equipment.
- Confirm adequate access for maintenance service and equipment removal.
- Confirm there will not be short-circuiting of exhaust air into air intakes and/or other building openings.

- Confirm noise levels will not disturb neighborhood.
- Complete missing equipment data sheet for CMMS when providing initial preventive maintenance workorder requirement.
- Spot-check fan total static pressure.
- Have a system flow diagram when starting up the equipment, with estimated flows, pressure, and pressure drops noted on diagram.



NOTE

- Refer to equipment manufacturers' literature for additional data and requirements.
- This checklist should be completed prior to the system commissioning process. **ES**

If you have any comments, suggestions, or questions regarding this designer checklist, contact Amanda McKew at amckew@rdkengineers.com.

