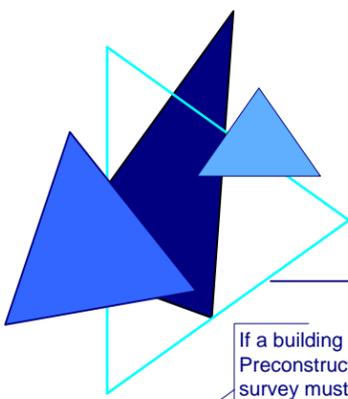


Commercial Mechanical Inspections^{1,2}

Thursday, August 09, 2007



If a building permit exists, the Building Preconstruction meeting and the 3rd party layout survey must be completed before beginning this process. See Commercial Building Inspections flow chart for more details.

Mechanical Rough Inspection

Mechanical Vent Inspection

Stove Hood Rough Inspection

Cooler/Freezer Rough Inspection

Mechanical Temp Gas Inspection

Mechanical TCO
Occupancy/
Mechanical TCO
Stocking

Final Mechanical Inspection

This is not a required set of inspections. All life and safety issues must be resolved in order to receive a temporary CO. See TCO Flow Chart for more details on the process to receive a Temporary CO.

This is not a required inspection. It is used to get gas in the building temporarily for the purpose of testing gas fired equipment. All rough inspections must be passed and finals must be partially completed in order for this inspection to pass.

- Check access to equipment (for items including but not limited to cat walk, clearance, disconnect, ladder, light, location, obstruction, receptacle, size, switch, and work platform)
- Check condensation (for items including but not limited to auxiliary, bury line set, float switch, engineered french drains, grade, location, material, micro switch, pan, primary, rise, secondary, support, and termination)
- Check condensers (for items including but not limited to access, bury line sets, controls, disconnects, insulation, labeling, location, piping, protection/safeties, service outlets, and supports)
- Check ice machines (for items including but not limited to back flow protection, drains, location, piping, and RPZ/cross connections)
- Check Furnace Unit (for items including but not limited to access, connections, controls, lighting, location, material, safeties, seal, service outlets, supports, and Duct R-value)
- Check Return Air (for items including but not limited to combustibles, insulation, location, mastic, material, penetrations, Duct R-value, seal, size and tape)
- Check Combustion Air (for items including but not limited to area of opening, clearance, location, obstruction, screen opening, size, source, and termination)
- Check Ducts (for items including but not limited to connections, dampers, flow, insulation, mastic/seal/tape, restrictions, Duct R-value, smoke detection, supports, grill/slots/laying/covers, and exhaust fans)
- Check location of equipment (for items including but not limited to access, clearance, hazardous or prohibited, ladder, obstructions, platforms, protection, and railing/guards)
- Check equipment room (for items including but not limited to alarms, clearance, controls, drains, location, smoke detectors, smoke fire dampers, type, safeties, signage, venting, make up air, and terminations)
- Check chillers (for items including but not limited to alarms, drains, insulation, location, piping, safeties, supports, and venting)

- Check Exhaust Vent (for items including but not limited to back draft dampers, clearance, connections, mastic/seal/tape, material, obstructions, penetrations, size, and terminations)
- Check Furnace Flue Vent (for items including but not limited to clearance, connections, fasteners, grade and rise, location, materials, obstructions, size, supports, and terminations)
- Check Dryer vent (for items including but not limited to connections, dampers, length, materials, penetrations, seal/tape, and termination)
- Check Smoke Fire Damper and Fire Dampers (for items including but not limited to access, angles, frames, clearance, break away, location, material, obstructions, seal, size, and spacing)

- Check Freezers and walk in coolers (for items including but not limited to controls, cross connection protection, disconnects, drains, freeze protection, insulation, location, material, piping, safeties, Si Gauge, and supports)
- Check cooling towers (for items including but not limited to drainage, electrical, installation, location, RPZ, and treatment chemical)
- Check hydronics (for items including but not limited to installation, material, and steam and water piping)
- Check process piping (for items including but not limited to installation, material, supports, si gauge, and location)

- Check Hood Vent Ducts: Type I and Type II (for items including but not limited to access, clean outs, clearance, construction, enclosure, fire wrap, gauge, grade and rise, length, material, obstructions, shaft, size, supports, weather protection, welds, fire suppression, location, make up air, operation and interlock, grease extractors, grease cap, gas connections, appliances, seal, and penetrations)
- Check chimneys and Vents (for items including but not limited to constructions, installation, mechanical draft systems, termination, and types)
- Check installation of equipment (for items including but not limited to access, air supply, furnace and heaters, incinerators, location, outside air, prohibited, return, types, kilns, direct fire, vents, fire places, combustion air, gas piping, vented appliances, and warm air heaters)
- Check steam and hot water boilers (for items including but not limited to access, combustion air, install a reduce pressure (RPZ) backflow assembly, installation, safety devices, and venting)

- Check Access to equipment (for items including but not limited to cat walk, clearance, ladder, light, location, obstruction, protection disconnect, railing, receptacle, size, switch, and work platform)
- Check condensation (for items including but not limited to auxiliary, grade, location, pan, primary, secondary, support, and termination)
- Check exhaust vent (for items including but not limited to clearance, obstruction, seal, termination, screening, and back draft dampers)
- Check condensers (for items including but not limited to access, controls, disconnects, float switch, insulation, labeling, ladder, location, pan, piping, safeties, service outlets, and supports)
- Check ice machines (for items including but not limited to back flow protection, drains, location, material, and RPZ/cross connections)
- Check furnace unit (for items including but not limited to access, controls, lighting, safeties, seal, and service outlet)
- Check return air (for items including but not limited to location, penetrations, seal, size, screening, and outside air)
- Check combustion air (for items including but not limited to obstruction, source, and termination)
- Check dryer vent (for items including but not limited to connections, location, seal, and termination)
- Check ducts (for items including but not limited to angles, connections, back draft dampers, fire smoke dampers, insulation, mastic, openings, seal, smoke detection, and tapes)
- Check furnace vent (for items including but not limited to clearance, connections, grade and rise, supports, and termination)
- Check location of equipment (for items including but not limited to access, ladder, protection, railings, and ballards)
- Check fire detection protection (for items including but not limited to alarms, enunciators, angles, area detection, dampers, fire dampers, and framing SFD)
- Check Stove Hood Type I (for items including but not limited to access, clean outs, clearance, disconnect, enclosure, fire suppression, fire wrap, grease traps, interlock, make up air, material, operation, source, and termination)
- Check Stove Hood Type II (for items including but not limited to clearance, interlock, location, make up air, material, obstruction, and termination)
- Check Frozen Walk in Coolers (for items including but not limited to controls, cross connection protection, disconnects, drains, freeze protection, insulation, location, material, piping, safeties, signage, and supports)
- Check Cooling Towers (for items including but not limited to back flow protection, RPZ, drainage, electrical, installation, location, and treatment chemical)
- Check hydronics (for items including but not limited to installation, material, and steam piping)
- Check process piping (for items including but not limited to requirements, workmanship, and pressure test)
- Check Solar System (for items including but not limited to location, material, supports, piping, and controls)

1. This is **not a comprehensive check list** for any of the electrical inspections described above. It is provided solely to depict the general process flow. The contractor must ensure that all items meet the requirements of the Uniform Mechanical Code and the City of Austin Code Amendments. Local ordinances can be found at <http://www.ci.austin.tx.us/development/bpinfo1.htm>.
 2. For all inspections above, the address must be posted on site and the City Approved plans must be available to the inspector on site. The inspector must ensure that the work matches the plans at every inspection.