

# Residential Changeout Inspection Performance Log

Appliance and Equipment: \_\_\_\_\_

Power:            Gas: Natural \_\_\_ Propane \_\_\_

Elec: \_\_\_

Nameplate: \_\_\_\_\_

## **Inspection Item - Code Reference**

**Installation – M1200 & M1300**

**Access to Equipment – M1305**

**Clearance to combustibles – M1303**

**Venting-General and components – M1801**

**Venting-Connectors – M1803**

**Vent-Terminations – M1804**

**Air Duct Transition – M1601**

**Combustion Air – G24**

**Gas Piping Install – G24**

**Condensate disposal – M1411**

<b>Inspection Item:</b>	<b>Code Reference</b>	
<p><b>Access to Equipment:</b>  Identify type of mechanical appliance and if location is acceptable.</p> <p>Verify size access opening-Min 22" x 30" finished- Access opening large enough to remove largest piece of equipment</p> <p>Confirm passageway to appliance/equipment- Min 24" walkway from access opening to equipment; 20' max distance</p> <p>Verify platform location and size-verify working clearances- Min 30" wide work platform full length in front of equipment access; min. 30' head clearance</p> <p>Electrical requirements (lighting outlet and receptacle) Lamps protected</p>	<p>NCRC:  M1305  M1305.1.2  M1305.1.3  M1305.1.3.1  M1305.1.4  M1305.1.4.2  M1305.1.4.3  M1305.1.4.4  NEC210.63  NEC210.70(3)  G2406</p>	
<p><b>Installation:</b></p> <p>Recognizing alterations and existing installations</p> <p>Manufacturer's installation instructions available</p> <p>Nameplate information affixed:</p> <p>Identify appliance installation in approved location.</p> <p>Confirm no physical damage from install-pipes protected trough bored holes/framing members</p>	<p>NCRC  M1202.1  M1202.2  M1303.1  M1307.1  M1307.3  M1308.1  M1308.2  G2404</p>	

	G2405 G2406 G2408	
<p><b>Clearance to combustibles:</b> Verify affixed listing and labeling information</p> <p>Confirm working clearances side/total as required and by manufacturers installation instructions</p> <p>See clearance reductions if needed and per manufacturer's instructions.</p>	<p>NCRC:</p> <p>M1303.1</p> <p>M1306.1</p> <p>M1306.2</p> <p>G2409</p>	
<p><b>Venting-General and components:</b></p> <p>Verify vent type-compatibility and material.</p> <p>Confirm vents installed properly</p> <p>Check vent supports</p> <p>Check draft requirements</p> <p>Existing chimneys/vents sized properly and unobstructed</p> <p>Check airspace clearance to combustibles</p> <p>Confirm space around lining if within chimney</p> <p>Confirm no leakage of venting system</p> <p>Any unused openings capped</p> <p>Multiple vented appliances connected correctly</p>	<p>NCRC</p> <p>M1801.1</p> <p>M1801.2</p> <p>M1801.3</p> <p>M1801.3.4</p> <p>M1801.4-7</p> <p>M1801.10</p> <p>M1801.11</p>	

<p><b>Venting-Connectors</b></p> <p>Vent and chimney connectors installed per manufacturers installation instructions-not smaller than collar</p> <p>Check connector vent size and acceptable location (not through floors/ceilings) and accessible</p> <p>Affirm positive pitch of connectors</p> <p>Measure length of horizontal run</p> <p>Determine clearances to combustible material</p> <p><b>Check joints for fasteners and leaks</b></p> <p><b>Appliances connected to chimneys must comply with M1803.4</b></p>	<p>NCRC</p> <p>M1803.3</p> <p>M1803.3.1</p> <p>M1803.3.2</p> <p>M1803.3.3</p> <p>M1803.3.4</p> <p>M1803.3.5</p> <p>M1803.4</p> <p>G2422</p>	
<p><b>Vent-Terminations:</b></p> <p>Identify type of vent and listed-labeled</p> <p>Termination through roof flashed</p> <p>Termination height above appliance</p> <p>Natural draft type vent has been installed, check for a minimum of 5' height or more termination and collar</p> <p>If Type L vent has been installed, check for 2' above roof and 2' above any portion of building within 10'.</p> <p>Direct Vent Terminations as per manufacturer</p> <p>Horizontal Terminations-check NCRC</p> <p>Vertical Terminations-check NCRC</p> <p>Termination Cap listed and in place-no unlisted decorative caps</p>	<p>NCRC</p> <p>M1804.1</p> <p>M1804.2</p> <p>M1804.3</p> <p>M1804.2.5</p> <p>M1804.2.6</p> <p>M1804.2.6.1-2</p>	

<p><b>Air Duct Transition:</b>  Determine that the type of materials used are suitable for the location where they are installed. (above grade/below grade/garage, etc.)</p> <p>Examine joints for air tightness and fastening. Installation connections/seams taped UL181A...</p> <p>Examine duct supports for type and spacing.</p> <p>Confirm that insulation is according to code requirements.</p> <p>Flexible connectors no longer than 10"</p>	<p>NCRC</p> <p>M1601.1</p> <p>M1601.1.1</p> <p>M1601.2</p> <p>M1601.3</p> <p>M1601.4</p>	
<p><b>Combustion Air:</b>  Is combustion air provided. (closed attic)</p> <p>Determine if sufficient combustion air is provided-if additional combustion air is required, confirm installation of source.</p> <p>Conform combustion air duct installation (material, size, terminations, screening, obstructions, etc.) if needed</p>	<p>NCRC</p> <p>G2407.1</p> <p>G2405.5-11</p>	
<p><b>Gas Piping Install:</b>  Check shutoff valve location and installation for code compliance.</p> <p>Confirm that piping and tubing components are sized correctly</p> <p>Check system to be sure it is sized to meet the required demand of attached appliance</p> <p>Verify that all fittings and joining means and fitting-to pipe means are</p>	<p>NCRC</p> <p>G2411</p> <p>G2412</p> <p>G2413</p> <p>G2414</p> <p>G2415</p> <p>G1419</p> <p>G2420</p>	

<p>compatible and comply with the code and meet the manufacturer's recommendation</p> <p>Drip leg sediment trap is installed as part of gas utilization equipment or at the inlet of the equipment.</p> <p>Appliance shut off installed</p> <p>Connector installed and protected</p> <p>Verify that hangers and supports are of sufficient strength to support piping and are of compatible materials-spaced correctly.</p> <p>Gas labels in place and pipe sized according to demand</p> <p>Gas pipe protected-confirm that concealed tubing that penetrates a stud, joist or framing member has been protected from puncture</p> <p>Is gas piping bonded</p>	<p>G2421</p> <p>G2422</p> <p>G2424</p>	
<p><b>Condensate disposal:</b></p> <p>Primary drain conveyed to approved place of disposal</p> <p>Drainpipe slope min 1%</p> <p>Confirm auxiliary and second drain system installed</p> <p>Water leveling device on downflow installed</p> <p>Drainpipes are of approved material and min ¾"</p> <p>Condensate line trapped and configured for cleaning</p> <p>Equipment not subject to water damage with water resistant supports if used</p>	<p>NCRC</p> <p>M1411</p> <p>M1411.3.1</p> <p>M1411.3.1.1-5</p>	

