### General Earthquake Damage Inspection Checklist

Where description is indicated, attach additional pages of notes and photographs keyed to appropriate checklist item.

#### A. GENERAL INFORMATION

1. **Street Address of Property:**
   - City: __________________
   - State: __________________
   - Zip: __________________

2. **Property Owner's Name:** __________________

3. **Date of inspection:** __________________

4. **Inspector's Name:** __________________

#### B. BUILDING SITE INSPECTION

5. **Utility Service Safety:**
   - IMPORTANT—Immediately following an earthquake, check the entire property, especially near appliances, for the smell of gas. If gas odor is detected, turn the gas of at the meter where it enters the house. Locate and repair leaks before turning gas back on. If the gas odor persists after the gas has been shut off, vacate the building and contact the gas utility company immediately.
   - IMPORTANT—Before entering a damaged, vacant building verify that gas is off. Check the gas meter for damage and position of main gas valve, either a manual valve or a seismically-activated gas shut-off valve. Do not enter the building if gas odor is detected.
   - a. Odor of natural gas leakage? □ YES □ NO
   - b. Downed power lines? □ YES □ NO

6. **Surrounding topography:** (✓ check one)
   - □ Flat
   - □ Gently sloping (easily walkable)
   - □ Steeply sloping (difficult or impossible to walk in some areas)

7. **Building pad:** (✓ check one)
   - □ Flat
   - □ Terraced or multilevel
   - □ Gently sloping (less than 4 foot ground surface elevation difference across house)
   - □ Steeply sloping (greater than 4 foot ground surface elevation difference across house)

8. **Geotechnical Issues:** (if yes, provide description and photos)
   - YES □ NO □
   - a. New cracks in the ground?
   - b. Signs of fresh cracking in or movement of hardscape?
   - c. Signs of fresh cracking in or movement of retaining walls?
   - d. Patterns of cracking that extend through the ground surface, hardscape, and improvements?
   - e. Evidence of sand boils or other fresh-appearing deposits of sand or mud?
   - f. Unusual slumping, rising, or bulging of the ground surface?
   - g. Evidence of rock falls or slope instability above site?
   - h. Ground movement or wet areas indicating possible broken underground utility lines?
   - i. Other phenomena (e.g., septic tanks surfacing, differential settlement, ground consolidation)?
## General Earthquake Damage Inspection Checklist

Where description is indicated, attach additional pages of notes and photographs keyed to appropriate checklist item.

### B. BUILDING SITE INSPECTION (continued)

9. Evidence of earthquake-induced permanent ground deformation in the immediate vicinity of the property?
   - [ ] YES
   - [ ] NO

### C. GENERAL BUILDING INFORMATION

10. Safety Assessment Tag: (✓ check one)  
    - [ ] None
    - [ ] Green
    - [ ] Yellow
    - [ ] Red

   (chimney only):  
    - [ ] Yellow
    - [ ] Red

11. a) Year of original construction (best estimate): ____________
    b) Total square footage (best estimate): ____________

12. Have any repairs, modifications, or demolition been performed since the earthquake?  
    - [ ] YES
    - [ ] NO
    If yes, describe ________________

13. Building configuration:  
    - [ ] a. Single story
    - [ ] b. Combination one and two story
    - [ ] c. Full two story
    - [ ] d. Three story
    - [ ] e. Split level
    - [ ] f. Living space above garage
    - [ ] g. Other, describe ________________

14. Exterior wall finish:  
    - [ ] a. Stucco
    - [ ] b. Panel siding
    - [ ] c. Lap siding
    - [ ] d. Masonry veneer
    - [ ] e. Other, describe ________________

15. Foundation configuration:  
    - [ ] a. Slab-on-grade
    - [ ] b. Crawlspace without cripple walls
    - [ ] c. Crawlspace with cripple walls
    - [ ] d. Exposed piers or posts
    - [ ] e. Partial basement
    - [ ] f. Full basement
    - [ ] g. Other, describe ________________

16. Sill bolting:  
    - [ ] a. Structure bolted to foundation
    - [ ] b. Structure not bolted to foundation
    - [ ] c. Don’t know

17. Roof configuration:  
    - [ ] a. Gable
    - [ ] b. Hip
    - [ ] c. Flat or very low slope
    - [ ] d. Shed
    - [ ] a. Other, describe ________________

18. Roof covering:  
    - [ ] a. Asphalt shingles
    - [ ] b. Wood shingle or shake
    - [ ] c. Concrete or clay tile
    - [ ] d. Metal shingles
    - [ ] e. Membrane
    - [ ] f. Other, describe ________________
### General Earthquake Damage Inspection Checklist

Where description is indicated, attach additional pages of notes and photographs keyed to appropriate checklist item.

#### D. EXTERIOR BUILDING INSPECTION

<table>
<thead>
<tr>
<th></th>
<th>YES</th>
<th>NO</th>
<th>N/A</th>
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<tbody>
<tr>
<td>19. General: (if yes, provide description and photos)</td>
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<tr>
<td>a. Collapse, partial collapse, or building off foundation?</td>
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<td>b. Obvious lean in any story?</td>
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<td>20. Exterior walls: (if yes, provide description and photos)</td>
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<tr>
<td>a. Fresh cracking at corners of door and window openings?</td>
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<td>b. Fresh cracking at building corners?</td>
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<td>c. Door or window openings racked out of square?</td>
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<td>d. Broken glass in windows or doors?</td>
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<td>e. Wall leaning?</td>
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<tr>
<td>f. Bulging or delamination of stucco?</td>
<td></td>
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<tr>
<td>g. Pattern of cracking that extends from the ground surface, through foundation, and wall?</td>
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<tr>
<td>h. Evidence of recent relative movement at mudsill line?</td>
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<tr>
<td>i. At locations where the exterior stucco is continuous from the framing down over the foundation, is there cracking of stucco along the mudsill level accompanied by indications of permanent displacement (sliding) of the building relative to the foundation?</td>
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<tr>
<td>j. Collapse, partial collapse, or separation of masonry veneer?</td>
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<td>k. Severe cracking, separations, or offsets at building irregularities?</td>
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<tr>
<td>21. Foundation: (if yes, provide description and photos)</td>
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<tr>
<td>a. Fresh cracking of exposed perimeter foundation?</td>
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<td>b. Relative movement between slab and footing in “two-pour” slab-on-grade foundations?</td>
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<td></td>
<td>Exterior Building Inspection (continued)</td>
<td>YES</td>
<td>NO</td>
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<td>22.</td>
<td>Fireplace &amp; Chimney: (if yes, provide description and photos)</td>
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<tr>
<td></td>
<td>a. Present on external wall?</td>
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<td>b. Present at internal location?</td>
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<td></td>
<td>c. Collapse or partial collapse?</td>
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<td>d. Visible damage or cracking?</td>
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<td></td>
<td>e. Visible tilting or separation from building?</td>
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<td></td>
<td>f. Shifted or loose clay flue tile segments and displaced joint mortar?</td>
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<td></td>
<td>g. Deterioration of exposed mortar?</td>
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<td></td>
<td>h. Does the top of the chimney rock when pushed?</td>
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<td>23.</td>
<td>Roof: (if yes, provide description and photos)</td>
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<tr>
<td></td>
<td>a. Shifted or dislodged clay or concrete roof tile?</td>
<td></td>
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<td></td>
<td>b. Impact damage to roof from falling chimneys?</td>
<td></td>
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<td></td>
<td>c. Displaced rooftop HVAC units?</td>
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<td></td>
<td>d. Significantly sagging roof ridgelines?</td>
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<td></td>
<td>e. Signs of movement between rafter tails and wall finishes at eaves?</td>
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<td></td>
<td>f. Buckled/dislodged flashing or tearing of roof membrane at chimneys, roof/wall intersections in split level buildings, additions, appendages, porches, or other building irregularities?</td>
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<td></td>
<td>g. Tearing of roof membrane or deck waterproofing at re-entrant corners?</td>
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<td></td>
<td>h. Toppling, shifting, or damage/leakage at refrigerant and electrical lines of rooftop mechanical equipment?</td>
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<tr>
<td></td>
<td>i. Shifting of or damage to solar panels?</td>
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</tbody>
</table>
General Earthquake Damage Inspection Checklist

Where description is indicated, attach additional pages of notes and photographs keyed to appropriate checklist item.

D. EXTERIOR BUILDING INSPECTION (continued)

24. Attached or abutting improvements: (if yes, provide description and photos)
   YES  NO  N/A
   a. Collapse, partial collapse, or separation of attached porches, carports, patio covers, or awnings?
   b. Evidence of recent settlement or displacement of exterior steps, patios, or walkways relative to the building?
   c. Signs of movement between building floor or garage floor and exterior hardscape or retaining wall along the uphill side of homes on steeply sloping sites?
   d. Toppling, shifting, or damage/leakage at refrigerant and electrical lines of air conditioning condenser unit(s)?

25. Independent exterior improvements: (if yes, provide description and photos)
   a. Damaged detached garage?
   b. Damage to fences/privacy walls?
   c. Damage to retaining walls?
   d. Damage to pool & pool deck?
   e. Evidence of leakage from irrigation supply lines?
   f. Toppling, shifting, or damage/leakage at fuel connection of propane tanks?
   g. Broken piping or shifting of pool or spa equipment?

E. INTERIOR INSPECTION (including basement and attached garage, if present)

26. General information
   a. If interior access not possible, identify reason
      i. Red tag
      ii. Hazardous materials
      iii. Other hazardous condition, describe
   b. Typical wall and ceiling finish
      i. Drywall
      ii. Plaster on gypsum lath
      iii. Plaster on wood lath
      iv. Other, describe
   v. Other, describe

Form CUREE EDA-F2
Page 5 of 8
continue on next page
## E. INTERIOR INSPECTION (continued)

27. **Walls**: (if yes, provide description and photos)
   - a. Fresh cracking, buckling, spalling, or detachment of interior wall finish at corners of door and window openings? □ □ □
   - b. Fresh cracking of wall finishes at wall corners or wall/ceiling intersections? □ □ □
   - c. Door or window openings racked out of square? □ □ □
   - d. Wall leaning? □ □ □
   - e. Pattern of cracking that extends from the floor slab through the wall? □ □ □
   - f. Movement or sliding of walls relative to the floor? □ □ □
   - g. Severe cracking, separations, or offsets at building irregularities? □ □ □
   - h. Doors damaged, difficult to operate, or inoperable? □ □ □
   - i. Windows damaged, difficult to operate, or inoperable? □ □ □

28. **Ceilings**: (if yes, provide description and photos)
   - a. Collapse of ceiling finish? □ □ □
   - b. Fresh cracking of ceiling finishes, especially at re-entrant corners; cracks along corner bead at stairwell openings; cracking or tearing of finishes at ceiling/wall juncture; or multiple "nail pops"? □ □ □
   - c. Damage to ceiling finishes in vicinity of chimneys or fireplaces? □ □ □
   - d. Separations or cracks in ceiling finishes at split-levels, re-entrant corners, additions, appendages, or other building discontinuities? □ □ □
   - e. Water damage or evidence of recent leakage from plumbing lines or roofing? □ □ □
### General Earthquake Damage Inspection Checklist

Where description is indicated, attach additional pages of notes and photographs keyed to appropriate checklist item.

#### E. INTERIOR INSPECTION (continued)

29. **Floors:** (if yes, provide description and photos)
   - a. Evidence of recent sloping, sagging, settlement or displacement of floors?  
     - YES  NO  N/A
   - b. In slab-on-grade locations, fresh cracking of floor slab or floor finishes?  
     - YES  NO  N/A
   - c. Significant sagging or unusual bouniness of woodframed floors over crawlspace?  
     - YES  NO  N/A
   - d. Separations or cracks in floor finishes at split-levels, re-entrant corners, additions, appendages, or other building discontinuities?  
     - YES  NO  N/A
   - e. Signs of movement between floor (including garage floor) and exterior hardscape or retaining wall along the uphill side of homes on steeply sloping sites?  
     - YES  NO  N/A
   - f. A pattern of fresh cracks, gaps, or joint separations in floor finishes?  
     - YES  NO  N/A
   - g. Impact damage to floor finishes from falling contents?  
     - YES  NO  N/A

30. **Fireplace:** (if yes, provide description and photos)
   - a. Collapse, partial collapse, or separation of interior fireplace facing from, or movement relative to, the adjacent wall or firebox?  
     - YES  NO  N/A
   - b. Differential movement between fireplace insert and firebox?  
     - YES  NO  N/A

31. **Mechanical systems:** (if yes, provide description and photos)
   - a. Displaced connection of appliance flues connected to chimneys?  
     - YES  NO  N/A
   - b. Toppling, shifting, leakage from tank, leakage from water connections displaced flue connection or damage/leakage at gas line or electrical connection of water heater?  
     - YES  NO  N/A
   - c. Shifting, damage/leakage at gas line, flue connection, electrical connection, refrigerant line, and condensate drain connection of furnace or air conditioning fan-coil unit?  
     - YES  NO  N/A
   - d. Damage to gas line of gas stoves or gas fueled clothes dryers?  
     - YES  NO  N/A
   - e. Damage to toilets?  
     - YES  NO  N/A
   - f. Decreased or restricted water pressure at appliances, faucets, or toilets?  
     - YES  NO  N/A
   - g. Toppling or shifting of free-standing wood stove and/or flue?  
     - YES  NO  N/A
   - h. Toppling, shifting, damage/leakage at fuel connection of fuel oil tank?  
     - YES  NO  N/A
## General Earthquake Damage Inspection Checklist

Where description is indicated, attach additional pages of notes and photographs keyed to appropriate checklist item.

### E. INTERIOR INSPECTION (continued)

32. Architectural woodwork and special finishes: (if yes, provide description and photos)  
   a. Shifting of or damage to kitchen or bathroom cabinetry?  
   b. Impact damage to countertops from falling objects?  
   c. Cracking of ceramic tile in showers or tub/shower enclosures consistent with earthquake damage to adjacent wall finishes?

<table>
<thead>
<tr>
<th></th>
<th>YES</th>
<th>NO</th>
<th>N/A</th>
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<tbody>
<tr>
<td>a.</td>
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<td>b.</td>
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<td>c.</td>
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### F. CONTINGENT INSPECTIONS

33. Crawlspace: (if yes, attach CUREE Form EDA-F3)

<table>
<thead>
<tr>
<th></th>
<th>YES</th>
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34. Attic: (if yes, attach CUREE Form EDA-F4)

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<thead>
<tr>
<th></th>
<th>YES</th>
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<th>N/A</th>
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1D Crawlspace Inspection Checklist

Note: In the absence of conspicuous visible external damage, earthquake-induced damage in crawlspaces is unlikely. In addition, there are hazards associated with entry into crawlspaces, especially those with tight access. Accordingly, in the absence of external visible damage, entering crawlspaces for post-earthquake inspection is not recommended. If a crawlspace inspection is conducted, it should be performed by an individual qualified by training and experience. Damage and abnormal conditions should be documented with photographs. Where description is called for on the following checklist, attach additional pages of notes and photographs keyed to appropriate checklist item (e.g., 8d).

Due to safety concerns associated with entry into a confined space, inspection of these areas may require the presence of a second individual. Inspectors should be equipped with appropriate personal protective equipment and be knowledgeable of appropriate safety precautions. Safety precautions for crawlspace inspections are provided in Appendix 1F.

Reduced scale images of the three-page CUREE Form EDA-F3 follow.
# Crawlspace Inspection Checklist

Where description is indicated, attach additional pages of notes and photographs keyed to appropriate checklist item.

## A. GENERAL INFORMATION

1. Property address: 
   City: ___________________ State: __________ Zip: _______________

2. Property Owner's Name: 

3. Date of inspection: 

4. Inspector's Name: 

## B. OBSERVATIONS

5. Extent of crawlspace (check one)
   - [ ] Full
   - [ ] Partial
   - [ ] Partitioned
   - [ ] Portions inaccessible
   - [ ] Other, describe

   \[ Note: A partitioned crawlspace has two or more areas that are not interconnected and must be accessed from multiple entry locations. \]

6. Access location(s): 

7. Framing between foundation and floor framing
   - [ ] None (mud sill directly on concrete stem walls)
   - [ ] Perimeter stem wall with interior wood posts
   - [ ] Interior cripple walls
   - [ ] Partial perimeter cripple walls
   - [ ] Full perimeter cripple walls
   - [ ] Steel pipe columns and diagonal steel rod bracing
     - Retrofit: [ ] Yes [ ] No [ ] Can't tell
     - If yes, [ ] Plywood [ ] Anchor bolts, straps, or plates
     - [ ] Other, describe

8. Stem walls
   - [ ] None
   - [ ] Perimeter
   - [ ] Interior
     - [ ] Concrete
     - [ ] Concrete Block
     - [ ] Brick
     - [ ] Other, describe
### Crawlspace Inspection Checklist

Where description is indicated, attach additional pages of notes and photographs keyed to appropriate checklist item.

#### B. OBSERVATIONS (continued)

9. Framing: (if yes, provide description and photos)
   - General pattern of tilting of posts, cripple walls
   - Isolated tilting of posts, cripple walls
   - Missing or loose posts
   - Split sill plate
   - Fractured, buckled, or loose diagonal braces
   - Shifting or sliding of framing relative to foundation
   - Prior shimming or releveling
   - Other abnormal conditions, describe

10. Foundation: (if yes, provide description and photos)
   - Visible cracks in stem walls, approximate number
   - Cracks in stem walls greater than 1/8 inch wide, approximate number, locations
   - Nature and extent of prior repair, if any
   - Indications of previous flooding or water intrusion
   - Condition of masonry beneath fireplaces
   - Other abnormal conditions, describe

11. Plumbing: (if yes, provide description and photos)
   - Evidence of active leakage
   - Broken pipe or joint separations in sewer piping

12. Forced air heating/cooling ductwork: (if yes, provide description and photos)
   - Crushed
   - Separated joints
   - Presence of asbestos insulation or joint taping
   - Damaged asbestos insulation or joint taping
   - Other abnormal conditions, describe

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Form CUREE EDA-F3  
Page 2 of 3  
continue on next page
C. CONCLUSIONS

13. □ No evidence of earthquake-induced damage observed in crawlspace.

14. □ Observed nonstructural or structurally insignificant conditions that may be earthquake induced and require repair, specify.

15. Observed indications of potentially structurally significant earthquake damage that requires an Inspection by a technical consultant, (√ check all that apply):
   □ Broken water, sewer, or gas line or wet areas indicating possible broken water or sewer lines.
   □ A pattern of cracks extending through the soil and foundation indicative of earthquake-induced permanent ground deformation
   □ Signs of fresh cracks in concrete foundations wider than 1/8 inch or offset by more than 1/16 inch out-of-plane
     (the thickness of a nickel)
   □ Fresh-appearing crack in footings or foundation stem walls wider than 1/8 inch or offset by more than 1/16 inch out-of-plane
     (the thickness of a nickel).
   □ Extensive or large cracks (with signs of recent movement) in the foundation far in excess of what would be expected
     from normal shrinkage and settlement.
   □ Fresh-appearing spalling in footings or foundation stem walls.
   □ Racking of cripple walls, delamination of stucco
   □ Shifting or tilting of support posts
   □ Shifting of woodframing or mudding relative to foundation; cracking of the mudsill
   □ Damage to under floor portions of masonry fireplaces

16. □ Observed indications of conditions unrelated to earthquake that require further investigation, specify.
1E Attic Inspection Checklist

Note: In the absence of conspicuous visible external damage, earthquake-induced damage in attics is unlikely. In addition, there are hazards associated with entry into attics, especially those with tight access. Accordingly, in the absence of external visible damage, entering attics for post-earthquake inspection is not recommended. If an attic inspection is conducted, it should be performed by an individual qualified by training and experience. Where description is called for on the following checklist, attach additional pages of notes and photographs keyed to appropriate checklist item (e.g., 8d).

Due to safety concerns associated with entry into a confined space, inspection of these areas may require the presence of a second individual. Inspectors should be equipped with appropriate personal protective equipment and be knowledgeable of appropriate safety precautions. Safety precautions for attic inspections are provided in Appendix 1F.

Reduced scale images of the two-page CUREE Form EDA-F4 follow.
Attic Inspection Checklist

Where description is indicated, attach additional pages of notes and photographs keyed to appropriate checklist item.

A. GENERAL CONDITIONS

1. Property address: 
   City: ___________________ State: ___________________ Zip: ___________________

2. Property Owner’s Name: ___________________

3. Date of inspection: ___________________

4. Inspector’s Name: ___________________

B. OBSERVATIONS

5. Extent of attic (✓ check one)
   □ Full
   □ Partial
   □ Partitioned ¹
   □ Portions inaccessible
   □ Other, describe ___________________

¹ A partitioned attic has two or more areas that are not interconnected and must be accessed from multiple entry locations.

6. Access location(s)
   ___________________

7. Attic framing
   □ Conventional field framed
   □ Metal plate connected trusses
   □ Other, describe ___________________

8. Roof sheathing
   □ Spaced board sheathing
   □ Board sheathing
   □ Plywood or oriented strand board (OSB) sheathing
   □ Plywood or OSB sheathing over spaced sheathing

9. Framing: (if yes, provide description and photos)  
   □ YES □ NO □ N/A
   • Damage to top and bottom connections of diagonal braces between ridge board and ceiling framing or failure of braces
   • Separation of framing at ridge board
   • Fresh fractures in framing members
   □ □ □
## Attic Inspection Checklist

Where description is indicated, attach additional pages of notes and photographs keyed to appropriate checklist item.

### B. OBSERVATIONS (continued)

<table>
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<tr>
<th>Item</th>
<th>YES</th>
<th>NO</th>
<th>N/A</th>
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<tbody>
<tr>
<td>10. Chimney(s): (if yes, provide description and photos)</td>
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<tr>
<td>• Masonry</td>
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<tr>
<td>• Visible cracks or offsets</td>
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<tr>
<td>• Damage to framing adjacent to chimney</td>
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<tr>
<td>• Damage to framing where metal tie straps from masonry to framing</td>
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<tr>
<td>• Metal Flue</td>
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<tr>
<td>• Open or offset joints</td>
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<tr>
<td>11. Plumbing: (if yes, provide description and photos)</td>
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<tr>
<td>• Broken pipe or joint separations in sewer vent piping</td>
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<tr>
<td>12. Forced air heating / cooling ductwork: (if yes, provide description and photos)</td>
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<tr>
<td>• Crushed ductwork</td>
<td></td>
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<tr>
<td>• Separated joints in ductwork or appliance flues</td>
<td></td>
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<tr>
<td>• Presence of asbestos insulation or joint taping on ductwork or appliance flues</td>
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<tr>
<td>• Damage to asbestos insulation or joint taping on ductwork or appliance flues</td>
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<tr>
<td>• Shifted or disconnected furnaces or fan coil units</td>
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<tr>
<td>• Other abnormal conditions</td>
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</tbody>
</table>

### C. CONCLUSIONS

13. Conclusions: (✓ check all that apply)

- [ ] No evidence of earthquake-induced damage observed in attic.
- [ ] Observed nonstructural or structurally insignificant conditions that may be earthquake induced and require repair, specify:
- [ ] Observed indications of potentially structurally significant earthquake damage that requires an inspection by a technical consultant:
  - [ ] Impact damage to roof framing from fallen chimney
  - [ ] Framing damage adjacent to the chimney
  - [ ] Buckling or fracture of diagonal braces supporting the ridge board or damage to end connections
  - [ ] Separation between roof framing and an adjacent wall
  - [ ] Fresh separations of framed connections
  - [ ] Observed indications of conditions unrelated to earthquake that require further investigation, specify.
Attic and Crawlspace Inspection Safety

- Never enter an attic or crawlspace without informing another individual of your entry and the approximate time you intend to be in the attic or crawlspace.

- Always use appropriate personal protective equipment. Gloves, tight-fitting disposable facemask, and coveralls are the minimum. Kneepads and elbow pads are desirable accessories for crawlspace inspections.

- Be aware of potential biological hazards including human or animal waste, pesticides, rodents, reptiles, or insects.

- Beware of and avoid electrical wiring that is loose or exposed.

- Beware of and avoid exposed nails.

- Do not enter crawlspaces, or portions thereof, contaminated with sewage.

- Safe maneuvering in attic spaces requires both hands to be unencumbered. Use a headlamp for lighting. Carry a compact camera on a neck strap or secured in a pocket.

- When moving in an attic, always maintain three points of contact (both feet and one hand or one foot and two hands). Verify that there is solid support before stepping. Step only on 2x or heavier framing — avoid stepping on 1x ties and braces. Never step on insulation or gypsum wallboard.