WVGES - GEOLOGIC HAZARDS CHECKLIST

A. FLOODING

- 1. Is the house or site on the floodplain?
- 2. Does the house or site flood often?
- 3. Is the house or site above the 100-year flood elevation?
- 4. Is the floodplain protected by a dike, levee, or floodwall?
- 5. Is flood insurance needed?

B. LANDSLIDES

- 1. Is the house or site on a hillside slope of 10% or greater?
- 2. Is the slope rough, hummocky, cracked, or slipped?
- 3. Are there bent trees or leaning posts and utility poles on the slope? \setminus
- 4. Does the rough, hummocky slope have seeps, springs, or sag ponds?
- 5. Are normally straight walls, fences, curbs, and walks across slopes bent or offset downhill?
- 6. Are there open cracks or steep scarps (breaks) across the slope?
- 7. Do outside stone, brick, or block walls have open or patched "step cracks" along mortar joints?
- 8. Do inside basement walls have open or patched cracks with bent or broken walls?
- 9. Are inside uphill walls supported with buttresses?
- 10. Are retaining walls cracked, tilted, leaning, or offset?
- 11. Are support pillars or posts tilted or leaning?
- 12. Do concrete or plastered walls have open or patched diagonal jagged cracks?
- 13. Have outside concrete steps moved downhill away from house?

C. SUBSIDENCE

GENERAL

- 1. Does or will the house rest entirely on unyielding bedrock, undisturbed natural soil, or compacted, settled fill?
- 2. Has the house or site subsided or settled (vertical drops)?
- 3. Has the house tilted or is it leaning?
- 4. Are window and door frames square and plumb?
- 5. Are windows and doors stuck?
- 6. Do pavements, floors, or foundation walls have vertical off-set cracks?

Underground Mines

- 1. Is the house or site over deep mines?
- 2. Is depth-to-mine less than 300 feet?
- 3. Is the house or site over minable coal?
- 4. If the house or site is over minable coal, will that coal be mined in the near future?
- 5. Is mine subsidence insurance needed?

Karst

- 1. Is the house or site on limestone with caves and sinks?
- 2. Is depth-of-cave less than 300 feet?
- 3. Does the land surface have shallow depressions, recent open cracks, or enlarging sink holes?

Fills

- 1. Is the house or site on fill?
- 2. Was the fill placed on a swamp, floodplain, hillside, gully, hollow, waste dump?
- 3. Was the fill site prepared and the fill compacted according to standard specifications for highway and airport embankments?
- 4. Does the fill surface have shallow depressions, open cracks, deep gullies, or other signs of horizontal and/or vertical movement?
- 5. Do adjacent houses on fill have signs of subsidence damage?

D.GROUND WATER

Water Supply

- 1. Is public water supply available?
- 2. If not public supply, private well, spring, cistern, other?
- 3. Is yield adequate in dry seasons?
- 4. Are recent State Health Department water test records available?
- 5. Is fire protection water available? From: hydrant, well, pond, stream?

Sewage and Septic Waste Disposal

- 1. Are public sewers and treatment facilities available?
- 2. If not public sewer, private septic tank, lagoon, home treatment plant, other?
- 3. Do you know location of the system and effluent outlet?
- 4. Are there offensive odors?
- 5. Are recent sanitation inspection reports available?
- 6. Are recent septic system maintenance records available?

Foundation and Basement

- 1. Are basement walls wet, damp, or have peeling paint near the floor?
- 2. Is basement floor cracked, heaved, or wet?
- 3. Is there a sump pump?
- 4. Is there a dehumidifier?
- 5. Are bases of steps and posts rusted or rotted?
- 6. Are outside patios and pavements heaved and cracked?
- 7. Are gutter drain outlets separate from foundation drains?
- 8. Is surface run-off diverted away from the house?