

# Post-Mitigation System Checklist (effective 12/1/2023)



Mitigation Address: \_\_\_\_\_ Date Completed: \_\_\_\_\_

Type of system installed (circle one):      SSD    SMD    DTD    BWD    PRS    RRNC    OTH

Name of Radon Professional: \_\_\_\_\_ MDH License #: \_\_\_\_\_

Completion of this form by the licensed mitigation professional prior to attaching the radon system tag is required by MN Rule 4620.7600 Subp. 2 and shall be kept on file for a minimum of three years.

*For each question, answer Yes, No, N/A (not applicable), or N/D (not determined)*

## General Requirements

- Were all local & state codes followed, required licenses or permits obtained? \_\_\_\_\_
- If fire rated walls, floors, ceilings, or roofs were modified, are they still protected? \_\_\_\_\_
- Were any structural members of the building cut or notched? \_\_\_\_\_  
    If yes, building permit #: \_\_\_\_\_
- Are flue gas spillage or back drafting conditions observed? \_\_\_\_\_

## Sump Pit Requirements

Check if N/A \_\_\_\_\_

- Is the sump lid rigid/sturdy/durable/mechanically fastened, and sealed with silicone caulk or gasket? \_\_\_\_\_
- Is accessibility given to sump pump(s) by a 4" access hole and radon pipe disconnect near the lid? \_\_\_\_\_
- Is a check valve, sump cover floor drain, or condensation drain trap installed if needed? \_\_\_\_\_
- Are sump pump(s) reconnected to a power source and operate properly? \_\_\_\_\_

## Radon Vent Pipe Requirements

Size of duct piping used: \_\_\_\_\_ inch

- Is all duct piping & fittings made from schedule 40 PVC or ABS, or approved alternative? \_\_\_\_\_
- Is all system piping glued and sealed in an air and watertight fashion, and sloped to provide drainage? \_\_\_\_\_
- Is all system piping securely fastened as required? (Every 10' vertically, every 4' horizontally) \_\_\_\_\_
- Are any positively pressurized components in or under the conditioned space of the building? \_\_\_\_\_
- Does the duct piping allow access to all required areas and not block doors, windows, or other openings? \_\_\_\_\_
- Does the system block access to electrical, HVAC, or other equipment requiring maintenance? \_\_\_\_\_
- Does the system compromise roofing, siding, gutters, groundwater control, or drainage systems? \_\_\_\_\_
- Are duct piping runs in unconditioned areas insulated? \_\_\_\_\_

## Vent Pipe Discharge Requirements

- Is it outside the structure and at least 10 feet above grade? \_\_\_\_\_
- Through the roof - Is it at least 1 foot above the penetration of the roof? \_\_\_\_\_
- Next to the roof- is it at least 6" above the edge of the roof? \_\_\_\_\_
- Is it at least 7' away horizontally from a vertical wall extending above a roof (4' if 45° elbow pointed away)? \_\_\_\_\_
- Is it 10' away from operable windows, doors, and other openings in the structure? \_\_\_\_\_  
    If no, is it a minimum of 4' above these openings? \_\_\_\_\_
- Is it at least 10' above or away from the surface of decks, patios, and sidewalks? \_\_\_\_\_
- Is the directional spread clear of openings, bldg. materials, or breathing space within 10'? \_\_\_\_\_
- Is the straight-line exhaust clear of openings, attic vents, bldg. materials, or breathing space within 20'? \_\_\_\_\_
- Rain cap (diffused discharge) at least 15' above grade and 4' above/15' away from openings? \_\_\_\_\_
- Horizontal discharge: is it 20' above grade and meet directional spread requirements? \_\_\_\_\_

## Radon Fan Installation

Mfg/Model \_\_\_\_\_ Setting (if applicable) \_\_\_\_\_

- Is it located outside the conditioned space and away from flammable gasses e.g., gas meters and tanks? \_\_\_\_\_
- Is the fan mounted to a vertical pipe section with approved flexible couplings? \_\_\_\_\_

POST-MITIGATION CHECKLIST (EFFECTIVE 12/1/2023)

**Crawlspace and Soil Gas Retarder Requirements**

Check if N/A \_\_\_\_\_

- Thickness of soil gas retarder \_\_\_\_\_ Does material meet durability and min. 6 mil. thickness? \_\_\_\_\_
- Is the suction pipe extended under the membrane and allow for PFE under the entire membrane? \_\_\_\_\_
- Is the membrane secured to walls, columns, or other foundational supports in a durable manner? \_\_\_\_\_
- Are all seams, penetrations through and repairs made to the membrane durably sealed? \_\_\_\_\_

**Electrical Requirements**

- Is electrical work necessary to power the radon system? \_\_\_\_\_ If yes, contracted by radon company? \_\_\_\_\_  
Electrical work performed by: \_\_\_\_\_
- Is disconnect provided in line of sight of the fan, within 6’ of the fan? \_\_\_\_\_
- For exterior mounted fans, is the connection hardwired? (Exterior plugged-in connections not allowed) \_\_\_\_\_

**Sealing Requirements** (sealant must be compatible with materials being sealed)

- Are all suction points, utility penetrations and slab/foundation wall joints sealed with durable materials? \_\_\_\_\_
- Are all large openings in floors sealed with durable materials? \_\_\_\_\_

**Monitors, Labeling, and Retesting**

- MDH System Tag Attached (Location) \_\_\_\_\_ Tag ID# \_\_\_\_\_
- Initial manometer reading: \_\_\_\_\_ Is initial manometer pressure reading clearly marked? \_\_\_\_\_
- Is there an active notification monitor? \_\_\_\_\_ Is the monitor activated? \_\_\_\_\_
- Are all radon system components labeled: pipes, valves, membranes, fans, disconnects, sump covers? \_\_\_\_\_
- Is the OM&M plan attached to the radon system with all required elements? \_\_\_\_\_
- Post-mitigation test to be performed by: \_\_\_\_\_
- Minimum requirements met to ensure post-mitigation testing is performed? \_\_\_\_\_

**Post-Mitigation Diagnostic Test Hole**

- Diagnostic test hole pressure reading (note + or – and circle units): \_\_\_\_\_ Pa / “WC
- Closed building conditions met during testing: \_\_\_\_\_  
All exterior windows and doors (incl. garage doors) closed, \_\_\_\_\_  
Temp set between 65°-80° F \_\_\_\_\_
- Status of HVAC operating conditions: \_\_\_\_\_  
Type of HVAC: \_\_\_\_\_ Fan (circle one): on / off \_\_\_\_\_  
Exterior temperature: \_\_\_\_\_ °F

If diagnostic testing was not done, explain the reason why and alternative methods used to verify design effectiveness:  
\_\_\_\_\_  
\_\_\_\_\_

**Floor Plan Diagram/System Sketch** (attach to checklist)

Upon completion of system installation, update pre-mitigation diagram to include:

- Identification of area targeted for mitigation,
- All system piping, fan location, and suction point location(s), include suction pit size and conditions if SSD,
- Any valve locations and settings if present,
- Locations of any sizable, unclosed openings between soil and indoor air that could not be closed, and
- Diagnostic test hole location.