

GG266-14

202 (New), Table 302.1, 809 (New)

Proponent: David Kapturowski, representing American Association of Radon Scientists and Technologists (dave@spruce.com)

Revise as follows:

**TABLE 302.1
REQUIREMENTS DETERMINED BY THE JURISDICTION**

Section	Section Title or Description and Directives	Jurisdictional Requirements	
CHAPTER 8. INDOOR ENVIRONMENTAL QUALITY AND COMFORT			
804.2	Post-Construction Pre-Occupancy Baseline IAQ Testing	Yes	No
807.1	Sound transmission and sound levels	Yes	No
<u>809.1</u>	<u>Radon for one and two family dwellings (Section 101.3.1.1)</u>	Yes	<u>No</u>

(Portions of table not shown remain unchanged.)

Add new text as follows:

SECTION 809 **RADON**

809.1 General. Where this section is indicated to be applicable in Table 302.1, *radon* control methods shall be applied to one & two family dwellings not more than three stories in height that are located within geographic areas shown to have a potential for radon gas in the soil. *Rough-ins* or complete *active soil depressurization* systems shall be installed to reduce soil gas entry and vapor intrusion so as to establish indoor *radon* levels below the *National Radon Action Level*.

809.2 Mitigation system required. A *rough-in* or complete *active soil depressurization* system shall be installed in accordance with AARST/ANSI CCAH-2013 in dwellings that are located in *radon* potential zones 1 and 2 in accordance with Section 809.3.

809.3EPA established zones. The radon potential of a building site shall be estimated from the United States Environmental Protection Agency radon potential map as shown in Figure 809.1 or from United States Environmental Protection Agency radon potential by county listing as shown in Table 809.1. Where state or local jurisdictions have published radon potential data, such data shall supersede the information in Figure 809.1 and Table 809.1.

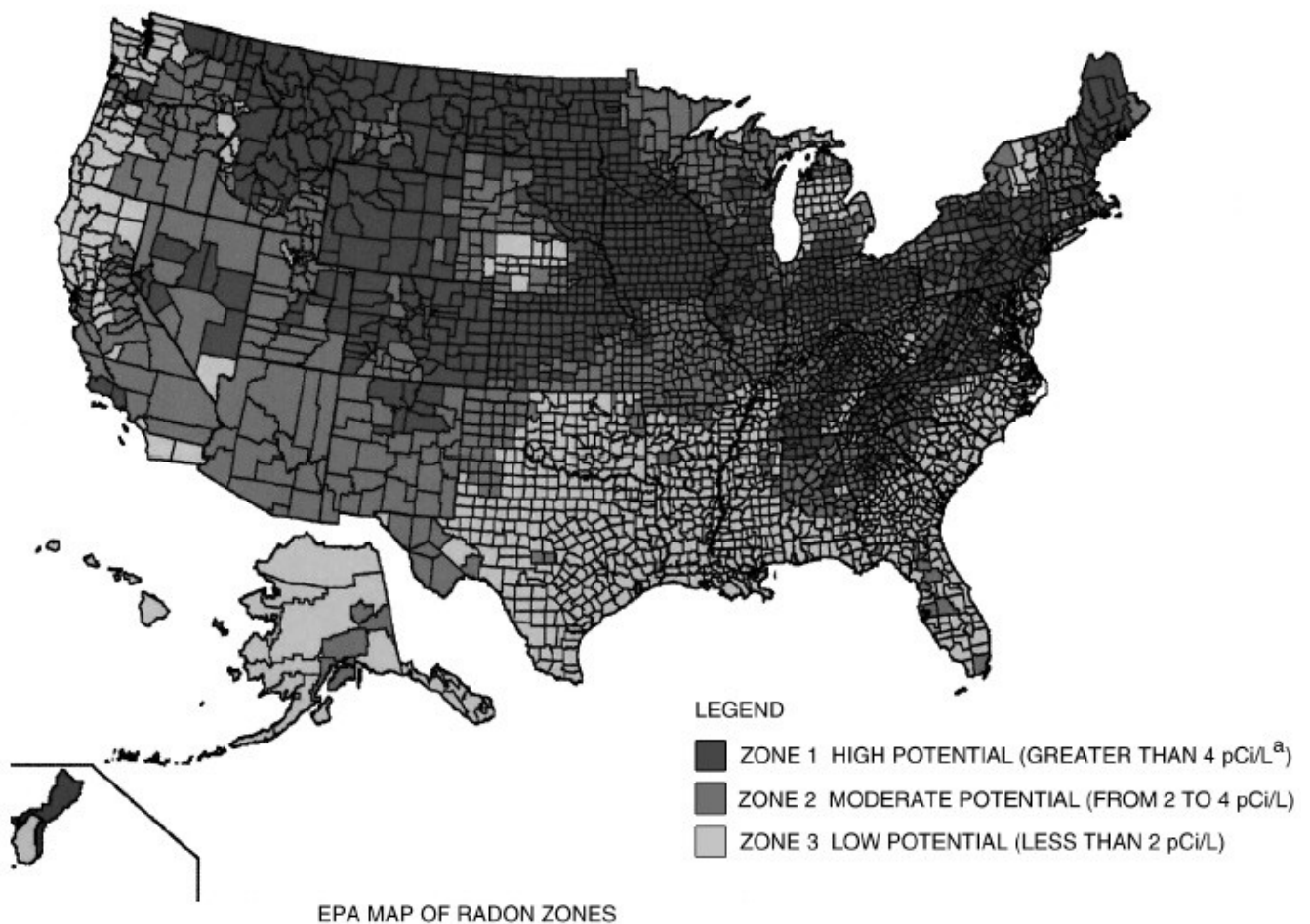


FIGURE 809.1
EPA MAP OF RADON ZONES

TABLE 809.1
EPA RADON ZONE 1 and 2 COUNTIES BY STATE^a

ALABAMA Zone 1 Calhoun	ALASKA Zone 2 Anchorage Municipality	Zone 2 Alameda Alpine	Gilpin Grand Gunnison	New Haven New London
Clay	Dillingham Census Area	Amador	Huerfano	Zone 2
Cleburne Colbert Coosa Franklin	Fairbanks North Star Borough Kenai Peninsula Borough	Calaveras Contra Costa El Dorado Fresno	Jackson Jefferson Kiowa Kit Carson	Litchfield Tolland Windham
Jackson Lauderdale Lawrence Limestone Madison Morgan	Matanuska-Susitna Borough Southeast Fairbanks Census Area ARIZONA	Inyo Kern Los Angeles Madera Mariposa Mono	La Plata Larimer Las Animas Lincoln Logan Mesa	DELAWARE Zone 2 New Castle FLORIDA Zone 2

Talladega	Zone 2 Apache	Monterey Nevada	Moffat Montezuma	Alachua Citrus
Zone 2	Cochise	Placer	Montrose	Columbia
Autauga Barbour Bibb Blount Bullock Cherokee	Coconino Gila Graham Greenlee La Paz Maricopa	Plumas Riverside San Benito San Bernardino San Francisco San Luis Obispo	Morgan Otero Ouray Park Phillips Pitkin	Hillsborough Leon Marion Miami-Dade Polk Union
Chilton	Mohave	San Mateo	Prowers	
Cullman Dallas DeKalb	Navajo Pima Pinal	Santa Clara Santa Cruz Sierra	Pueblo Rio Blanco San Miguel	GEORGIA Zone 1 Cobb
Elmore	Santa Cruz	Tulare	Sedgwick	DeKalb
Etowah Fayette Greene	Yavapai Yuma	Tuolumne Yuba	Summit Teller Washington	Fulton Gwinnett
Hale Jefferson Lamar	ARKANSAS Zone 2 Baxter	COLORADO Zone 1 Adams	Weld Yuma	Zone 2 Banks Barrow
Lee	Benton	Arapahoe	Zone 2	Bartow
Lowndes Macon Marion	Boone Carroll Fulton	Baca Bent Boulder	Alamosa Archuleta Conejos	Butts Carroll Catoosa
Marshall	Garland	Broomfield	Costilla	Cherokee
Montgomery Perry Pickens	Independence Izard Marion	Chaffee Cheyenne Clear Creek	Eagle Hinsdale Lake	Clarke Clayton Coweta
Randolph Russell Shelby	Montgomery Randolph Searcy	Crowley Custer Delta	Mineral Rio Grande Routt	Dawson Douglas Elbert
St Clair	Sharp	Denver	Saguache	Fannin
Sumter Tuscaloosa Walker	Stone CALIFORNIA	Dolores Douglas El Paso	San Juan CONNECTICUT	Fayette Floyd Forsyth
Winston	Zone 1	Elbert	Zone 1	Franklin
	Santa Barbara Ventura	Fremont Garfield	Fairfield Middlesex	Gilmer Greene
Habersham	Idaho	Jersey	Hardin	Hendricks
Hall Haralson Harris	Kootenai Latah Lemhi	Jo Daviess Kane Kendall	Jackson Jasper Jefferson	Henry Howard Huntington
Hart	Shoshone	Knox	Johnson	Jay
Heard Henry	Valley	LaSalle Lee	Kankakee Lake	Jennings Johnson

Jackson Jasper	Zone 2 Ada	Livingston Logan	Lawrence Macoupin	Kosciusko LaGrange
Lamar	Bannock	Macon	Madison	Lawrence
Lumpkin Madison Meriwether Monroe Morgan Newton	Bear Lake Bingham Bonneville Canyon Caribou Cassia	Marshall Mason McDonough McLean Menard Mercer	Marion McHenry Monroe Montgomery Perry Pope	Madison Marion Marshall Miami Monroe Montgomery
Oconee	Franklin	Morgan	Randolph	Noble
Oglethorpe Paulding Pickens	Jefferson Jerome Lincoln	Moultrie Ogle Peoria	Richland Saline Shelby	Orange Putnam Randolph
Pike	Madison	Piatt	St Clair	Rush
Rabun Richmond Rockdale	Minidoka Oneida Owyhee	Pike Putnam Rock Island	Union Wabash Washington	Scott Shelby St Joseph
Spalding Stephens Talbot	Payette Power Teton	Sangamon Schuyler Scott	Wayne White Will	Steuben Tippecanoe Tipton
Towns	Twin Falls	Stark	Williamson	Union
Troup Union Upson	ILLINOIS Zone 1	Stephenson Tazewell Vermilion	INDIANA Zone 1	Vermillion Wabash Warren
Walker	Adams	Warren	Adams	Washington
Walton White Whitfield	Boone Brown Bureau	Whiteside Winnebago Woodford	Allen Bartholomew Benton	Wayne Wells White
IDAHO Zone 1	Calhoun Carroll Cass	Zone 2 Bond	Blackford Boone Carroll	Whitley Zone 2
Benewah	Champaign	Christian	Cass	Brown
Blaine Boise Bonner	Coles De Kalb De Witt	Clark Clay Clinton	Clark Clinton De Kalb	Clay Crawford Daviess
Boundary	Douglas	Cook	Decatur	Dearborn
Butte Camas	Edgar Ford	Crawford Cumberland	Delaware Elkhart	Dubois Floyd
Clark	Fulton	DuPage	Fayette	Franklin
Clearwater Custer Elmore	Greene Grundy Hancock	Edwards Effingham Fayette	Fountain Fulton Grant	Gibson Greene Jackson
Fremont	Henderson	Franklin	Hamilton	Jasper
Gooding	Henry Iroquois	Gallatin Hamilton	Hancock Harrison	Jefferson Knox

Lake LaPorte	Des Moines Dickinson	Sac Scott	Lincoln Logan	Elk Franklin
Martin	Dubuque	Shelby	Marion	Greenwood
Morgan Newton Ohio Owen Parke Perry	Emmet Fayette Floyd Franklin Fremont Greene	Sioux Story Tama Taylor Union Van Buren	Marshall McPherson Meade Mitchell Nemaha Ness	Harper Harvey Jefferson Labette Linn Lyon
Pike	Grundy	Wapello	Norton	Miami
Porter Posey Pulaski	Guthrie Hamilton Hancock	Warren Washington Wayne	Osborne Ottawa Pawnee	Montgomery Morris Morton
Ripley	Hardin	Webster	Phillips	Neosho
Spencer Starke Sullivan	Harrison Henry Howard	Winnebago Winneshiek Woodbury	Pottawatomie Pratt Rawlins	Osage Reno Sedgwick
Switzerland Vanderburgh Vigo	Humboldt Ida Iowa	Worth Wright	Republic Rice Riley	Seward Shawnee Stafford
Warrick	Jackson	KANSAS	Rooks	Stevens
IOWA Zone 1	Jasper Jefferson Johnson	Zone 1 Atchison Barton	Rush Russell Saline	Sumner Wabaunsee Wilson
Adair	Jones	Brown	Scott	Woodson
Adams Allamakee Appanoose	Keokuk Kossuth Lee	Cheyenne Clay Cloud	Sheridan Sherman Smith	KENTUCKY Zone 1
Audubon Benton Black Hawk	Linn Louisa Lucas	Decatur Dickinson Douglas	Stanton Thomas Trego	Adair Allen Barren
Boone	Lyon	Ellis	Wallace	Bourbon
Bremer Buchanan Buena Vista	Madison Mahaska Marion	Ellsworth Finney Ford	Washington Wichita Wyandotte	Boyle Bullitt Casey
Butler	Marshall	Geary		Clark
Calhoun Carroll	Mills Mitchell	Gove Graham	Zone 2 Allen	Cumberland Fayette
Cass	Monona	Grant	Anderson	Franklin
Cedar Cerro Gordo Cherokee	Monroe Montgomery Muscatine	Gray Greeley Hamilton	Barber Bourbon Butler	Green Harrison Hart
Chickasaw	O'Brien	Haskell	Chase	Jefferson
Clarke Clay	Osceola Page	Hodgeman Jackson	Chautauqua Cherokee	Jessamine Lincoln

Clayton Clinton	Palo Alto Plymouth	Jewell Johnson	Clark Coffey	Marion Mercer
Crawford	Pocahontas	Kearny	Comanche	Metcalfe
Dallas Davis Decatur Delaware Robertson Russell	Polk Pottawattamie Poweshiek Ringgold Letcher Lewis	Kingman Kiowa Lane Leavenworth York Zone 2	Cowley Crawford Doniphan Edwards Jackson Kalamazoo	Monroe Nelson Pendleton Pulaski Douglas Faribault Count
Scott	Livingston	Knox	Lenawee	Fillmore
Taylor Warren Woodford	Logan Lyon Madison	Sagadahoc Waldo Washington	St Joseph Washtenaw	Freeborn Goodhue Grant
	Magoffin		Zone 2	Hennepin
Zone 2 Anderson Bath	Martin Mason McCreary	MARYLAND Zone 1 Baltimore	Alcona Alger Alpena	Houston Hubbard Jackson
Bell Boone Boyd	McLean Meade Menifee	Calvert Carroll Frederick	Antrim Baraga Barry	Kanabec Kandiyohi Kittson
Bracken	Montgomery	Harford	Charlevoix	Lac qui Parle
Breathitt Breckinridge Butler	Morgan Muhlenberg Nicholas	Howard Montgomery Washington	Clinton Dickinson Eaton	Le Sueur Lincoln Lyon
Caldwell	Ohio		Emmet	Mahnomen
Campbell Carroll Carter	Oldham Owen Owsley	Zone 2 Allegany Anne Arundel	Genesee Gogebic Houghton	Marshall Martin McLeod
Christian Clay Clinton	Perry Pike Powell	Baltimore City Cecil Charles	Ingham Ionia Iron	Meeker Mower Murray
Crittenden	Rockcastle	Garrett	Kent	Nicollet
Daviess Edmonson Elliott	Rowan Shelby Simpson	Prince George's Somerset	Keweenaw Lapeer Leelanau	Nobles Norman Olmsted
Estill	Spencer	MASSACHUSETTS	Livingston	Otter Tail
Fleming Floyd	Todd Trigg	Zone 1 Essex	Marquette Menominee	Pennington Pipestone
Gallatin	Trimble	Middlesex	Monroe	Polk
Garrard Grant Grayson	Union Washington Wayne	Worcester Zone 2	Montcalm Montmorency Oakland	Pope Ramsey Red Lake
Greenup	Webster	Barnstable	Otsego	Redwood
Hancock Hardin	Whitley Wolfe	Berkshire Bristol	Presque Isle Sanilac	Renville Rice

Harlan Henderson	MAINE	Dukes Franklin	Shiawassee	Rock Roseau
Henry	Zone 1	Hampden	MINNESOTA	Scott
Hopkins Jackson Johnson Kenton Knott Knox	Androscoggin Aroostook Cumberland Franklin Hancock Kennebec	Hampshire Nantucket Norfolk Plymouth MICHIGAN	Zone 1 Becker Big Stone Blue Earth Brown Carver	Sherburne Sibley Stearns Steele Stevens Swift
Larue	Lincoln	Zone 1	Chippewa	Todd
Laurel Lawrence Lee	Oxford Penobscot Piscataquis	Branch Calhoun Cass	Clay Cottonwood Dakota	Traverse Wabasha Wadena
Leslie	Somerset	Hillsdale	Dodge	Waseca
Washington Watonwan Wilkin	Nodaway Platte	Macon Madison Maries	Beaverhead Big Horn Blaine	Musselshell Petroleum Sweet Grass
Winona Wright Yellow Medicine	Zone 2 Adair Audrain	Marion McDonald Mercer	Broadwater Carbon Carter	Treasure Wheatland Yellowstone
	Barry	Miller	Cascade	
Zone 2 Aitkin Anoka	Barton Bates Benton	Moniteau Monroe Montgomery	Chouteau Custer Daniels	NEBRASKA Zone 1 Adams
Beltrami	Bollinger	Morgan	Dawson	Boone
Benton Carlton Cass	Boone Caldwell Callaway	Newton Oregon Osage	Deer Lodge Fallon Fergus	Boyd Burt Butler
Chisago Clearwater Cook	Camden Cape Girardeau Carroll	Ozark Perry Pettis	Flathead Gallatin Garfield	Cass Cedar Clay
Crow Wing	Carter	Phelps	Glacier	Colfax
Isanti Itasca Koochiching	Cedar Chariton Christian	Pike Polk Pulaski	Granite Hill Jefferson	Cuming Dakota Dixon
Lake	Clark	Putnam	Judith Basin	Dodge
Lake of the Woods	Cole	Ralls	Lake	Douglas
Mille Lacs	Cooper	Randolph	Lewis and Clark	Fillmore
Morrison Pine St Louis	Crawford Dade Dallas	Ray Reynolds Ripley	Liberty Lincoln Madison	Franklin Frontier Furnas
	Daviess	Saline	McCone	Gage
MISSISSIPPI Zone 2	DeKalb Dent	Schuyler Scotland	Meagher Mineral	Gosper Greeley

Alcorn Chickasaw	Douglas Franklin	Shannon Shelby	Missoula Park	Hamilton Harlan
Clay	Gasconade	St Charles	Phillips	Hayes
Lee Lowndes Noxubee Pontotoc Rankin Union	Gentry Greene Grundy Harrison Henry Hickory	St Clair St Francois St Louis city St Louis Ste Genevieve Stone	Pondera Powder River Powell Prairie Ravalli Richland	Hitchcock Jefferson Johnson Kearney Knox Lancaster
Washington	Howard	Sullivan	Roosevelt	Madison
MISSOURI Zone 1	Howell Jasper Jefferson	Taney Texas Vernon	Rosebud Sanders Sheridan	Nance Nemaha Nuckolls
Andrew	Johnson	Warren	Silver Bow	Otoe
Atchison Buchanan Cass	Knox Laclede Lafayette	Washington Wayne Webster	Stillwater Teton Toole	Pawnee Phelps Pierce
Clay Clinton Holt	Lawrence Lewis Lincoln	Worth Wright	Valley Wibaux	Platte Polk Red Willow
Iron	Linn	MONTANA	Zone 2	Richardson
Jackson Sarpy Saunders	Livingston Esmeralda Humboldt	Zone 1 Taos Zone 2	Golden Valley Putnam Rensselaer	Saline Gaston Graham
Seward	Nye	Catron	Schoharie	Haywood
Stanton Thayer Thurston	Storey Washoe	Chaves Cibola Curry	Schuyler Seneca Steuben	Iredell Jackson Lincoln
Washington Wayne Webster	NEW HAMPSHIRE Zone 1 Carroll	De Baca Dona Ana Eddy	Sullivan Tioga Tompkins	Macon Madison McDowell
York		Grant	Ulster	Polk
Zone 2 Antelope	Zone 2 Belknap Cheshire	Guadalupe Harding Hidalgo	Washington Wyoming Yates	Rutherford Stokes Surry
Banner	Coos	Lea		Swain
Box Butte Buffalo	Grafton Hillsborough	Lincoln Los Alamos	Zone 2 Clinton	Vance Wake
Chase	Merrimack	Luna	Jefferson	Warren
Cheyenne Custer Dawes	Rockingham Strafford Sullivan	McKinley Otero Quay	Lewis Monroe Montgomery	Wilkes Yadkin Yancey
Dawson		Roosevelt	Niagara	
Deuel	NEW JERSEY	San Juan	Oneida	NORTH DAKOTA

Dundy Hall	Zone 1 Hunterdon	Sandoval Sierra	Orleans Oswego	Zone 1 Adams
Howard	Mercer	Socorro	Saratoga	Barnes
Keith Keya Paha Kimball Merrick Morrill	Monmouth Morris Somerset Sussex Warren	Torrance Union Valencia NEW YORK	Schenectady St Lawrence Wayne NORTH CAROLINA	Benson Billings Bottineau Bowman Burke
Perkins Scotts Bluff Sheridan Sherman	Zone 2 Bergen Burlington	Zone 1 Albany Allegany Broome	Zone 1 Alleghany Buncombe Cherokee	Burleigh Cass Cavalier Dickey
Sioux	Camden	Cattaraugus	Henderson	Divide
Valley	Cumberland Essex	Cayuga Chautauqua	Mitchell Rockingham	Dunn Eddy
NEVADA Zone 1 Carson City Douglas	Gloucester Hudson Middlesex Passaic	Chemung Chenango Columbia Cortland	Transylvania Watauga Zone 2	Emmons Foster Golden Valley Grand Forks
Eureka	Salem	Delaware	Alexander	Grant
Lander Lincoln Lyon	Union NEW MEXICO	Dutchess Erie Genesee	Ashe Avery Burke	Griggs Hettinger Kidder
Mineral	Zone 1	Greene	Caldwell	LaMoure
Pershing White Pine	Bernalillo Colfax	Livingston Madison	Caswell Catawba	Logan McHenry
	Mora	Onondaga	Clay	McIntosh
Zone 2 Churchill Elko	Rio Arriba San Miguel Santa Fe	Ontario Orange Otsego	Cleveland Forsyth Franklin	McKenzie McLean Mercer
Morton	Huron	Morgan	Adams	Crawford
Mountrail Nelson Oliver	Jefferson Knox Licking	Noble Ottawa Paulding	Allegheny Armstrong Beaver	Elk Erie Fayette
Pembina	Logan	Portage	Bedford	Forest
Pierce Ramsey	Madison Marion	Putnam Sandusky	Berks Blair	Greene Jefferson
Ransom	Mercer	Scioto	Bradford	Lawrence
Renville Richland Rolette	Miami Montgomery Morrow	Trumbull Vinton Washington	Bucks Butler Cameron	McKean Mercer Pike
Sargent	Muskingum	Williams	Carbon	Potter
Sheridan Sioux	Perry Pickaway	Wood	Centre Chester	Somerset Warren

Slope Stark	Pike Preble	OKLAHOMA Zone 2	Clarion Clearfield	Washington Wayne
Steele	Richland	Adair	Clinton	
Stutsman Towner Traill Walsh Ward Wells	Ross Seneca Shelby Stark Summit Tuscarawas	Beaver Cherokee Cimarron Delaware Ellis Mayes	Columbia Cumberland Dauphin Delaware Franklin Fulton	RHODE ISLAND Zone 1 Kent Washington Zone 2
Williams	Union	Sequoyah	Huntingdon	Newport
OHIO Zone 1	Van Wert Warren Wayne	Texas OREGON	Indiana Juniata Lackawanna	Providence SOUTH CAROLINA
Adams Allen	Wyandot	Zone 2 Baker	Lancaster Lebanon	Zone 1 Greenville
Ashland Auglaize Belmont Butler	Zone 2 Ashtabula Athens Brown	Clatsop Columbia Crook Gilliam	Lehigh Luzerne Lycoming Mifflin	Zone 2 Abbeville Anderson
Carroll	Clermont	Grant	Monroe	Cherokee
Champaign Clark Clinton	Cuyahoga Defiance Erie	Harney Hood River Jefferson	Montgomery Montour Northampton	Laurens Oconee Pickens
Columbiana	Fulton	Klamath	Northumberland	Spartanburg
Coshocton Crawford	Gallia Geauga	Lake Malheur	Perry Schuylkill	York
Darke Delaware Fairfield	Henry Highland Hocking	Morrow Multnomah Sherman	Snyder Sullivan Susquehanna	SOUTH DAKOTA Zone 1 Aurora
Fayette	Jackson	Umatilla	Tioga	Beadle
Franklin Greene Guernsey	Lake Lawrence Lorain	Union Wasco Washington	Union Venango Westmoreland	Bon Homme Brookings Brown
Hamilton	Lucas	Wheeler	Wyoming	Brule
Hancock Hardin	Mahoning Medina	Yamhill	York	Buffalo Campbell
Harrison	Meigs	PENNSYLVANIA	Zone 2	Charles Mix
Holmes Clay Codrington	Monroe Mellette Pennington	Zone 1 Carter Cheatham	Cambria Hutchinson Jeff Davis	Clark Wayne Weber
Corson	Shannon	Chester	Lamb	
Davison Day Deuel	Todd Tripp Ziebach	Clay Cocke Coffee	Lipscomb Llano Lubbock	VERMONT Zone 2 Addison

Douglas Edmunds	TENNESSEE	Decatur DeKalb	Lynn Mason	Bennington Caledonia
Faulk	Zone 1	Dickson	Moore	Essex
Grant Hamlin Hand Hanson Hughes Hutchinson	Anderson Bedford Blount Bradley Claiborne Davidson	Fentress Hamilton Hardin Henderson Houston Johnson	Ochiltree Oldham Parmer Potter Presidio Randall	Franklin Lamoille Orange Orleans Rutland Washington
Hyde	Giles	Marion	Reeves	Windham
Jerauld Kingsbury Lake	Grainger Greene Hamblen	McNairy Montgomery Overton	Roberts Sherman Swisher	Windsor
Lincoln	Hancock	Pickett	Terrell	VIRGINIA Zone 1
Lyman Marshall McCook	Hawkins Hickman Humphreys	Polk Putnam Robertson	UTAH Zone 1	Alleghany Amelia Appomattox
McPherson Miner Minnehaha	Jackson Jefferson Knox	Sevier Stewart Sumner	Carbon Duchesne Grand	Augusta Bath Bland
Moody	Lawrence	Unicoi	Piute	Botetourt
Perkins Potter Roberts	Lewis Lincoln Loudon	Van Buren Warren White	Sanpete Sevier Uintah	Brunswick Buckingham Campbell
Sanborn	Macon			Chesterfield
Spink Stanley Sully	Madison Marshall McMinn	TEXAS Zone 2 Armstrong	Zone 2 Beaver Box Elder	Clarke Craig Cumberland
Turner Union Walworth	Meigs Monroe Moore	Bailey Brewster Carson	Cache Daggett Davis	Dinwiddie Fairfax Fluvanna
Yankton	Perry	Castro	Emery	Frederick
Zone 2 Bennett	Roane Rutherford Smith	Crosby Culberson Dallam	Garfield Iron Juab	Giles Goochland Henry
Butte	Sullivan	Deaf Smith	Kane	Highland
Custer Dewey	Trousdale Union	Donley Floyd	Millard Morgan	Lee Louisa
Fall River	Washington	Garza	Rich	Montgomery
Gregory Haakon Harding	Wayne Williamson Wilson	Gray Hale Hansford	Salt Lake San Juan Summit	Nottoway Orange Page
Jackson		Hartley	Tooele	Patrick
Jones Lawrence	Zone 2 Benton	Hemphill Hockley	Utah Wasatch	Pittsylvania Powhatan

Meade Roanoke	Cannon Pend Oreille	Hudspeth Barbour	Washington Marathon	Pulaski Oneida
Rockbridge	Skamania	Braxton	Menominee	Outagamie
Rockingham Russell Scott Shenandoah Smyth Spotsylvania	Spokane Stevens Zone 2 Adams Asotin	Cabell Calhoun Clay Doddridge Fayette Gilmer	Pepin Pierce Portage Richland Rock Shawano	Ozaukee Polk Price Racine Rusk Sauk
Stafford	Benton	Harrison	St Croix	Sawyer
Tazewell Warren Washington	Columbia Douglas Franklin	Jackson Lewis Lincoln	Vernon Walworth Washington	Sheboygan Taylor Trempealeau
Wythe	Garfield	Marion	Waukesha	Vilas
Zone 2 Albamarle	Grant Kittitas Klickitat	Mason Nicholas Pleasants	Waupaca Wood	Washburn Waushara Winnebago
Amherst Arlington Bedford	Lincoln Walla Walla Whitman	Putnam Raleigh Randolph	Zone 2 Adams Ashland	WYOMING Zone 1
Buchanan	Yakima	Ritchie	Barron	Albany
Carroll Charlotte Culpeper	WEST VIRGINIA Zone 1	Roane Taylor Tucker	Bayfield Brown Burnett	Big Horn Campbell Carbon
Dickenson	Berkeley	Tyler	Calumet	Converse
Fauquier Floyd Franklin	Brooke Grant Greenbrier	Upshur Wayne Webster	Chippewa Clark Columbia	Crook Fremont Goshen
Grayson Greene Halifax	Hampshire Hancock Hardy	Wirt Wood	Douglas Dunn Eau Claire	Hot Springs Johnson Laramie
Loudoun	Jefferson	WISCONSIN	Florence	Lincoln
Lunenburg Madison Mecklenburg	Marshall Mercer Mineral	Zone 1 Buffalo Crawford	Forest Iron Jackson	Natrona Niobrara Park
Nelson	Monongalia	Dane	Juneau	Sheridan
Prince Edward Prince William	Monroe Morgan	Dodge Door	Kenosha Kewaunee	Sublette Sweetwater
Rappahannock	Ohio	Fond du Lac	La Crosse	Teton
Wise WASHINGTON	Pendleton Pocahontas Preston	Grant Green Green Lake	Lincoln Manitowoc Marinette	Uinta Washakie
Zone 1	Summers	Iowa	Marquette	Zone 2
Clark Ferry	Wetzel	Jefferson Lafayette	Milwaukee Monroe	Platte Weston

Okanogan	Zone 2	Langlade	Oconto	
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Add new definitions as follows:

SECTION 202 DEFINITIONS

ACTIVE SOIL DEPRESSURIZATION (ASD). A family of radon mitigation systems involving fan-powered soil depressurization, including, but not limited to, sub-slab depressurization and sub-membrane depressurization.

NATIONAL ACTION LEVEL. The indoor radon concentration at which mitigation is recommended. The national action level is defined as the US Environmental Protection Agency's Action Level of 4 pCi/L [148 Bq/m3].

RADON. A naturally occurring, chemically inert, radioactive element, Rn-222, that exists as a gas.

ROUGH-IN. The installation of all parts and materials of an active soil depressurization system (ASD) that must be completed prior to the placement of concrete, prior to the closure of building cavities and prior to the installation of finish materials. Such parts and materials are gas permeable layers, soil gas retarders, plenums, membranes, piping, suction points, discharge point and wiring.

Add new standard(s) as follows:

AARST/ANSI

CCAH-2013 Reducing Radon in New Construction of 1 & 2 Family Dwellings and Townhouses

Reason: Radon is an important Life/Safety issue which exists in residential construction because of the way homes are constructed and the soil underlying a dwelling's foundation. **Occupant sustainability must be the primary goal for Green Building** but the IgCC currently only contains provisions for radon in the voluntary Appendix B.

21,000 Americans die each year from radon-induced lung cancer. Geographical areas of the highest radon potential in the United States are located in EPA radon zones 1 & 2. This proposal adds radon control features and requires radon testing prior to occupancy to ensure radon levels below the National Radon Action Level of 4 pCi/L.

The EPA estimates that 1 out of 15 of all homes in the US has elevated indoor radon levels. The incidence of elevated radon may be greater than 7 out of 10 homes in some high radon areas. Nonrandomized industry data shows a significant number of homes across the United States have tested high for elevated indoor radon concentrations.

Radon Test Results Data by State

STATE	STATENAME	TOTAL # TESTS	AVG (pCi/L)	% > EPA Action Level of 4 pCi/L
AL	ALABAMA	11,629	3.8	21.9
AK	ALASKA	432	2.2	13.0
AZ	ARIZONA	7,495	2.1	11.9
AR	ARKANSAS	1,243	2.5	13.7
CA	CALIFORNIA	16,960	2.1	9.1
CO	COLORADO	88,346	6.5	49.0
CT	CONNECTICUT	41,292	3.4	23.9
DE	DELAWARE	5,539	2.5	17.4
FL	FLORIDA	40,039	1.8	10.2
GA	GEORGIA	27,222	2.6	18.9
HI	HAWAII	94	0.4	2.1
ID	IDAHO	16,138	7.1	40.4
IL	ILLINOIS	84,366	5.1	41.0
IN	INDIANA	18,031	4.7	37.2
IA	IOWA	96,260	6.2	49.3
KS	KANSAS	34,288	5.2	44.0

STATE	STATENAME	TOTAL # TESTS	AVG (pCi/L)	% > EPA Action Level of 4 pCi/L
KY	KENTUCKY	47,575	7.4	43.6
LA	LOUISIANA	786	0.9	3.1
ME	MAINE	5,494	5.9	38.3
MD	MARYLAND	55,949	5.4	33.4
MA	MASSACHUSETTS	29,850	3.8	25.6
MI	MICHIGAN	164,678	3.4	25.4
MN	MINNESOTA	135,419	4.7	42.2
MS	MISSISSIPPI	700	1.2	5.6
MO	MISSOURI	27,771	4.2	31.6
MT	MONTANA	18,082	7.2	46.3
NE	NEBRASKA	27,481	5.7	51.6
NV	NEVADA	1,952	3.0	19.3
NH	NEW HAMPSHIRE	35,974	5.5	34.0
NJ	NEW JERSEY	41,092	4.3	24.1
NM	NEW MEXICO	8,165	3.9	30.2
NY	NEW YORK	66,713	4.8	23.9
NC	NORTH CAROLINA	79,384	3.8	27.5
ND	NORTH DAKOTA	10,887	6.0	50.5
OH	OHIO	102,352	7.9	49.0
OK	OKLAHOMA	1,356	2.3	9.7
OR	OREGON	13,675	3.5	25.4
PA	PENNSYLVANIA	149,543	8.3	44.3
RI	RHODE ISLAND	8,667	4.2	31.0
SC	SOUTH CAROLINA	38,971	2.7	18.7
SD	SOUTH DAKOTA	4,081	9.8	59.2
TN	TENNESSEE	40,632	4.6	31.8
TX	TEXAS	5,821	2.4	8.7
UT	UTAH	14,636	4.5	33.6
VT	VERMONT	3,231	3.7	23.4
VA	VIRGINIA	62,577	3.5	25.4
WA	WASHINGTON	22,199	7.0	39.3
DC	WASHINGTON DC	6,948	1.6	8.8
WV	WEST VIRGINIA	14,976	6.0	35.0
WI	WISCONSIN	72,694	5.6	41.8
WY	WYOMING	25,090	5.2	39.6
TOTALS		1,834,775		

Source: AARST radon industry test data; published 10/29/2012.

Cost Impact: Will increase the cost of construction. This change proposal will slightly increase the cost of construction. Most homes can be built with only a mitigation system Rough-In. If the home tests high for elevated radon then the system can be upgraded with a fan to reduce the indoor radon levels. Cost of mitigation system Rough-In (passive) = \$296*. Cost of fan driven mitigation system = \$707* (total cost, not in addition to \$296)

***Source: Annual Builder Practices Report 2011, NAHB Research Center, Inc.**

The cost savings for reduced health care resulting from a healthier indoor environment has not been calculated.

Analysis: This code change proposal addresses the scope and application of the International Green Construction Code. Therefore, the final action taken on this code change proposal will be limited to an advisory recommendation to the ICC Board of Directors who will determine the final disposition of this code change proposal in accordance with Section 1.3 of CP28, which stipulates that the ICC Board of Directors determines the scope of the I-Codes.

A review of the standard proposed for inclusion in the code, AARST/ANSI #CCAH-2013 with regard to the ICC criteria for referenced standards (Section 3.6 of CP#28) will be posted on the ICC website on or before April 1, 2014.

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