

New Changes in the 2024 International Code TAG Review Worksheet

Model Code: 2024 IBC

Minnesota Rule 1305 and Minnesota Rule 7511 - Compatability											To be completed by TAG members			
Item No.	Minnesota Building Code Section	Minnesota Fire Code Section	2024 IBC Code Section	2024 IFC Code Section	Subject	Current MN Amend	Description of Change	Safety & Health Value	Cost Impact	Recommendation A - Accept R - Reject AM - Amend or Comments	Recommendation A - Accept R - Reject AM - Amend	TAG Group Consensus	Stake-holder Consensus	Comments
						Y or N		N=None, L=Low M=Med, H=High	Y or N		Y or N			
CHAPTER 9														
321	901.2		901.2		Fire protection systems	N	Added 'and life safety'							Not reviewed by TAG. Listed for tracking purposes only. Non-substantial or
322	901.4		901.4		Threads	N	Added 'automatic'							Not reviewed by TAG. Listed for tracking purposes only. Non-substantial or
323	901.6.2 - 901.5.2.2		901.6.2 - 901.5.2.2		Integrated testing, high rise building, smoke control system	N	24 IBC deleted sections. Renumbering.							
324	901.6.3		901.6.3		Fire alarm systems	Y	MN deleted section in its entirety							
325	903.2		903.2		Where required - exception	N	2024 added energy storage systems. Exception: Spaces or areas in telecommunications buildings used exclusively for telecommunications equipment, associated electrical power distribution equipment, batteries <i>not required to have an automatic sprinkler system by Section 1207 of the International Fire Code for energy storage systems and standby engines.</i>							Not reviewed by TAG. Listed for tracking purposes only. Non-substantial or editorial only changes.
326			903.2.3		Group B	N	2024 Added Sections: 903.2.2 Group B. An automatic sprinkler system shall be provided for Group B occupancies as required in Sections 903.2.2.1 and 903.2.2.2. 903.2.2.2 Laboratories involving testing, research and development. An automatic sprinkler system shall be installed throughout the fire areas utilized for the research and development or testing of lithium-ion or lithium metal batteries.							
327	903.2.3		903.2.3		Group E	Y	MN amendment to item 2. Changing the term to 'the level of exit discharge' instead of 'at ground level'			retain amendment				
328	903.2.4		903.2.4		Group F-1	N	2024 IBC added two conditions: 4. A Group F-1 occupancy is used to manufacture lithium-ion or lithium metal batteries. 5. A Group F-1 occupancy is used to manufacture vehicles, energy storage systems or equipment containing lithium-ion or lithium metal batteries where the batteries are installed as part of the manufacturing process. Previous item 4 moved: A Group F-1 occupancy used for the manufacture of upholstered furniture or mattresses exceeds 2,500 square feet (232 m2).			review changes				

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329			903.2.4.2, 903.2.4.3		Group F-1	N	New Sections: 903.2.4.2 Group F-1 distilled spirits. An automatic sprinkler system shall be provided throughout a Group F-1 fire area used for the manufacture of distilled spirits. 903.2.4.3 Group F-1 upholstered furniture or mattresses. An automatic sprinkler system shall be provided throughout a Group F-1 fire area that exceeds 2,500 square feet (232 m2) used for the manufacture of upholstered furniture or mattresses.							
330	903.2.5.2		903.2.5.2		Group H	N	added the term automatic							Not reviewed by TAG. Listed for tracking purposes only. Non-substantial or editorial only changes.
331			903.2.7.2, 903.2.7.3		New Sections	N	[F] 903.2.7.2 Group M upholstered furniture or mattresses. An automatic sprinkler system shall be provided throughout a Group M fire area where the area used for the display and sale of upholstered furniture or mattresses exceeds 5,000 square feet (464 m2). [F] 903.2.7.3 Lithium-ion or lithium metal battery storage. An automatic sprinkler system shall be provided in a room or space within a Group M occupancy where required for the storage of lithium-ion or lithium metal batteries by Section 320 of the International Fire Code or Chapter 32 of the International Fire Code.							
332	903.2.8		903.2.8		Group R	Y	All MN Specific: See proposed CCP's for proposed changes							
333	903.2.9		903.2.9		Group S-1	N	IBC relocated previous item 5 to new section							
334	903.2.9		903.2.9		Group S-1	N	IBC new item 5: A Group S-1 fire area used for the storage of lithium-ion or lithium metal powered vehicles where the fire area exceeds 500 square feet (46.4 m2).							
335	903.2.9.1		903.2.9.1		Repair garages	N	IBC new item 5: A Group S-1 fire area used for the storage of lithium-ion or lithium metal powered vehicles where the fire area exceeds 500 square feet (46.4 m2).							
336			903.2.9.3,		Group S-1	N	IBC new sections: [F] 903.2.9.3 Group S-1 Distilled spirits or wine. An automatic sprinkler system shall be provided throughout a Group S-1 fire area used for the bulk storage of distilled spirits or wine.							

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337	903.2.9.3		903.2.9.4		Group S-1	Y	IBC new section - matches existing MN specific amendment: [F] 903.2.9.4 Group S-1 upholstered furniture and mattresses. An automatic sprinkler system shall be provided throughout a Group S-1 fire area where the area used for the storage of upholstered furniture or mattresses exceeds 2,500 square feet (232 m2). Exception: Self-service storage facilities not greater than one story above grade plane where all storage spaces can be accessed directly from the exterior.			repeal amendment				
338	903.2.10		903.2.10		Group S-2	N	IBC changes scoping to all parking garages and not just enclosed parking garages. IBC adds compliance with 406.6 to conditions. IBC adds item 3: 3. Where the fire area of the open parking garage in accordance with Section 406.5 exceeds 48,000 square feet (4460 m2).			Review changes				
339			903.2.10.2		Mechanical access enclosed parking garages	N	IBC new section: [F] 903.2.10.2 Mechanical-access enclosed parking garages. An approved automatic sprinkler system shall be provided throughout buildings used for the storage of motor vehicles in a mechanical-access enclosed parking garage . The portion of the building that contains the mechanical-access enclosed parking garage shall be protected with a specially engineered automatic sprinkler system.							
340	903.2.11.3		903.2.11.3		Buildings 55 feet or more in height		IBC removed Open Parking Structures from the exceptions							
341	903.2.11.4		903.2.11.4		Fire protection for exhaust systems	Y	MN amendment: 903.2.11.4 Fire protection for exhaust systems. Where required by the Minnesota Mechanical Code, automatic sprinklers shall be provided in ducts having a cross-sectional area of 75 square inches (480 cm2) or more and that: (1) convey flammable or combustible components; or (2) have the potential for combustible residue buildup on the inside. When sprinkler protection is installed, means shall be provided to prevent water accumulation in the duct and the flow of water back to a process where the application of water constitutes a serious life or fire hazard. IBC language:: F] 903.2.11.4 Ducts conveying hazardous exhausts. Where required by the International Mechanical Code, automatic sprinklers shall be provided in ducts conveying hazardous exhaust or flammable or combustible materials. Exception: Ducts where the largest cross-sectional diameter of the duct is less than 10 inches (254 mm).							

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342	903.2.11.6 and Table				required fire protection systems	N	IBC changes term to protection. Adds Lithium-ion battery storage to table, updates play structures and special amusement areas							
343	903.3.1		903.3.1		Standards	Y	MN Specific amendment for state licensed facilities: 903.3.1 Standards. Sprinkler systems shall be designed and installed in accordance with Section 903.3.1.1, unless otherwise permitted by Sections 903.3.1.2 and 903.3.1.3 and other chapters of this code, as applicable. Automatic sprinkler systems installed in state-licensed or state-registered facilities shall be installed in accordance with this code and the applicable licensing or registration provisions of other Minnesota state agencies.							
344	903.3.1.1.1		903.3.1.1.1		Exempt locations	Y	IBC removed item 1: (as it's covered by item 2) A room where the application of water, or flame and water, constitutes a serious life or fire hazard. IBC updated item 2: 2.1. A room or space where sprinklers are considered undesirable constitute a serious life or fire hazard because of the nature of the contents, where approved by the fire code official . MN added item 7: Sprinkler protection shall not be installed in elevator shafts, elevator pits, or elevator machine rooms. Exception to Item 7: Health care occupancies that are: (1) required to have NFPA 13 systems; (2) licensed by the Minnesota Department of Health; and (3) participate in Title XVIII (Medicare) or Title XIX (Medicaid) of the Social Security Act.							
345			903.3.1.1.3		Lithium-ion batteries	N	New IBC section: 903.3.1.1.3 Lithium-ion or lithium metal batteries. Where automatic sprinkler systems are required by this code for areas containing lithium-ion or lithium metal batteries, the design of the system shall be based on a series of fire tests. Such tests shall be conducted or witnessed and reported by an approved testing laboratory involving test scenarios that address the range of variables associated with the intended arrangement of the hazards to be protected.							

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346	903.3.1.2		903.3.1.2		NFPA 13R	N	IBC reorganized requirements in items, and added height conditions: 903.3.1.2 NFPA 13R sprinkler systems. Automatic sprinkler systems in Group R occupancies shall be permitted to be installed throughout in accordance with NFPA13R where the Group R occupancy meets all of the following conditions: 1. Four stories or less above grade plane. 2. For other than Group R-2 occupancies, the The floor level of the highest story is 30 feet (9144 mm) or less above the lowest level of fire department vehicle access. For Group R-2 occupancies, the roof assembly is less than 45 feet (13 716 mm) above the lowest level of fire department vehicle access. The height of the roof assembly shall be determined by measuring the distance from the lowest required fire vehicle access road surface adjacent to the building to the eave of the highest pitched roof, the intersection of the highest roof to the exterior wall , or the top of the highest parapet, whichever yields the greatest distance. 3. The floor level of the lowest story is 30 feet (9144 mm) or less below the lowest level of fire department vehicle access.							

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347	903.3.1.2.1		903.3.1.2.1		Protection of decks and Balconies	Y	MN amendment: 903.3.1.2.1 Protection of decks and balconies. Decks and balconies greater than 6 feet (1.8 m) above grade, greater than 4 feet (1.2 m) deep, with an area greater than 40 square feet (3.72 m2), and attached to new Group R-1 or R-2 occupancy buildings protected in accordance with Section 903.3.1.2 that are three or more stories in height and with 30 or more units, shall be protected with sprinklers under the balcony or deck framing and under attic eaves when both of the following two conditions exist: 1. The building has an unsprinklered attic; and 2. The building has combustible siding. <i>IBC Language: [F] 903.3.1.2.1 Balconies and decks. Sprinkler protection shall be provided for exterior balconies, decks and ground floor patios of dwelling units and sleeping units where either of the following conditions exists:</i> 1. The building is of Type V construction, provided that there is a roof or deck above. 2. Exterior balconies, decks and ground floor patios of dwelling units and sleeping units are constructed in accordance with Section 705.2.3.1, Exception 3. Sidewall sprinklers that are used to protect such areas shall be permitted to be located such that their deflectors are within 1 inch (25 mm) to 6 inches (152 mm) below the structural members and a maximum distance of 14 inches (356 mm) below the deck of the exterior balconies and decks that are constructed of open wood joist construction.							
348	903.3.1.2.2		903.3.1.2.2		Corridors and balconies in the means of egress		IBC added conditions to section (previously directed compliance to 1027.6 exception3) [F] 903.3.1.2.2 Open-ended corridors. Corridors and balconies in the means of egress. Sprinkler protection shall be provided in corridors and for balconies in the means of egress where any of the following conditions apply: 1. Corridors with combustible floor or walls. 2. Corridors with an interior change of direction exceeding 45 degrees (0.79 rad). 3. Corridors that are less than 50 percent open to the outside atmosphere at the ends. 4. Open-ended corridors and associated exterior stairways and ramps as specified in Section 1027.6, Exception 3. 5. Egress balconies not complying with Sections 1021.2 and 1021.3.							
349	903.3.1.3				NFPA 13D	Y	MN amends section to only apply to R-3, R-4 Condition 1			retain amendment				

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350	903.3.1.4				Buildings of undetermined use		MN amendment specific, MBC matches MFC							
351	903.3.1.5				Special sprinkler desing criteria		MN amendment specific, MBC matches MFC							
352	903.3.1.6				Modifictions to sprinkler standards		MN amendment specific, MBC matches MFC							
353	903.3.1.6.1				Hose Stream requirement		MN amendment specific, MBC matches MFC							
354	903.3.1.6.2				Elevator shafts and equipment		MN amendment specific, MBC matches MFC							
355	903.3.1.6.3				swimming pools		MN amendment specific, MBC matches MFC							
356	903.3.1.6.4				NFPA 13 modifications		MMC includes changes to standard and MFC points to MR for modifications							
357	903.3.1.6.5				vestibules		MN amendment specific, MBC matches MFC							
358	903.3.2		903.3.2		Quick response and residential sprinklers	N	IBC adds item: Throughout all spaces within a smoke compartment containing gas fireplace appliances and decorative gas appliances in Group I-2.							
359	903.3.9				Sprinkler system design pressure safety margin	Y	MN specific section. 903.3.9 Sprinkler system design pressure safety margin. For new sprinkler systems or additions to existing sprinkler systems, the available water supply shall exceed the sprinkler system demand, including hose stream requirements, by 5 psi (0.34 bars) or more. Exception: NFPA 13D systems installed in accordance with Section 903.3.1.3.							
360	903.4.3		903.3.9		High-rise building floor control valves.		IBC moved section; [F] 903.4.3903.3.9 High-rise building floor control valves. Approved supervised indicating control valves shall be provided at the point of connection to the riser on each floor in high-rise buildings .							

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361	903.4		903.4, 903.4.1		Sprinkler system supervision and alarms	Y	IBC made this a subsection and added a general compliance section. IBC amended Item 2: Limited area sprinkler systems in accordance with Section 903.3.8, provided that backflow prevention device test valves located in limited area sprinkler system supply piping shall be locked in the open position unless supplying an occupancy required to be equipped with a fire alarm system , in which case the backflow preventer valves shall be electrically supervised by a tamper switch installed in accordance with NFPA 72 and separately annunciated.IBC added item 8: Underground key or hub gate valves in roadway boxes.			separate CCP was approved on MN amendment				
362	903.4.1		903.4.2		Monitoring	N	IBC removed both exceptions							
363	903.4.2		903.4.3		Alarms	Y	MN amendment: F] 903.4.2 Alarms. An approved audible alarm and an approved visible alarm are required on the exterior of the building in an approved location. These alarms can be part of the same device or separate devices. The alarms shall be connected to each automatic sprinkler system. The alarms shall be located above the fire department connection and visible from the street or nearest point of fire department vehicle access, or as otherwise approved by the fire code official. Such sprinkler water-flow alarms shall be activated by water flow equivalent to the flow of a single sprinkler of the smallest orifice size installed in the system. Where a fire alarm system is installed, actuation of the automatic sprinkler system shall actuate the building fire alarm system.							

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364					Alarms	Y	IBC updated language: [F] 903.4.3 Alarms. An approved audible and visual sprinkler waterflow alarm device, located on the exterior of the building in an approved location, shall be connected to each automatic sprinkler system . Such sprinkler waterflow alarm devices shall be activated by waterflow equivalent to the flow of a single sprinkler of the smallest orifice size installed in the system. Where a waterflow switch is required by Section 903.4.1 to be electrically supervised, such sprinkler waterflow alarm devices shall be powered by a fire alarm control unit or, where provided, a fire alarm system . Where a fire alarm system is provided, actuation of the automatic sprinkler system shall actuate the building fire alarm system . Exception: Automatic sprinkler systems protecting one- and two-family dwellings .								
365	903.4.4				valve security	Y	MN specific - new supported CCP								
366	903.5		903.5		Inspection testing and maintenance	N	IBC added the term insepction								