

STATE BUILDING CODE COUNCIL

1. St	tate Building Code to be Amended:	
		☐ State Energy Code
	☐ ICC ANSI A117.1 Accessibility Code	☐ International Mechanical Code
	☐ International Existing Building Code	☐ International Fuel Gas Code
	☐ International Residential Code	☐ NFPA 54 National Fuel Gas Code
	☐ International Fire Code	☐ NFPA 58 Liquefied Petroleum Gas Code
	Uniform Plumbing Code	☐ Wildland Urban Interface Code
	Section(s):	
	IBC Table 1604.5	
	Title: Risk Category for I-4 Occupancies	
2. Pi	roponent Name (Specific local government, org Proponent: City of Bellevue Development Title:	•
	Date: October 30, 2017	
3. D	esignated Contact Person:	
	Name: Julius Carreon, PE, SE	
	Title: Structural Plan Examiner	
	Address: 450 110 th Ave. Ne Bellevue, WA 98	8004
	Office Phone: (425) 452-4197	
	Cell:	
	E-Mail address: jcarreon@bellevuewa.gov	

4.	Proposed Code Amendment . Reproduce the section to be amended by underlining all added language,
	striking through all deleted language. Insert new sections in the appropriate place in the code in order to
	continue the established numbering system of the code. If more than one section is proposed for
	amendment or more than one page is needed for reproducing the affected section of the code additional
	pages may be attached. (Examples on the SBCC website)

Code(s)IBC	Section(s) _Table 1604.5
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Enforceable code language must be used; see an example <u>by clicking here</u>. Amend section to read as follows:

TABLE 1604.5 RISK CATEGORY OF BUILDINGS AND OTHER STRUCTURES

RISK CATEGORY	NATURE OF OCCUPANCY					
	Buildings and other structures that represent a low hazard to human life in the event of failure, including but not limited to: • Agricultural facilities.					
I						
	Certain temporary facilities.					
	Minor storage facilities.					
II	Buildings and other structures except those listed in Risk Categories I, III and IV.					
	Buildings and other structures that represent a substantial hazard to human life in the event of failure, including but not limited to:					
	 Buildings and other structures whose primary occupancy is public assembly with an occupant load greater than 					
	 300. Buildings and other structures containing Group E Scupancies with an occupant load greater than 250. 					
	 Buildings and other structures containing educational occupancies for students above the 12th grade with an occupant load greater than 500. 					
	 Group I-2 occupancies with an occupant load of 50 or more resident care recipients but not having surgery or emergency treatment facilities. 					
III	Group I-3 occupancies.					
	 Any other occupancy with an occupant load greater than 5,000. 					
	 Power-generating stations, water treatment facilities for potable water, wastewater treatment facilities and other public utility facilities not included in Risk Category IV. 					
	 Buildings and other structures not included in Risk Category IV containing quantities of toxic or explosive materials that: 					
	Exceed maximum allowable quantities per control area as given in Table 307.1(1) or 307.1(2) or per outdoor control area in accordance with the <i>International Fire Code</i> ; and					
	Are sufficient to pose a threat to the public if released. ^b					
	Buildings and other structures designated as essential facilities, including but not limited to:					
	 Group I-2 occupancies having surgery or emergency treatment facilities. 					
	 Fire, rescue, ambulance and police stations and emergency vehicle garages. 					
	Designated earthquake, hurricane or other emergency shelters.					
	 Designated emergency preparedness, communications and operations centers and other facilities required for emergency response. 					
IV	 Power-generating stations and other public utility facilities required as emergency backup facilities for Risk Category IV structures. 					
-	Buildings and other structures containing quantities of highly toxic materials that:					
	Exceed maximum allowable quantities per control area as given in Table 307.1(2) or per outdoor control area in accordance with the <i>International Fire Code</i> ; and					
	Are sufficient to pose a threat to the public if released. ^b					
	 Aviation control towers, air traffic control centers and emergency aircraft hangars. 					
	Buildings and other structures having critical national defense functions.					
	 Water storage facilities and pump structures required to maintain water pressure for fire suppression. 					

5. Briefly explain your proposed amendment, including the purpose, benefits and problems addressed.

Specifically note any impacts or benefits to business, and specify construction types, industries and services

that would be affected. Finally, please note any potential impact on enforcement such as special reporting requirements or additional inspections required.

Reason statement:

The 2015 edition of the IBC has been changed to modify the educational and daycare uses for risk category III in Table 1604.5 to be occupancy based rather than "use" based (see S83-12 attached) as it was in the 2012 IBC. Buildings containing elementary school, secondary school or day care facilities has been changed to Group E occupancies. However, day care facilities are now classified in both Group E and Group I-4 occupancies. I-4 occupancies are not currently listed in Table 1604.5 which means that occupants attributed to I-4 will be classified under risk category II (Buildings and other structures except those listed in Risk Categories I, III and IV). This occurs even though the I-4 occupancy has a higher relative hazard compared to group E (see IEBC Table 1012.4 attached). The ICC Structural Committee that approved S83-12 may not have realized the loophole that was created when they supported this code change. For the safety of children who will be occupying these facilities, we suggest an emergency rule be approved to include I-4 in Table 1604.5 for Risk Category III as shown above.

S83-12 Table 1604.5

Proponent: William W. Stewart, FAIA, representing self (codedoc@sbcglobal.net)

Revise as follows:

TABLE 1604.5
RISK CATEGORY OF BUILDINGS AND OTHER STRUCTURES

RISK CATEGORY OF BUILDINGS AND OTHER STRUCTURES					
RISK CATEGORY	NATURE OF OCCUPANCY				
III	Buildings and other structures that represent a substantial hazard to human life in				
	the event of failure, including but not limited to:				
	Buildings and other structures whose primary occupancy is public assembly with				
	an occupant load greater than 300.				
	Buildings and other structures containing elementary school, secondary school or				
	day care facilities Group E occupancies with an occupant load greater than 250.				
	Buildings and other structures containing adult education facilities, such as				
	colleges and universities, educational occupancies for students above the 12th				
	grade with an occupant load greater than 500.				
	Group I-2 occupancies with an occupant load of 50 or more resident care				
	recipients but not having surgery or emergency treatment facilities.				
	Group I-3 occupancies.				
	Any other occupancy with an occupant load greater than 5,000°.				
	Power-generating stations, water treatment facilities for potable water, waste				
	water treatment facilities and other public utility facilities not included in Risk				
	Category IV.				
	Buildings and other structures not included in Risk Category IV containing				
	quantities of toxic or explosive materials that:				
	Exceed maximum allowable quantities per control area as given in Table 307.1(1)				
	or 307.1(2) or per outdoor control area in accordance with the International Fire				
	Code; and Are sufficient to pose a threat to the public if released ⁵.				
I					

(Portions of table not shown remain unchanged)

Reason: Consistency. The laundry list in the second bullet is exactly the same as the entire list of items that make up E Occupancies in 305. This just substitutes a defined term for a laundry list. My change has the added advantage of making it clearer that the 250 occupant load trigger applies to all, not just day care facilities.

The change in bullet 3 uses the words from 304. Current text says the same thing as in 304 but uses different words... Additionally it relieves the code from deciding which college freshmen are adults.

This change also makes it clear that trade schools are covered .

Cost Impact: The code change proposal will not increase the cost of construction.

1012.4 Means of egress, general.

Hazard categories in regard to life safety and means of egress shall be in accordance with Table 1012.4.

TABLE 1012.4
MEANS OF EGRESS HAZARD CATEGORIES

RELATIVE HAZARD	OCCUPANCY CLASSIFICATIONS			
1 (Highest Hazard)	Ι			
2	I-2, I-3, I-4			
3	A, E, I-1, M, R-1, R-2, R-4			
4	B, F-1, R-3, S-1			
5 (Lowest Hazard)	F-2, S-2, U			

Below is an example of how designers are using this loophole in the 2015 code. The combination of E and I-4 occupancies does not result in the building being assigned to higher risk category because the total number of E occupants in the building does not exceed 250 which is the threshold listed in Table 1604.5 for Risk Category III. In this example, a seismic retrofit would not be required for this daycare facility but it would be if I-4 were added to Table 1604.5. Adding I-4 to the Table will correct an unintended oversight and create safer structures for our most vulnerable building occupants.

FIRST FLOOR Reception 100	B Accessory to 1-4 Accessory to 1-4 Accessory to 1-4 B Accessory to 1-4 Accessory to 1-4 I-4 I-4 I-4 I-4 I-4 I-4 Accessory to 1-4	264 121 472 473 240 506 523 518 726 522 67 58 81 36	(IBC TABLE 1004.1.2) 100 300 100 100 100 355 35 200 200 100 100 100 100 100 100 100	(IBC 1004) 3 1 3 2 14 14 2 15 15 15 15 15 15 17 1 1 1 1 1 1 1 1 1	(WSDEL WAZC 170-295-0080) - 290 99 264 121 400 400 240 506 67 58 81 36 10 23 1059	(WSDEL WAC 1170-295-0 080) 50 50 50 35 35 35 35 35 35 35	8 8 8 13 14 14 20 14	Area Office Use Office and Publ Use Daycare Room Daycare Room Food Warming Kitchen Daycare Room Daycare Room Classroom Classroom Classroom Bulding Equipm Room Building Equipm Room Blevator Machine Elevator Machine
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Fire Alarm Room 106	I-4 Accessory to I-4 Accessory to I-4 Accessory to I-4 Accessory to I-4	81 36 10 23 1059	100 100 100 100	1 1 1 1 1 31	81 36 10 23			Building Equipm Room Elevator Machin Equipment Room
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Electrical Room	Accessory to I-4 Accessory to I-4	23 1059	100	1 31	23			
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SECOND FLOOR Storage 202			35	~ ~ \	1059			Building Electric Room
SECOND FLOOR Storage 202		4821		117				Circulation Space
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Storage 202				\rightarrow				
Storage 202								
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Resource Room 203 Staff Room 201 Early Preschool 207 Room 207 Room 210 Room 214 Room 214 Room 217 Preschool Room 217 Preschool Room 210 If Room 213	E E	729	20	37	713	35	20	Area Classroom
Staff Room 201	B Accessory	83	100	1	83			Accessory Store
Early Preschool 207 Room 210 Room 210 Room 214 Room 214 Preschool Room 217 Preschool Room 220 IT Room 213	to E B Accessory	187	100	2	187			Area Office Use
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IT Room 213	E	718	20	36	702	35	20	Classroom
	B Accessory	25	100	1	25		23	Accessory Store
Adult Restroom 204	to E Accessory to		100	1	51			Area Restroom
Shared Restroom 206	E Accessory to		100	1	100			Restroom
Child Restrooms 211, 212	E Accessory to	191	100 per	4	191			Restroom
215, 216 Child Restrooms 218, 219	E , Accessory to		restroom 100 per	4	191			Restroom
221, 222 Circulation			restroom 100	8				Circulation Space
TOTAL	E	4650		241	4554		120	
TOTAL		4000		291	4004		120	
				Maximum Occupano			Maximum Occupancy	
BUILDING TOTAL		9471		389	9115		211	
JULIAN TOTAL		94/1		503	5115			

6.	Specify what cr	riteria this pi	oposal meets	. You may se	lect more than on	e.										
The amendment is needed to address a critical life/safety need.																
The amendment is needed to address a specific state policy or statute. The amendment is needed for consistency with state or federal regulations.																
The amendment is needed to address a unique character of the state.																
The amendment corrects errors and omissions.																
7.	Is there an econ	nomic impac	t: 🗆 Yes 🏻 [⊠ No												
·•	Explain:	ionne impae	c	7 110												
		n I-4 occupanc	ies to Risk Cat	egory III in IB	C Table 1604 5 may	v result in an in	icrease to the									
Adding Group I-4 occupancies to Risk Category III in IBC Table 1604.5 may result in an increase to the environmental loading demands (seismic, wind, and snow) to buildings with day care facilities by as much as 25%. However, as stated above, the proposed change is intended to correct an oversight in the 2015 edition of th IBC when the ICC Structural Committee approved the S83-12 proposal. This proposal has no economic impact																
								when compared to the previous code cycle (2012 edition of the IBC).								
								r								
If there is an economic impact, use the Table below to estimate the costs and savings of the proposal																
on construction practices, users and/or the public, the enforcement community, and operation and																
				-	nate cost benefit a	•	a operation and									
	mamamam	ce. II preferre	a, you may so	ionni un unci	nace cost benefit t	inary 515.										
	Construction ¹		Enforcement ²		Operations & Maintenance ³											
E	Building Type	Costs	Benefits ⁴	Costs	Benefits ⁴	Costs	Benefits ⁴									
F	Residential															
	Single family															
	Multi-family															
(Commercial/Retail															

Please send your completed proposal to: sbcc@ga.wa.gov

All questions must be answered to be considered complete. Incomplete proposals will not be accepted.

Industrial Institutional

¹ \$ / square foot of floor area or other cost. Attach data. **Construction** costs are costs prior to occupancy, and include both design and direct construction costs that impact the total cost of the construction to the owner/consumer.

² Cost per project plan. Attach data. **Enforcement** costs include governmental review of plans, field inspection, and other action required for enforcement.

³ Cost to building owner/tenants over the life of the project.

⁴ Measurable benefit.