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(2) Meet, hear testimony, and advise the director on		51-20-002	Purpose. [Statutory Authority: Chapters 70.92 and 19.27 RCW. 92-01-145, § 51-20-002, filed 12/19/91, effective
proposed changes to the Mortgage Broker Practices Act;			7/1/92.] Repealed by 95-11-107, filed 5/23/95, effective
	Advise the director on approval of proposed courses		6/30/95. Statutory Authority: RCW 19.27.074, 19.27.020,
	and examinations to be administered in the course		19.27.031 and chapter 34.05 RCW.
	ng mortgage brokers;	51-20-003	Uniform Building Code. [Statutory Authority: Chapters
	Advise the director on preparation of the depart-		70.92 and 19.27 RCW. 92-01-145, § 51-20-003, filed 12/19/91, effective 7/1/92.] Repealed by 95-11-107, filed
	gislatively mandated review of the number and type		5/23/95, effective 6/30/95. Statutory Authority: RCW
	mer complaints arising from residential mortgage		19.27.074, 19.27.020, 19.27.031 and chapter 34.05 RCW.
	n the state, and any resulting recommendations for	51-20-004	Conflicts with Washington State Ventilation and Indoor
	in the licensing requirements of the Mortgage		Air Quality Code. [Statutory Authority: Chapters 70.92 and 19.27 RCW. 92-01-145, § 51-20-004, filed 12/19/91,
	ractices Act; and		effective 7/1/92.] Repealed by 95-11-107, filed 5/23/95,
	Advise the director on departmental policy and		effective 6/30/95. Statutory Authority: RCW 19.27.074,
	res regarding enforcement actions resulting from	51-20-005	19.27.020, 19.27.031 and chapter 34.05 RCW. Uniform Building Code requirements for barrier-free
violations	s of the Mortgage Broker Practices Act.	31-20-003	accessibility. [Statutory Authority: Chapters 70.92 and
	Authority: RCW 19.146.225. 95-13-091, § 50-60-210, filed		19.27 RCW. 92-01-145, § 51-20-005, filed 12/19/91,
6/21/95, eff	fective 7/22/95.]		effective 7/1/92.] Repealed by 95-11-107, filed 5/23/95,
			effective 6/30/95. Statutory Authority: RCW 19.27.074, 19.27.020, 19.27.031 and chapter 34.05 RCW.
		51-20-007	Exceptions. [Statutory Authority: Chapters 70.92 and
			19.27 RCW. 92-01-145, § 51-20-007, filed 12/19/91,
			effective 7/1/92.] Repealed by 95-11-107, filed 5/23/95,
	Title 51 WAC		effective 6/30/95. Statutory Authority: RCW 19.27.074, 19.27.020, 19.27.031 and chapter 34.05 RCW.
		51-20-008	Implementation. [Statutory Authority: Chapters 70.92
$\mathbb{B}$	UILDING CODE COUNCIL		and 19.27 RCW. 92-01-145, § 51-20-008, filed 12/19/91,
			effective 7/1/92.] Repealed by 95-11-107, filed 5/23/95,
Chanton	7		effective 6/30/95. Statutory Authority: RCW 19.27.074, 19.27.020, 19.27.031 and chapter 34.05 RCW.
Chapters		51-20-009	Recyclable materials and solid waste storage. [Statutory
51-20	State Building Code adoption and amend-		Authority: Chapters 70.92 and 19.27 RCW. 92-01-145,
	ment of the 1991 edition of the Uniform		§ 51-20-009, filed 12/19/91, effective 7/1/92.] Repealed by 95-11-107, filed 5/23/95, effective 6/30/95. Statutory
E1 01	Building Code adoption and amond		Authority: RCW 19.27.074, 19.27.020, 19.27.031 and
51-21	State Building Code adoption and amend- ment of the 1991 edition of the Uniform		chapter 34.05 RCW.
	Building Code standards.	51-20-0100	Chapter 1. [Statutory Authority: Chapters 70.92 and
51-22	State Building Code adoption and amend-		19.27 RCW. 92-01-145, § 51-20-0100, filed 12/19/91, effective 7/1/92.] Repealed by 95-11-107, filed 5/23/95,
31-22	ment of the 1991 edition of the Uniform		effective 6/30/95. Statutory Authority: RCW 19.27.074,
	Mechanical Code.		19.27.020, 19.27.031 and chapter 34.05 RCW.
51-24	State Building Code adoption and amend-	51-20-0104	Application to existing buildings and structures. [Statutory
C. m.	ment of the 1991 edition of the Uniform		Authority: Chapters 70.92 and 19.27 RCW. 92-01-145, § 51-20-0104, filed 12/19/91, effective 7/1/92.] Repealed
	Fire Code.		by 95-11-107, filed 5/23/95, effective 6/30/95. Statutory
51-25	State Building Code adoption of the 1991		Authority: RCW 19.27.074, 19.27.020, 19.27.031 and
	edition of the Uniform Fire Code stan-	51-20-0300	chapter 34.05 RCW. Chapter 3. [Statutory Authority: Chapters 70.92 and
	dards.	31-20-0300	19.27 RCW. 92-01-145, § 51-20-0300, filed 12/19/91,
51-30	State Building Code adoption and amend-		effective 7/1/92.] Repealed by 95-11-107, filed 5/23/95,
	ment of the 1994 edition of the Uniform		effective 6/30/95. Statutory Authority: RCW 19.27.074,
	Building Code.	51-20-0307	19.27.020, 19.27.031 and chapter 34.05 RCW. Structural observation. [Statutory Authority: Chapters
		22 20 0001	70.92 and 19.27 RCW. 92-01-145, § 51-20-0307, filed
	Ch 51 20 NA C		12/19/91, effective 7/1/92.] Repealed by 95-11-107, filed
	Chapter 51-20 WAC		5/23/95, effective 6/30/95. Statutory Authority: RCW
		51-20-0400	19.27.074, 19.27.020, 19.27.031 and chapter 34.05 RCW. Chapter 4. [Statutory Authority: Chapters 70.92 and
	ATE BUILDING CODE ADOPTION AND		19.27 RCW. 92-01-145, § 51-20-0400, filed 12/19/91,
AME	NDMENT OF THE 1991 EDITION OF THE		effective 7/1/92.] Repealed by 95-11-107, filed 5/23/95,
	UNIFORM BUILDING CODE		effective 6/30/95. Statutory Authority: RCW 19.27.074, 19.27.020, 19.27.031 and chapter 34.05 RCW.
WAC		51-20-0404	Section 404. [Statutory Authority: Chapters 70.92 and
51-20-001	through 51-20-93120 Repealed.		19.27 RCW. 92-01-145, § 51-20-0404, filed 12/19/91,
31-20-001	anough 31-20 33120 Repeated.		effective 7/1/92.] Repealed by 95-11-107, filed 5/23/95,
	DICDOCITION OF SECTIONS PODMEDI V		effective 6/30/95. Statutory Authority: RCW 19.27.074, 19.27.020, 19.27.031 and chapter 34.05 RCW.
	DISPOSITION OF SECTIONS FORMERLY CODIFIED IN THIS CHAPTER	51-20-0407	Section 407. [Statutory Authority: Chapters 70.92 and
51 20 001			19.27 RCW. 92-01-145, § 51-20-0407, filed 12/19/91,
51-20-001	Authority. [Statutory Authority: Chapters 70.92 and 19.27 RCW. 92-01-145, § 51-20-001, filed 12/19/91,		effective 7/1/92.] Repealed by 95-11-107, filed 5/23/95,
	effective 7/1/92.] Repealed by 95-11-107, filed 5/23/95,		effective 6/30/95. Statutory Authority: RCW 19.27.074, 19.27.020, 19.27.031 and chapter 34.05 RCW.
	effective 6/30/95. Statutory Authority: RCW 19.27.074,	51-20-0409	Section 409. [Statutory Authority: Chapters 70.92 and
	19.27.020, 19.27.031 and chapter 34.05 RCW.		19.27 RCW. 92-01-145, § 51-20-0409, filed 12/19/91,

	effective 7/1/92.] Repealed by 95-11-107, filed 5/23/95,		ity: RCW 19.27.074, 19.27.020, 19.27.031 and chapter
	effective 6/30/95. Statutory Authority: RCW 19.27.074, 19.27.020, 19.27.031 and chapter 34.05 RCW.	51-20-0802	34.05 RCW. Construction, height and allowable area. [Statutory
51-20-0414	Section 414. [Statutory Authority: Chapters 70.92 and		Authority: Chapters 70.92 and 19.27 RCW. 92-01-145,
	19.27 RCW. 92-01-145, § 51-20-0414, filed 12/19/91, effective 7/1/92.] Repealed by 95-11-107, filed 5/23/95,		§ 51-20-0802, filed 12/19/91, effective 7/1/92.] Repealed by 95-11-107, filed 5/23/95, effective 6/30/95. Statutory
	effective 6/30/95. Statutory Authority: RCW 19.27.074,		Authority: RCW 19.27.074, 19.27.020, 19.27.031 and
51-20-0417	19.27.020, 19.27.031 and chapter 34.05 RCW. Section 417. [Statutory Authority: Chapters 70.92 and	51-20-0900	chapter 34.05 RCW. Chapter 9. [Statutory Authority: Chapters 70.92 and
31 20 011,	19.27 RCW. 92-01-145, § 51-20-0417, filed 12/19/91,	31 20 0500	19.27 RCW. 92-01-145, § 51-20-0900, filed 12/19/91,
	effective 7/1/92.] Repealed by 95-11-107, filed 5/23/95, effective 6/30/95. Statutory Authority: RCW 19.27.074,		effective 7/1/92.] Repealed by 95-11-107, filed 5/23/95, effective 6/30/95. Statutory Authority: RCW 19.27.074,
	19.27.020, 19.27.031 and chapter 34.05 RCW.		19.27.020, 19.27.031 and chapter 34.05 RCW.
51-20-0420	Section 420. [Statutory Authority: Chapters 70.92 and 19.27 RCW. 92-01-145, § 51-20-0420, filed 12/19/91,	51-20-0901	Group H Occupancies defined. [Statutory Authority: Chapters 70.92 and 19.27 RCW. 92-01-145, § 51-20-
	effective 7/1/92.] Repealed by 95-11-107, filed 5/23/95,		0901, filed 12/19/91, effective 7/1/92.] Repealed by 95-
	effective 6/30/95. Statutory Authority: RCW 19.27.074, 19.27.020, 19.27.031 and chapter 34.05 RCW.		11-107, filed 5/23/95, effective 6/30/95. Statutory Authority: RCW 19.27.074, 19.27.020, 19.27.031 and chapter
51-20-0500	Chapter 5. [Statutory Authority: Chapters 70.92 and		34.05 RCW.
	19.27 RCW. 92-01-145, § 51-20-0500, filed 12/19/91, offsetive 7/1/02 1. Repealed by 95-11-107, filed 5/23/05	51-20-0902	Construction, height and allowable area. [Statutory Authority: Chapters 70.92 and 19.27 RCW. 92-01-145,
	effective 7/1/92.] Repealed by 95-11-107, filed 5/23/95, effective 6/30/95. Statutory Authority: RCW 19.27.074,		§ 51-20-0902, filed 12/19/91, effective 7/1/92.] Repealed
£1 20 0502	19.27.020, 19.27.031 and chapter 34.05 RCW.		by 95-11-107, filed 5/23/95, effective 6/30/95. Statutory
51-20-0503	Mixed occupancy. [Statutory Authority: Chapters 70.92 and 19.27 RCW. 92-01-145, § 51-20-0503, filed		Authority: RCW 19.27.074, 19.27.020, 19.27.031 and chapter 34.05 RCW.
	12/19/91, effective 7/1/92.] Repealed by 95-11-107, filed	51-20-1000	Chapter 10. [Statutory Authority: Chapters 70.92 and
	5/23/95, effective 6/30/95. Statutory Authority: RCW 19.27.074, 19.27.020, 19.27.031 and chapter 34.05 RCW.		19.27 RCW. 92-01-145, § 51-20-1000, filed 12/19/91, effective 7/1/92.] Repealed by 95-11-107, filed 5/23/95,
51-20-0514	Heating. [Statutory Authority: Chapters 70.92 and 19.27		effective 6/30/95. Statutory Authority: RCW 19.27.074,
	RCW. 92-01-145, § 51-20-0514, filed 12/19/91, effective 7/1/92.] Repealed by 95-11-107, filed 5/23/95, effective	51-20-1011	19.27.020, 19.27.031 and chapter 34.05 RCW. Suite concept. [Statutory Authority: Chapters 70.92 and
	6/30/95. Statutory Authority: RCW 19.27.074, 19.27.020,		19.27 RCW. 92-01-145, § 51-20-1011, filed 12/19/91,
51-20-0515	19.27.031 and chapter 34.05 RCW. Solid fuel burning devices. [Statutory Authority: Chap-		effective 7/1/92.] Repealed by 95-11-107, filed 5/23/95, effective 6/30/95. Statutory Authority: RCW 19.27.074,
	ters 70.92 and 19.27 RCW. 92-01-145, § 51-20-0515,	£1 20 1200	19.27.020, 19.27.031 and chapter 34.05 RCW.
	filed 12/19/91, effective 7/1/92.] Repealed by 95-11-107, filed 5/23/95, effective 6/30/95. Statutory Authority:	51-20-1200	Chapter 12. [Statutory Authority: Chapters 70.92 and 19.27 RCW. 92-01-145, § 51-20-1200, filed 12/19/91,
	RCW 19.27.074, 19.27.020, 19.27.031 and chapter 34.05		effective 7/1/92.] Repealed by 95-11-107, filed 5/23/95,
51-20-0551	RCW. Table No. 5-B—Required separation in buildings of mixed		effective 6/30/95. Statutory Authority: RCW 19.27.074, 19.27.020, 19.27.031 and chapter 34.05 RCW.
	occupancy. [Statutory Authority: Chapters 70.92 and	51-20-1201	Group R Occupancies defined. [Statutory Authority:
	19.27 RCW. 92-01-145, § 51-20-0551, filed 12/19/91, effective 7/1/92.] Repealed by 95-11-107, filed 5/23/95,		Chapters 70.92 and 19.27 RCW. 92-01-145, § 51-20-1201, filed 12/19/91, effective 7/1/92.] Repealed by 95-
	effective 6/30/95. Statutory Authority: RCW 19.27.074,		11-107, filed 5/23/95, effective 6/30/95. Statutory Author-
51-20-0600	19.27.020, 19.27.031 and chapter 34.05 RCW. Chapter 6. [Statutory Authority: Chapters 70.92 and		ity: RCW 19.27.074, 19.27.020, 19.27.031 and chapter 34.05 RCW.
	19.27 RCW. 92-01-145, § 51-20-0600, filed 12/19/91,	51-20-1210	Smoke detectors and sprinkler systems. [Statutory
	effective 7/1/92.] Repealed by 95-11-107, filed 5/23/95, effective 6/30/95. Statutory Authority: RCW 19.27.074,		Authority: Chapters 70.92 and 19.27 RCW. 92-01-145, § 51-20-1210, filed 12/19/91, effective 7/1/92.] Repealed
51 20 0605	19.27.020, 19.27.031 and chapter 34.05 RCW.		by 95-11-107, filed 5/23/95, effective 6/30/95. Statutory
51-20-0605	Light, ventilation and sanitation. [Statutory Authority: Chapters 70.92 and 19.27 RCW. 92-01-145, § 51-20-		Authority: RCW 19.27.074, 19.27.020, 19.27.031 and chapter 34.05 RCW.
	0605, filed 12/19/91, effective 7/1/92.] Repealed by 95-	51-20-1215	Family child day care homes. [Statutory Authority:
	11-107, filed 5/23/95, effective 6/30/95. Statutory Authority: RCW 19.27.074, 19.27.020, 19.27.031 and chapter		Chapters 70.92 and 19.27 RCW. 92-01-145, § 51-20-1215, filed 12/19/91, effective 7/1/92.] Repealed by 95-
£1 20 0700	34.05 RCW.		11-107, filed 5/23/95, effective 6/30/95. Statutory Author-
51-20-0700	Chapter 7. [Statutory Authority: Chapters 70.92 and 19.27 RCW. 92-01-145, § 51-20-0700, filed 12/19/91,		ity: RCW 19.27.074, 19.27.020, 19.27.031 and chapter 34.05 RCW.
	effective 7/1/92.] Repealed by 95-11-107, filed 5/23/95,	51-20-1223	Division II. Requirements for Group R, Division 4 and
	effective 6/30/95. Statutory Authority: RCW 19.27.074, 19.27.020, 19.27.031 and chapter 34.05 RCW.		Division 5 Occupancies. [Statutory Authority: Chapters 70.92 and 19.27 RCW. 92-01-145, § 51-20-1223, filed
51-20-0702	Construction, height and allowable area. [Statutory		12/19/91, effective 7/1/92.] Repealed by 95-11-107, filed
	Authority: Chapters 70.92 and 19.27 RCW. 92-01-145, § 51-20-0702, filed 12/19/91, effective 7/1/92.] Repealed		5/23/95, effective 6/30/95. Statutory Authority: RCW 19.27.074, 19.27.020, 19.27.031 and chapter 34.05 RCW.
	by 95-11-107, filed 5/23/95, effective 6/30/95. Statutory	51-20-1224	Construction, height and allowable area. [Statutory
	Authority: RCW 19.27.074, 19.27.020, 19.27.031 and chapter 34.05 RCW.		Authority: Chapters 70.92 and 19.27 RCW. 92-01-145, § 51-20-1224, filed 12/19/91, effective 7/1/92.] Repealed
51-20-0800	Chapter 8. [Statutory Authority: Chapters 70.92 and		by 95-11-107, filed 5/23/95, effective 6/30/95. Statutory
	19.27 RCW. 92-01-145, § 51-20-0800, filed 12/19/91, effective 7/1/92.] Repealed by 95-11-107, filed 5/23/95,		Authority: RCW 19.27.074, 19.27.020, 19.27.031 and chapter 34.05 RCW.
	effective 6/30/95. Statutory Authority: RCW 19.27.074,	51-20-1225	Location on property. [Statutory Authority: Chapters
51-20-0801	19.27.020, 19.27.031 and chapter 34.05 RCW. Group E Occupancies defined. [Statutory Authority:		70.92 and 19.27 RCW. 92-01-145, § 51-20-1225, filed 12/19/91, effective 7/1/92.] Repealed by 95-11-107, filed
	Chapters 70.92 and 19.27 RCW. 92-01-145, § 51-20-		5/23/95, effective 6/30/95. Statutory Authority: RCW
	0801, filed 12/19/91, effective 7/1/92.] Repealed by 95-11-107, filed 5/23/95, effective 6/30/95. Statutory Author-		19.27.074, 19.27.020, 19.27.031 and chapter 34.05 RCW.

51-20-1226	Exits and emergency escapes. [Statutory Authority: Chapters 70.92 and 19.27 RCW. 92-01-145, § 51-20-1226, filed 12/19/91, effective 7/1/92.] Repealed by 95-	51-20-2710	Steel structures resisting forces induced by earthquake motions in Seismic Zones Nos. 3 and 4. [Statutory Authority: Chapters 70.92 and 19.27 RCW. 92-01-145,
51-20-1227	11-107, filed 5/23/95, effective 6/30/95. Statutory Authority: RCW 19.27.074, 19.27.020, 19.27.031 and chapter 34.05 RCW. Light, ventilation and sanitation. [Statutory Authority:	ı	§ 51-20-2710, filed 12/19/91, effective 7/1/92.] Repealed by 95-11-107, filed 5/23/95, effective 6/30/95. Statutory Authority: RCW 19.27.074, 19.27.020, 19.27.031 and chapter 34.05 RCW.
31-20-1221	Chapters 70.92 and 19.27 RCW. 92-01-145, § 51-20-1227, filed 12/19/91, effective 7/1/92.] Repealed by 95-11-107, filed 5/23/95, effective 6/30/95. Statutory Authority: RCW 19.27.074, 19.27.020, 19.27.031 and chapter	51-20-3000	Chapter 30.5 KeW.  Chapter 30—Veneer. [Statutory Authority: Chapters 70.92 and 19.27 RCW. 92-01-145, § 51-20-3000, filed 12/19/91, effective 7/1/92.] Repealed by 95-11-107, filed 5/23/95, effective 6/30/95. Statutory Authority: RCW 19.27.074, 19.27.020, 19.27.031 and chapter 34.05 RCW.
51-20-1228	34.05 RCW. Yards and courts. [Statutory Authority: Chapters 70.92 and 19.27 RCW. 92-01-145, § 51-20-1228, filed 12/19/91, effective 7/1/92.] Repealed by 95-11-107, filed 5/23/95, effective 7/1/95. Statutory Authority: RCW	51-20-3007	Plastic veneer. [Statutory Authority: Chapters 70.92 and 19.27 RCW. 92-01-145, § 51-20-3007, filed 12/19/91, effective 7/1/92.] Repealed by 95-11-107, filed 5/23/95, effective 6/30/95. Statutory Authority: RCW 19.27.074,
51-20-1229	19.27.074, 19.27.020, 19.27.031 and chapter 34.05 RCW. Room dimensions. [Statutory Authority: Chapters 70.92 and 19.27 RCW. 92-01-145, § 51-20-1229, filed 12/19/91, effective 7/1/92.] Repealed by 95-11-107, filed 5/23/95, effective 6/30/95. Statutory Authority: RCW 19.27.074, 19.27.020, 19.27.031 and chapter 34.05 RCW.	51-20-3100	19.27.020, 19.27.031 and chapter 34.05 RCW. Chapter 31—Accessibility. [Statutory Authority: Chapters 70.92 and 19.27 RCW. 92-01-145, § 51-20-3100, filed 12/19/91, effective 7/1/92.] Repealed by 95-11-107, filed 5/23/95, effective 6/30/95. Statutory Authority: RCW 19.27.074, 19.27.020, 19.27.031 and chapter 34.05
51-20-1230	Section 1230. [Statutory Authority: Chapters 70.92 and 19.27 RCW. 92-01-145, § 51-20-1230, filed 12/19/91, effective 7/1/92.] Repealed by 95-11-107, filed 5/23/95, effective 6/30/95. Statutory Authority: RCW 19.27.074, 19.27.020, 19.27.031 and chapter 34.05 RCW.	51-20-3101	RCW. Scope. [Statutory Authority: Chapters 70.92 and 19.27 RCW. 92-01-145, § 51-20-3101, filed 12/19/91, effective 7/1/92.] Repealed by 95-11-107, filed 5/23/95, effective 6/30/95. Statutory Authority: RCW 19.27.074, 19.27.020,
51-20-1231	Shaft enclosures. [Statutory Authority: Chapters 70.92 and 19.27 RCW. 92-01-145, § 51-20-1231, filed 12/19/91, effective 7/1/92.] Repealed by 95-11-107, filed 5/23/95, effective 6/30/95. Statutory Authority: RCW 19.27.074, 19.27.020, 19.27.031 and chapter 34.05 RCW.	51-20-3102	19.27.031 and chapter 34.05 RCW. Definitions. [Statutory Authority: RCW 19.27.074 and 70.92.140. 93-01-166, § 51-20-3102, filed 12/23/92, effective 7/1/93. Statutory Authority: Chapters 70.92 and 19.27 RCW. 92-01-145, § 51-20-3102, filed 12/19/91,
51-20-1232	Fire alarm systems. [Statutory Authority: Chapters 70.92 and 19.27 RCW. 92-01-145, § 51-20-1232, filed 12/19/91, effective 7/1/92.] Repealed by 95-11-107, filed 5/23/95, effective 6/30/95. Statutory Authority: RCW	51-20-3103	effective 7/1/92.] Repealed by 95-11-107, filed 5/23/95, effective 6/30/95. Statutory Authority: RCW 19.27.074, 19.27.020, 19.27.031 and chapter 34.05 RCW. Building accessibility. [Statutory Authority: RCW
51-20-1233	19.27.074, 19.27.020, 19.27.031 and chapter 34.05 RCW. Heating. [Statutory Authority: Chapters 70.92 and 19.27 RCW. 92-01-145, § 51-20-1233, filed 12/19/91, effective 7/192.] Repealed by 95-11-107, filed 5/23/95, effective 6/30/95. Statutory Authority: RCW 19.27.074, 19.27.020, 19.27.031 and chapter 34.05 RCW.		19.27.074 and 70.92.140. 93-01-166, § 51-20-3103, filed 12/23/92, effective 7/1/93. Statutory Authority: Chapters 70.92 and 19.27 RCW. 92-01-145, § 51-20-3103, filed 12/19/91, effective 7/1/92.] Repealed by 95-11-107, filed 5/23/95, effective 6/30/95. Statutory Authority: RCW 19.27.074, 19.27.020, 19.27.031 and chapter 34.05 RCW.
51-20-1234	Special hazards. [Statutory Authority: Chapters 70.92 and 19.27 RCW. 92-01-145, § 51-20-1234, filed 12/19/91, effective 7/1/92.] Repealed by 95-11-107, filed 5/23/95, effective 6/30/95. Statutory Authority: RCW 19.27.074, 19.27.020, 19.27.031 and chapter 34.05 RCW.	51-20-3104	Egress and areas for evacuation assistance. [Statutory Authority: RCW 19.27.074 and 70.92.140. 93-01-166, § 51-20-3104, filed 12/23/92, effective 7/1/93. Statutory Authority: Chapters 70.92 and 19.27 RCW. 92-01-145, § 51-20-3104, filed 12/19/91, effective 7/1/92.] Repealed
51-20-1800	Chapter 18. [Statutory Authority: Chapters 70.92 and 19.27 RCW. 92-01-145, § 51-20-1800, filed 12/19/91, effective 7/1/92.] Repealed by 95-11-107, filed 5/23/95, effective 6/30/95. Statutory Authority: RCW 19.27.074, 19.27.020, 19.27.031 and chapter 34.05 RCW.	51-20-3105	by 95-11-107, filed 5/23/95, effective 6/30/95. Statutory Authority: RCW 19.27.074, 19.27.020, 19.27.031 and chapter 34.05 RCW. Facility accessibility. [Statutory Authority: RCW 19.27.074 and 70.92.140. 93-01-166, § 51-20-3105, filed
51-20-1807	Special provisions for Group B, Division 2 office buildings and Group R, Division 1 Occupancies. [Statutory Authority: Chapters 70.92 and 19.27 RCW. 92-01-145, § 51-20-1807, filed 12/19/91, effective 7/1/92.] Repealed by 95-11-107, filed 5/23/95, effective 6/30/95. Statutory Authority: RCW 19.27.074, 19.27.020, 19.27.031 and	51-20-3106	12/23/92, effective 7/1/93. Statutory Authority: Chapters 70.92 and 19.27 RCW. 92-01-145, § 51-20-3105, filed 12/19/91, effective 7/1/92.] Repealed by 95-11-107, filed 5/23/95, effective 6/30/95. Statutory Authority: RCW 19.27.074, 19.27.020, 19.27.031 and chapter 34.05 RCW. Section 3106. [Statutory Authority: RCW 19.27.074 and
51-20-2300	chapter 34.05 RCW. General design requirements. [Statutory Authority: Chapters 70.92 and 19.27 RCW. 92-01-145, § 51-20-2300, filed 12/19/91, effective 7/1/92.] Repealed by 95-11-107, filed 5/23/95, effective 6/30/95. Statutory Authority: RCW 19.27.074, 19.27.020, 19.27.031 and chapter		70.92.140. 93-01-166, § 51-20-3106, filed 12/23/92, effective 7/1/93. Statutory Authority: Chapters 70.92 and 19.27 RCW. 92-01-145, § 51-20-3106, filed 12/19/91, effective 7/1/92.] Repealed by 95-11-107, filed 5/23/95, effective 6/30/95. Statutory Authority: RCW 19.27.074, 19.27.020, 19.27.031 and chapter 34.05 RCW.
51-20-2312	34.05 RCW. Definitions for wind design. [Statutory Authority: Chapters 70.92 and 19.27 RCW. 92-01-145, § 51-20-2312, filed 12/19/91, effective 7/1/92.] Repealed by 95-11-107, filed 5/23/95, effective 6/30/95. Statutory Authority: RCW 19.27.074, 19.27.020, 19.27.031 and chapter 34.05 RCW.	51-20-3107	Parking facilities. [Statutory Authority: RCW 19.27.074 and 70.92.140. 93-01-166, § 51-20-3107, filed 12/23/92, effective 7/1/93. Statutory Authority: Chapters 70.92 and 19.27 RCW. 92-01-145, § 51-20-3107, filed 12/19/91, effective 7/1/92.] Repealed by 95-11-107, filed 5/23/95, effective 6/30/95. Statutory Authority: RCW 19.27.074, 19.27.020, 19.27.031 and chapter 34,05 RCW.
51-20-2700	Chapter 27. [Statutory Authority: Chapters 70.92 and 19.27 RCW. 92-01-145, § 51-20-2700, filed 12/19/91, effective 7/1/92.] Repealed by 95-11-107, filed 5/23/95, effective 6/30/95. Statutory Authority: RCW 19.27.074, 19.27.020, 19.27.031 and chapter 34.05 RCW.	51-20-3108	Passenger loading zones. [Statutory Authority: RCW 19.27.074 and 70.92.140. 93-01-166, § 51-20-3108, filed 12/23/92, effective 7/1/93. Statutory Authority: Chapters 70.92 and 19.27 RCW. 92-01-145, § 51-20-3108, filed 12/19/91, effective 7/1/92.] Repealed by 95-11-107, filed
			[1996 WAC Supp—page 69]

	5/23/95, effective 6/30/95. Statutory Authority: RCW		effective 7/1/92.] Repealed by 95-11-107, filed 5/23/95,
	19.27.074, 19.27.020, 19.27.031 and chapter 34.05 RCW.		effective 6/30/95. Statutory Authority: RCW 19.27.074,
51-20-3109	Scope. [Statutory Authority: RCW 19.27.074 and		19.27.020, 19.27.031 and chapter 34.05 RCW.
	70.92.140. 93-01-166, § 51-20-3109, filed 12/23/92,	51-20-3304	Doors. [Statutory Authority: Chapters 70.92 and 19.27
	effective 7/1/93. Statutory Authority: Chapters 70.92 and		RCW. 92-01-145, § 51-20-3304, filed 12/19/91, effective
	19.27 RCW. 92-01-145, § 51-20-3109, filed 12/19/91,		7/1/92.] Repealed by 95-11-107, filed 5/23/95, effective
	effective 7/1/92.] Repealed by 95-11-107, filed 5/23/95,		6/30/95. Statutory Authority: RCW 19.27.074, 19.27.020,
	effective 6/30/95. Statutory Authority: RCW 19.27.074,		19.27.031 and chapter 34.05 RCW.
** ** 0.0110	19.27.020, 19.27.031 and chapter 34.05 RCW.	51-20-3306	Stairways. [Statutory Authority: Chapters 70.92 and
51-20-3110	Definitions. [Statutory Authority: RCW 19.27.074 and		19.27 RCW. 92-01-145, § 51-20-3306, filed 12/19/91,
	70.92.140. 93-01-166, § 51-20-3110, filed 12/23/92,		effective 7/1/92.] Repealed by 95-11-107, filed 5/23/95,
	effective 7/1/93. Statutory Authority: Chapters 70.92 and		effective 6/30/95. Statutory Authority: RCW 19.27.074,
	19.27 RCW. 92-01-145, § 51-20-3110, filed 12/19/91,	51 20 2215	19.27.020, 19.27.031 and chapter 34.05 RCW.
	effective 7/1/92.] Repealed by 95-11-107, filed 5/23/95, effective 6/30/95. Statutory Authority: RCW 19.27.074,	51-20-3315	Aisles. [Statutory Authority: Chapters 70.92 and 19.27 RCW. 92-01-145, § 51-20-3315, filed 12/19/91, effective
	19.27.020, 19.27.031 and chapter 34.05 RCW.		7/1/92.] Repealed by 95-11-107, filed 5/23/95, effective
51-20-3111	Additions. [Statutory Authority: RCW 19.27.074 and		6/30/95. Statutory Authority: RCW 19.27.074, 19.27.020,
51 MO 5111	70.92.140. 93-01-166, § 51-20-3111, filed 12/23/92,		19.27.031 and chapter 34.05 RCW.
	effective 7/1/93. Statutory Authority: Chapters 70.92 and	51-20-3350	Section 3350. [Statutory Authority: Chapters 70.92 and
	19.27 RCW. 92-01-145, § 51-20-3111, filed 12/19/91,		19.27 RCW. 92-01-145, § 51-20-3350, filed 12/19/91,
	effective 7/1/92.] Repealed by 95-11-107, filed 5/23/95,		effective 7/1/92.] Repealed by 95-11-107, filed 5/23/95,
	effective 6/30/95. Statutory Authority: RCW 19.27.074,		effective 6/30/95. Statutory Authority: RCW 19.27.074,
	19.27.020, 19.27.031 and chapter 34.05 RCW.		19.27.020, 19.27.031 and chapter 34.05 RCW.
51-20-3112	Alterations. [Statutory Authority: RCW 19.27.074 and	51-20-3800	Chapter 38. [Statutory Authority: Chapters 70.92 and
	70.92.140. 93-01-166, § 51-20-3112, filed 12/23/92,		19.27 RCW. 92-01-145, § 51-20-3800, filed 12/19/91,
	effective 7/1/93. Statutory Authority: Chapters 70.92 and		effective 7/1/92.] Repealed by 95-11-107, filed 5/23/95,
	19.27 RCW. 92-01-145, § 51-20-3112, filed 12/19/91,		effective 6/30/95. Statutory Authority: RCW 19.27.074,
	effective 7/1/92.] Repealed by 95-11-107, filed 5/23/95,	£1 00 2001	19.27.020, 19.27.031 and chapter 34.05 RCW.
	effective 6/30/95. Statutory Authority: RCW 19.27.074, 19.27.020, 19.27.031 and chapter 34.05 RCW.	51-20-3801	Scope. [Statutory Authority: Chapters 70.92 and 19.27 RCW. 92-01-145, § 51-20-3801, filed 12/19/91, effective
51-20-3113	Historic preservation. [Statutory Authority: RCW]		7/1/92.] Repealed by 95-11-107, filed 5/23/95, effective
31-20 3113	19.27.074 and 70.92.140. 93-01-166, § 51-20-3113, filed		6/30/95. Statutory Authority: RCW 19.27.074, 19.27.020,
	12/23/92, effective 7/1/93. Statutory Authority: Chapters		19.27.031 and chapter 34.05 RCW.
	70.92 and 19.27 RCW. 92-01-145, § 51-20-3113, filed	51-20-3802	Automatic fire-extinguishing systems. [Statutory Authori-
	12/19/91, effective 7/1/92.] Repealed by 95-11-107, filed		ty: Chapters 70.92 and 19.27 RCW. 92-01-145, § 51-20-
	5/23/95, effective 6/30/95. Statutory Authority: RCW		3802, filed 12/19/91, effective 7/1/92.] Repealed by 95-
	19.27.074, 19.27.020, 19.27.031 and chapter 34.05 RCW.		11-107, filed 5/23/95, effective 6/30/95. Statutory Author-
51-20-3114	Appeal. [Statutory Authority: RCW 19.27.074 and		ity: RCW 19.27.074, 19.27.020, 19.27.031 and chapter
	70.92.140. 93-01-166, § 51-20-3114, filed 12/23/92,		34.05 RCW.
	effective 7/1/93. Statutory Authority: Chapters 70.92 and	51-20-3900	Chapter 39. [Statutory Authority: Chapters 70.92 and
	19.27 RCW. 92-01-145, § 51-20-3114, filed 12/19/91,		19.27 RCW. 92-01-145, § 51-20-3900, filed 12/19/91,
	effective 7/1/92.] Repealed by 95-11-107, filed 5/23/95,		effective 7/1/92.] Repealed by 95-11-107, filed 5/23/95,
	effective 6/30/95. Statutory Authority: RCW 19.27.074, 19.27.020, 19.27.031 and chapter 34.05 RCW.		effective 6/30/95. Statutory Authority: RCW 19.27.074, 19.27.020, 19.27.031 and chapter 34.05 RCW.
51-20-3151	Section 3151. [Statutory Authority: Chapters 70.92 and	51-20-3901	Scope. [Statutory Authority: Chapters 70.92 and 19.27
31 20 3131	19.27 RCW. 92-01-145, § 51-20-3151, filed 12/19/91,	31 20 3701	RCW. 92-01-145, § 51-20-3901, filed 12/19/91, effective
	effective 7/1/92.] Repealed by 95-11-107, filed 5/23/95,		7/1/92.] Repealed by 95-11-107, filed 5/23/95, effective
	effective 6/30/95. Statutory Authority: RCW 19.27.074,		6/30/95. Statutory Authority: RCW 19.27.074, 19.27.020,
	19.27.020, 19.27.031 and chapter 34.05 RCW.		19.27.031 and chapter 34.05 RCW.
51-20-3152	Section 3152. [Statutory Authority: Chapters 70.92 and	51-20-3903	Stages. [Statutory Authority: Chapters 70.92 and 19.27
	19.27 RCW. 92-01-145, § 51-20-3152, filed 12/19/91,		RCW. 92-01-145, § 51-20-3903, filed 12/19/91, effective
	effective 7/1/92.] Repealed by 95-11-107, filed 5/23/95,		7/1/92.] Repealed by 95-11-107, filed 5/23/95, effective
	effective 6/30/95. Statutory Authority: RCW 19.27.074,		6/30/95. Statutory Authority: RCW 19.27.074, 19.27.020,
	19.27.020, 19.27.031 and chapter 34.05 RCW.		19.27.031 and chapter 34.05 RCW.
51-20-3153	Section 3153. [Statutory Authority: Chapters 70.92 and	51-20-5100	Chapter 51. [Statutory Authority: Chapters 70.92 and
	19.27 RCW. 92-01-145, § 51-20-3153, filed 12/19/91,		19.27 RCW. 92-01-145, § 51-20-5100, filed 12/19/91,
	effective 7/1/92.] Repealed by 95-11-107, filed 5/23/95,		effective 7/1/92.] Repealed by 95-11-107, filed 5/23/95,
	effective 6/30/95. Statutory Authority: RCW 19.27.074, 19.27.020, 19.27.031 and chapter 34.05 RCW.		effective 6/30/95. Statutory Authority: RCW 19.27.074,
51-20-3154	Section 3154. [Statutory Authority: Chapters 70.92 and	51-20-5103	19.27.020, 19.27.031 and chapter 34.05 RCW. Delete section 5103, special provisions. [Statutory
31 20 3134	19.27 RCW. 92-01-145, § 51-20-3154, filed 12/19/91,	51-20-5105	Authority: Chapters 70.92 and 19.27 RCW. 92-01-145,
	effective 7/1/92.] Repealed by 95-11-107, filed 5/23/95,		§ 51-20-5103, filed 12/19/91, effective 7/1/92.] Repealed
	effective 6/30/95. Statutory Authority: RCW 19.27.074,		by 95-11-107, filed 5/23/95, effective 6/30/95. Statutory
	19.27.020, 19.27.031 and chapter 34.05 RCW.		Authority: RCW 19.27.074, 19.27.020, 19.27.031 and
51-20-3155	Section 3155. [Statutory Authority: Chapters 70.92 and		chapter 34.05 RCW.
	19.27 RCW. 92-01-145, § 51-20-3155, filed 12/19/91,	51-20-5105	Elevator machine room floors. [Statutory Authority:
	effective 7/1/92.] Repealed by 95-11-107, filed 5/23/95,		Chapters 70.92 and 19.27 RCW. 92-01-145, § 51-20-
	effective 6/30/95. Statutory Authority: RCW 19.27.074,		5105, filed 12/19/91, effective 7/1/92.] Repealed by 95-
£1.00.0151	19.27.020, 19.27.031 and chapter 34.05 RCW.		11-107, filed 5/23/95, effective 6/30/95. Statutory Author-
51-20-3156	Section 3156. [Statutory Authority: Chapters 70.92 and		ity: RCW 19.27.074, 19.27.020, 19.27.031 and chapter
	19.27 RCW. 92-01-145, § 51-20-3156, filed 12/19/91, effective 7/1/92 1. Repealed by 95-11-107, filed 5/23/95	51 20 5400	34.05 RCW. Chapter 54   Statutory Authority: Chapters 70.02 and
	effective 7/1/92.] Repealed by 95-11-107, filed 5/23/95, effective 6/30/95. Statutory Authority: RCW 19.27.074,	51-20-5400	Chapter 54. [Statutory Authority: Chapters 70.92 and 19.27 RCW. 92-01-145, § 51-20-5400, filed 12/19/91,
	19.27.020, 19.27.031 and chapter 34.05 RCW.		effective 7/1/92.] Repealed by 95-11-107, filed 5/23/95,
51-20-3300	Chapter 33. [Statutory Authority: Chapters 70.92 and		effective 6/30/95. Statutory Authority: RCW 19.27.074,
	19.27 RCW. 92-01-145, § 51-20-3300, filed 12/19/91,		19.27.020, 19.27.031 and chapter 34.05 RCW.
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51-20-5401	Scope. [Statutory Authority: Chapters 70.92 and 19.27		filed 5/23/95, effective 6/30/95. Statutory Authority:
	RCW. 92-01-145, § 51-20-5401, filed 12/19/91, effective		RCW 19.27.074, 19.27.020, 19.27.031 and chapter 34.05 RCW.
	7/1/92.] Repealed by 95-11-107, filed 5/23/95, effective	51-21-007	= ***
	6/30/95. Statutory Authority: RCW 19.27.074, 19.27.020,	31-21-007	Exceptions. [Statutory Authority: Chapters 70.92 and
£1 20 02100	19.27.031 and chapter 34.05 RCW.		19.27 RCW. 92-01-145, § 51-21-007, filed 12/19/91,
51-20-93100	Appendix chapter 31. [Statutory Authority: Chapters		effective 7/1/92.] Repealed by 95-11-107, filed 5/23/95,
	70.92 and 19.27 RCW. 92-01-145, § 51-20-93100, filed 12/19/91, effective 7/1/92.] Repealed by 95-11-107, filed		effective 6/30/95. Statutory Authority: RCW 19.27.074, 19.27.020, 19.27.031 and chapter 34.05 RCW.
	5/23/95, effective 6/30/95. Statutory Authority: RCW	51-21-008	Implementation. [Statutory Authority: Chapters 70,92]
	19.27.074, 19.27.020, 19.27.031 and chapter 34.05 RCW.	31-21-000	and 19.27 RCW. 92-01-145, § 51-21-008, filed 12/19/91,
51-20-93115	Section 3115. [Statutory Authority: Chapters 70.92 and		effective 7/1/92.] Repealed by 95-11-107, filed 5/23/95,
31-20-93113	19.27 RCW. 92-01-145, § 51-20-93115, filed 12/19/91,		effective 6/30/95. Statutory Authority: RCW 19.27.074.
	effective 7/1/92.] Repealed by 95-11-107, filed 5/23/95,		19.27.020, 19.27.031 and chapter 34.05 RCW.
	effective 6/30/95. Statutory Authority: RCW 19.27.074,	51-21-31010	UBC Standards No. 31-1. [Statutory Authority: Chapters
	19.27.020, 19.27.031 and chapter 34.05 RCW.		70.92 and 19.27 RCW. 92-01-145, § 51-21-31010, filed
51-20-93116	Section 3116. [Statutory Authority: Chapters 70.92 and		12/19/91, effective 7/1/92.] Repealed by 95-11-107, filed
	19.27 RCW. 92-01-145, § 51-20-93116, filed 12/19/91,		5/23/95, effective 6/30/95. Statutory Authority: RCW
	effective 7/1/92.] Repealed by 95-11-107, filed 5/23/95,		19.27.074, 19.27.020, 19.27.031 and chapter 34.05 RCW.
	effective 6/30/95. Statutory Authority: RCW 19.27.074,	51-21-38030	UBC Standards No. 38-3. [Statutory Authority: Chapters
	19.27.020, 19.27.031 and chapter 34.05 RCW.		70.92 and 19.27 RCW. 92-01-145, § 51-21-38030, filed
51-20-93117	Section 3117. [Statutory Authority: Chapters 70.92 and		12/19/91, effective 7/1/92.] Repealed by 95-11-107, filed
	19.27 RCW. 92-01-145, § 51-20-93117, filed 12/19/91,		5/23/95, effective 6/30/95. Statutory Authority: RCW
	effective 7/1/92.] Repealed by 95-11-107, filed 5/23/95,		19.27.074, 19.27.020, 19.27.031 and chapter 34.05 RCW.
	effective 6/30/95. Statutory Authority: RCW 19.27.074,	51-21-38038	Table 1-5.1. [Statutory Authority: Chapters 70.92 and
#1 <b>0</b> 0 00110	19.27.020, 19.27.031 and chapter 34.05 RCW.		19.27 RCW. 92-01-145, § 51-21-38038, filed 12/19/91,
51-20-93118	Section 3118. [Statutory Authority: Chapters 70.92 and		effective 7/1/92.] Repealed by 95-11-107, filed 5/23/95,
	19.27 RCW. 92-01-145, § 51-20-93118, filed 12/19/91,		effective 6/30/95. Statutory Authority: RCW 19.27.074,
	effective 7/1/92.] Repealed by 95-11-107, filed 5/23/95,	£1 01 00000	19.27.020, 19.27.031 and chapter 34.05 RCW.
	effective 6/30/95. Statutory Authority: RCW 19.27.074,	51-21-38039	Table 1-5.5. [Statutory Authority: Chapters 70.92 and
51-20-93119	19.27.020, 19.27.031 and chapter 34.05 RCW.		19.27 RCW. 92-01-145, § 51-21-38039, filed 12/19/91, effective 7/1/92.] Repealed by 95-11-107, filed 5/23/95,
31-20-93119	Section 3119. [Statutory Authority: RCW 19.27.074 and 70.92.140. 93-01-166, § 51-20-93119, filed 12/23/92,		effective 6/30/95. Statutory Authority: RCW 19.27.074,
	effective 7/1/93. Statutory Authority: Chapters 70.92 and		19.27.020, 19.27.031 and chapter 34.05 RCW.
	19.27 RCW. 92-01-145, § 51-20-93119, filed 12/19/91,		19.27.020, 19.27.031 and chapter 54.03 RCW.
	effective 7/1/92.] Repealed by 95-11-107, filed 5/23/95,		
	effective 6/30/95. Statutory Authority: RCW 19.27.074,	WAC:	51-21-001 through 51-21-38039 Repealed.
	19.27.020, 19.27.031 and chapter 34.05 RCW.	See Disposi	tion Table at beginning of this chapter.
51-20-93120	Section 3120. [Statutory Authority: RCW 19.27.074 and	•	
	70.92.140. 93-01-166, § 51-20-93120, filed 12/23/92,		
	effective 7/1/93. Statutory Authority: Chapters 70.92 and		Chapter 51-22 WAC
	19.27 RCW. 92-01-145, § 51-20-93120, filed 12/19/91,	CORD A PRO	*
		SCALA ALL	Chapter 51-22 WAC

WAC 51-20-001 through 51-20-93120 Repealed. See Disposition Table at beginning of this chapter.

effective 7/1/92.] Repealed by 95-11-107, filed 5/23/95,

effective 6/30/95. Statutory Authority: RCW 19.27.074, 19.27.020, 19.27.031 and chapter 34.05 RCW.

## Chapter 51-21 WAC

## STATE BUILDING CODE ADOPTION AND AMENDMENT OF THE 1991 EDITION OF THE UNIFORM BUILDING CODE STANDARDS

#### WAC

51-21-001 through 51-21-38039 Repealed.

#### DISPOSITION OF SECTIONS FORMERLY CODIFIED IN THIS CHAPTER

51-21-001	Authority. [Statutory Authority: Chapters 70.92 and 19.27 RCW. 92-01-145, § 51-21-001, filed 12/19/91,
	effective 7/1/92.] Repealed by 95-11-107, filed 5/23/95,
	effective 6/30/95. Statutory Authority: RCW 19.27.074,
	19.27.020, 19.27.031 and chapter 34.05 RCW.
51-21-002	Purpose. [Statutory Authority: Chapters 70.92 and 19.27
	RCW. 92-01-145, § 51-21-002, filed 12/19/91, effective
	7/1/92.] Repealed by 95-11-107, filed 5/23/95, effective
	6/30/95. Statutory Authority: RCW 19.27.074, 19.27.020,
	19.27.031 and chapter 34.05 RCW.
51-21-003	Uniform Building Code standards. [Statutory Authority:
	Chapters 70.92 and 19.27 RCW. 92-01-145, § 51-21-003,

filed 12/19/91, effective 7/1/92.] Repealed by 95-11-107,

## STATE BUILDING CODE ADOPTION AND AMENDMENT OF THE 1991 EDITION OF THE UNIFORM MECHANICAL CODE

WAC

51-22-001

51-22-002

51-22-003

51-22-004

51-22-001 through 51-22-1903 Repealed.

#### DISPOSITION OF SECTIONS FORMERLY CODIFIED IN THIS CHAPTER

CODIFIED IN THIS CHAPTER
Authority. [Statutory Authority: RCW 19.27.074, 19.27.031, 19.27A.070 through 19.27A.100, and chapters 19.27 and 19.27A RCW. 92-01-064, § 51-22-001, filed
12/13/91, effective 7/1/92.] Repealed by 95-11-107, filed
5/23/95, effective 6/30/95. Statutory Authority: RCW
19.27.074, 19.27.020, 19.27.031 and chapter 34.05 RCW.
Purpose. [Statutory Authority: RCW 19.27.074,
19.27.031, 19.27A.070 through 19.27A.100, and chapters
19.27 and 19.27A RCW. 92-01-064, § 51-22-002, filed
12/13/91, effective 7/1/92.] Repealed by 95-11-107, filed
5/23/95, effective 6/30/95. Statutory Authority: RCW
19.27.074, 19.27.020, 19.27.031 and chapter 34.05 RCW.
Uniform Mechanical Code. [Statutory Authority: RCW
19.27.074, 19.27.031, 19.27A.070 through 19.27A.100,
and chapters 19.27 and 19.27A RCW. 92-01-064, § 51-
22-003, filed 12/13/91, effective 7/1/92.] Repealed by 95-
11-107, filed 5/23/95, effective 6/30/95. Statutory Author-
ity: RCW 19.27.074, 19.27.020, 19.27.031 and chapter
34.05 RCW.
Conflict between Uniform Mechanical Code and State
Energy Code chapter 51-11 WAC. [Statutory Authority:
RCW 19.27.074, 19.27.031, 19.27A.070 through
19.27A.100, and chapters 19.27 and 19.27A RCW. 92-01-
064, § 51-22-004, filed 12/13/91, effective 7/1/92.]

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51-22-005	Repealed by 95-11-107, filed 5/23/95, effective 6/30/95. Statutory Authority: RCW 19.27.074, 19.27.020, 19.27.031 and chapter 34.05 RCW. Conflict between Uniform Mechanical Code and State Ventilation and Indoor Air Quality Code chapter 51-13 WAC. [Statutory Authority: RCW 19.27.074, 19.27.031, 19.27A.070 through 19.27A.100, and chapters 19.27 and 19.27A RCW. 92-01-064, § 51-22-005, filed 12/13/91, effective 7/1/92.] Repealed by 95-11-107, filed 5/23/95, effective 6/30/95. Statutory Authority: RCW 19.27.074, 19.27.020, 19.27.031 and chapter 34.05 RCW.	51-22-1100 51-22-1104	Chapter 11—Ventilation systems and product-conveying systems. [Statutory Authority: RCW 19.27.074, 19.27.031, 19.27A.070 through 19.27A.100, and chapters 19.27 and 19.27A RCW. 92-01-064, § 51-22-1100, filed 12/13/91, effective 7/1/92.] Repealed by 95-11-107, filed 5/23/95, effective 6/30/95. Statutory Authority: RCW 19.27.074, 19.27.020, 19.27.031 and chapter 34.05 RCW. Environmental air ducts. [Statutory Authority: RCW 19.27.074, 19.27.031, 19.27A.070 through 19.27A.100, and chapters 19.27 and 19.27A RCW. 92-01-064, § 51-22-1104, filed 12/13/91, effective 7/1/92.] Repealed by
51-22-007	Exceptions. [Statutory Authority: RCW 19.27.074, 19.27.031, 19.27A.070 through 19.27A.100, and chapters 19.27 and 19.27A RCW. 92-01-064, § 51-22-007, filed 12/13/91, effective 7/1/92.] Repealed by 95-11-107, filed 5/23/95, effective 6/30/95. Statutory Authority: RCW	51-22-1500	95-11-107, filed 5/23/95, effective 6/30/95. Statutory Authority: RCW 19.27.074, 19.27.020, 19.27.031 and chapter 34.05 RCW. Chapter 15—Mechanical refrigerating equipment. [Statutory Authority: RCW 19.27.074, 19.27.031, 19.27A.070
51-22-008	19.27.074, 19.27.020, 19.27.031 and chapter 34.05 RCW. Implementation. [Statutory Authority: RCW 19.27.074, 19.27.031, 19.27A.070 through 19.27A.100, and chapters 19.27 and 19.27A RCW. 92-01-064, § 51-22-008, filed 12/13/91, effective 7/1/92.] Repealed by 95-11-107, filed 5/23/95, effective 6/30/95. Statutory Authority: RCW	51-22-1508	through 19.27A.100, and chapters 19.27 and 19.27A RCW. 92-01-064, § 51-22-1500, filed 12/13/91, effective 7/1/92.] Repealed by 95-11-107, filed 5/23/95, effective 6/30/95. Statutory Authority: RCW 19.27.074, 19.27.020, 19.27.031 and chapter 34.05 RCW. Refrigeration machinery room ventilation. [Statutory
51-22-0400	19.27.074, 19.27.020, 19.27.031 and chapter 34.05 RCW. Chapter 4—Definitions and abbreviations. [Statutory Authority: RCW 19.27.074, 19.27.031, 19.27A.070 through 19.27A.100, and chapters 19.27 and 19.27A RCW. 92-01-064, § 51-22-0400, filed 12/13/91, effective 7/1/92.] Repealed by 95-11-107, filed 5/23/95, effective 6/30/95. Statutory Authority: RCW 19.27.074, 19.27.020,	51-22-1900	Authority: RCW 19.27.074, 19.27.031, 19.27A.070 through 19.27A.100, and chapters 19.27 and 19.27A RCW. 92-01-064, § 51-22-1508, filed 12/13/91, effective 7/1/92.] Repealed by 95-11-107, filed 5/23/95, effective 6/30/95. Statutory Authority: RCW 19.27.074, 19.27.020, 19.27.031 and chapter 34.05 RCW. Chapter 19—Miscellaneous heat-producing appliances.
51-22-0423	19.27.031 and chapter 34.05 RCW. U. [Statutory Authority: RCW 19.27.074, 19.27.031, 19.27A.070 through 19.27A.100, and chapters 19.27 and 19.27A RCW. 92-01-064, § 51-22-0423, filed 12/13/91, effective 7/1/92.] Repealed by 95-11-107, filed 5/23/95, effective 6/30/95. Statutory Authority: RCW 19.27.074, 19.27.020, 19.27.031 and chapter 34.05 RCW.	51-22-1903	[Statutory Authority: RCW 19.27.074, 19.27.031, 19.27A.070 through 19.27A.100, and chapters 19.27 and 19.27A RCW. 92-01-064, § 51-22-1900, filed 12/13/91, effective 7/1/92.] Repealed by 95-11-107, filed 5/23/95, effective 6/30/95. Statutory Authority: RCW 19.27.074, 19.27.020, 19.27.031 and chapter 34.05 RCW. Clothes dryers. [Statutory Authority: RCW 19.27.074,
51-22-0500	Chapter 5—Equipment—General. [Statutory Authority: RCW 19.27.074, 19.27.031, 19.27A.070 through 19.27A.100, and chapters 19.27 and 19.27A RCW. 92-01-064, § 51-22-0500, filed 12/13/91, effective 7/1/92.] Repealed by 95-11-107, filed 5/23/95, effective 6/30/95. Statutory Authority: RCW 19.27.074, 19.27.020, 19.27.031 and chapter 34.05 RCW.		19.27.031, 19.27A.070 through 19.27A.100, and chapters 19.27 and 19.27A RCW. 92-01-064, § 51-22-1903, filed 12/13/91, effective 7/1/92.] Repealed by 95-11-107, filed 5/23/95, effective 6/30/95. Statutory Authority: RCW 19.27.074, 19.27.020, 19.27.031 and chapter 34.05 RCW.
51-22-0504	Installation. [Statutory Authority: RCW 19.27.074, 19.27.031, 19.27A.070 through 19.27A.100, and chapters 19.27 and 19.27A RCW. 92-01-064, § 51-22-0504, filed 12/13/91, effective 7/1/92.] Repealed by 95-11-107, filed 5/23/95, effective 6/30/95. Statutory Authority: RCW 19.27.074, 19.27.020, 19.27.031 and chapter 34.05 RCW.	Disposition	51-22-001 through 51-22-1903 Repealed. See a Table at beginning of this chapter.  Chapter 51-24 WAC
51-22-0800	Chapter 8—Vented decorative appliances, floor furnaces, vented wall furnaces, unit heaters and room heaters. [Statutory Authority: RCW 19.27.074, 19.27.031, 19.27A.070 through 19.27A.100, and chapters 19.27 and 19.27A.070 through 19.27A.070 and 19.27A.070 through 19.27A.070 thro		TE BUILDING CODE ADOPTION AND DMENT OF THE 1991 EDITION OF THE UNIFORM FIRE CODE
•	19.27A RCW. 92-01-064, § 51-22-0800, filed 12/13/91, effective 7/1/92.] Repealed by 95-11-107, filed 5/23/95, effective 6/30/95. Statutory Authority: RCW 19.27.074, 19.27.020, 19.27.031 and chapter 34.05 RCW.	WAC 51-24-001	through 51-24-99510 Repealed.
51-22-0807	Room heaters. [Statutory Authority: RCW 19.27.074, 19.27.031, 19.27A.070 through 19.27A.100, and chapters 19.27 and 19.27A RCW. 92-01-064, § 51-22-0807, filed 12/13/91, effective 7/1/92.] Repealed by 95-11-107, filed 5/23/95, effective 6/30/95. Statutory Authority: RCW 19.27.074, 19.27.070, 19.27.073, and chapter 24.05 RCW	51-24-001	DISPOSITION OF SECTIONS FORMERLY CODIFIED IN THIS CHAPTER  Authority. [Statutory Authority: RCW 19.27.074, 19.27.031 and chapter 19.27 RCW, 92-01-065, § 51-24-001, filed 12/13/91, effective 7/1/92.] Repealed by 95-11-
51-22-1000	19.27.074, 19.27.020, 19.27.031 and chapter 34.05 RCW. Chapter 10—Ducts. [Statutory Authority: RCW 19.27.074, 19.27.031, 19.27A.070 through 19.27A.100, and chapters 19.27 and 19.27A RCW. 92-01-064, § 51-22-1000, filed 12/13/91, effective 7/1/92.] Repealed by	51-24-002	107, filed 5/23/95, effective 6/30/95. Statutory Authority: RCW 19.27.074, 19.27.020, 19.27.031 and chapter 34.05 RCW. Purpose. [Statutory Authority: RCW 19.27.074,
51-22-1002	95-11-107, filed 5/23/95, effective 6/30/95. Statutory Authority: RCW 19.27.074, 19.27.020, 19.27.031 and chapter 34.05 RCW.  Material. [Statutory Authority: RCW 19.27.074, 19.27.031, 19.27A.070 through 19.27A.100, and chapters		19.27.031 and chapter 19.27 RCW. 92-01-065, § 51-24-002, filed 12/13/91, effective 7/1/92.] Repealed by 95-11-107, filed 5/23/95, effective 6/30/95. Statutory Authority: RCW 19.27.074, 19.27.020, 19.27.031 and chapter 34.05 RCW.
	19.27 and 19.27 A RCW. 92-01-064, § 51-22-1002, filed 12/13/91, effective 7/1/92.] Repealed by 95-11-107, filed 5/23/95, effective 6/30/95. Statutory Authority: RCW 19.27.074, 19.27.020, 19.27.031 and chapter 34.05 RCW.	51-24-003	Uniform Fire Code. [Statutory Authority: RCW 19.27.074, 19.27.031 and chapter 19.27 RCW. 92-01-065, § 51-24-003, filed 12/13/91, effective 7/1/92.] Repealed by 95-11-107, filed 5/23/95, effective 6/30/95. Statutory

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	Authority: RCW 19.27.074, 19.27.020, 19.27.031 and	51-24-25000	Article 25. Places of assembly. [Statutory Authority:
	chapter 34.05 RCW.	01 21 2000	RCW 19.27.074, 19.27.031 and chapter 19.27 RCW. 92-
51-24-007	Exceptions. [Statutory Authority: RCW 19.27.074, 19.27.031 and chapter 19.27 RCW. 92-01-065, § 51-24-		01-065, § 51-24-25000, filed 12/13/91, effective 7/1/92.] Repealed by 95-11-107, filed 5/23/95, effective 6/30/95.
	007, filed 12/13/91, effective 7/1/92.] Repealed by 95-11-		Statutory Authority: RCW 19.27.074, 19.27.020,
	107, filed 5/23/95, effective 6/30/95. Statutory Authority: RCW 19.27.074, 19.27.020, 19.27.031 and chapter 34.05	51-24-25107	19.27.031 and chapter 34.05 RCW. Aisles. Section 25.107. [Statutory Authority: RCW]
	RCW.	012.2010.	19.27.074, 19.27.031 and chapter 19.27 RCW. 92-01-065,
51-24-008	Implementation. [Statutory Authority: RCW 19.27.074, 19.27.031 and chapter 19.27 RCW. 92-01-065, § 51-24-		§ 51-24-25107, filed 12/13/91, effective 7/1/92.] Repealed by 95-11-107, filed 5/23/95, effective 6/30/95. Statutory
	008, filed 12/13/91, effective 7/1/92.] Repealed by 95-11-	2	Authority: RCW 19.27.074, 19.27.020, 19.27.031 and
	107, filed 5/23/95, effective 6/30/95. Statutory Authority: RCW 19.27.074, 19.27.020, 19.27.031 and chapter 34.05	51-24-45000	chapter 34.05 RCW.  Article 45. Application of flammable finishes. [Statutory
	RCW.	31-24-43000	Authority: RCW 19.27.074, 19.27.031 and chapter 19.27
51-24-04000	Article 4. Permits. [Statutory Authority: RCW 19.27.074, 19.27.031 and chapter 19.27 RCW. 92-01-065,		RCW. 92-01-065, § 51-24-45000, filed 12/13/91, effective 7/1/92.] Repealed by 95-11-107, filed 5/23/95,
	§ 51-24-04000, filed 12/13/91, effective 7/1/92.] Repealed		effective 6/30/95. Statutory Authority: RCW 19.27.074,
	by 95-11-107, filed 5/23/95, effective 6/30/95. Statutory Authority: RCW 19.27.074, 19.27.020, 19.27.031 and	51-24-45211	19.27.020, 19.27.031 and chapter 34.05 RCW. Drying apparatus. Section 45.211. [Statutory Authority:
	chapter 34.05 RCW.	31-24-43211	RCW 19.27.074, 19.27.031 and chapter 19.27 RCW. 92-
51-24-04123	Table No. 4.108-C, Permit amounts for hazardous materials. (Statutory, Authority, PCW 19.27.074, 19.27.031 and		01-065, § 51-24-45211, filed 12/13/91, effective 7/1/92.] Repealed by 95-11-107, filed 5/23/95, effective 6/30/95.
	als. [Statutory Authority: RCW 19.27.074, 19.27.031 and chapter 19.27 RCW. 92-01-065, § 51-24-04123, filed		Statutory Authority: RCW 19.27.074, 19.27.020,
	12/13/91, effective 7/1/92.] Repealed by 95-11-107, filed	51 24 70000	19.27.031 and chapter 34.05 RCW.
	5/23/95, effective 6/30/95. Statutory Authority: RCW 19.27.074, 19.27.020, 19.27.03.1 and chapter 34.05 RCW.	51-24-78000	Article 78. [Statutory Authority: Chapter 19.27 RCW. 93-01-162, § 51-24-78000, filed 12/23/92, effective
51-24-09000	Article 9. Definitions and abbreviations. [Statutory		7/1/93.] Repealed by 95-11-107, filed 5/23/95, effective
	Authority: RCW 19.27.074, 19.27.031 and chapter 19.27 RCW. 92-01-065, § 51-24-09000, filed 12/13/91, effec-		6/30/95. Statutory Authority: RCW 19.27.074, 19.27.020, 19.27.031 and chapter 34.05 RCW.
	tive 7/1/92.] Repealed by 95-11-107, filed 5/23/95,	51-24-78201	General. [Statutory Authority: Chapter 19.27 RCW. 93-
	effective 6/30/95. Statutory Authority: RCW 19.27.074, 19.27.020, 19.27.031 and chapter 34.05 RCW.		01-162, § 51-24-78201, filed 12/23/92, effective 7/1/93.] Repealed by 95-11-107, filed 5/23/95, effective 6/30/95.
51-24-09105	Section 9.105. [Statutory Authority: RCW 19.27.074,		Statutory Authority: RCW 19.27.074, 19.27.020,
	19.27.031 and chapter 19.27 RCW. 92-01-065, § 51-24-09105, filed 12/13/91, effective 7/1/92.] Repealed by 95-	51-24-79000	19.27.031 and chapter 34.05 RCW.  Article 79. Flammable and combustible liquids. [Statuto-
	11-107, filed 5/23/95, effective 6/30/95. Statutory Author-		ry Authority: RCW 19.27.074, 19.27.031 and chapter
	ity: RCW 19.27.074, 19.27.020, 19.27.031 and chapter 34.05 RCW.		19.27 RCW. 92-01-065, § 51-24-79000, filed 12/13/91, effective 7/1/92.] Repealed by 95-11-107, filed 5/23/95,
51-24-09107	Section 9.107. [Statutory Authority: RCW 19.27.074,		effective 6/30/95. Statutory Authority: RCW 19.27.074,
	19.27.031 and chapter 19.27 RCW. 92-01-065, § 51-24-09107, filed 12/13/91, effective 7/1/92.] Repealed by 95-	51-24-79601	19.27.020, 19.27.031 and chapter 34.05 RCW. General. Section 79.601. [Statutory Authority: RCW
	11-107, filed 5/23/95, effective 6/30/95. Statutory Author-		19.27.074, 19.27.031 and chapter 19.27 RCW. 92-01-065,
	ity: RCW 19.27.074, 19.27.020, 19.27.031 and chapter 34.05 RCW.		§ 51-24-79601, filed 12/13/91, effective 7/1/92.] Repealed by 95-11-107, filed 5/23/95, effective 6/30/95. Statutory
51-24-09110	Section 9.110. [Statutory Authority: RCW 19.27.074,		Authority: RCW 19.27.074, 19.27.020, 19.27.031 and
	19.27.031 and chapter 19.27 RCW. 92-01-065, § 51-24-09110, filed 12/13/91, effective 7/1/92.] Repealed by 95-	51-24-79603	chapter 34.05 RCW. Corrosion protection. Section 79.603. [Statutory Authori-
	11-107, filed 5/23/95, effective 6/30/95. Statutory Author-		ty: RCW 19.27.074, 19.27.031 and chapter 19.27 RCW.
	ity: RCW 19.27.074, 19.27.020, 19.27.031 and chapter 34.05 RCW.		92-01-065, § 51-24-79603, filed 12/13/91, effective 7/1/92.] Repealed by 95-11-107, filed 5/23/95, effective
51-24-09117	Section 9.117. [Statutory Authority: RCW 19.27.074,		6/30/95. Statutory Authority: RCW 19.27.074, 19.27.020,
	19.27.031 and chapter 19.27 RCW. 92-01-065, § 51-24-09117, filed 12/13/91, effective 7/1/92.] Repealed by 95-	51-24-79809	19.27.031 and chapter 34.05 RCW. Unloading operations. Sec. 79.809. [Statutory Authority:
	11-107, filed 5/23/95, effective 6/30/95. Statutory Author-		RCW 19.27.074. 93-01-163, § 51-24-79809, filed
	ity: RCW 19.27.074, 19.27.020, 19.27.031 and chapter 34.05 RCW.		12/23/92, effective 7/1/93.] Repealed by 95-11-107, filed 5/23/95, effective 6/30/95. Statutory Authority: RCW
51-24-10000	Article 10. Fire protection. [Statutory Authority: RCW	£1 04 50001	19.27.074, 19.27.020, 19.27.031 and chapter 34.05 RCW.
	19.27.074, 19.27.031 and chapter 19.27 RCW. 92-01-065, § 51-24-10000, filed 12/13/91, effective 7/1/92.] Repealed	51-24-79901	General. Section 79.901. [Statutory Authority: RCW 19.27.074. 93-01-163, § 51-24-79901, filed 12/23/92,
	by 95-11-107, filed 5/23/95, effective 6/30/95. Statutory		effective 7/1/93.] Repealed by 95-11-107, filed 5/23/95,
	Authority: RCW 19.27.074, 19.27.020, 19.27.031 and chapter 34.05 RCW.		effective 6/30/95. Statutory Authority: RCW 19.27.074, 19.27.020, 19.27.031 and chapter 34.05 RCW.
51-24-10201	Section 10.201. General. [Statutory Authority: RCW	51-24-80000	Article 80. Hazardous materials. [Statutory Authority:
	19.27.074, 19.27.031 and chapter 19.27 RCW. 92-01-065, § 51-24-10201, filed 12/13/91, effective 7/1/92.] Repealed		RCW 19.27.074, 19.27.031 and chapter 19.27 RCW. 92-01-065, § 51-24-80000, filed 12/13/91, effective 7/1/92.]
	by 95-11-107, filed 5/23/95, effective 6/30/95. Statutory		Repealed by 95-11-107, filed 5/23/95, effective 6/30/95.
	Authority: RCW 19.27.074, 19.27.020, 19.27.031 and chapter 34.05 RCW.		Statutory Authority: RCW 19.27.074, 19.27.020, 19.27.031 and chapter 34.05 RCW.
51-24-10507	Required installations of automatic fire-extinguishing	51-24-80101	Scope. Section 80.101. [Statutory Authority: RCW
	systems. Section 10.507. [Statutory Authority: RCW 19.27.074, 19.27.031 and chapter 19.27 RCW. 92-01-065,		19.27.074, 19.27.031 and chapter 19.27 RCW. 92-01-065, § 51-24-80101, filed 12/13/91, effective 7/1/92.] Repealed
	§ 51-24-10507, filed 12/13/91, effective 7/1/92.] Repealed		by 95-11-107, filed 5/23/95, effective 6/30/95. Statutory
	by 95-11-107, filed 5/23/95, effective 6/30/95. Statutory Authority: RCW 19.27.074, 19.27.020, 19.27.031 and		Authority: RCW 19.27.074, 19.27.020, 19.27.031 and chapter 34.05 RCW.
	chapter 34.05 RCW.	51-24-80103	Permits. Section 80.103. [Statutory Authority: RCW
			19.27.074, 19.27.031 and chapter 19.27 RCW. 92-01-065,

	§ 51-24-80103, filed 12/13/91, effective 7/1/92.] Repealed by 95-11-107, filed 5/23/95, effective 6/30/95. Statutory Authority: RCW 19.27.074, 19.27.020, 19.27.031 and chapter 34.05 RCW.	51-24-80401	5/23/95, effective 6/30/95. Statutory Authority: RCW 19.27.074, 19.27.020, 19.27.031 and chapter 34.05 RCW. Section 80.401. [Statutory Authority: RCW 19.27.074, 19.27.031 and chapter 19.27 RCW. 92-01-065, § 51-24-
51-24-80108	Construction requirements. Section 80.108. [Statutory Authority: RCW 19.27.074, 19.27.031 and chapter 19.27 RCW. 92-01-065, § 51-24-80108, filed 12/13/91, effective 7/1/92.] Repealed by 95-11-107, filed 5/23/95,		80401, filed 12/13/91, effective 7/1/92.] Repealed by 95-11-107, filed 5/23/95, effective 6/30/95. Statutory Authority: RCW 19.27.074, 19.27.020, 19.27.031 and chapter 34.05 RCW.
51-24-80109	effective 6/30/95. Statutory Authority: RCW 19.27.074, 19.27.020, 19.27.031 and chapter 34.05 RCW. Personnel training and written procedures. Section 80.109. [Statutory Authority: RCW 19.27.074, 19.27.031 and	51-24-80402	Dispensing and use. Section 80.402. [Statutory Authority: RCW 19.27.074, 19.27.031 and chapter 19.27 RCW. 92-01-065, § 51-24-80402, filed 12/13/91, effective 7/1/92.] Repealed by 95-11-107, filed 5/23/95, effective
	chapter 19.27 RCW. 92-01-065, § 51-24-80109, filed 12/13/91, effective 7/1/92.] Repealed by 95-11-107, filed 5/23/95, effective 6/30/95. Statutory Authority: RCW 19.27.074, 19.27.020, 19.27.031 and chapter 34.05 RCW.	51-24-99500	6/30/95. Statutory Authority: RCW 19.27.074, 19.27.020, 19.27.031 and chapter 34.05 RCW. Division V. Standards. [Statutory Authority: RCW 19.27.074, 19.27.031 and chapter 19.27 RCW. 92-01-065,
51-24-80110	Section 80.110. [Statutory Authority: RCW 19.27.074, 19.27.031 and chapter 19.27 RCW. 92-01-065, § 51-24-80110, filed 12/13/91, effective 7/1/92.] Repealed by 95-11-107, filed 5/23/95, effective 6/30/95. Statutory Author-	<b>71 04 00740</b>	§ 51-24-99500, filed 12/13/91, effective 7/1/92.] Repealed by 95-11-107, filed 5/23/95, effective 6/30/95. Statutory Authority: RCW 19.27.074, 19.27.020, 19.27.031 and chapter 34.05 RCW.
	ity: RCW 19.27.074, 19.27.020, 19.27.031 and chapter 34.05 RCW.	51-24-99510	Appendix V-A. Nationally recognized standards of good practice. [Statutory Authority: RCW 19.27.074,
51-24-80111	Section 80.111. [Statutory Authority: RCW 19.27.074, 19.27.031 and chapter 19.27 RCW. 92-01-065, § 51-24-80111, filed 12/13/91, effective 7/1/92.] Repealed by 95-11-107, filed 5/23/95, effective 6/30/95. Statutory Authority: RCW 19.27.074, 19.27.020, 19.27.031 and chapter 34.05 RCW.		19.27.031 and chapter 19.27 RCW. 92-01-065, § 51-24-99510, filed 12/13/91, effective 7/1/92.] Repealed by 95-11-107, filed 5/23/95, effective 6/30/95. Statutory Authority: RCW 19.27.074, 19.27.020, 19.27.031 and chapter 34.05 RCW.
51-24-80113	Section 80.113. [Statutory Authority: RCW 19.27.074, 19.27.031 and chapter 19.27 RCW. 92-01-065, § 51-24-80113, filed 12/13/91, effective 7/1/92.] Repealed by 95-11-107, filed 5/23/95, effective 6/30/95. Statutory Authority: RCW 19.27.074, 19.27.020, 19.27.031 and chapter		51-24-001 through 51-24-99510 Repealed. tion Table at beginning of this chapter.
	34.05 RCW.		Chapter 51-25 WAC
51-24-80114	Section 80.114. Section 80.114. [Statutory Authority: RCW 19.27.074, 19.27.031 and chapter 19.27 RCW. 92-01-065, § 51-24-80114, filed 12/13/91, effective 7/1/92.] Repealed by 95-11-107, filed 5/23/95, effective 6/30/95. Statutory Authority: RCW 19.27.074, 19.27.020,		UILDING CODE ADOPTION OF THE 1991 ION OF THE UNIFORM FIRE CODE STANDARDS
51-24-80120	19.27.031 and chapter 34.05 RCW. Table No. 80.112-A. [Statutory Authority: RCW]	WAC	
		#1 0 # 001 J	1 51 65 000 5 1 1
	19.27.074, 19.27.031 and chapter 19.27 RCW. 92-01-065,	51-25-001 th	rough 51-25-008 Repealed.
		D	ISPOSITION OF SECTIONS FORMERLY CODIFIED IN THIS CHAPTER
51-24-80202	19.27.074, 19.27.031 and chapter 19.27 RCW. 92-01-065, § 51-24-80120, filed 12/13/91, effective 7/1/92.] Repealed by 95-11-107, filed 5/23/95, effective 6/30/95. Statutory Authority: RCW 19.27.074, 19.27.020, 19.27.031 and chapter 34.05 RCW. Hazard categories. Section 80.202. [Statutory Authority: RCW 19.27.074, 19.27.031 and chapter 19.27 RCW. 92-01-065, § 51-24-80202, filed 12/13/91, effective 7/1/92.] Repealed by 95-11-107, filed 5/23/95, effective 6/30/95. Statutory Authority: RCW 19.27.074, 19.27.020,		ISPOSITION OF SECTIONS FORMERLY
51-24-80202 51-24-80301	19.27.074, 19.27.031 and chapter 19.27 RCW. 92-01-065, § 51-24-80120, filed 12/13/91, effective 7/1/92.] Repealed by 95-11-107, filed 5/23/95, effective 6/30/95. Statutory Authority: RCW 19.27.074, 19.27.020, 19.27.031 and chapter 34.05 RCW. Hazard categories. Section 80.202. [Statutory Authority: RCW 19.27.074, 19.27.031 and chapter 19.27 RCW. 92-01-065, § 51-24-80202, filed 12/13/91, effective 7/1/92.] Repealed by 95-11-107, filed 5/23/95, effective 6/30/95. Statutory Authority: RCW 19.27.074, 19.27.020, 19.27.031 and chapter 34.05 RCW. General. Section 80.301. [Statutory Authority: RCW 19.27.074, 19.27.031 and chapter 19.27 RCW. 92-01-065, § 51-24-80301, filed 12/13/91, effective 7/1/92.] Repealed by 95-11-107, filed 5/23/95, effective 6/30/95. Statutory Authority: RCW 19.27.074, 19.27.031 and	D	ISPOSITION OF SECTIONS FORMERLY CODIFIED IN THIS CHAPTER  Authority. [Statutory Authority: RCW 19.27.074, 19.27.031 and chapter 19.27 RCW. 92-01-065, § 51-25-001, filed 12/13/91, effective 7/1/92.] Repealed by 95-11-107, filed 5/23/95, effective 6/30/95. Statutory Authority: RCW 19.27.074, 19.27.020, 19.27.031 and chapter 34.05 RCW.  Purpose. [Statutory Authority: RCW 19.27.074, 19.27.031 and chapter 19.27 RCW. 92-01-065, § 51-25-002, filed 12/13/91, effective 7/1/92.] Repealed by 95-11-107, filed 5/23/95, effective 6/30/95. Statutory Authority: RCW 19.27.074, 19.27.020, 19.27.031 and chapter 34.05
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51-24-80301	19.27.074, 19.27.031 and chapter 19.27 RCW. 92-01-065, § 51-24-80120, filed 12/13/91, effective 7/1/92.] Repealed by 95-11-107, filed 5/23/95, effective 6/30/95. Statutory Authority: RCW 19.27.074, 19.27.020, 19.27.031 and chapter 34.05 RCW. Hazard categories. Section 80.202. [Statutory Authority: RCW 19.27.074, 19.27.031 and chapter 19.27 RCW. 92-01-065, § 51-24-80202, filed 12/13/91, effective 7/1/92.] Repealed by 95-11-107, filed 5/23/95, effective 6/30/95. Statutory Authority: RCW 19.27.074, 19.27.020, 19.27.031 and chapter 34.05 RCW. General. Section 80.301. [Statutory Authority: RCW 19.27.074, 19.27.031 and chapter 19.27 RCW. 92-01-065, § 51-24-80301, filed 12/13/91, effective 7/1/92.] Repealed by 95-11-107, filed 5/23/95, effective 6/30/95. Statutory Authority: RCW 19.27.074, 19.27.031 and chapter 34.05 RCW. Toxic and highly toxic compressed gases. Section 80.303. [Statutory Authority: RCW 19.27.074, 19.27.031 and chapter 19.27 RCW. 92-01-065, § 51-24-80303, filed 12/13/91, effective 7/1/92.] Repealed by 95-11-107, filed 5/23/95, effective 6/30/95. Statutory Authority: RCW 19.27.074, 19.27.031 and chapter 19.27 RCW. 92-01-065, § 51-24-80303, filed 12/13/91, effective 6/30/95. Statutory Authority: RCW 19.27.074, 19.27.031 and chapter 34.05 RCW. Flammable solids and combustible dusts. Section 80.305. [Statutory Authority: RCW 19.27.074, 19.27.031 and	51-25-001 51-25-002	ISPOSITION OF SECTIONS FORMERLY CODIFIED IN THIS CHAPTER  Authority. [Statutory Authority: RCW 19.27.074, 19.27.031 and chapter 19.27 RCW. 92-01-065, § 51-25-001, filed 12/13/91, effective 7/1/92.] Repealed by 95-11-107, filed 5/23/95, effective 6/30/95. Statutory Authority: RCW 19.27.074, 19.27.020, 19.27.031 and chapter 34.05 RCW.  Purpose. [Statutory Authority: RCW 19.27.074, 19.27.031 and chapter 19.27 RCW. 92-01-065, § 51-25-002, filed 12/13/91, effective 7/1/92.] Repealed by 95-11-107, filed 5/23/95, effective 6/30/95. Statutory Authority: RCW 19.27.074, 19.27.020, 19.27.031 and chapter 34.05 RCW.  Uniform Fire Code standards. [Statutory Authority: RCW 19.27.074, 19.27.031 and chapter 19.27 RCW. 92-01-065, § 51-25-003, filed 12/13/91, effective 7/1/92.] Repealed by 95-11-107, filed 5/23/95, effective 6/30/95. Statutory Authority: RCW 19.27.074, 19.27.020, 19.27.031 and chapter 34.05 RCW.  Exceptions. [Statutory Authority: RCW 19.27.074, 19.27.031 and chapter 19.27 RCW. 92-01-065, § 51-25-003.
51-24-80301 51-24-80303	19.27.074, 19.27.031 and chapter 19.27 RCW. 92-01-065, § 51-24-80120, filed 12/13/91, effective 7/1/92.] Repealed by 95-11-107, filed 5/23/95, effective 6/30/95. Statutory Authority: RCW 19.27.074, 19.27.020, 19.27.031 and chapter 34.05 RCW.  Hazard categories. Section 80.202. [Statutory Authority: RCW 19.27.074, 19.27.031 and chapter 19.27 RCW. 92-01-065, § 51-24-80202, filed 12/13/91, effective 7/1/92.] Repealed by 95-11-107, filed 5/23/95, effective 6/30/95. Statutory Authority: RCW 19.27.074, 19.27.020, 19.27.031 and chapter 34.05 RCW.  General. Section 80.301. [Statutory Authority: RCW 19.27.074, 19.27.031 and chapter 19.27 RCW. 92-01-065, § 51-24-80301, filed 12/13/91, effective 7/1/92.] Repealed by 95-11-107, filed 5/23/95, effective 6/30/95. Statutory Authority: RCW 19.27.074, 19.27.031 and chapter 34.05 RCW.  Toxic and highly toxic compressed gases. Section 80.303. [Statutory Authority: RCW 19.27.074, 19.27.031 and chapter 19.27 RCW. 92-01-065, § 51-24-80303, filed 12/13/91, effective 7/1/92.] Repealed by 95-11-107, filed 5/23/95, effective 6/30/95. Statutory Authority: RCW 19.27.074, 19.27.031 and chapter 19.27 RCW. 92-01-065, § 51-24-80303, filed 12/13/91, effective 7/1/92.] Repealed by 95-11-107, filed 5/23/95, effective 6/30/95. Statutory Authority: RCW 19.27.074, 19.27.031 and chapter 19.27 RCW. 92-01-065, § 51-24-80305, filed 12/13/91, effective 7/1/92.] Repealed by 95-11-107, filed 5/23/95, effective 6/30/95. Statutory Authority: RCW 19.27.074, 19.27.031 and chapter 19.27 RCW. 92-01-065, § 51-24-80305, filed 12/13/91, effective 7/1/92.] Repealed by 95-11-107, filed 5/23/95, effective 6/30/95. Statutory Authority: RCW 19.27.074, 19.27.031 and chapter 19.27 RCW. 92-01-065, § 51-24-80305, filed 12/13/91, effective 6/30/95. Statutory Authority: RCW 19.27.074, 19.27.031 and chapter 19.27 RCW. 92-01-065, § 51-24-80305, filed 12/13/91, effective 6/30/95. Statutory Authority: RCW 19.27.074, 19.27.031 and chapter 19.27 RCW. 92-01-065, § 51-24-80305, filed 12/13/91, effective 6/30/95. Statutory Authority:	51-25-001 51-25-002 51-25-003	ISPOSITION OF SECTIONS FORMERLY CODIFIED IN THIS CHAPTER  Authority. [Statutory Authority: RCW 19.27.074, 19.27.031 and chapter 19.27 RCW. 92-01-065, § 51-25-001, filed 12/13/91, effective 7/1/92.] Repealed by 95-11-107, filed 5/23/95, effective 6/30/95. Statutory Authority: RCW 19.27.074, 19.27.020, 19.27.031 and chapter 34.05 RCW.  Purpose. [Statutory Authority: RCW 19.27.074, 19.27.031 and chapter 19.27 RCW. 92-01-065, § 51-25-002, filed 12/13/91, effective 7/1/92.] Repealed by 95-11-107, filed 5/23/95, effective 6/30/95. Statutory Authority: RCW 19.27.074, 19.27.020, 19.27.031 and chapter 34.05 RCW.  Uniform Fire Code standards. [Statutory Authority: RCW 19.27.074, 19.27.031 and chapter 19.27 RCW. 92-01-065, § 51-25-003, filed 12/13/91, effective 7/1/92.] Repealed by 95-11-107, filed 5/23/95, effective 6/30/95. Statutory Authority: RCW 19.27.074, 19.27.020, 19.27.031 and chapter 34.05 RCW.  Exceptions. [Statutory Authority: RCW 19.27.074, 19.27.031 and chapter 19.27 RCW. 92-01-065, § 51-25-007, filed 12/13/91, effective 7/1/92.] Repealed by 95-11-107, filed 5/23/95, effective 6/30/95. Statutory Authority: RCW 19.27.074, 19.27.031 and chapter 19.27 RCW. 92-01-065, § 51-25-007, filed 12/13/91, effective 7/1/92.] Repealed by 95-11-107, filed 5/23/95, effective 6/30/95. Statutory Authority: RCW 19.27.074, 19.27.031 and chapter 34.05 RCW.
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WAC 51-25-001 through 51-25-008 Repealed. See Disposition Table at beginning of this chapter.

#### Chapter 51-30 WAC

# STATE BUILDING CODE ADOPTION AND AMENDMENT OF THE 1994 EDITION OF THE UNIFORM

## OF THE 1994 EDITION OF THE UNIFORM BUILDING CODE

(Formerly chapters 51-20 and 51-21 WAC)

THE

WAC		
51-30	-3102	Section 3102.5.4.
51-30	-31200	Section 31,200.
51-30	-31201	Section 31,201—Definitions.
51-30	-31202	Section 31.202—Testing.
51-30	-31203	Section 31,203—Test protocol.
51-30	-31204	Section 31.204—Approval procedure for fireplaces.
51-30	-31205	Section 31,205—Approval of non-tested fireplaces.
51-30	-31206	Section 31.206—Approval through alternative test
		protocol.
51-30	-31207	Section 31,207—Approval termination.
51-30	-31208	Section 31.208—Quality control.
51-30	-31209	Section 31,209-Permanent label, temporary label and
		owner's manual.
51-30	-31210	Section 31.210—List of approved fireplaces.

#### WAC 51-30-3102 Section 3102.5.4.

3102.5.4 Emission Standards for Factory-built Fireplaces. After January 1, 1997, no new or used factory-built fireplace shall be installed in Washington State unless it is certified and labeled in accordance with procedures and criteria specified in the UBC Standard 31-2.

To certify an entire fireplace model line, the internal assembly shall be tested to determine its particulate matter emission performance. Retesting and recertifying is required if the design and construction specifications of the fireplace model line internal assembly change. Testing for certification shall be performed by a Washington State Department of Ecology (DOE) approved and U. S. Environmental Protection Agency (EPA) accredited laboratory.

3102.7.14 Emission Standards for Certified Masonry and Concrete Fireplaces. After January 1, 1997, new certified masonry or concrete fireplaces installed in Washington State shall be tested and labeled in accordance with procedures and criteria specified in the UBC Standard 31-2.

To certify an entire fireplace model line, the internal assembly shall be tested to determine its particulate matter emission performance. Retesting and recertifying is required if the design and construction specifications of the fireplace model line internal assembly change. Testing for certification shall be performed by a Washington State Department of Ecology (DOE) approved and U. S. Environmental Protection Agency (EPA) accredited laboratory.

[Statutory Authority: RCW 19.27.074(1) and RCW 70.94.457 (1)(b), (c). 96-01-120, § 51-30-3102, filed 12/20/95, effective 1/1/97.]

#### WAC 51-30-31200 Section 31.200.

UNIFORM BUILDING CODE STANDARD 31-2 STANDARD TEST METHOD FOR PARTICULATE EMISSIONS FROM FIREPLACES See Sections 3102.5.4 and 3102.7.14, Uniform Building Code

#### SECTION 31.200 - TITLE and SCOPE.

**SECTION 31.200.1 - TITLE.** This Appendix Chapter 31-2 shall be known as the "Washington State Standard Test Method for Particulate Emissions from Fireplaces" and may be cited as such; and will be referred to herein as "this Standard".

**SECTION 31.200.2 - SCOPE.** This Standard covers emissions performance, approval/certification procedures, test laboratory accreditation, record keeping, reporting requirements, and the test protocol for measuring particulate emissions from fireplaces.

All testing, reporting and inspection requirements of this Standard shall be conducted by a Washington State Department of Ecology (DOE) approved testing laboratory. In order to qualify for DOE approval, the test laboratory must be a U. S. Environmental Protection Agency (EPA) accredited laboratory (40 CFR Part 60, Subpart AAA). DOE may approve a test laboratory upon submittal of the following information:

- 1. A copy of their U. S. EPA accreditation certificate, and
- 2. A description of their facilities, test equipment, and test-personnel qualifications including education and work experience.

DOE may revoke a test laboratory approval when the test laboratory is no longer accredited by the U. S. EPA or if DOE determines that the test laboratory does not adhere to the testing requirements of this Chapter.

[Statutory Authority: RCW 19.27.074(1) and RCW 70.94.457 (1)(b), (c). 96-01-120, § 51-30-31200, filed 12/20/95, effective 1/1/97.]

WAC 51-30-31201 Section 31.201—Definitions. For the purpose of this Standard certain terms are defined as follows:

ANALYZER CALIBRATION ERROR is the difference between the gas concentration exhibited by the gas analyzer and the known concentration of the calibration gas when the calibration gas is introduced directly to the analyzer.

**BURN RATE** is the average rate at which test-fuel is consumed in a fireplace measured in kilograms of wood (dry basis) per hour (kg/hr) during a test-burn.

CALIBRATION DRIFT is the difference in the analyzer reading from the initial calibration response at a mid-range calibration value after a stated period of operation during which no unscheduled maintenance, repair, or adjustment took place.

**CALIBRATION GAS** is a known concentration of Carbon Dioxide ( $CO_2$ ), Carbon Monoxide (CO), or Oxygen ( $O_2$ ) in Nitrogen ( $O_2$ ).

**CERTIFICATION or AUDIT TEST** is the completion of at least one, three-fuel-load test-burn cycle in accordance with Section 31.202.

**FIREBOX** is the chamber in the fireplace in which a testfuel charge(s) is placed and combusted.

[1996 WAC Supp-page 75]

**FIREPLACE** is a wood burning device which is exempt from U. S. EPA 40 CFR Part 60, Subpart AAA and:

- 1. is not a cookstove, boiler, furnace, or pellet stove as defined in 40 CFR Part 60, Subpart AAA, and
- 2. is not a masonry heater as defined in Section 31.201, and
- 3. see Section 3102, Uniform Building Code for definitions of masonry and factory-built fireplaces as used in this Standard.

FIREPLACE DESIGN is the construction and/or fabrication specifications including all dimensions and materials required for manufacturing or building fireplaces with identical combustion function and particulate emissions factors.

**FIREPLACE MODEL LINE** is a series of fireplace models which all have the same internal assembly. Each model in a model line may have different facade designs and external decorative features.

FIREPLACE, CERTIFIED, is a fireplace that meets the emission performance standards when tested according to UBC Standard 31-2.

**FIREPLACE, NON-CERTIFIED**, (masonry or concrete) is any fireplace that is not a certified fireplace. A noncertified fireplace will be subject to applicable burn ban restrictions.

INTERNAL ASSEMBLY is the core construction and firebox design which produces the same function and emissions factor for a fireplace model line.

MASONRY HEATER is a wood burning device designed and intended for domestic space heating or domestic water heating, which meets the following criteria:

- 1. An appliance whose core is constructed primarily of manufacturer-built, supplied or specified masonry materials (i.e., stone, cemented aggregate, clay, tile, or other non-combustible non-metallic solid materials) which weigh at least 1,760 pounds (800 kg);
- 2. The firebox effluent travels horizontally and/or downward through one or more heat absorbing masonry duct(s) for a distance at least the length of the largest single internal firebox dimension before leaving the masonry heater;

## Where, for the purposes of this subparagraph:

2.1 Horizontal or downward travel distance is defined as the net horizontal and/or downward internal duct length, measured from the top of the uppermost firebox door opening(s) to the exit of the masonry heater as traveled by any effluent on a single pathway through duct channel(s) within the heater (or average net internal duct length for multiple pathways of different lengths, if applicable). Net internal duct length is measured from center of the internal side or top surface of a duct, horizontally or vertically to the center of the opposite side or the bottom surface of the same duct, and summed for multiple ducts or directions on a single pathway, if applicable. For duct channel(s) traversing horizontal angles of less than ninety degrees from vertical,

only the net actual horizontal distance traveled is included in the total duct length.

- 2.2 The largest single internal firebox dimension is defined as the longest of either the length or the width of the firebox hearth and the height of the firebox, measured from the floor of the combustion chamber (hearth) to the top of the uppermost firebox door opening(s).
- 3. The appliance has one or more air-controlling doors for fuel-loading which are designed to be closed during the combustion of fuel loads, and which control the entry of the combustion air (beyond simple spark arresting screen(s)) to one or more inlet(s) as prescribed by the masonry heater manufacturer. Manufacturer means a person who is engaged in the business of designing and constructing masonry heaters;
- 4. The appliance is assembled in conformance with the Underwriters' Laboratories-listed and/or manufacturer's specifications for its assembly and, if the core is constructed with a substantial proportion of materials not supplied by the manufacturer, and is certified by a representative of the manufacturer to be substantially in conformance with those specifications; and
- 5. The appliance has a label permanently affixed to the appliance stating that the appliance meets the criteria of this section and identifying its manufacturer and model.

**RESPONSE TIME** is the amount of time required for the measurement system to display 95 percent of a step change in gas concentration.

**SAMPLING SYSTEM BIAS** is the difference between the gas concentrations exhibited by the analyzer when a known concentration gas is introduced at the outlet of the sampling probe and when the sample gas is introduced directly to the analyzer.

**SPAN** is the upper limit of the gas concentration measurement range (25 percent for CO<sub>2</sub>, O<sub>2</sub>, and 5 percent for CO).

**TEST FACILITY** is the area in which the fireplace is installed, operated, and sampled for emissions.

**TEST FUEL LOADING DENSITY** is the weight of the asfired test-fuel charge per unit area of usable firebox floor (or hearth).

**TEST-BURN** is an individual emission test which encompasses the time required to consume the mass of three consecutively burned test-fuel charges.

**TEST-FUEL CHARGE** is the collection of test fuel pieces placed in the fireplace at the start of certification test.

**USABLE FIREBOX AREA** is the floor (or hearth) area, within the fire chamber of a fireplace upon which a fire may be, or is intended to be built. Usable firebox area is calculated using the following definitions:

- 1. Length. The longest horizontal fire chamber dimension along the floor of the firebox that is parallel to a wall of the fire chamber.
- 2. Width. The shortest horizontal fire chamber dimension along the floor of the firebox that is parallel to a wall of the fire chamber.

3. For angled or curved firebox walls and/or sides, the effective usable firebox area shall be determined by calculating the sum of standard geometric areas or sub-areas of the firebox floor.

If a fireplace has a floor area within the fire chamber which is larger than the area upon which it is intended that fuel be placed and burned, the usable firebox area shall be calculated as the sum of standard geometric areas or subareas of the area intended for fuel placement and burning. For fireplace grates which elevate the fuel above the firebox floor, usable firebox area determined in this manner shall be multiplied by a factor of 1.5. The weight of test-fuel charges for fireplace-grate usable-firebox-area tests, shall not exceed the weight of test-fuel charges determined for the entire fireplace floor area.

**ZERO DRIFT** is the difference in the analyzer reading from the initial calibration response at the zero concentration level after a stated period of operation during which no unscheduled maintenance, repair, or adjustment took place.

[Statutory Authority: RCW 19.27.074(1) and RCW 70.94.457 (1)(b), (c). 96-01-120, § 51-30-31201, filed 12/20/95, effective 1/1/97.]

#### WAC 51-30-31202 Section 31.202—Testing.

- 31.202.1 Applicability. This method is applicable for the certification and auditing of fireplace particulate emission factors. This method describes the test facility, fireplace installation requirements, test-fuel charges, and fireplace operation as well as procedures for determining burn rates and particulate emission factors.
- 31.202.2 Principle. Particulate matter emissions are measured from a fireplace burning prepared test-fuel charges in a test facility maintained at a set of prescribed conditions.

### 31.202.3 Test Apparatus.

- **31.202.3.1 Fireplace Temperature Monitors.** Device(s) capable of measuring flue-gas temperature to within 1.5 percent of expected absolute temperatures.
- 31.202.3.2 Test Facility Temperature Monitor. A thermocouple located centrally in a vertically oriented pipe shield 6 inches (150 mm) long, 2 inches (50 mm) diameter that is open at both ends, capable of measuring air temperature to within 1.5 percent of expected absolute temperatures.
- **31.202.3.3 Balance**. Balance capable of weighing the testfuel charge(s) to within 0.1 lb (0.05 kg).
- **31.202.3.4 Moisture Meter.** Calibrated electrical resistance meter for measuring test-fuel moisture to within 1 percent moisture content (dry basis).
- **31.202.3.5 Anemometer.** Device capable of detecting air velocities less than 20 ft/min (0.10 m/sec), for measuring air velocities near the fireplace being tested.
- **31.202.3.6 Barometer.** Mercury, aneroid or other barometer capable of measuring atmospheric pressure to within 0.1 inch Hg (2.5 mm Hg).
- 31.202.3.7 Draft Gauge. Electromanometer or other device for the determination of flue draft (i.e., static pressure) readable to within 0.002 inches of water column (0.50 Pa).

- 31.202.3.8 Combustion Gas Analyzer. Combustion gas analyzers for measuring Carbon Dioxide ( $CO_2$ ), Carbon Monoxide ( $CO_2$ ), and Oxygen ( $O_2$ ) in the fireplace exhaustgas stream must meet all of the following measurement system performance specifications:
- 1. Analyzer Calibration Error. Shall be less than  $\pm$  2 percent of the span value for the zero, mid-range, and high-range calibration gases.
- 2. Sampling System Bias. Shall be less than  $\pm$  5 percent of the span value for the zero, mid-range, and high-range calibration gases.
- 3. **Zero Drift**. Shall be less than  $\pm 3$  percent of the span over the period of each run.
- 4. Calibration Drift. Shall be less than  $\pm 3$  percent of the span value over the period of each run.
  - 5. Response Time. Shall be less than 1.5 minutes.
- **31.202.4 Emissions Sampling Method**. Use the emission sampler system (ESS) as described in Section 31.203.12 or an equivalent method as determined by the application of the U. S. EPA Method 301 Validation Procedure (Federal Register, December 12, 1992, Volume 57, Number 250, page 11998) and upon approval of DOE.
- 31.202.5 Fireplace Installation and Test Facility Requirements. The fireplace being tested must be constructed, if site-built, or installed, if manufactured, in accordance with the designer's/ manufacturer's written instructions. The chimney shall have a total vertical height above the base of the fire chamber of not less than 15 feet (4 600 mm). The fireplace chimney exit to the atmosphere must be freely communicating with the fireplace combustion makeup-air source. There shall be no artificial atmospheric pressure differential imposed between the chimney exit to the atmosphere and the fireplace makeup-air inlet.
- **31.202.6 Fireplace Aging and Curing.** A fireplace of any type shall be aged before certification testing begins. The aging procedure shall be conducted and documented by the testing laboratory.
- 31.202.6.1 Catalyst-Equipped Fireplaces. Operate the catalyst-equipped fireplace using fuel described in Section 31.203. Operate the fireplace with a new catalytic combustor in place and in operation for at least 50 hours. Record and report hourly catalyst exit temperatures, the hours of operation, and the weight of all fuel used.
- **31.202.6.2** Non-Catalyst-Equipped Fireplaces. Operate the fireplace using the fuel described in Section 31,203 for at least 10 hours. Record and report the hours of operation and weight of all fuel used.
- **31.202.7 Pretest Preparation**. Record the test-fuel charge dimensions, moisture content, weights, and fireplace (and catalyst if equipped) descriptions.

The fireplace description shall include photographs showing all externally observable features and drawings showing all internal and external dimensions needed for fabrication and/or construction. The drawings must be verified as representing the fireplace being tested and signed by an authorized representative of the testing laboratory.

31.202.8 Test Facility Conditions. Locate the test facility temperature monitor on the horizontal plane that includes the primary air intake opening for the fireplace. Locate the temperature monitor 3 to 6 feet (1 000 to 2 000 mm) from the front of the fireplace in the 90° sector in front of the fireplace. Test facility temperatures shall be maintained between 65° and 90°F (18° and 32°C). Use an anemometer to measure the air velocity. Measure and record the roomair velocity within 2 feet (600 mm) of the test fireplace before test initiation and once immediately following the test-burn completion. Air velocity shall be less than 50 feet/minute (250 mm/second) without the fireplace operating.

[Statutory Authority: RCW 19.27.074(1) and RCW 70.94.457 (1)(b), (c). 96-01-120, § 51-30-31202, filed 12/20/95, effective 1/1/97.]

#### WAC 51-30-31203 Section 31.203—Test protocol.

- 31.203.1 Test Fuel. Fuel shall be air dried Douglas fir dimensional lumber or cordwood without naturally associated bark. Fuel pieces shall not be less than 1/2 nor more than 5/6 of the length of the average fire chamber width. Fuel shall be split or cut into pieces with no cross-sectional dimension greater than 6 inches (152 mm). Spacers, if used, shall not exceed 3/4 inches (19 mm) in thickness and 15 percent of the test-fuel charge weight. Fuel moisture shall be in the range of 16 to 20 percent (wet basis) or 19 to 25 percent (dry basis) meter reading.
- 31.203.2 Test-Fuel Loading Density. The wet (with moisture) minimum weight of each test-fuel charge shall be calculated by multiplying the hearth area in square feet by 7.0 pounds per square foot (square meters x 0.30 kg/m²) (± 10 percent). Three test-fuel charges shall be prepared for each test-burn.
- 31.203.3 Kindling. The initial test-fuel charge of the three test-fuel charge test-burn shall be started by using a kindling-fuel charge which is up to 50 percent of the first test-fuel charge weight. Kindling-fuel pieces can be any size needed to start the fire or whatever is recommended in the manufacturer's (builder's) instructions to consumers. The kindling-fuel charge weight is not part of the initial test-fuel charge weight but is in addition to it.
- 31.203.4 Test-Burn Ignition. The fire can be started with or without paper. If used, the weight of the paper must be included in test-fuel charge weight. The remainder of the test-fuel charge may be added at any time after kindling ignition except that the entire first test-fuel charge must be added within 10 minutes after the start of the test (i.e., the time at which the flue-gas temperature at the 8-foot (2 440 mm) level is over 25°F (14°C) greater than the ambient temperature of the test facility).
- 31.203.5 Test Initiation. Emissions and flue-gas sampling are initiated immediately after the kindling has been ignited and when flue-gas temperatures in the center of the flue at an elevation of 8 feet (2 440 mm) above the base (floor) of the fire chamber reach 25°F (14°C) greater than the ambient temperature of the test facility.
- **31.203.6 Sampling Parameters.** Sampling (from the 8-foot (2 440 mm) flue-gas temperature measurement location) must include:

- 1. Particulate Emissions
- 2. Carbon Dioxide (CO<sub>2</sub>)<sup>1</sup>
- 3. Carbon Monoxide (CO)<sup>1</sup>
- 4. Oxygen  $(O_2)^1$
- 5. Temperature(s)
- These gases shall be measured on-line (real-time) and recorded at a frequency of not less than once every 5 minutes. These 5-minute readings are to be arithmetically averaged over the test-burn series or alternatively, a gas bag sample can be taken at a constant sample rate over the entire test-burn series and analyzed for the required gases within one hour of the end of the test-burn.

If a fireplace is equipped with an emissions control device which is located downstream from the 8-foot (2 440 mm) flue-gas temperature measurement location, a second temperature, particulate, and gaseous emissions sampling location must be located downstream from the emissions control device but not less than 4 flue diameters upstream from the flue exit to the atmosphere. The two sampling locations must be sampled simultaneously during testing for each fireplace configuration being tested.

31.203.7 Test-Fuel Additions and Test Completion. The second and third test-fuel charges for a test-burn may be placed and burned in the fire chamber at any time deemed reasonable by the operator or when recommended by the manufacturer's and/or builder's instructions to consumers.

No additional kindling may be added after the start of a test-burn series and the flue-gas temperature at the 8-foot (2 440 mm) level above the base of the hearth must always be 25°F (14°C) greater than the ambient temperature of the test facility for a valid test-burn series. Each entire test-fuel charge must be added within 10 minutes from the addition of the first piece.

A test (i.e., a three test-fuel charge test-burn series) is completed and all sampling and measurements are stopped when all three test-fuel charges have been consumed (to more than 90 percent by weight) in the firebox and the 8foot (2 440 mm) level flue-gas temperature drops below 25°F (14°C) greater than the ambient temperature of the test facility. Within 5 minutes after the test-burn is completed and all measurements and sampling has stopped, the remaining coals and/or unburned fuel, shall be extinguished with a carbon dioxide fire extinguisher. All of the remaining coals, unburned fuel, and ash shall be removed from the firebox and weighed to the nearest 0.1 pound (0.05 kg). The weight of these unburned materials and ash shall be subtracted from the total test-burn fuel weight when calculating the test-burn burn rate. A test-burn is invalid if less than 90 percent of the weight of the total test-fuel charges plus the kindling weight have been consumed in the fireplace firebox.

- 31.203.8 Test-Fuel Charge (Load) Adjustments. Test-fuel charges may be adjusted (i.e., repositioned) once during the burning of each test-fuel charge. The time used to make this adjustment shall be less than 15 seconds.
- 31.203.9 Air Supply Adjustment. Air supply controls, if the fireplace is equipped with controls, may not be adjusted during any test-burn series after the first 10 minutes of startup of each fuel load. All air supply settings must be set to the lowest level at the start of a test and shall remain at the lowest setting throughout a test-burn.

31.203.10 Auxiliary Fireplace Equipment Operation. Heat exchange blowers (standard or optional) sold with the fireplace shall be operated during all test-burns following the manufacturer's written instructions. If no manufacturer's written instructions are available, operate the heat exchange blower in the "high" position. (Automatically operated blowers shall be operated as designed.) Shaker grates, bypass controls, afterburners, or other auxiliary equipment may be adjusted only once per test-fuel charge following the manufacturer's written instructions. Record and report all adjustments on a fireplace operational written-record.

**31.203.11 Fireplace Configurations**. One, 3 test-fuel charge test-burn shall be conducted for each of the following fireplace operating configurations:

- 1. Door(s) closed, with hearth grate;
- 2. Door(s) open, with hearth grate;
- 3. Door(s) closed, without hearth grate;
- 4. Door(s) open, without hearth grate; and
- 5. With no doors, and draft inducer on.

No test-burn series is necessary for any configuration the appliance design cannot or is not intended to accommodate. If a configuration is not tested, the reason must be submitted with the test report and the appliance label must state that the appliance cannot be used in that configuration by consumer users.

One emission factor result, or one emission factor average, as provided in paragraph 31.203.11.2, from each fireplace configuration tested shall be compiled into an arithmetic average of all the configurations tested for determining compliance with the requirements of paragraph 31.204.2.

31.203.11.1 Closed-Door(s) Testing. For all closed-door test configurations, the door(s) must be closed within 10 minutes from the addition of the first test-fuel piece of each test-fuel charge in a test-burn. During a test-burn, the door(s) cannot be re-opened except during test-fuel reload and adjustment as referenced in Sections 31.203.7 and 31.203.8.

31.203.11.2 Additional Test-Burn. The testing laboratory may conduct more than one test-burn series for each of the applicable configurations specified in Section 31.203.11. If more than one test-burn is conducted for a specified configuration, the results from at least 2/3 of the test-burns for that configuration shall be used in calculating the arithmetic average emission factor for that configuration. The measurement data and results of all tests conducted shall be reported regardless of which values are used in calculating the average emission factor for that configuration.

#### 31.203.12 Emissions Sampling System (ESS).

31.203.12.1 Principle. Figure 31-2-1 shows a schematic of an ESS for sampling solid-fuel-fired fireplace emissions. Except as specified in Section 31.202.4, an ESS in this configuration shall be used to sample all fireplace emissions. The ESS shall draw flue gases through a 15 inch (380 mm) long, 3/8 inch (10 mm) O.D. stainless steel probe which samples from the center of the flue at an elevation which is

8 feet (2 440 mm) above the floor of the firebox (i.e., the hearth). A flue-gas sample shall then travel through a 3/8 inch (10 mm) O.D. Teflon® tube, and a heated U. S. EPA Method 5-type glass-fiber filter (40 CFR Part 60, Appendix A) for collection of particulate matter. The filter shall be followed by an in-line flow-through cartridge containing 20 grams of XAD-2 sorbent resin for collecting semi-volatile hydrocarbons. Water vapor shall then be removed from the sampled gas by a silica-gel trap. Flue-gas oxygen concentrations, which shall be used to determine the ratio of flue-gas volume to the amount of fuel burned, are measured within the ESS system by an electrochemical cell meeting the performance specifications presented in Section 31.202.3.8 (1.).

The ESS shall use a critical orifice to maintain a nominal flue-gas sampling rate of 0.035 cfm (0.0167 liters per second). The actual flow rate through each critical orifice shall be determined to within 0.000354 cubic feet (0.01 liters) per second before and after each test-burn with a bubble flow meter to document exact sampling rates. The post-test-burn critical-orifice flow-rate determinations shall be performed before the ESS is dismantled for sample recovery and clean-up. Pre-test-burn and post-test-burn critical-orifice flow-rate measurements shall be within 0.0000117 cubic feet (0.00033 liters) per second of each other or the test-burn emissions results shall be invalid. Temperatures shall be monitored using type K ground-isolated, stainless-steel-sheathed thermocouples.

The ESS unit shall return particle-free and dry exhaust gas to the flue via a 1/4 inch (6 mm) Teflon® line and a 15 inch (380 mm) stainless steel probe inserted into the flue. A subsample aliquot of the flue-gas sample-gas stream exiting the ESS unit, shall be pumped into a 1 cubic foot (29 liter) Tedlar® bag for measuring the average carbon dioxide, carbon monoxide, and confirmation of average oxygen concentrations for the test period. Flow to the subsample gas bag shall be controlled by a solenoid valve connected to the main pump circuit and a fine-adjust needle-controlled flow valve. The solenoid valve shall be open only when the pump is activated, allowing the subsample gas to be pumped into the gas bag at all times when the ESS pump is on. The rate of flow into the bag shall be controlled by the fineadjust metering needle-valve which is adjusted at setup so that 4.7 to 5.2 gal (18 to 20 liters) of gas is collected over the entire 3 test-fuel charge test-burn without over-pressurizing the gas sample bag.

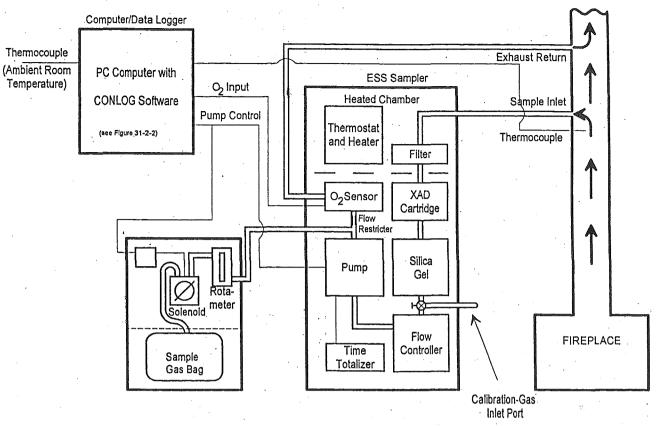


Figure 31-2-1. Schematic of ESS/Data Logger system.

31.203.12.2 The Data Acquisition and Control System. The data acquisition and control system for the ESS is shown in Figure 31-2-2. This system consists of a personal computer (PC) containing an analog-to-digital data processing board (12-bit precision), a terminal (connection) box, and specialized data acquisition and system control software (called CONLOG).

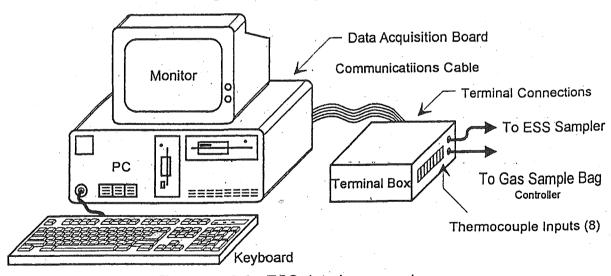


Figure 31-2-2. ESS data logger system.

For fireplace testing, the CONLOG software is configured to control, collect, and store the following data:

- 1. Test-period starting and ending times and dates, and total length of sampling period,
- 2. Pump-cycle on/off, cycle length and thermocouple (TC) cycle recording interval (frequency),
- 3. Temperature records, including flue-gas and ambient temperatures, averaged over pre-selected intervals,
- 4. Date, times, and weights of each added fuel load, and
- 5. Flue-gas oxygen measurements taken during each sample cycle.

During testing, instantaneous readings of real-time data shall be displayed on the system status screen. These data shall include the date, time, temperatures for each of the TCs, and flue-gas oxygen concentrations. The most recent 15 sets of recorded data shall also be displayed.

Flue-gas sampling and the recording of flue-gas oxygen concentrations shall only occur when flue-gas temperatures are above 25°F (14°C) greater than the ambient temperature of the test facility. Temperatures and fueling shall always be recorded at five-minute intervals regardless of flue-gas temperature. The ESS sampling-pump operating cycle shall be adjustable as described in Section 31.203.12.3.

31.203.12.3 ESS Sampling-Pump Operating Cycle. The ESS sampling-pump operating cycle shall be adjusted to accommodate variable test-fuel charge sizes, emission factors, and the length of time needed to complete a testburn series. The sampler-pump operation shall be adjustable from 1 second to 5 minutes (100 percent) "on" for every 5minute test-burn data-recording interval. This will allow adjustment for the amount of anticipated emissions materials that will be sampled and deposited on the ESS filter, XAD-2, and the other system components. It is recommended that the minimum sample quantities stipulated in Section 31.203.12.4 be used to calculate the appropriate pump cycle "on" and "off" periods. It should be noted that if the sampler collects too much particulate material on the filter and in the XAD-2 cartridge, the unit may fail the sample flow calibration check required at the end of each test-burn.

31.203.12.4 Minimum Sample Quantities. For each complete 3 test-fuel charge test-burn, the ESS must catch a minimum total particulate material mass of at least 0.231 grains (15 mg). Alternatively, the ESS must sample a minimum of 10 cubic feet (283 liters) during each 3 test-fuel charge test-burn. If this volume cannot be sampled in the test-burn time period, two ESS samplers must be utilized to sample fireplace emissions simultaneously during each test-burn. If emissions results from the two ESSs are different by more than 10 percent of the lower emissions-factor result, the test-burn results are invalid. An arithmetic average is calculated for test-burn results when two ESSs are utilized.

## 31.203.12.5 Equipment Preparation and Sample Processing Procedures.

31.203.12.5.1. Prior to emissions testing, the ESS unit shall be prepared with a new, tared glass-fiber filter and a clean XAD-2 sorbent-resin cartridge. Within 3 hours after testing is completed, the stainless steel sampling probe, Teflon® sampling line, filter holder, and XAD-2 cartridge(s) shall be removed from the test site and transported to the laboratory for processing. Each component of the ESS sampler shall be processed as follows:

- 1. Filter: The glass fiber filter (4 inches (102 mm) in diameter) shall be removed from the ESS filter housing and placed in a petri dish for desiccation and gravimetric analysis.
- 2. XAD-2 sorbent-resin cartridge: The sorbent-resin cartridge shall be extracted in a Soxhlet extractor with dichloromethane for 24 hours. The extraction solution shall be transferred to a tared glass beaker and evaporated in an

ambient-air dryer. The beaker with dried residue shall then be desiccated to constant weight (less than  $\pm$  0.5 mg change within a 2-hour period), and the extractable residue shall be weighed.

3. ESS hardware: All hardware components which are in the flue-gas sample stream (stainless steel probe, Teflon® sampling line, stainless steel filter housing, and all other Teflon® and stainless steel fittings) through the top of the sorbent-resin cartridge, shall be cleaned with a solvent mixture of 50 percent dichloromethane and 50 percent methanol. The cleaning solvent solutions shall be placed in tared glass beakers, evaporated in an ambient-air dryer, desiccated to constant weight (less than  $\pm$  0.5 mg change within a 2-hour period), and weighed.

EPA Method 5H procedures (40 CFR Part 60, Appendix A) for desiccation and weighing time intervals shall be followed for steps 1 through 3 above.

31.203.12.5.2 The ESS shall be serviced both at the start and end of a fireplace testing period. During installation, leak checks shall be performed; the thermocouples, fuel-weighing scale, and oxygen-cell shall be calibrated, and the data logger shall be programmed. At the end of the test period, final calibration, and leak-check procedures shall again be performed, and the ESS sampling line, filter housing, XAD-2 cartridge, sampling probe, and Tedlar® bag shall be removed, sealed, and transported to the laboratory for analysis. If the pre-test and post-test leak checks of the ESS system exceed 0.00033 liters per second, the test-burn emission results shall be invalid.

## 31.203.12.6 Data Processing and Quality Assurance.

31.203.12.6.1 Upon returning to the laboratory facilities, the data file (computer disk) shall be reviewed to check for proper equipment operation. The data-logger data files, log books, and records maintained by field staff shall be reviewed to ensure sample integrity.

The computer-logged data file shall be used in conjunction with the ESS particulate samples and sample-gas bag analyses to calculate the emission factor, emission rate, and fireplace operational parameters. An example ESS results report is presented in Table 31-2-A.

**31.203.12.6.2 Burning Period**. The total burning period is calculated by:

Total Burning Period = (Length of each sample cycle) x (Number of flue temperature readings over 25°F (14°C) greater than the ambient temperature of the test facility).

#### WHERE

- 1. Length of each sample cycle: The time between each temperature recording as configured in the CONLOG software settings (standardized at 5 minutes).
- 2. Number of flue temperature readings during fireplace use: The total number of temperature readings when the calibrated temperature value was more than 25°F (14°C) greater than the ambient temperature of the test facility.

## 31.203.12.6.3 Particulate Emissions.

31.203.12.6.3.1 ESS Particulate Emission Factor. The equation for the total ESS particulate emission factor for

each test-burn presented below produces reporting units of grams per dry kilogram of fuel burned (g/kg):

> Particulate emission factor (g/kg) =(Particulate Catch) x (Stoichiometric Volume) x (Flue-gas Dilution Factor) (Sampling Time) x (Sampling Rate)

#### WHERE:

- 1. Particulate Catch: The total mass, in grams, of particulate material caught on the filter, in the XAD-2 resin cartridge (semi-volatile compounds); and in the probe cleanup and rinse solutions.
- 2. Stoichiometric Volume: Stoichiometric volume is the volume of dry air needed to completely combust one dry kilogram of fuel with no "excess air". This value is determined by using a chemical reaction balance between the specific fuel being used and the chemical components of air.

The stoichiometric volume for Douglas fir is 86.78 cubic feet per pound (5 404 liters per dry kilogram) at 68°F (20°C) and 29.92 inches (760 mm) of mercury pressure.

3. Flue-gas Dilution Factor: The degree to which the sampled combustion gases have been diluted in the flue by air in excess of the stoichiometric volume (called excess air). The dilution factor is obtained by using the average sampled carbon dioxide and carbon monoxide values obtained from the sample gas bag analyses and the following equation.

$$18.53 + \left(1 - \left(\frac{(CO_2 + 1/2 CO)}{18.53}\right)\right) \times 2.37$$

Flue-Gas Dilution Factor =

$$(CO_2 + 1/2 CO)$$

Multiplying the g/kg emission factor by the burn rate (dry kg/hr) yields particulate emissions in grams per hour (g/hr). Burn rate

> Burn Rate (kg/hr) = Total Fuel (kg)

is calculated by the following equation:

Total Burn Period (hours)

#### WHERE:

Total Fuel is the total fuel added during the entire testburn minus the remaining unburned materials at the end of the test-burn.

- 4. Sampling Time: The number of minutes the sampler pump operated during the total test-burn period.
- 5. Sampling Rate: Sampling rate is controlled by the critical orifice installed in the sampler. The actual calibrated sampling rate is used here.

31.203.12.6.3.2 EPA Method 5H Particulate Emissions. ESS-measured emissions factors submitted to DOE for approval must first be converted to U. S. EPA Method 5H equivalents. The ESS particulate emissions factor results obtained in Section 31.203.12.6.1 are converted to be equivalent to the U.S. EPA Method 5H emissions factor results by the following equation:

$$1.254 + (0.302 \text{ x PEF}) + (1.261 \text{ x } 10^{-\text{PEF}})$$

### WHERE:

PEF is the ESS-measured particulate emission factor for a test-burn.

31.203.12.6.4 CO Emissions. The carbon monoxide (CO) emission factor equation produces grams of CO per dry kilogram of fuel burned. The grams per kilogram equation includes some equation components described above.

CO emission factor (g/kg) = (Fraction CO) x (Stoich. Volume) x (Dilution Factor) x (Molecular Weight of CO) (24.45 L/mole)

#### WHERE:

1. Fraction CO: The fraction of CO measured in the gas sampling bag.

Note: Percent CO divided by 100 gives the fraction CO.

2. Molecular Weight of CO: The gram molecular weight of CO, 28 pounds per pound-mole (28.0 g/g-mole).

Multiplying the results of the above equation by the burn rate (dry kg/hr) yields the grams per hour (g/hr) CO emission rate.

#### Table 31-2-A **Example ESS Data Results Format**

## **ESS Emission Results**

**Test Facility Location:** XXXX Test Laboratory: XXXX Test-Burn Number: XXXX Start Time/Date: XXXX End Time/Date: XXXX Fireplace Model: XXXX

TIME

**Total Test Period** 152.3 hours **CARBON MONOXIDE EMISSIONS** Total Burn Time 64.6 hours Gram / Kilogram 48.0 g/kg 42.4 % Gram / Hour Flue > 25 Degrees F 64.0 g/hr  $1.25 \text{ g/m}^3$ Gram / Cubic Meter above ambient temperature

**ESS SETTINGS** 

275 °F **ESS Sample Rate** 1.004 I/min Fuel-Gas Temperatures 5.0 min 135 °C « Sample Cycle Sample Time / Sample Cycle 0.443 min Flue Exit Temperature 308 °F 154 °C **Test Facility Ambient Temperature** 66 °F

**AVERAGE TEMPERATURES** 

19 °C

**TEST FUEL** 

Total Fuel Used (wet weight) 101.3 kg 17.7 % Ave. Fuel Moisture (dry basis) **AVERAGE FLUE-GAS CONCENTRATIONS** Total Fuel Used (dry weight) 86.1 kg Flue Oxygen (SE) 18.15 % Average Test-Fuel Charge 14.5 kg Flue Oxygen (gas bag or analyzer) 18.05 % Average Burn Rate 1.33 dry Flue CO (gas bag or analyzer) 0.10 % ka/hr Flue CO2 (gas bag or analyzer) 2.60 %

PARTICULATE EMISSIONS (EPA Method 5H

Equivalents) Gram / Kilogram 2.6 g/kg Gram / Hour 3.4 g/hr  $0.06 \text{ g/m}^3$ Gram / Cubic Meter

**BREAKDOWN OF ESS PARTICULATE SAMPLE** Rinse 25.5 mg XAD 6.3 mg Filter 15.7 mg Blank 0.0 mg TOTAL 47.4 mg

Notes:

NM = Not Measured, NA = Not Applicable, NU = Not Used

Total time flue temperature greater than 25°F over ambient temperature.

## TEST PERFORMED BY: XYZ Testing International, Olympia Washington, 98504

#### 31.203.13 Calibrations.

31.203.13.1 Balance. Before each certification test, the balance used for weighing test-fuel charges shall be audited

by weighing at least one calibration weight (Class F) that corresponds to 20 percent to 80 percent of the expected testfuel charge weight. If the scale cannot reproduce the value of the calibration weight within 0.1 lb (0.05 kg) or 1 percent of the expected test-fuel charge weight, whichever is greater,

- re-calibrate the scale before use with at least five calibration weights spanning the operational range of the scale.
- **31.203.13.2 Temperature Monitor**. Calibrate the temperature monitor before the first certification test and semiannually thereafter.
- 31.203.13.3 Fuel Moisture Meter. Calibrate the fuel moisture meter as per the manufacturer's instructions before each certification test.
- **31.203.13.4 Anemometer**. Calibrate the anemometer as specified by the manufacturer's instructions before the first certification test and semiannually thereafter.
- **31.203.13.5 Barometer.** Calibrate the barometer against a mercury barometer before the first certification test and semiannually thereafter.
- **31.203.13.6 Draft Gauge**. Calibrate the draft gauge as per the manufacturer's instructions; a liquid manometer does not require calibration.
- **31.203.13.7 ESS**. The ESS shall be calibrated as specified in Section 31.203.12.1.
- 31.203.14 Reporting Criteria. Submit both raw and reduced data for all fireplace tests. Specific reporting requirements are as follows:
- 31.203.14.1 Fireplace Identification. Report fireplace identification information including manufacturer, model, and serial number. Include a copy of fireplace installation and operation manuals.
- 31.203.14.2 Test Facility Information. Report test facility location, temperature, and air velocity information.
- 31.203.14.3 Test Equipment Calibration and Audit Information. Report calibration and audit results for the test-fuel balance, test-fuel moisture meter, analytical balance, and sampling equipment including volume metering systems and gaseous analyzers.
- 31.203.14.4 Pretest Information and Conditions. Report all pretest conditions including test-fuel charge weight, fireplace temperatures, and air supply settings.
- 31.203.14.5 Particulate Emission Data. Report a summary of test results for all test-burns conducted and the arithmetically averaged emission factor for all test-burns used for certification. Submit copies of all data sheets and other records collected during the testing. Submit examples of all calculations.
- 31.203.14.6 Required Test Report Information and Suggested Format. Test report information requirements to be provided to DOE for approval/certification of fireplaces are presented in this Standard. The requirements are presented here in a recommended report format.

#### 31.203.14.6.1 Introduction.

- 1. Purpose of test: Certification or audit.
- 2. Fireplace identification: Manufacturer, model number, catalytic/non-catalytic, and options. Include a copy of fireplace installation and operation manuals.
  - 3. Laboratory: Name, location, and participants.

4. Test information: Date fireplace was received, date of tests, sampling methods used, and number of test-burns.

### 31.203.14.6.2 Summary and Discussion of Results.

- 1. Table of results: Test-burn number, burn rate, particulate emission factor (in U. S. EPA Method 5H equivalents), efficiency (if determined), and averages (indicate which test-burns are used).
- 2. Summary of other data: Test facility conditions, surface temperature averages, catalyst temperature averages, test-fuel charge weights, and test-burn times.
- 3. Discussion: Specific test-burn problems and solutions.

### 31.203.14.6.3 Process Description.

- 1. Fireplace dimensions: Volume, height, width, lengths (or other linear dimensions), weight, and hearth area.
- 2. Firebox configuration: Air supply locations and operation, air supply introduction location, refractory location and dimensions, catalyst location, baffle and by-pass location and operation (include line drawings and photographs).
- 3. Process operation during test: Air supply settings and adjustments, fuel bed adjustments, and draft.
- 4. Test fuel: Test fuel properties (moisture and temperature), test fuel description (include line drawing or photograph), and test fuel charge density.
- 31.203.14.6.4 Sampling Locations. Describe sampling location relative to fireplace. Include linedrawings and photographs.

## 31.203.14.6.5 Sampling and Analytical Procedures.

- 1. Sampling methods: Brief reference to operational and sampling procedures, and optional and alternative procedures used.
- 2. Analytical methods: Brief description of sample recovery and analysis procedures.

## 31.203.14.6.6 Quality Control and Assurance Procedures and Results.

- 1. Calibration procedures and results: Certification, sampling, and analysis procedures.
- 2. Test method quality control procedures: Leak-checks, volume-meter checks, stratification (velocity) checks, and proportionality results.

### 31.203.14.6.7 Appendices.

- 1. **Results and Example Calculations.** Include complete summary tables and accompanying examples of all calculations.
- 2. Raw Data. Include copies of all uncorrected data sheets for sampling measurements, temperature records, and sample recovery data. Include copies of all burn rate and fireplace temperature data.
- 3. Sampling and Analytical Procedures. Include detailed description of procedures followed by laboratory personnel in conducting the certification test, emphasizing

particularly, parts of the procedures differing from the prescribed methods (e.g., DOE approved alternatives).

- 4. Calibration Results. Summary of all calibrations, checks, and audits pertinent to certification test results including dates.
- 5. **Participants.** Test personnel, manufacturer representatives, and regulatory observers.
- 6. Sampling and Operation Records. Copies of uncorrected records of activities not included on raw data sheets (e.g., fireplace door open times and durations).
- 7. Additional Information. Fireplace manufacturer's written instructions for operation during the certification test and copies of the production-ready (print-ready) temporary and permanent labels required in Section 31.208 shall be included in the test report prepared by the test laboratory.

#### 31.203.14.7 References.

- 1. Code of Federal Regulations, U. S. EPA Title 40, Part 60, Subpart AAA and Appendix A (40 CFR Part 60).
- 2. Barnett, S. G. and P. G. Fields, 1991, "In-Home Performance of Exempt Pellet Stoves in Medford, Oregon," prepared for U. S. Department of Energy, Oregon Department of Energy, Tennessee Valley Authority, and Oregon Department of Environmental Quality, July 1991.
- 3. Barnett, S. G. and R. R. Roholt, 1990, "In-Home Performance of Certified Pellet Stoves in Medford and Klamath Falls, Oregon," prepared for the U. S. Department of Energy, 1990.
- 4. Barnett, S. G., 1990, "Field Performance of Advanced Technology Woodstoves in Glens Falls, New York, 1988-1989," for New York State Energy Research and Development Authority, U. S. EPA, Coalition of Northeastern Governors, Canadian Combustion Research Laboratory, and the Wood Heating Alliance, December 1989.

[Statutory Authority: RCW 19.27.074(1) and RCW 70.94.457 (1)(b), (c). 96-01-120, § 51-30-31203, filed 12/20/95, effective 1/1/97.]

- WAC 51-30-31204 Section 31.204—Approval procedure for fireplaces. On or after the effective date of this regulation, a manufacturer or builder of a fireplace who wishes to have a fireplace model line or fireplace design designated as an approved (or certified) fireplace, shall submit to DOE for its review the following information:
- 31.204.1 Manufacturer name and street address, model or design identification, construction specifications, and drawings of the firebox and required chimney system.
- 31.204.2 A test report prepared in accordance with Section 31.203.14.6 showing that testing has been conducted by a DOE approved and U. S. EPA accredited laboratory, and that the arithmetically averaged particulate emission factors for that fireplace model line or design, tested in accordance with UBC Standard Section 31.202, does not exceed 7.3 g/kg (U. S. EPA Method 5H equivalent as determined in Section 31.203.12.6.3.2) for a factory-built fireplace model lines or designs or 12.0 g/kg (U. S. EPA Method 5H equivalent as determined in Section 31.203.12.6.3.2) for new certified masonry fireplace model lines or designs. After January 1,

1999, particulate emission factors for factory-built and new certified masonry fireplace model lines or designs shall not exceed 7.3 g/kg (U. S. EPA Method 5H equivalents as determined in Section 31.203.12.6.3.2).

[Statutory Authority: RCW 19.27.074(1) and RCW 70.94.457 (1)(b), (c). 96-01-120, § 51-30-31204, filed 12/20/95, effective 1/1/97.]

- WAC 51-30-31205 Section 31.205—Approval of non-tested fireplaces. On or after the effective date of this regulation, DOE may grant approval for a fireplace model line or design that has not been tested pursuant to Section 31.204 upon submission of the following by the applicant:
- 31.205.1 Manufacturer name and street address, model or design identification, construction specifications, and drawings of the internal assembly system.
- 31.205.2 Documentation from an EPA accredited laboratory that the model is a fireplace within the definition of this regulation, has substantially the same core construction as a model already tested by a DOE approved and EPA accredited laboratory, and is substantially similar to the approved model in internal assembly design, combustion function, and probable emissions performance as listed in Section 31.204.2.

[Statutory Authority: RCW 19.27.074(1) and RCW 70.94.457 (1)(b), (c). 96-01-120, § 51-30-31205, filed 12/20/95, effective 1/1/97.]

WAC 51-30-31206 Section 31.206—Approval through alternative test protocol. As provided in Section 31.202.4, an alternative testing protocol may be submitted by a DOE approved and EPA accredited laboratory for acceptance by DOE as equivalent to Uniform Building Code Standard 31-2.

[Statutory Authority: RCW 19.27.074(1) and RCW 70.94.457 (1)(b), (c). 96-01-120, § 51-30-31206, filed 12/20/95, effective 1/1/97.]

WAC 51-30-31207 Section 31.207—Approval termination. All fireplace model line or design approvals shall terminate five years from the approval date. Previously approved fireplace model line and/or design may be granted re-approval (re-certification) upon application to and review by DOE. No testing shall be required for fireplace model line or design re-approvals unless DOE determines that design changes have been incorporated into the fireplace that could adversely affect the emissions factor, or testing is otherwise stipulated by DOE.

DOE may revoke a fireplace model line or design approval certification if it is determined that the fireplaces being produced in a specific model line do not comply with the requirements of Section 31.200. Such a determination shall be based on all available evidence, including:

- 1. Test data from a retesting (audit test) of the original unit on which the certification test was conducted or a sample unit from the current model line,
  - 2. A finding that the certification test was not valid,
- 3. A finding that the labeling of the fireplace does not comply with the requirements of Section 31.200,

- 4. Failure by the fireplace manufacturer (builder) to comply with reporting and record keeping requirements under Section 31.200,
- 5. Physical examination showing that a significant percentage of production units inspected are not similar in all material respects to the fireplace submitted for testing, or
- 6. Failure of the manufacturer to conduct a quality assurance program in conformity with Section 31.208.

Revocation of certification under this section shall not take effect until the manufacturer (builder) concerned has been given written notice by DOE setting forth the basis for the proposed determination and an opportunity to request a hearing.

[Statutory Authority: RCW 19.27.074(1) and RCW 70.94.457 (1)(b), (c). 96-01-120, § 51-30-31207, filed 12/20/95, effective 1/1/97.]

WAC 51-30-31208 Section 31.208—Quality control. Once within 30 days of each annual anniversary after the initial approval/certification, a DOE approved and U. S. EPA accredited laboratory shall inspect the most recently produced fireplace of an approved model line or design at its manufacturing location (site, if site-built) to document adherence to the approved/certified fireplace design specifications. If no fireplaces of an approved model line or design were produced (built) during the previous 12 months, no inspection is required.

An inspection report for each approved fireplace model line or design must be submitted to DOE within 30 days after the inspection date. The inspection report shall include, as a minimum, the model identification and serial number of the fireplace inspected, the location where the model was inspected, the names of the manufacturer's and/or builder's representatives present, the date of inspection, and a description of any changes made to the approved fireplace model line or design since the last inspection. The U. S. EPA accredited laboratory which conducts the annual quality control inspection is responsible for auditing the content and format of all labels to be applied to approved fireplaces as stipulated in Section 31.209.

A fireplace model line or design shall be re-tested in accordance with Section 31.202 if it is determined during inspection that design changes have been incorporated into the approved/certified fireplace design which adversely affect the fireplace particulate emissions factor. Design elements which can affect fireplace particulate emissions include:

- 1. Grate placement and height,
- 2. Air supply minimum and maximum controls,
- 3. Usable hearth area, and
- 4. Firebox height, width, and length dimensions.

[Statutory Authority: RCW 19.27.074(1) and RCW 70.94.457 (1)(b), (c). 96-01-120, § 51-30-31208, filed 12/20/95, effective 1/1/97.]

## WAC 51-30-31209 Section 31.209—Permanent label, temporary label and owner's manual.

31.209.1 Labels and the Owner's Manual. Labels and owner's manual shall be prepared and installed in all

certified "For Sale" fireplaces as specified in U. S. EPA 40 CFR Part 60, Section 60.536. Information that shall be presented on all labels includes:

- 1. Manufacturer's or builder's name, address, and phone number,
  - 2. Model number and/or name,
  - 3. Month and year of manufacture,
- 4. Starting and ending dates for the 5-year approval period,
- 5. If a fireplace was tested and approved with an emissions control device which is not an integral part of the fireplace structure, the label shall state that "The fireplace can not be sold or installed without the specified emissions control device in place and operational.",
- 6. On certified fireplaces the statement: "This appliance has been tested and has demonstrated compliance with Washington State amendment to the UBC Standard, Chapter 31-2 requirements."

[Statutory Authority: RCW 19.27.074(1) and RCW 70.94.457 (1)(b), (c). 96-01-120, § 51-30-31209, filed 12/20/95, effective 1/1/97.]

WAC 51-30-31210 Section 31.210—List of approved fireplaces. DOE shall maintain a list of approved fireplace model lines and designs, and that list shall be available to the public.

[Statutory Authority: RCW 19.27.074(1) and RCW 70.94.457 (1)(b), (c). 96-01-120, § 51-30-31210, filed 12/20/95, effective 1/1/97.]

# Title 60 WAC BEEF COMMISSION

Chapters

60-12 Washington Beef Commission Act rules.

## Chapter 60-12 WAC WASHINGTON BEEF COMMISSION ACT RULES

WAC

60-12-010 Levy of assessment.

WAC 60-12-010 Levy of assessment. (1) Pursuant to the National Beef Promotion and Research Program, 7 USC S 2901, et seq., RCW 16.67.120 and 16.67.122, the Washington state beef commission levies an assessment of one dollar per head on all Washington cattle sold in this state or elsewhere, provided that no assessment shall be collected with reference to the following:

(a) Sales by a person who purchased cattle solely for resale when such resale occurs within ten days from such person's purchase of the cattle and when any assessment due in connection with that original purchase has been paid. In