	A	В	С	D	E	F	G	Н			J	K	L	М
1	CCR §	Line	2010-07-01 CCR effective	Note	2007-08-30 CCR	SSR §	2008-06 SSR draft	SSR Part A changes	2008-01-04	SSRCR	Cat	RATS	01-01-2009 CFR	2007-12-14 10 CFR
	Part 1		Adopted 10/21/2009,	2010-07-01 vs.	Adopted 07/18/2007,	Part A	As of 11-25-2009, no	2003-03 v.	Per concord					Per concordance by
2	Section		effective 07/01/2010	prior language	effective 08/30/2007	Section	action on 2008 draft	2008-06	Terry Devine	e, CRCPD				Terry Devine, CRCPD
~	Title	()											
3	Page	Dama				Dava A4								
4		Page 1-1				Page A1								
5			DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT		DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT									
6		2	P Hazardous Materials and Waste Management Division		Hazardous Materials and Waste Management Division									
6 7			6 CCR 1007-1		6 CCR 1007-1									
'			STATE BOARD OF		STATE BOARD OF									
8			HEALTH		HEALTH									
9		Ę	RULES AND REGULATIONS PERTAINING TO RADIATION CONTROL		RULES AND REGULATIONS PERTAINING TO RADIATION CONTROL									
10		6	PART 1:		PART 1:		PART A		PART A					
	Title	7	GENERAL			Title	GENERAL		GENERAL					
11			PROVISIONS		PROVISIONS		PROVISIONS		PROVISION	IS				
12	§1.1		3 1.1 Purpose and Scope.		1.1 Purpose and Scope.									
	§1.1.1		1.1.1 Authority.		1.1.1 Authority.	≠§								
14	§1.1.1.1	10	regulations set forth herein are adopted pursuant to the provisions of sections 25- 1-108, 25-1.5-101(1)(k), 25-1.5-101(1)(l), and 25- 11-104, CRS.	added throughout Part 1 in order to make direct reference explicit	Rules and regulations set forth herein are adopted pursuant to the provisions of sections 25- 1-108, 25-1.5-101(1)(k), 25-1.5-101(1)(I), and 25- 11-104, CRS.	≠§								
15	31.1.1.1			25-1.5-101(1)(k) here in Part 1.		-3								
	§1.1.2	12	2 1.1.2 Basis and Purpose.	Basis and Purpose.	1.1.2 Basis and Purpose.	≠§								

	Α	В	С	D	E	F	G	Н		J	К	L	М
1	CCR §	Line	2010-07-01 CCR effective	Note	2007-08-30 CCR	SSR §	2008-06 SSR draft	SSR Part A changes	2008-01-04 SSRCR	Cat	RATS	01-01-2009 CFR	2007-12-14 10 CFR
2	Part 1 Section		Adopted 10/21/2009, effective 07/01/2010	2010-07-01 vs. prior language	Adopted 07/18/2007, effective 08/30/2007	Part A Section	As of 11-25-2009, no action on 2008 draft	2003-03 v. 2008-06	Per concordance by Terry Devine, CRCPD				Per concordance by Terry Devine, CRCPD
17	§1.1.2.1	13	basis and purpose		A statement of basis and purpose accompanies this part and changes to this part. A copy may be obtained from the Department.								
18	§1.1.3	15	1.1.3 Scope.	Scope.	1.1.3 Scope.	~§A.1	Sec. A.1 - Scope.	No change.	Sec. A.1 -Scope.				
	§1.1.3.1		1.1.3.1 This part includes provisions generally applicable throughout all parts of these radiation control regulations.		This part includes provisions generally applicable throughout all parts of these radiation control regulations.	~§A.1	000. A.T - 000pe.	no onange.					
20	§1.1.4	18	1.1.4 Applicability	Applicability.	1.1.4 Applicability	~§A.1							
	§1.1.4.1		1.1.4.1 Except as otherwise specifically provided herein, these regulations apply to all persons who receive, possess, own, acquire, use, process, store, transfer, or dispose any source of radiation.	2010 Part 1 adds "herein" and "process", "store" and "dispose". The paragraph is divided in two by separating the "provided, however" clause into a new subsection 1.1.4.2.	Except as otherwise specifically provided, these regulations apply to all persons who receive, possess, own, acquire, use, process, store, transfer, or dispose any source of radiation; provided, however, that nothing in these regulations shall apply to any person to the extent such person is subject to regulation by the U.S. Nuclear Regulatory Commission. ¹	~§A.1	Except as otherwise specifically provided, these regulations apply to all persons who receive, possess, use, transfer, own, or acquire any source of radiation; provided that nothing in these regulations shall apply to any person to the extent such person is subject to regulation by the Nuclear Regulatory Commission. ^{1/}	No change.	Except as otherwise specifically provided, these regulations apply to all persons who receive, possess, use, transfer, own, or acquir any source of radiation; provided that nothing in these regulations shall apply to any person to the extent such person is subject to regulation by the Nuclear Regulatory Commission.1/ { A.2 Mar.'03}	e			
21	81144	10		Colorada									
22	§1.1.4.1	19		Colorado consciously adds "process", "store" and "dispose" and places the list of terms in a more logical order.		~§A.1							

	Α	В	С	D	E	F	G	Н	I	J	K	L	М
	CCR §	Line	2010-07-01 CCR	Note	2007-08-30 CCR	SSR §	2008-06 SSR draft	SSR Part A	2008-01-04 SSRCR	Cat	RATS	01-01-2009 CFR	2007-12-14 10 CFR
1			effective					changes					
_	Part 1			2010-07-01 vs.	Adopted 07/18/2007,	Part A	As of 11-25-2009, no	2003-03 v.	Per concordance by				Per concordance by
2	Section			prior language	effective 08/30/2007	Section	action on 2008 draft	2008-06	Terry Devine, CRCPD				Terry Devine, CRCPD
	§1.1.4.2	22	1.1.4.2 Nothing in these regulations shall apply to any person to the extent such person is subject to regulation by the U.S. Nuclear Regulatory Commission. ¹	2003 Part A states the caveat		~§A.1							
23	§1.1.4.2	24	special nuclear material in quantities not sufficient to form a critical mass is subject to the provisions of the	statement about NRC is made a simple sentence. The phrase "Attention is	¹ Attention is directed to the fact that regulation by the State of source material, byproduct material, and special nuclear material in quantities not sufficient to form a critical mass is subject to the provisions of the agreement between the State and the U.S. Nuclear Regulatory Commission and to 10 CFR Part 150 (January 1, 2007) of the Commission's regulations.	~§A.1	^{1/} Attention is directed to the fact that regulation by the State of source material, byproduct material, and special nuclear material in quantities not sufficient to form a critical mass is subject to the provisions of the agreement between the State and the Nuclear Regulatory Commission and to 10 CFR Part 150 of the Commission's regulations.		^{1/} Attention is directed to the fact that regulation by the State of source material, byproduct material, and special nuclear material in quantities not sufficient to form a critical mass is subject to the provisions of the agreement between the State and the Nuclear Regulatory Commission and to 10 CFR Part 150 of the Commission's regulations.				

	A	В	C	D	E	F	G	Н		J	K	L	М
1	CCR §	Line	2010-07-01 CCR effective	Note	2007-08-30 CCR	SSR §	2008-06 SSR draft	SSR Part A changes	2008-01-04 SSRCR	Cat	RATS	01-01-2009 CFR	2007-12-14 10 CFR
2	Part 1 Section		Adopted 10/21/2009, effective 07/01/2010	2010-07-01 vs. prior language	Adopted 07/18/2007, effective 08/30/2007	Part A Section	As of 11-25-2009, no action on 2008 draft	2003-03 v. 2008-06	Per concordance by Terry Devine, CRCPD				Per concordance by Terry Devine, CRCPD
25	§1.1.4.2	26		The publication date of the referenced document is changed to January 1, 2009, which was the most recent publication of 10 CFR prior to the October 21, 2009 date of adoption of Part 1. Colorado law requires a set date.									
26	§1.1.5	28	1.1.5 Published Material Incorporated By Reference.	Published Material Incorporated by Reference.	1.1.5 Published Material Incorporated By Reference.	≠§A							
27	§1.1.5.1	Page	1.1.5.1 Published material incorporated in Part 1 by reference is available in accord with Section 1.4.	This standard provision is now numbered but otherwise unchanged.	Published material incorporated in Part 1 by reference is available in accord with Section 1.4.	≠§A							
28 29	§1.2	1-2	1.2 Definitions.	Definitions.	1.2 Definitions.	=§A.2	Sec. A.2 - Definitions.	No change.	Sec. A.2 - Definitions.				

	Α	В	С	D	E	F	G	Н			J	K	L	М
	CCR §	Line	2010-07-01 CCR	Note	2007-08-30 CCR	SSR §	2008-06 SSR draft	SSR Part A	2008-01-04	SSRCR	Cat	RATS	01-01-2009 CFR	2007-12-14 10 CFR
1			effective					changes						
	Part 1		Adopted 10/21/2009,	2010-07-01 vs.	Adopted 07/18/2007,	Part A	As of 11-25-2009, no	2003-03 v.	Per concord					Per concordance by
2	Section			prior language		Section	action on 2008 draft	2008-06	Terry Devine	e, CRCPD				Terry Devine, CRCPD
	§1.2.1	32	2 1.2.1 Definitions of	§1.2.1 is a	1.2.1 Definitions of	≠§A.2								
			general applicability to	general	general applicability to									
			the Rules and Regulations Pertaining	statement,	the Rules and Regulations Pertaining									
			to Radiation Control	unchanged from 2007 Part 1, that	to Radiation Control									
			promulgated by the	the definitions in	promulgated by the									
			Department pursuant to		Department pursuant to									
			provisions of sections 25-		provisions of sections 25-									
				throughout	1-108, 25-1.5-101(1)(k),									
				Colorado's	25-1.5-101(1)(I), and 25-									
			11-104, CRS, are set	radiation	11-104, CRS, are set									
			forth in section 1.2.2 and shall be liberally	regulations.	forth in section 1.2.2 and shall be liberally									
			construed to protect the		construed to protect the									
			public health by		public health by									
			controlling excess		controlling excess									
			radiation.		radiation.									
30														
	§1.2.1	34	ļ.	The final clause of										
				the sentence was										
				added previously and mirrors										
				language from										
				Colorado's water										
				quality rules.										
1														
31														
<u> </u>	§1.2.2	36	1.2.2 As used in these	The wording of	1.2.2 As used in these	~§A.2	As used in these	No change.	As used in t	hese	+			
1	3		regulations, each term	1.2.2 is tightened	regulations, these terms	3=	regulations, these terms	ge.		these terms				
			below has the definition	and augmented.	have the definitions set		have the definitions set		have the det	finitions set				
			set forth. A cross-		forth as follows.		forth below. Additional		forth below.					
			reference is provided for		Additional definitions		definitions used only in a		definitions u					
			each common		used only in a certain		certain Part will be found		certain Part					
			abbreviation. Any additional definition used		Part will be found in that Part.		in that Part.		in that Part.	{A.2				
			only in a single part of		Pall.				Mar.'03}					
			these regulations is											
			found in that part.											
32														

	Α	В	С	D	E	F	G	Н	I	J	K	L	М
	CCR §	Line	2010-07-01 CCR	Note	2007-08-30 CCR	SSR §	2008-06 SSR draft	SSR Part A	2008-01-04 SSRCR	Cat	RATS	01-01-2009 CFR	2007-12-14 10 CFR
1			effective					changes					
	Part 1		Adopted 10/21/2009,	2010-07-01 vs.	Adopted 07/18/2007,	Part A	As of 11-25-2009, no	2003-03 v.	Per concordance by				Per concordance by
	Section		effective 07/01/2010	prior language	effective 08/30/2007	Section	action on 2008 draft	2008-06	Terry Devine, CRCPD				Terry Devine, CRCPD
	§1.2.2	39	"A ₁ " means the	This definition is	"A ₁ " means the	~§A.2	"A ₁ " means the	This definition		В			A1 means the maximum
			maximum activity of	not changed.	maximum activity of		maximum activity of	is not changed.	maximum activity of				activity of special form radioactive material
			special form radioactive material permitted in a		special form radioactive material permitted in a		special form radioactive material permitted in a		special form radioactive material permitted in a				permitted in a Type A
			Type A package. This		Type A package. This		Type A package. "A ₂ "		Type A package. "A ₂ "				package. This value is
			value is either listed in		value is either listed in		means the maximum		means the maximum				either listed in Appendix
			Appendix 17A or may be		Appendix 17A or may be		activity of radioactive		activity of radioactive				A, Table A-1, of this
			derived in accordance		derived in accordance		material, other than		material, other than				part, or may be derived
			with the procedures		with the procedures		special form radioactive		special form radioactive				in accordance with the
			prescribed in Appendix 17A.		prescribed in Appendix 17A.		material, permitted in a		material, permitted in a				procedures prescribed in Appendix A of this part.
			17A.		17A.		Type A package. These values are either listed in		Type A package. These values are either listed in				{§71.4, B}
							Appendix A of Part T of		Appendix A of Part T of				(3, -)
							these regulations, Table		these regulations, Table				
							I, or may be derived in		I, or may be derived in				
							accordance with the		accordance with the				
							procedure prescribed in		procedure prescribed in				
							Appendix A of Part T of		Appendix A of Part T of				
							these regulations.		these regulations. {A.2 Mar.'03}				
									Mai. 007				
33													
	§1.2.2	42	"A2" means the	This definition is	"A ₂ " means the	~§A.2				В			A2 means the maximum
	•		maximum activity of	not changed.	maximum activity of	°,							activity of radioactive
			radioactive material,		radioactive material,								material, other than
			other than special form,		other than special form,								special form material,
			low specific activity		low specific activity								LSA, and SCO material,
			(LSA) and surface		(LSA) and surface								permitted in a Type A package. This value is
			contaminated object (SCO) material,		contaminated object (SCO) material,								either listed in Appendix
			permitted in a Type A		permitted in a Type A								A, Table A-1, of this
			package. This value is		package. This value is								part, or may be derived
			either listed in Appendix		either listed in Appendix								in accordance with the
			17A or may be derived		17A or may be derived								procedures prescribed in
			in accordance with the		in accordance with the								Appendix A of this
			procedures prescribed in		procedures prescribed in								part.{§ 71.4, B}
			Appendix 17A.		Appendix 17A.								
34													

	A	В	С	D	E	F	G	Н			J	K	L	М
	CCR §	Line	2010-07-01 CCR	Note	2007-08-30 CCR	SSR §	2008-06 SSR draft		2008-01-04	SSRCR	Cat	RATS	01-01-2009 CFR	2007-12-14 10 CFR
1	_		effective					changes	<u> </u>					
2	Part 1 Section		Adopted 10/21/2009, effective 07/01/2010	2010-07-01 vs.	Adopted 07/18/2007, effective 08/30/2007	Part A	As of 11-25-2009, no	2003-03 v. 2008-06	Per concord Terry Devine					Per concordance by Terry Devine, CRCPD
2	§1.2.2	46	"AAPM" means the	prior language A definition of	enective 06/30/2007	Section ≠§A.2	action on 2008 draft	2000-00	Terry Devine	, CRCPD				Terry Devine, CRCPD
	81.2.2	40		"AAPM" is added:		≠9A.2								
			Physicists in Medicine.	the term is used										
				in both Part 2 and										
				Part 6.										
35														
	§1.2.2	47	"Absorbed dose" (D)	The symbol "D" is		~§A.2	"Absorbed dose" means		"Absorbed d		Α			Absorbed dose means
			means the energy	added in	the energy imparted by		the energy imparted by	is not changed.						the energy imparted by
			imparted by ionizing radiation per unit mass	parentheses in the definition for	ionizing radiation per unit mass of irradiated		ionizing radiation per unit mass of irradiated		ionizing radi mass of irra					ionizing radiation per unit mass of irradiated
			of irradiated material.	"absorbed dose".	material. The units of		material. The units of		material. Th					material. The units of
			The units of absorbed		absorbed dose are the		absorbed dose are the		absorbed do					absorbed dose are the
			dose are the gray (Gy)		gray (Gy) and the rad.		gray (Gy) and the rad.		gray (Gy) an					rad and the gray (Gy).
			and the rad.						{A.2 Mar.'03	}				{§20.1003, A}
36														
	§1.2.2	47		The lengthier		≠§A.2			"Absorbed d					
				definition of					means the n					
				"absorbed dose" with additional					imparted by radiation to r					
				explanation of					Absorbed do					
				units that was in					determined					
				1999 Part X and					quotient of d	E by dM,				
				1999 Part 20 is					where dE is					
				not used in Part 1.					energy impa					
									ionizing radi matter of ma					
									SI unit of ab					
									is joule per l					
									the special r					
									unit of absor					
									the gray (Gy					
									previously u					
									unit of absor (rad) is bein					
									by the gray.					
									Feb.'05}	· ··-				
37														
	1	1			1	1		1	1		1	1	1	

CR § art 1 ection	Line	2010-07-01 CCR	Note										
		effective	Note	2007-08-30 CCR	SSR §	2008-06 SSR draft	SSR Part A changes	2008-01-04	SSRCR	Cat	RATS	01-01-2009 CFR	2007-12-14 10 CFR
		Adopted 10/21/2009, effective 07/01/2010	2010-07-01 vs. prior language	Adopted 07/18/2007, effective 08/30/2007	Part A Section	As of 11-25-2009, no action on 2008 draft	2003-03 v. 2008-06	Per concord Terry Devine					Per concordance by Terry Devine, CRCPD
1.2.2	47		* After "gray (Gy)" in the definition of "absorbed dose", consider adding the phrase "as defined by the International Commission on Radiation Units and Measurement."		≠§A.2								
1.2.2	49	"Absorbed dose rate" means absorbed dose per unit time.	The definition of "absorbed dose rate" is simplified, in part at the suggestion of Colorado medical physicists.	"Absorbed dose rate" means absorbed dose per unit time, for machines with timers, or dose monitor unit per unit time for linear accelerators.	≠§A.2		A definition of "absorbed dose rate" is not added to 2008 Part A.	means abso per unit time machines wi dose monito unit time for	rbed dose e, for ith timers, or r unit per linear				
1.2.2		machine capable of accelerating electrons, protons, deuterons, or other charged particles in a vacuum and of	accelerator" is added as an equivalent term.	"Accelerator" means any machine capable of accelerating electrons, protons, deuterons, or other charged particles in a vacuum and of discharging the resultant particulate or other radiation into a medium at energies usually in excess of 1 MeV. For purposes of this definition, "particle accelerator" is an equivalent term.	~§A.2	machine capable of accelerating electrons, protons, deuterons, or other charged particles in a vacuum and of	is not changed.	machine cap accelerating protons, deu other charge in a vacuum discharging s particulate o radiation into at energies u excess of 1 purposes of definition, "p accelerator"	bable of electrons, or ed particles and of the resultant r other o a medium usually in MeV. For this particle is an		Added to 20.1003; 72 FR 55864; RATS ID 2007-3	Particle accelerator means any machine capable of accelerating electrons, protons, deuterons, or other charged particles in a vacuum and of discharging the resultant particulate or other radiation into a medium at energies usually in excess of 1 megaelectron volt. For purposes of this definition, "accelerator" is an equivalent term.	
			2.2 50 "Accelerator" means any machine capable of accelerating electrons, protons, deuterons, or other charged particles in a vacuum and of discharging the resultant particulate or other radiation into a medium at energies usually in excess of 1 MeV. For purposes of this definition, "linear accelerator" or "particle accelerator" is an	 2.2 49 "Absorbed dose rate" consider adding the phrase "as defined by the International Commission on Radiation Units and Measurement." 2.2 49 "Absorbed dose rate" means absorbed dose per unit time. 2.2 50 "Accelerator" means any machine capable of accelerating electrons, protons, deuterons, or other charged particles in a vacuum and of discharging the resultant particulate or other radiation into a medium at energies usually in excess of 1 MeV. For purposes of this definition, "linear accelerator" is an 	2.249"Absorbed dose rate" consider adding the phrase "as defined by the International Commission on Radiation Units and Measurement.""Absorbed dose rate" means absorbed dose per unit time."Absorbed dose rate" means absorbed dose per unit time."Absorbed dose rate" means absorbed dose rate" is simplified, in part at the suggestion of Colorado medical physicists."Absorbed dose rate" means absorbed dose per unit time.2.250"Accelerator" means any machine capable of accelerating electrons, protons, deuterons, or other charged particles in a vacuum and of discharging the resultant particulate or other radiation into a medium at energies usually in excess of 1 MeV. For purposes of this definition, "linear accelerator" is an equivalent term."Accelerator" means any machine capable of accelerator, is an equivalent term.	2.249"Absorbed dose rate" consider adding the phrase "as defined by the International Commission on Radiation Units and Measurement.""Absorbed dose rate" means absorbed dose per unit time.#\$A.22.249"Absorbed dose rate" means absorbed dose per unit time.The definition of "absorbed dose rate" is simplified, in part at the suggestion of Colorado medical physicists."Absorbed dose rate" means absorbed dose rate" is simplified, in part at the suggestion of Colorado medical physicists."Absorbed dose rate" means absorbed dose rate "is simplified, in part at the suggestion of Colorado medical physicists."Accelerator" means any machine capable of accelerators, or other charged particles in a vacuum and of discharging the resultant particulate or other radiation into a medium at energies usually in excess of 1 MeV. For purposes of this definition, "linear accelerator" is an accelerator" is an equivalent term."Accelerator" means any machine capable of accelerator is an equivalent term.	2.2 49 "Absorbed dose rate" consider adding the phrase "as defined by the International Commission on Radiation Units and Measurement." "Absorbed dose rate" means absorbed dose per unit time. #\$A.2 2.2 49 "Absorbed dose rate" means absorbed dose per unit time. The definition of "absorbed dose rate" is simplified, in part at the suggestion of Colorado medical physicists. "Absorbed dose rate" means absorbed dose per unit time for linear accelerators. #\$A.2 2.2 50 "Accelerator" means any machine capable of accelerator is a needium at energies usually in excess of 1 MeV. For purposes of this definition, "linear accelerator" is an accelerator is an	2.2 49 "Absorbed dose rate" consider adding the phrase "as defined by the International Commission on Radiation Units and Measurement." "Absorbed dose rate" means absorbed dose rate" is and and measurement." #A definition of "absorbed dose rate" means absorbed dose rate" is simplified in part at the suggestion of Colorado medical physicists. #A besorbed dose rate" is not added to 2008 Part A. 2.2 50 "Accelerator" means any machine capable of accelerating electrons, protons, deuterons, or other charged particles in a vacuum and of discharging the resultant particulate or other radiation into a medium at energies usually in excess of 1 MeV. For purposes of this definition, "particle accelerator" is an accelerator is an equivalent term. "Accelerator means any machine capable of accelerator is an equivalent term. "Accelerator and of discharging the resultant particulate or other radiation into a medium at energies usually in excess of 1 MeV. For purposes of this definition, "particle accelerator is an equivalent term. "Accelerator" is an equivalent term.	2.2 49 *Absorbed dose rate" consider adding the phrase "as defined by the International Commission on Radiation Units and Measurement." *Absorbed dose rate" means absorbed dose per unit time. *Absorbed dose rate" means absorbed dose rate" is simplified in part at the suggestion of Colorado medical physicists. *Absorbed dose rate" means absorbed dose rate" is simplified in part at the suggestion of Colorado medical physicists. *Absorbed dose rate" means absorbed dose rate" is simplified in part at the suggestion of Colorado medical physicists. *Absorbed dose rate" is simplified in a vacuum and of discharging the resultant particulate or other radiation into a medium at energies usually in excess of 1 MeV. For purposes of this definition, "inear accelerator" is an equivalent term. *Accelerator" means any radiation into a medium at energies usually in excess of 1 MeV. For purposes of this definition, "particle accelerator" is an equivalent term. *Accelerator" means any radiation into a medium at energies usually in excess of 1 MeV. For purposes of this definition, "particle accelerator" is an equivalent term. *Accelerator" heavily in excess of 1 MeV. For equivalent term. *Accelerator" is an equivalent term.	2.2 49 "Absorbed dose", consider adding the phrase "as defined by the International Commission on Radiation Units and Measurement." "Absorbed dose rate" means absorbed dose per unit time. "Absorbed dose rate" means absorbed dose per unit time. "Absorbed dose rate" means absorbed dose rate is simplified, in part at the suggestion of Colorado medical physicists. "Absorbed dose rate" means absorbed dose rate is simplified, in part at the suggestion of Colorado medical physicists. "Absorbed tose rate" is a simplified, in part at the suggestion of Colorado medical physicists. "Accelerator" means any accelerating electrons, protons, deuterons, or other charged particles in a vacuum and of discharging the resultant particulate or other radiation into a medium at energies sually in excess of 1 MeV. For purposes of this definition, "particle accelerator" is an elererities usually in exceess of 1 MeV. For purposes of this definition, "particle accelerator" is an equivalent term. "Accelerator" neans any machine capable of accelerator of discharging the resultant particulate or other radiation into a medium at energies sually in exceess of 1 MeV. For purposes of this definition, "particle accelerator" is an elererities accelerator or is an elererities accelerator is an equivalent term. "Accelerator" means any machine capable of accelerator is an energies usually in exceess of 1 MeV. For purposes of this definition, "particle accelerator" is an elererities usually in exceess of 1 MeV. For purposes of this "Accelerator" is an equivalent term. "Accelerator" is an equivalent term.	2.2 49 "Absorbed dose" acting the phrase "as defined by the international Commission on Radiation Units and Measurement." *Absorbed dose rate" means absorbed dose rate" is simplified. In per unit time, for means absorbed dose per unit time. *Absorbed dose rate" is simplified. in per unit time, for means absorbed dose rate "in part at the suggestion of Colorado medical physicists. *Absorbed dose rate "in achines with timers, or dose monitor unit per unit time, for machines with timers, or dose monitor unit per unit time for linear accelerators. *Accelerator" means any time for linear accelerators. (X.2 Feb.'05) *Accelerator" means any accelerators, protons, deuterons, protons, deuterons, or other charged particles in a vacuum and of discharging the resultant particulate or other radiation into a medium at energies usually in excess of 1 MeV. For purposes of this definition, "particulate or other radiation into a medium at energies usually in excess of 1 MeV. For purposes of this definition, "particle accelerator" is an accelerator" is an accelerator" is an equivalent term. *Accelerator is an equivalent term. *Accelerator is an equivalent term.	2.2 49 "Absorbed dose": consistent adding the phrase" as defined by the International Commission on Radiation Units and Measurement." "Absorbed dose rate" "means absorbed dose per unit time. "Absorbed dose rate" "means absorbed dose rate" is simplified, in part at the suggestion of Colorado medical physicists. "Absorbed dose rate" "absorbed dose rate" is simplified, in part at the suggestion of Colorado medical physicists. "Absorbed dose rate" "means absorbed dose rate" is simplified, in part at the suggestion of Colorado medical physicists. "Accelerator" means any colerators, (X, Z machines with timers, or coher charged particles in a vacuum and of discharging the resultant particulate or other radiation into a medium at energies usually in excess of 1 MeV. For purposes of this definition, "particle accelerator" is an equivalent term. "Accelerator" means any colerators is an equivalent term. #A definition accelerators is an equivalent term.	2.2 49 "Absorbed dose rate" means absorbed dose per unit time. *Absorbed dose rate" means absorbed dose rate" is symptic accelerator is an accelerator is an equivalent term. *Absorbed dose rate" means absorbed dose per unit time. *Absorbed dose rate" means absorbed dose rate" is symptic accelerator is an accelerator is an equivalent term. *Absorbed dose rate" means absorbed dose rate" is symptic accelerator is an equivalent term. *Absorbed dose rate" means absorbed dose rate" is symptic accelerator is an equivalent term. *Absorbed dose rate" means absorbed dose rate" is symptic accelerator is an equivalent term. *Absorbed dose rate" means absorbed dose rate" is symptic accelerator is an equivalent term. *Absorbed dose rate" means absorbed dose rate" is symptic accelerator is an eccelerator is an equivalent term. *Absorbed dose rate" means absorbed dose rate" is symptic accelerator is an eccelerator is an eccelerator is an equivalent term. *Accelerator means any ratio *Accelerator means any rate regise sually in excess of 1 MeV. For purposes of this equivalent term. *Accelerator is an equivalent term. *Accelerator is an equivalent term. *Accelerator is an equivalent term. *Added to accelerator is an equivalent term. *Accelerator is an equivalent term. *Added to accelerator is an eccelerator is an equivalent term. *Accelerator is an equivalent term. *Added to accelerator is an eq

	A	В	С	D	E	F	G	H	I	J	K	L	М
1	CCR §	Line	2010-07-01 CCR effective	Note	2007-08-30 CCR	SSR §	2008-06 SSR draft	SSR Part A changes	2008-01-04 SSRCR	Cat	RATS	01-01-2009 CFR	2007-12-14 10 CFR
2	Part 1 Section		Adopted 10/21/2009, effective 07/01/2010	2010-07-01 vs. prior language	Adopted 07/18/2007, effective 08/30/2007	Part A Section	As of 11-25-2009, no action on 2008 draft	2003-03 v. 2008-06	Per concordance by Terry Devine, CRCPD				Per concordance by Terry Devine, CRCPD
41	§1.2.2	54	"Accelerator-produced radioactive material" means any material made radioactive by an accelerator.	The word "particle" is deleted to make this definition consistent with the definition of "accelerator".	"Accelerator-produced radioactive material" means any material made radioactive by a particle accelerator.	=§A.2	"Accelerator-produced radioactive material" means any material made radioactive by a particle accelerator.	added to to 2008 Part A.	"Accelerator-produced material" means any material made radioactive by a particle accelerator. {A.2 Mar.'03}	H&S	Added to 20.1003; 72 FR 55864; RATS ID 2007-3	Accelerator-produced radioactive material means any material made radioactive by a particle accelerator.	Accelerator-produced radioactive material means any material made radioactive by a particle accelerator. {§20.1003, H&S and §30.4, H&S}
	§1.2.2	56	"Accessible surface" means the external surface of the radiation machine enclosure or housing provided by the manufacturer.	The definition of "accessible surface" is moved from 1999 Part 6 to 2010 Part 1.		≠§A.2		"accessible surface" is not added to 2008 Part A. The SSR	"Accessible surface" means the external surface of the enclosure or housing of the radiation producing machine as provided by the manufacturer. {F.2 Dec.'01}				
42	§1.2.2	56							"Accessible surface"				
43	91.2.2	50				≠§A.2			Accessible surface means surface of equipment or of an equipment part that can be easily or accidentally touched by persons without the use of a tool. {X.2 Feb.'05}				

	Α	В	С	D	E	F	G	Н		J	K	L	М
	CCR §	Line	2010-07-01 CCR	Note	2007-08-30 CCR	SSR §	2008-06 SSR draft	SSR Part A	2008-01-04 SSRCR	Cat	RATS	01-01-2009 CFR	2007-12-14 10 CFR
1			effective					changes					
	Part 1		Adopted 10/21/2009,	2010-07-01 vs.	Adopted 07/18/2007,	Part A	As of 11-25-2009, no	2003-03 v.	Per concordance by				Per concordance by
2	Section		effective 07/01/2010	prior language	effective 08/30/2007	Section	action on 2008 draft	2008-06	Terry Devine, CRCPD				Terry Devine, CRCPD
	§1.2.2	58	"Accident" means any	The definition of	"Accident" means any	≠§A.2			"Accident" means any				
			unintended event	"accident" is	unintended event				unintended event				
			(including an operating	modified in	(including an operating				(including an operating				
			error, equipment failure	2010 Part 1 by	error, equipment failure				error, equipment failure				
			or other mishap) that	numbering the	or other mishap) which				or other mishap) which				
			could:	subclauses.	could result in a dose in				could (1) result in a				
					excess of regulatory				dose in excess of				
					limits on site or for the				regulatory limits on site				
					public or have				or for the public or (2)				
					consequences or				have consequences or				
					potential consequences which cannot be ignored				potential consequences which cannot be ignored				
					from the point of view of				from the point of view				
					protection or safety				of protection or safety				
					(such as an actual or				(such as an actual or				
					potential substantial				potential substantial				
					degradation of the level				degradation of the level				
					of protection or safety of				of protection or safety of				
					the facility or release of				the facility or release of				
					radioactive material in				radioactive material in				
					sufficient quantity to				sufficient quantity to				
					warrant consideration of				warrant consideration of				
					protective actions).				protective actions). {P.3				
									Aug.'01}				
44													
	§1.2.2	60	(1) Result in a dose in										
			excess of regulatory										
			limits on site or for the										
45			public; or										

	A	В	С	D	E	F	G	Н			J	K	L	М
	CCR §		07-01 CCR	Note	2007-08-30 CCR	SSR §	2008-06 SSR draft	SSR Part A	2008-01-04	SSRCR	Cat	RATS	01-01-2009 CFR	2007-12-14 10 CFR
1		effecti						changes						
	Part 1			2010-07-01 vs.	Adopted 07/18/2007,	Part A	As of 11-25-2009, no	2003-03 v.	Per concord					Per concordance by
	Section		ive 07/01/2010	prior language	effective 08/30/2007	Section	action on 2008 draft	2008-06	Terry Devine	e, CRCPD				Terry Devine, CRCPD
	§1.2.2		ve consequences											
		or pote												
			quences which											
			t be ignored from int of view of											
			tion or safety											
			as an actual or											
			ial substantial											
			dation of the level											
			ection or safety of											
			cility or release of											
			ctive material in											
			ent quantity to t consideration of											
			tive actions).											
		protoo												
46														
	§1.2.2		eans Title 25,	=	Act" means Title 25,	~§A.2	"Act" means [cite State	=	"Act" means					Act means the Atomic
			11, Colorado		Article 11, Colorado		Radiation Control Act].		Radiation Co					Energy Act of 1954, (68
			ed Statutes (CRS),		Revised Statutes (CRS),				{A.2 Mar.'03					Stat. 919) including any
		as ame	ended.		as amended.				Oct.'96} "Ac [cite State R					amendments thereto.
									Control Act					{§19.3, D; §30.4, D; §40.4, D; §70.4, D;
									appropriate					§74.4,; §150.3, D}
									statute]. {AA					Act means the Atomic
										,				Energy Act of 1954 (42
														U.S.C. 2011 et seq.), as
														amended. {§20.1003,
1														D}
47														
48		Page 1-3												
	§1.2.2		n levels". See	A cross-reference		~§A.2			"Action level	ls" (Spp				
	31.2.2		n limits".	for "action levels"		34.5			"Action limits					
				is added.					Dec.'01}					
49														
L . U		1		1	1	1		1	1		1	1	1	

1 Part 1 2 Section §1.2.2	1	effective 07/01/2010 "Action limits" means the minimum and maximum values of a quality		2007-08-30 CCR Adopted 07/18/2007, effective 08/30/2007	SSR § Part A	2008-06 SSR draft	SSR Part A changes	2008-01-04	SSRCR	Cat	RATS	01-01-2009 CFR	2007-12-14 10 CFR
2 Section		Adopted 10/21/2009, effective 07/01/2010 3 "Action limits" means the minimum and maximum values of a quality	prior language A definition of				changes	1		i.			
2 Section		effective 07/01/2010 "Action limits" means the minimum and maximum values of a quality	prior language A definition of			Ac of 11-25-2000 no	2003-03 v.	Per concord	ance by				Per concordance by
		Action limits" means the minimum and maximum values of a quality	A definition of		Section	As of 11-25-2009, no action on 2008 draft	2003-05 V.	Terry Devine					Terry Devine, CRCPD
		values of a quality	Handland R. M. H.		≠§A.2		A definition of	-	s" means the				
			"action limits" is				"action limits"	minimum an					
			added as				is not added to						
		assurance measurement that can be interpreted	potentially useful in multiple parts.				2008 Part A from Part F.	that can be	neasurement				
		as representing	in multiple parts.				II UIII Fail F.	as represen	•				
		acceptable performance						acceptable					
		with respect to the						with respect					
		parameter being tested.						parameter b Values less					
		Values less than the minimum or greater than							greater than				
		the maximum action limit							m action limit				
		or level indicate that						or level indic					
		corrective action must						corrective a					
		be taken. Action limits or levels are also						be taken by Action limits					
		sometimes called control						are also son					
		limits or levels.						called contro					
								levels. {F.13	Dec.'01}				
50													
§1.2.2	7:	B "Activity" means the rate	=	"Activity" means the rate	=§A.2	"Activity" means the rate	=	"Activitv" me	eans the rate	A			Activity is the rate of
3		of disintegration or		of disintegration or	3	of disintegration or		of disintegra					disintegration
		transformation or decay		transformation or decay		transformation or decay		transformati					(transformation)or decay
		of radioactive material.		of radioactive material.		of radioactive material.		of radioactiv					of radioactive material.
		The units of activity are the becquerel (Bq) and		The units of activity are the becquerel (Bq) and		The units of activity are the becquerel (Bq) and		The units of the becquer					The units of activity are the curie (Ci)and the
		the curie (Ci).		the curie (Ci).		the curie (Ci).		the curie (Ci					becquerel (Bq).
								Mar.'03}	, ({§20.1003, A}
51													
§1.2.2	7		A definition of		≠§A.2					D			Acute, as used in this
		dose(s) or chemical	"acute" is added.		-								part, means a single
		exposure(s) occurring											radiation dose or
		within a short period of											chemical exposure event
		time (24 hours or less).											or multiple radiation dose or chemical
													exposure events
													occurring within a short
													time (24 hours or less).
													{§70.4, D}
52													

	A	В	C	D	E	F	G	Н		J	K	L		М
1	CCR §	Line	2010-07-01 CCR effective	Note	2007-08-30 CCR	SSR §	2008-06 SSR draft	SSR Part A changes	2008-01-04 SSRCR	Cat	RATS	01-01-2009 CFR	20	007-12-14 10 CFR
2	Part 1 Section		Adopted 10/21/2009, effective 07/01/2010	2010-07-01 vs. prior language	Adopted 07/18/2007, effective 08/30/2007	Part A Section	As of 11-25-2009, no action on 2008 draft	2003-03 v. 2008-06	Per concordance by Terry Devine, CRCPD					er concordance by erry Devine, CRCPD
	§1.2.2	77	"Address of use" means the facility designated on the license or registration where radioactive material is permitted to be received, produced, prepared, processed, used, or stored or where a radiation machine is permitted to be installed, operated, repaired or stored.	"address of use" is added to Part 1 that can be used generically for		≠§A.2		A definition of "address of use" is not added to 2008 Part A.	"Address of use" means the building or buildings that are identified on the license and where radioactive material may be produced, prepared, received, used, or stored. {G.2 Mar.'03}				the tha lice by be	ddress of use means e building or buildings at are identified on the rense and where /product material may e received, prepared, sed, or stored. {§35.2,
53														
54	§1.2.2	80	Adult" means an individual 18 or more years of age.	=	"Adult" means an individual 18 or more years of age.	=§A.2	"Adult" means an individual 18 or more years of age.	=	"Adult" means an individual 18 or more years of age. {A.2 Mar.'03}	A			inc	dult means an dividual 18 or more ears of age. {§20.1003,
55	§1.2.2	80		"Department" is the equivalent definition to SSR Part A.		≠§A.2	"Agency" means [cite appropriate State agency].	=	"Agency" means [cite appropriate State agency].					

	Α	В	С	D	E	F	G	Н		J	K		L	М
	CCR §	Line	2010-07-01 CCR	Note	2007-08-30 CCR	SSR §	2008-06 SSR draft	SSR Part A	2008-01-04 SSRCR	Cat	RATS	01-01-2009) CFR	2007-12-14 10 CFR
1			effective					changes						
_	Part 1			2010-07-01 vs.	Adopted 07/18/2007,	Part A	As of 11-25-2009, no	2003-03 v.	Per concordance by					Per concordance by
	Section	01		prior language	effective 08/30/2007	Section	action on 2008 draft	2008-06	Terry Devine, CRCPD	_				Terry Devine, CRCPD
	§1.2.2	81	"Agreement State" means any State with	=	"Agreement State" means any State with	=§A.2	"Agreement State" means any State with	=	"Agreement State" means any State with	В				Agreement State [as designated in part 150 of
			which the U.S. Nuclear		which the U.S. Nuclear		which the Nuclear		which the Nuclear					this chapter] means any
			Regulatory Commission		Regulatory Commission		Regulatory Commission		Regulatory Commission					state with which the
			or the U.S. Atomic		or the U.S. Atomic		or the Atomic Energy		or the Atomic Energy					[Nuclear Regulatory
			Energy Commission has		Energy Commission has		Commission has entered		Commission has entered	ł][Commision or] Atomic
			entered into an effective agreement under		entered into an effective agreement under		into an effective agreement under		into an effective agreement under					Energy Commission [or the Nuclear Regulatory
			subsection 274b. of the		subsection 274b. of the		subsection 274b. of the		subsection 274b. of the					Commission] has
			Atomic Energy Act of		Atomic Energy Act of		Atomic Energy Act of		Atomic Energy Act of					entered into an effective
			1954, as amended (73		1954, as amended (73		1954, as amended (73		1954, as amended (73					agreement under
			Stat. 689).		Stat. 689).		Stat. 689).		Stat. 689). {A.2 Mar.'03}					subsection 274b. of the
														[Atomic Energy] Act[of 1954, as amended]. Non-
														agreement State means
														any other State;{ §30.4,
														B; §35.2, B; §40.4, B;
														§70.4, B; §150.3, B}
56														
	§1.2.2	84	"Air kerma" (K) means	=	"Air kerma" (K) means	≠§A.2		A definition of	"Air kerma (K)" means					
			the kinetic energy		the kinetic energy			"air kerma" is	the kinetic energy					
			released in the mass of		released in the mass of			not added to	released in air by					
			a small volume of air by ionizing radiation (see		a small volume of air by ionizing radiation (see			2008 Part A.	ionizing radiation. Kerma is determined as					
			kerma). Air kerma is		kerma). Air kerma is				the quotient of dE by					
			measured in joules per		measured in joules per				dM, where dE is the sum	1				
			kilogram (J/kg). For		kilogram (J/kg). For				of the initial kinetic					
			diagnostic x-rays, air kerma is the same as		diagnostic x-rays, air kerma is the same as				energies of all the charged ionizing					
			the absorbed dose		the absorbed dose				particles liberated by					
			measured in gray (Gy)		measured in gray (Gy)				uncharged ionizing					
			delivered to the volume		delivered to the volume				particles in air of mass					
			of air in the absence of		of air in the absence of				dM. The SI unit of air					
			scatter.		scatter.				kerma is joule per					
									kilogram and the special name for the unit of					
									kerma is the gray (Gy).					
									{X.2 Feb.'05}					
57														

	Α	В	С	D	E	F	G	Н		1	J	K	L	М
1	CCR §	Line	2010-07-01 CCR effective	Note	2007-08-30 CCR	SSR §	2008-06 SSR draft	SSR Part A changes	2008-01-04	SSRCR	Cat	RATS	01-01-2009 CFR	2007-12-14 10 CFR
2	Part 1 Section		effective 07/01/2010	2010-07-01 vs. prior language	Adopted 07/18/2007, effective 08/30/2007	Part A Section	As of 11-25-2009, no action on 2008 draft	2003-03 v. 2008-06	Per concord Terry Devin					Per concordance by Terry Devine, CRCPD
58	§1.2.2	84		In the definition of "air kerma", consider adding the phrase "as defined by the International Commission on Radiation Units and Measurement."										
	§1.2.2	84		The definition of "air kerma" differs from 10 CFR 1020.30.		≠§A.2			"Air kerma" kerma in a g of air. The i measure the air kerma is (Gy). For X energies les kiloelectrom Gy = 100 ra Gy of absor delivered by roentgens (I exposure. {F	given mass unit used to e quantity of the Gray -rays with as than 300 volts (keV), 1 d. In air, 1 bed dose is v 114 R) of				
59	§1.2.2	88	"Air kerma rate" (AKR) means the air kerma per unit time.	=	"Air kerma rate" (AKR) means the air kerma per unit time.	≠§A.2		A definition of "air kerma rate" is not						
60								added to 2008 Part A.						
	§1.2.2	89	"Air-purifying respirator" means a respirator with an air-purifying filter, cartridge, or canister that removes specific air contaminants by passing ambient air through the air-purifying element.		"Air-purifying respirator" means a respirator with an air purifying filter, cartridge, or canister that removes specific air contaminants by passing ambient air through the air-purifying element.		"Air-purifying respirator" means a respirator with an air-purifying filter, cartridge, or canister that removes specific air contaminants by passing ambient air through the air-purifying element.		"Air-purifying means a res an air-purify cartridge, or removes sp contaminan ambient air air-purifying {A.2 Mar.'03	ing filter, canister tha ecific air ts by passing through the element.	t			Air-purifying respirator means a respirator with an air-purifying filter, cartridge, or canister that removes specific air contaminants by passing ambient air through the air-purifying element. {§20.1003, B}
61						Page A2								
62														

	Α	В	С	D	E	F	G	Н		1	J	K	L	М
1	CCR §	Line	2010-07-01 CCR effective	Note	2007-08-30 CCR	SSR §	2008-06 SSR draft	SSR Part A changes	2008-01-04	SSRCR	Cat	RATS	01-01-2009 CFR	2007-12-14 10 CFR
2	Part 1 Section		Adopted 10/21/2009, effective 07/01/2010	2010-07-01 vs. prior language	Adopted 07/18/2007, effective 08/30/2007	Part A Section	As of 11-25-2009, no action on 2008 draft	2003-03 v. 2008-06	Per concord Terry Devin					Per concordance by Terry Devine, CRCPD
63	§1.2.2	91	"Airborne radioactive material" means any radioactive material dispersed in the air in the form of dusts, fumes, particulates, mists, vapors, or gases.	=	"Airborne radioactive material" means any radioactive material dispersed in the air in the form of dusts, fumes, particulates, mists, vapors, or gases.	=§A.2	"Airborne radioactive material" means any radioactive material dispersed in the air in the form of dusts, fumes, particulates, mists, vapors, or gases.	=	"Airborne ra material" me radioactive i dispersed in the form of of particulates vapors, or g Mar.'03}	eans any material n the air in dusts, fumes, , mists,	A			Airborne radioactive material means radioactive material dispersed in the air in the form of dusts, fumes, particulates, mists, vapors, or gases. {§20.1003, A}
	§1.2.2	93	"Airborne radioactivity area" means a room, enclosure, or area in which airborne radioactive material exists in a concentration:	The definition of "airborne radioactivity area" is modified for clarity by substituting singular for plural.	"Airborne radioactivity area" means a room, enclosure, or area in which airborne radioactive materials exist in concentrations:	~§A.2	"Airborne radioactivity area" means a room, enclosure, or area in which airborne radioactive materials exist in concentrations:	=	"Airborne ra area" mean enclosure, c which airbor radioactive exist in cond	s a room, or area in rne materials				Airborne radioactivity area means a room, enclosure, or area in which airborne radioactive materials, composed wholly or partly of licensed material, exist in concentrations
64	§1.2.2	95	(1) In excess of the derived air concentration (DAC) specified in Appendix 4B, Table 4B1; or	DAC is singular rather than plural.	 (1) In excess of the derived air concentrations (DACs) specified in Appendix 4B, Table 4B1, or 	~§A.2	(1) In excess of the derived air concentrations (DAC's) specified in Appendix B, Table I of Part D of these regulations; or	=	(1)In excess derived air concentratic specified in Table I of Pa these regula	ons (DAC's) Appendix B, art D of				(1)In excess of the derived air concentrations (DACs)specified in appendix B, to §§ 20.1001-20.2401, or
	§1.2.2	97	(2) To such a degree that an individual present in the area without respiratory protective equipment could exceed, during the hours an individual is present in a week, an intake of 0.6 percent of the annual limit on intake (ALI) or 12 DAC hours.	=	(2) To such a degree that an individual present in the area without respiratory protective equipment could exceed, during the hours an individual is present in a week, an intake of 0.6 percent of the annual limit on intake (ALI) or 12 DAC hours.	=§A.2	(2) To such a degree that an individual present in the area without respiratory protective equipment could exceed, during the hours an individual is present in a week, an intake of 0.6 percent of the annual limit on intake (ALI) or 12 DAC-hours.		an individua the area wit respiratory p equipment o exceed, dur an individua in a week, a	hout protective could ing the hours il is present in intake of of the annual ke (ALI) or				(2)To such a degree that an individual present in the area without respiratory protective equipment could exceed, during the hours an individual is present in a week, an intake of 0.6 percent of the annual limit on intake (ALI)or 12 DAC-hours. {§20.1003, A}
66	04.0.0					0.4.2								
67	§1.2.2	101	"Airline respirator". See "supplied-air respirator".	The cross- reference for "airline respirator", from RATS 1999- 3 is reformatted by removing the parentheses.	"Airline respirator" (see "supplied-air respirator").	~§A.2	"Airline respirator" (see "Supplied-air respirator (SAR)").	=	"Airline resp "Supplied-ai (SAR)"). {A.	ir respirator				

	A	В	С	D	E	F	G	Н	I	J	K	L	М
	CCR §	Line	2010-07-01 CCR	Note	2007-08-30 CCR	SSR §	2008-06 SSR draft	SSR Part A	2008-01-04 SSRCR	Cat	RATS	01-01-2009 CFR	2007-12-14 10 CFR
1			effective					changes					
	Part 1		Adopted 10/21/2009,	2010-07-01 vs.	Adopted 07/18/2007,	Part A	As of 11-25-2009, no	2003-03 v.	Per concordance by				Per concordance by
2	Section		effective 07/01/2010	prior language	effective 08/30/2007	Section	action on 2008 draft	2008-06	Terry Devine, CRCPD				Terry Devine, CRCPD
	§1.2.2	102	"Alert" means an event	The definition of	"Alert" means an event	≠§A.2		A definition of	"Alert" means an event				Alert means events may
			may occur, is in	"alert" is reworded	may occur, is in			"alert" is not	may occur, is in				occur, are in progress,
			progress, or has	slightly. The	progress, or has			added to 2008	progress, or has				or have occurred that
			occurred that could lead	··· · · · · / · · · · ·	occurred that could lead			Part A.	occurred that could lead				could lead to a release
			to a release of		to a release of				to a release of				of radioactive material[s]
			radioactive material but	J. J.	radioactive material but				radioactive material but				but that the release is
			that the release is not	person includes	that the release is not				that the release is not				not expected to require a
			expected to require a	more than	expected to require a				expected to require a				response by offsite
			response by offsite	individuals.	response by offsite				response by offsite				response organizations
			response organizations to protect any		response organizations				response organizations				to protect persons
			individual(s) offsite.		to protect persons offsite.				to protect persons offsite. {P.3 Aug.'01}				offsite. {§30.4, A ; §40.4, A ; §70.4, A}
			mumuuai(s) onsite.		Unsite.				Ulisite. (F.3 Aug. 01)				940.4, A, 970.4, A}
68													
	1	Page											
69		1-4											
	§1.2.2	105	"ALI". See "annual limit	A cross-reference		≠§A.2							
			of intake".	for the acronymn									
				"ALI" is added.									
70													

	A	В	С	D	E	F	G	Н			J	K	L	М
1	CCR §		2010-07-01 CCR effective	Note	2007-08-30 CCR	SSR §	2008-06 SSR draft	SSR Part A changes	2008-01-04	SSRCR	Cat	RATS	01-01-2009 CFR	2007-12-14 10 CFR
	Part 1		Adopted 10/21/2009,	2010-07-01 vs.	Adopted 07/18/2007,	Part A	As of 11-25-2009, no	2003-03 v.	Per concord					Per concordance by
	Section		effective 07/01/2010	prior language		Section	action on 2008 draft	2008-06	Terry Devin					Terry Devine, CRCPD
	§1.2.2	106	"Annual limit on intake"	=	"Annual limit on intake"	~§A.2		A definition of	"Annual limi					Annual limit on intake
			(ALI) means the derived		(ALI) means the derived			"annual limit of	(ALI) means					(ALI)means the derived
			limit for the amount of		limit for the amount of			intake" is not	limit for the	amount of				limit for the amount of
			radioactive material		radioactive material			added to 2008	radioactive	material				radioactive material
			taken into the body of an		taken into the body of an			Part A.	taken into th	ne body of an				taken into the body of an
			adult worker by		adult worker by				adult worker	r by				adult worker by
			inhalation or ingestion in		inhalation or ingestion in				inhalation or	r ingestion in				inhalation or ingestion in
			a year. ALI is the smaller		a year. ALI is the smaller				a year. ALI	is the				a year. ALI is the smaller
			value of intake of a given		value of intake of a given					e of intake of				value of intake of a given
			radionuclide in a year by		radionuclide in a year by					onuclide in a				radionuclide in a year by
			the reference man that		the reference man that				year by the	reference				the reference man that
			would result in a		would result in a					ould result in				would result in a
1			committed effective		committed effective				a committee					committed effective
			dose equivalent of 0.05		dose equivalent of 0.05				dose equiva					dose equivalent of 5
			Sv (5 rem) or a		Sv (5 rem) or a				Sievert (5 re					rems (0.05 Sv)or a
			committed dose		committed dose				committed of					committed dose
			equivalent of 0.5 Sv (50		equivalent of 0.5 Sv (50					of 0.5 Sievert				equivalent of 50 rems
			rem) to any individual		rem) to any individual				(50 rem) to					(0.5 Sv) to any individual
			organ or tissue. ALI		organ or tissue. ALI				individual or					organ or tissue. (ALI
			values for intake by		values for intake by				tissue. ALI					values for intake by
			ingestion and by		ingestion and by				intake by ing					ingestion and by
			inhalation of selected		inhalation of selected					-				inhalation of selected
										n of selected				
			radionuclides are given		radionuclides are given				radionuclide					radionuclides are given
			in Part 4, Appendix 4B,		in Part 4, Appendix 4B,				in Table I, C					in Table 1, Columns 1
			Table 4B1, Columns 1		Table 4B1, Columns 1				and 2, of Ap					and 2, of appendix B to
			and 2.		and 2.				{D.1003 Ma	r.'03}				§§ 20.1001-20.2401).
														{20.1003, A}
71														
	§1.2.2	112	"Annually" means either:	The definition of	"Annually" means either	~§A.2		A definition of	"Annually" n	neans either:				Annually means either
	°		5	"annually" is	(1) at intervals not to	°,		"annually" is	(1) At interv					(1) at intervals not to
				reformatted	exceed 1 year or (2)			not added to	exceed one	vear or (2)				exceed 1 year or (2)
				slightly.	once per year, at about			2008 Part A.	Once per ye					once per year, at about
1					the same time each year					ne each year				the same time each year
1					(plus or minus 1 month).				(plus or min	,				(plus or minus 1 month).
1									month). {Q.2					{§36.2, D}
														(300.2, 2)
72														
	§1.2.2		(1) At intervals not to											
73	01.0.0		exceed 1 year; or											
1	§1.2.2		(2) Once per year, at											
			about the same time											
1			each year (plus or minus											
74			1 month).											

	Α	В	С	D	E	F	G	Н		J	K	L	М
	CCR §	Line	2010-07-01 CCR	Note	2007-08-30 CCR	SSR §	2008-06 SSR draft	SSR Part A	2008-01-04 SSRCR	Cat	RATS	01-01-2009 CFR	2007-12-14 10 CFR
1			effective					changes					
	Part 1		Adopted 10/21/2009,	2010-07-01 vs.	Adopted 07/18/2007,	Part A	As of 11-25-2009, no	2003-03 v.	Per concordance by				Per concordance by
2	Section		effective 07/01/2010	prior language	effective 08/30/2007	Section	action on 2008 draft	2008-06	Terry Devine, CRCPD				Terry Devine, CRCPD
	§1.2.2	115	"ANSI" means the	=	"ANSI" means the	≠§A.2		No definition of					
			American National		American National			"ANSI" exists					
			Standards Institute.		Standards Institute.			in 2008 Part A.					
75													
	§1.2.2	116	"Area of use" means a	A definition of		~§A.2		A definition of	"Area of use" means a				Area of use means a
			portion of an address of	"area of use" is				"area of use" is	portion of an address of				portion of an address of
			use that has been set	added to Part 1				not added to	use that has been set				use that has been set
			aside for the purpose of	that can be used				2008 Part A.	aside for the purpose of				aside for the purpose of
			receiving, producing,	generically for					receiving, using, or				receiving, preparing,
			preparing, processing,	both radioactive					storing radioactive				using, or storing
			using, or storing	materials and					material. {G.2 Mar.'03}				byproduct material.
			radioactive material or	radiation									{§35.2, D}
			installing, operating,	machines.									
			repairing or storing a										
			radiation machine.										
76													

	Α	В	С	D	E	F	G	Н	I	J	K	L	М
	CCR §	Line	2010-07-01 CCR	Note	2007-08-30 CCR	SSR §	2008-06 SSR draft	SSR Part A	2008-01-04 SSRCR	Cat	RATS	01-01-2009 CFR	2007-12-14 10 CFR
1			effective					changes					
	Part 1		Adopted 10/21/2009,	2010-07-01 vs.	Adopted 07/18/2007,	Part A	As of 11-25-2009, no	2003-03 v.	Per concordance by				Per concordance by
2	Section		effective 07/01/2010	prior language	effective 08/30/2007	Section	action on 2008 draft	2008-06	Terry Devine, CRCPD				Terry Devine, CRCPD
	§1.2.2	121	"As low as is reasonably	A definition of "as		=§A.2	"As low as is reasonably	=	"As low as is reasonably	Α			ALARA (acronym for "as
			achievable" (ALARA)	low as is			achievable" (ALARA)		achievable" (ALARA)				low as is reasonably
			means making every	reasonably			means making every		means making every				achievable")means
			reasonable effort to	achievable" is			reasonable effort to		reasonable effort to				making every
			maintain exposures to	added to 2010			maintain exposures to		maintain exposures to				reasonable effort to
			radiation as far below	Part 1. The			radiation as far below		radiation as far below				maintain exposures to
			the dose limits in these	definition is the			the dose limits in these		the dose limits in these				radiation as far below
			regulations as is	same as 2008			regulations as is		regulations as is				the dose limits in this
			practical, consistent with	Part A.			practical, consistent with		practical, consistent with				part as is practical
			the purpose for which				the purpose for which		the purpose for which				consistent with the
			the licensed or				the licensed or		the licensed or				purpose for which the
			registered activity is				registered activity is		registered activity is				licensed activity is
			undertaken, taking into				undertaken, taking into		undertaken, taking into				undertaken, taking into
			account the state of				account the state of		account the state of				account the state of
			technology, the				technology, the		technology, the				technology, the
			economics of				economics of		economics of				economics of
			improvements in relation				improvements in relation		improvements in relation				improvements in relation
			to state of technology,				to state of technology,		to state of technology,				to state of technology,
			the economics of				the economics of		the economics of				the economics of
			improvements in relation				improvements in relation		improvements in relation				improvements in relation
			to benefits to the public				to benefits to the public		to benefits to the public				to benefits to the public
			health and safety, and				health and safety, and		health and safety, and				health and safety, and
			other societal and				other societal and		other societal and				other societal and
			socioeconomic				socioeconomic		socioeconomic				socioeconomic
			considerations, and in				considerations, and in		considerations, and in				considerations, and in
			relation to utilization of				relation to utilization of		relation to utilization of				relation to utilization of
			nuclear energy and				nuclear energy and		nuclear energy and				nuclear energy and
			licensed or registered				licensed or registered		licensed or registered				licensed materials in the
			sources of radiation in				sources of radiation in		sources of radiation in				public interest.
			the public interest.				the public interest.		the public interest. {A.2				{§20.1003, A; §34.3,
									Mar.'03}				A}
77													

CCF 1 2 Sec §1.2	t 1 tion	128	effective Adopted 10/21/2009,	Note 2010-07-01 vs. prior language =	"Assigned protection factor" (APF) means the expected workplace level of respiratory protection that would be provided by a properly	SSR § Part A Section =§A.2	2008-06 SSR draft As of 11-25-2009, no action on 2008 draft "Assigned Protection Factor (APF)" means the expected workplace level of respiratory	SSR Part A changes 2003-03 v. 2008-06 =	2008-01-04 SSRCR Per concordance by Terry Devine, CRCPD "Assigned Protection Factor (APF)" means the expected workplace	Cat B	RATS	01-01-2009 CFR	2007-12-14 10 CFR Per concordance by Terry Devine, CRCPD Assigned protection factor (APF) means the
2 Sec	tion	128	Adopted 10/21/2009, effective 07/01/2010 'Assigned protection factor" (APF) means the expected workplace evel of respiratory protection that would be provided by a properly functioning respirator or a class of respirators to		effective 08/30/2007 "Assigned protection factor" (APF) means the expected workplace level of respiratory protection that would be provided by a properly	Section	action on 2008 draft "Assigned Protection Factor (APF)" means the expected workplace level of respiratory	2003-03 v. 2008-06 =	Terry Devine, CRCPD "Assigned Protection Factor (APF)" means the	_			Terry Devine, CRCPD Assigned protection
2 Sec	tion	128	effective 07/01/2010 "Assigned protection factor" (APF) means the expected workplace evel of respiratory protection that would be provided by a properly functioning respirator or a class of respirators to		effective 08/30/2007 "Assigned protection factor" (APF) means the expected workplace level of respiratory protection that would be provided by a properly	Section	action on 2008 draft "Assigned Protection Factor (APF)" means the expected workplace level of respiratory	2008-06	Terry Devine, CRCPD "Assigned Protection Factor (APF)" means the	_			Terry Devine, CRCPD Assigned protection
		128	Assigned protection factor" (APF) means the expected workplace evel of respiratory protection that would be provided by a properly functioning respirator or a class of respirators to	prior language =	"Assigned protection factor" (APF) means the expected workplace level of respiratory protection that would be provided by a properly		"Assigned Protection Factor (APF)" means the expected workplace level of respiratory	=	"Assigned Protection Factor (APF)" means the	_			Assigned protection
§1.2	2.2		factor" (APF) means the expected workplace evel of respiratory protection that would be provided by a properly functioning respirator or a class of respirators to	=	factor" (APF) means the expected workplace level of respiratory protection that would be provided by a properly	=§A.2	Factor (APF)" means the expected workplace level of respiratory		Factor (APF)" means the	_			
			expected workplace evel of respiratory protection that would be provided by a properly functioning respirator or a class of respirators to		expected workplace level of respiratory protection that would be provided by a properly		expected workplace level of respiratory						factor (APF) means the
			evel of respiratory protection that would be provided by a properly functioning respirator or a class of respirators to		level of respiratory protection that would be provided by a properly		level of respiratory		expected workplace				
			protection that would be provided by a properly functioning respirator or a class of respirators to		protection that would be provided by a properly								expected workplace
		•	provided by a properly functioning respirator or a class of respirators to		, provided by a properly				level of respiratory				level of respiratory
			functioning respirator or a class of respirators to				protection that would be		protection that would be				protection that would be
			a class of respirators to				provided by a properly		provided by a properly				provided by a properly
					functioning respirator or		functioning respirator or		functioning respirator or a class of respirators to				functioning respirator or a class of respirators to
					a class of respirators to properly fitted and		a class of respirators to properly trained and		properly trained and				properly fitted and
			trained users.		trained users.		fitted users.		fitted users.				trained users.
			Operationally, the		Operationally, the		Operationally, the		Operationally, the				Operationally, the
			nhaled concentration		inhaled concentration		inhaled concentration		inhaled concentration				inhaled concentration
			can be estimated by		can be estimated by		can be estimated by		can be estimated by				can be estimated by
			dividing the ambient		dividing the ambient		dividing the ambient		dividing the ambient				dividing the ambient
			airborne concentration		airborne concentration		airborne concentration		airborne concentration				airborne concentration
			by the APF.		by the APF.		by the APF.		by the APF. {A.2				by the APF. {§20.1003,
									Mar.'03}				B}
78					-								
§1.2	2.2		'Atmosphere supplying	=		=§A.2	"Atmosphere-supplying	=	"Atmosphere-supplying	В			Atmosphere-supplying
			respirator" means a		respirator" means a		respirator" means a		respirator" means a				respirator means a
			respirator that supplies		respirator that supplies		respirator that supplies		respirator that supplies				respirator that supplies
			the respirator user with preathing air from a		the respirator user with		the respirator user with breathing air from a		the respirator user with				the respirator user with breathing air from a
			source independent of		breathing air from a source independent of		source independent of		breathing air from a source independent of				source independent of
			the ambient atmosphere,		the ambient atmosphere,		the ambient atmosphere,		the ambient atmosphere,				the ambient atmosphere,
			and includes supplied air		and includes supplied-air		and includes supplied-air		and includes supplied-air				and includes supplied-air
			respirators (SAR) and		respirators (SAR) and		respirators (SAR's) and		respirators (SAR's) and				respirators (SARs)and
			self-contained breathing		self-contained breathing		self-contained breathing		self-contained breathing				self-contained breathing
			apparatus (SCBA) units.		apparatus (SCBA) units.		apparatus (SCBA) units.		apparatus (SCBA) units.				apparatus (SCBA) units.
			,						{A.2 Mar.'03}				{§20.1003, B}
									-				-
79													
	Р	Page											
80		1-5											

	Α	В	С	D	E	F	G	Н		J	K	L	М
	CCR §	Line	2010-07-01 CCR	Note	2007-08-30 CCR	SSR §	2008-06 SSR draft	SSR Part A	2008-01-04 SSRCR	Cat	RATS	01-01-2009 CFR	2007-12-14 10 CFR
1			effective					changes					
	Part 1		Adopted 10/21/2009,	2010-07-01 vs.	Adopted 07/18/2007,	Part A	As of 11-25-2009, no	2003-03 v.	Per concordance by				Per concordance by
2	Section		effective 07/01/2010	prior language	effective 08/30/2007	Section	action on 2008 draft	2008-06	Terry Devine, CRCPD				Terry Devine, CRCPD
81	§1.2.2	135	meets the Appendix 7B requirements that are applicable to a type of	medical physicist"		≠§A.2							

	Α	В	С	D	E	F	G	Н	1		J	К	L	М
1	CCR §	Line	2010-07-01 CCR effective	Note	2007-08-30 CCR	SSR §	2008-06 SSR draft	SSR Part A changes	2008-01-04 SSRCF	t Ca	at	RATS	01-01-2009 CFR	2007-12-14 10 CFR
2	Part 1 Section		Adopted 10/21/2009, effective 07/01/2010	2010-07-01 vs. prior language	Adopted 07/18/2007, effective 08/30/2007	Part A Section	As of 11-25-2009, no action on 2008 draft	2003-03 v. 2008-06	Per concordance by Terry Devine, CRC	PD				Per concordance by Terry Devine, CRCPD
82	§1.2.2		Background radiation" means radiation from:	The definition of "background radiation" is reformatted for clarity by numbering the subclauses. The definition of "background radiation" as improved in 2007 by the Colorado Radiation Advisory Committee differs slightly in wording from 10 CFR and the SSRCR.	"Background radiation" means radiation from: (1) extraterrestrial sources; (2) naturally occurring radioactive material (which has not been technologically enhanced), including radon, except as a decay product of source or special nuclear material; and (3) global fallout as it exists in the environment from the testing of nuclear explosive devices or from past nuclear accidents such as Chernobyl that are not under the control of the licensee or registrant. "Background radiation" does not include sources of radiation from radioactive materials regulated by the Department.	~§A.2 ≠§A.2	"Background radiation" means radiation from cosmic sources; naturally occurring radioactive material, (which has not been technologically enhanced), including radon, (except as a decay product of source or special nuclear material); and global fallout as it exists in the environment from the testing of nuclear explosive devices, or from past nuclear accidents such as Chernobyl that contribute to background radiation and are not under the control of the licensee or registrant. "Background radiation" does not include sources of radiation from radioactive materials regulated by the Agency		"Background radiat means radiation fro cosmic sources, naturally occurring radioactive material (which has not been technologically enhanced) including radon, except as a decay product of so or special nuclear material, and includ global fallout as it e in the environment the testing of nuclear explosive devices, of from past nuclear accidents such as Chernobyl that contribute to backg radiation and are no under the control of licensee or registral "Background radiati does not include so of radiation from radioactive material regulated by the Ag {A.2 Mar.'03}	m s, n g wurce ing xists from ar or round ot t the nt. ion" urces s				Background radiation means radiation from cosmic sources; naturally occurring radioactive material, including radon (except as a decay product of source or special nuclear material); and global fallout as it exists in the environment from the testing of nuclear explosive devices or from past nuclear accidents such as Chernobyl that contribute to background radiation and are not under the control of the licensee. "Background radiation" does not include radiation from source, byproduct, or special nuclear materials regulated by the Commission. {§20.1003, A}
83			sources;											
84	§1.2.2	140	(2) naturally occurring radioactive material (which has not been technologically enhanced), including radon (except as a decay product of source or special nuclear material); and			≠§A.2								

	А	В	С	D	E	F	G	H	I		J	K	L	М
	CCR §	Line	2010-07-01 CCR	Note	2007-08-30 CCR	SSR §	2008-06 SSR draft	SSR Part A	2008-01-04 SSRC	R	Cat	RATS	01-01-2009 CFR	2007-12-14 10 CFR
1			effective					changes						
	Part 1		Adopted 10/21/2009,	2010-07-01 vs.	Adopted 07/18/2007,	Part A	As of 11-25-2009, no	2003-03 v.	Per concordance b	by				Per concordance by
2	Section		effective 07/01/2010	prior language	effective 08/30/2007	Section	action on 2008 draft	2008-06	Terry Devine, CRC	CPD				Terry Devine, CRCPD
	§1.2.2	143	(3) global fallout as it			≠§A.2								
			exists in the environment											
			from the testing of											
			nuclear explosive											
			devices or from past											
			nuclear accidents such											
			as Chernobyl that are not under the control of											
			the licensee or											
			registrant.											
			registrant.											
85														
	§1.2.2	145		In the definition of										
				"background										
				radiation", the										
				redundant and										
				possibly self-										
				contradictory phrase "does not										
				include sources of										
				radiation from										
				radioactive										
				materials										
				regulated by the										
				Department" is										
				deleted.										
86														
00						Page A3								
87						Page AS								
	§1.2.2	146	"Becquerel" (Bq) means	=	"Becquerel" (Bq) means	~§A.2	"Becquerel" (Bq) means		"Becquerel" (Bq) n					Becquerel (Bq) means
			the SI unit of activity.		the SI unit of activity.		the SI unit of activity.		the SI unit of activi					one disintegration per
			One becquerel is equal		One becquerel is equal		One becquerel is equal		One becquerel is e					second. {§34.3, A}
			to 1 disintegration per		to 1 disintegration per		to 1 disintegration or		to 1 disintegration					
			second or transformation		second or transformation	1	transformation per		transformation per					
			per second (dps or s-1).		per second (dps or s-1).		second (dps or tps).		second (dps or tps	s). {A.2				
									Mar.'03}					
88														

	Α	В	С	D	E	F	G	Н			J	K	L	М
	CCR §		2010-07-01 CCR	Note	2007-08-30 CCR	SSR §	2008-06 SSR draft	SSR Part A	2008-01-04	SSRCR	Cat	RATS	01-01-2009 CFR	2007-12-14 10 CFR
1			effective					changes						
	Part 1			2010-07-01 vs.	Adopted 07/18/2007,	Part A	As of 11-25-2009, no	2003-03 v.	Per concord					Per concordance by
2	Section			prior language		Section	action on 2008 draft	2008-06	Terry Devin	-				Terry Devine, CRCPD
	§1.2.2		"Bioassay" means the	=	"Bioassay" means the	=§A.2	"Bioassay" means the		"Bioassay"					Bioassay
			determination of kinds,		determination of kinds,		determination of kinds,		determinatio					(radiobioassay) means
			quantities or		quantities or		quantities or		quantities o					the determination of
			concentrations, and, in		concentrations, and, in some cases, the		concentrations, and, in		concentratio					kinds, quantities or
			some cases, the locations of radioactive		locations of radioactive		some cases, the locations of radioactive		some cases locations of					concentrations, and, in some cases, the
			material in the human		material in the human		material in the human		material in t					locations of radioactive
			body, whether by direct		body, whether by direct		body, whether by direct		body, wheth					material in the human
			measurement, in-vivo		measurement, in-vivo		measurement, in vivo		measureme					body, whether by direct
			counting, or by analysis		counting, or by analysis		counting, or by analysis			by analysis				measurement (in vivo
			and evaluation of		and evaluation of		and evaluation of		and evaluat					counting)or by analysis
1			materials excreted or		materials excreted or		materials excreted or		materials ex	creted or				and evaluation of
1			removed from the		removed from the		removed from the		removed fro					materials excreted or
			human body. For		human body. For		human body. For		human body					removed from the
			purposes of these		purposes of these		purposes of these		purposes of					human body. {§20.1003,
			regulations,		regulations,		regulations,		regulations,					A}
			"radiobioassay" is an		"radiobioassay" is an		"radiobioassay" is an		"radiobioass					
			equivalent term.		equivalent term.		equivalent term.		equivalent to Mar.'03}	erm. {A.Z				
									Ivial. 03}					
89														
03	§1.2.2	154	"Brachytherapy" means	The Colorado	"Brachytherapy" means	≠§A.2	"Brachytherapy" means	SSRCR Part X	"Brachyther	apy" means				Brachytherapy means a
	31.2.2				a method of radiation	/ 3/ 1.2	a method of radiation	just adapted	a method of					method of radiation
				improved from	therapy in which plated,		therapy in which sealed	the existing		hich [plated,				therapy in which sources
			plated, embedded,		embedded, activated, or		sources are utilized to	SSRCR Part A		or activated]				are used to deliver a
			activated, or electronic	and includes	sealed sources are		deliver a radiation dose	definition.	sealed sour	ces are				radiation dose at a
			sources are utilized to	electronic	utilized to deliver a		at a distance of up to a		utilized to de	eliver a				distance of up to a few
				brachytherapy.	radiation dose at a		few centimeters, by		radiation do					centimeters by surface,
			at a distance of up to a		distance of up to a few		surface, intracavitary, or		distance of	•				intracavitary,
			few centimeters, by		centimeters, by surface,		interstitial application.			, by surface,				intraluminal, or interstitial
			surface, intracavitary, intraluminal or interstitial		intracavitary, intraluminal or interstitial application.				intracavitary interstitial a					application. {§35.2, D}
			application.		or interstitial application.				{A.2 Mar.'03					
1									Mar.'03}	, 0.2				
1														
1														
90														
1	§1.2.2		"Business day" means			≠§A.2								
1			any day of the year,	"business day" is										
1			exclusive of Saturdays,	added.										
1			Sundays, and State of Colorado holidays.											
			Colorado Holludys.											
91	4	Davis												
00		Page 1-6												
92		1-0												

	Α	В	С	D	E	F	G	Н		J	K	L	М
	CCR §	Line	2010-07-01 CCR	Note	2007-08-30 CCR	SSR §	2008-06 SSR draft	SSR Part A	2008-01-04 SSRCR	Cat	RATS	01-01-2009 CFR	2007-12-14 10 CFR
1			effective					changes					
•	Part 1		•	2010-07-01 vs.	Adopted 07/18/2007,	Part A	As of 11-25-2009, no		Per concordance by				Per concordance by
2	Section	450		prior language	effective 08/30/2007	Section	action on 2008 draft	2008-06	Terry Devine, CRCPD				Terry Devine, CRCPD
	§1.2.2	159	Byproduct material means:	=	Byproduct material means:	=§A.2	"Byproduct material" means:	=	"Byproduct material" means:	H&S	Added to 20.1003; 72	Byproduct material means-	Byproduct material means—
			means.		means.		ineans.		illeans.		ER 55864;	Inedits-	means—
											RATS ID		
											2007-3		
93													
	§1.2.2	160	(1) Any radioactive	=	(1) Any radioactive	=§A.2	(1) Any radioactive	=	(1) Any radioactive	H&S		(1) Any radioactive	(1)Any radioactive
			material, except special		material, except special		material, except special		material, except special			material (except special	material (except special
			nuclear material, yielded		nuclear material, yielded		nuclear material, yielded		nuclear material, yielded			nuclear material) yielded	nuclear material)yielded
			in or made radioactive by exposure to the		in or made radioactive by exposure to the		in or made radioactive by exposure to the		in or made radioactive by exposure to the			in, or made radioactive by, exposure to the	in, or made radioactive by, exposure to the
			radiation incident to the		radiation incident to the		radiation incident to the		radiation incident to the			radiation incident to the	radiation incident to the
			process of producing or		process of producing or		process of producing or		process of producing or			process of producing or	process of producing or
			utilizing special nuclear		utilizing special nuclear		utilizing special nuclear		utilizing special nuclear			using special nuclear	using special nuclear
			material;		material;		material;		material; and			material;	material;
94													
	§1.2.2	163	(2) The tailings or	Note the	(2) The tailings or	~§A.2	(2) The tailings or	=	(2) The tailings or	H&S		(2) The tailings or	(2) The tailings or
			wastes produced by the	• ·	wastes produced by the		wastes produced by the		wastes produced by the	[was		wastes produced by the	wastes produced by the
			extraction or concentration of uranium	of definition (2)	extraction or concentration of uranium		extraction or concentration of uranium		extraction or concentration of uranium	A]		extraction or	extraction or concentration of uranium
			or thorium from ore	under "byproduct material" in	or thorium from ore		or thorium from ore		or thorium from ore	1		or thorium from ore	or thorium from ore
			processed primarily for	relation to in situ	processed primarily for		processed primarily for		processed primarily for			processed primarily for	processed primarily for
			its source material	uranium recovery	its source material		its source material		its source material			its source material	its source material
			content, including	processes.	content, including		content, including		content, including			content, including	content, including
			discrete surface wastes		discrete surface wastes		discrete surface wastes		discrete surface wastes			discrete surface wastes	discrete surface wastes
			resulting from uranium		resulting from uranium		resulting from uranium		resulting from uranium			resulting from uranium	resulting from uranium
			or thorium solution extraction processes		or thorium solution extraction processes		or thorium solution extraction processes.		or thorium solution extraction processes.			solution extraction	solution extraction processes. Underground
			(underground ore bodies		(underground ore bodies		Underground ore bodies		Underground ore bodies			ore bodies depleted by	ore bodies depleted by
			depleted by these		depleted by these		depleted by these		depleted by these			these solution extraction	these solution extraction
			solution extraction		solution extraction		solution extraction		solution extraction			operations do not	operations do not
			operations do not		operations do not		operations do not		operations do not			constitute "byproduct	constitute "byproduct
			constitute "byproduct		constitute "byproduct		constitute "byproduct		constitute "byproduct			material" within this	material" within this
			material" within this		material" within this		material" within this definition.		material" within this			definition;	definition;
			definition);		definition);				definition. {A.2 Mar.'03}				
95													
00		1	1	1	1	1	1	1	1	1	1		

	A	В	С	D	E	F	G	Н			J	K	L	М
1	CCR §	Line	2010-07-01 CCR effective	Note	2007-08-30 CCR	SSR §	2008-06 SSR draft	SSR Part A changes	2008-01-04	SSRCR	Cat	RATS	01-01-2009 CFR	2007-12-14 10 CFR
2	Part 1 Section		Adopted 10/21/2009, effective 07/01/2010	2010-07-01 vs. prior language	Adopted 07/18/2007, effective 08/30/2007	Part A Section	As of 11-25-2009, no action on 2008 draft	2003-03 v. 2008-06	Per concord Terry Devin					Per concordance by Terry Devine, CRCPD
96	§1.2.2	168	(3) Any material produced, extracted, or converted after extraction, for use for a commercial, medical, or research activity, that:	=	(3) Any material produced, extracted, or converted after extraction, for use for a commercial, medical, or research activity that:	~§A.2						Added to 20.1003; 72 FR 55864; RATS ID 2007-3		
	§1.2.2	170	(a) Is a discrete source of radium-226; or	=	(a) Is a discrete source of radium-226; or	~§A.2	(3)(i) Any discrete source of radium-226 that is produced, extracted, or converted after extraction for use for a commercial, medical, or research activity; or				H&S		(3)(i) Any discrete source of radium-226 that is produced, extracted, or converted after extraction, before, on, or after August 8, 2005, for use for a commercial, medical, or research activity; or	(3)(i) Any discrete source of radium-226 that is produced, extracted, or converted after extraction, before, on, or after August 8, 2005, for use for a commercial, medical, or research activity; or
97 98	§1.2.2	170				~§A.2	(ii) Any material that—				H&S		(ii) Any material that-	(ii) Any material that—
	§1.2.2		(b) Has been made radioactive by use of a particle accelerator; or	=	(b) Has been made radioactive by use of a particle accelerator; or	~§A.2	(A) Has been made radioactive by use of a particle accelerator; and				H&S		(A) Has been made radioactive by use of a particle accelerator; and	(A) Has been made radioactive by use of a particle accelerator; and
	§1.2.2	171				~§A.2	(B) Is produced, extracted, or converted after extraction for use for a commercial, medical, or research activity; and				H&S		(B) Is produced, extracted, or converted after extraction, before, on, or after August 8, 2005, for use for a commercial, medical, or research activity; and	(B) Is produced, extracted, or converted after extraction, before, on, or after August 8, 2005, for use for a commercial, medical, or research activity; and
100	64.0.0	470				64.0					1100	Added to		(1) Anu diagrata aguna
101	§1.2.2	172	(4) Any discrete source of naturally occurring radioactive material, other than source material, that:	=	(4) Any discrete source of naturally occurring radioactive material, other than source material, that:	~§A.2	(4) Any discrete source of naturally occurring radioactive material, other than source material, that—				H&S		(4) Any discrete source of naturally occurring radioactive material, other than source material, that-	(4) Any discrete source of naturally occurring radioactive material, other than source material, that—
	§1.2.2	174	(a) Is extracted, or converted after extraction, for use for a commercial, medical, or research activity; and	=	(a) Is extracted, or converted after extraction, for use for a commercial, medical, or research activity; and	~§A.2								

	A	В	С	D	E	F	G	Н	I	J	K	L	М
	CCR §	Line	2010-07-01 CCR	Note	2007-08-30 CCR	SSR §	2008-06 SSR draft	SSR Part A	2008-01-04 SSRCR	Cat	RATS	01-01-2009 CFR	2007-12-14 10 CFR
1			effective					changes					
	Part 1		Adopted 10/21/2009,	2010-07-01 vs.	Adopted 07/18/2007,	Part A	As of 11-25-2009, no	2003-03 v.	Per concordance by				Per concordance by
2	Section		effective 07/01/2010	prior language	effective 08/30/2007	Section	action on 2008 draft	2008-06	Terry Devine, CRCPD				Terry Devine, CRCPD
	§1.2.2	176	(b) Is determined by	This subsection is	(b) Would pose a threat	~§A.2	(i) The United States			H&S		(i) The Commission, in	(i) The Commission, in
			NRC to pose a threat to	modified to more	to the public health and		Nuclear Regulatory					consultation with the	consultation with the
			the public health and	closely align with	safety similar to the		Commission determines would pose a threat					Administrator of the Environmental	Administrator of the Environmental
			safety or the common defense and security	the final USNRC definition of	threat posed by a discrete source of		similar to the threat					Protection Agency, the	Protection Agency, the
			similar to the threat	"discrete source".	radium-226 or threat		posed by a discrete					Secretary of Energy, the	Secretary of Energy, the
			posed by a discrete	The ability of the	determined by NRC to		source of radium-226 to					Secretary of Homeland	Secretary of Homeland
			source of radium-226.	State to act on	the common defense		the public health and					Security, and the head	Security, and the head
				any threat to	and security.		safety or the common					of any other appropriate	of any other appropriate
				public health and	· · · · · · · · · · · · · · · · · · ·		defense and security;					Federal agency,	Federal agency,
				safety is not			and					determines would pose	determines would pose
				limited by this								a threat similar to the	a threat similar to the
				definitiion or an								threat posed by a	threat posed by a
				NRC public health								discrete source of	discrete source of
				and safety								radium-226 to the public	radium-226 to the public
				determination.								health and safety or the	health and safety or the
												common defense and	common defense and
												security; and	security; and
103													
100	§1.2.2	178				~§A.2	(ii) is extracted or			H&S		(ii) Before, on, or after	(ii) Before, on, or after
	3					3	converted after					August 8, 2005, is	August 8, 2005, is
							extraction for use in a					extracted or converted	extracted or converted
							commercial, medical, or					after extraction for use in	after extraction for use in
							research activity.					a commercial, medical,	a commercial, medical,
												or research activity.	or research activity.
104													
	§1.2.2	178											{ 20.1003, H&S ; §30.4,
													H&S ; §40.4, A
1.													(abridged) ; §150.3,
105													H&S}
1	§1.2.2	179				Page A4							
106													

	Α	В	С	D	E	F	G	Н		I	J	K	L	М
	CCR §	Line	2010-07-01 CCR	Note	2007-08-30 CCR	SSR §	2008-06 SSR draft	SSR Part A	2008-01-04	SSRCR	Cat	RATS	01-01-2009 CFR	2007-12-14 10 CFR
1			effective					changes						
	Part 1		Adopted 10/21/2009,	2010-07-01 vs.	Adopted 07/18/2007,	Part A	As of 11-25-2009, no	2003-03 v.	Per concord					Per concordance by
2	Section		effective 07/01/2010	prior language	effective 08/30/2007	Section	action on 2008 draft	2008-06	Terry Devine	e, CRCPD				Terry Devine, CRCPD
	§1.2.2	179	"Calendar quarter". See		"Calendar quarter"	~§A.2	"Calendar quarter" (see	Changed in	"Calendar qu					
			"quarter".	definition of	means a period of time		"Quarter").	SSRCR 2008	means not le					
				"calendar quarter"	equal to one quarter of			Part A to a	consecutive					
				is deleted,	the year (not less than			cross-	more than 1					
				consistent with	12 consecutive weeks			reference.	consecutive		;			
				2008 Part A.	nor more than 14				first calenda					
				Colorado AGO staff had also	consecutive weeks) providing that the				each year sl January and					
				previously	beginning of the first				calendar qua	•	L			
				suggested	quarter in a year				be so arrang		t			
				clarification of this	coincides with the				no day is inc					
				definition and the	starting date of the year				more than o					
					and that no day of the				quarter and					
				"year".	year is omitted or				any one yea					
				, .	duplicated in successive				from inclusion	on within a				
					quarters. The method				calendar qua					
					used in determining				method obse					
					calendar quarters for				licensee or r					
					purposes of these				determining					
					regulations shall not be				quarters sha					
					changed by any licensee				changed at f					
					or registrant except at				beginning of	a year. (A.2	2			
					the beginning of a year				Mar.'03}					
					(see also "quarter" and "year").									
					year).									
107														
	§1.2.2	179				~§A.2			"Calendar q	uarter"				
									means any o					
									following tim					
									during a give					
									January 1 th					
									31, April 1 th					
									30, July 1 th					
									September 3					
									October 1 th	0				
									December 3	1. {F.13				
108									Dec.'01}					
L.00	1	1						1	1			1	1	

	A	В	С	D	E	F	G	Н		I	J	K	L	М
1	CCR §	Line	2010-07-01 CCR effective	Note	2007-08-30 CCR	SSR §	2008-06 SSR draft	SSR Part A changes	2008-01-04	SSRCR	Cat	RATS	01-01-2009 CFR	2007-12-14 10 CFR
2	Part 1 Section		Adopted 10/21/2009, effective 07/01/2010	2010-07-01 vs. prior language	Adopted 07/18/2007, effective 08/30/2007	Part A Section	As of 11-25-2009, no action on 2008 draft	2003-03 v. 2008-06	Per concord Terry Devin					Per concordance by Terry Devine, CRCPD
	§1.2.2	180	"Calibration" means the determination of:	The definition of "calibration" is reformatted slightly.	"Calibration" means the determination of (1) the response or reading of an instrument relative to a series of known radiation values over the range of the instrument or (2) the strength of a source of radiation relative to a standard.	~§A.2	"Calibration" means the determination of (1) the response or reading of an instrument relative to a series of known radiation values over the range of the instrument, or (2) the strength of a source of radiation relative to a standard.		determination response or an instrume a series of k radiation val	reading of nt relative to nown lues over the instrument, rength of a diation standard.				Calibration means the process of determining the numerical relationship between the observed output of a measurement system and the value, based upon reference standards, of the characteristic being measured. {§74.4}
109														
110	§1.2.2	181	(1) the response or reading of an instrument relative to a series of known radiation values over the range of the instrument; or			~§A.2								
110	§1.2.2	183	(2) the strength of a			~§A.2								
111	-		source of radiation relative to a standard.			0								
112	§1.2.2	184	CCR" means the Colorado Code of Regulations.	=	"CCR" means the Colorado Code of Regulations.	≠§A.2								
113	§1.2.2	185	"CFR" means Code of Federal Regulations.	=	"CFR" means Code of Federal Regulations.	=§A.2	"CFR" means Code of Federal Regulations.	=	"CFR" mear Federal Reg {A.2 Mar.'03 Oct.'96}	ulations.				
114	§1.2.2	186	Chelating agent" means a substance that through binding allows efficient elimination of radionuclide contamination from the human body (decorporation), for example, amine polycarboxylic acids, hydroxy carboxylic acids, and polycarboxylic acids.		"Chelating agent" means a substance that through binding allows efficient elimination of radionuclide contamination from the human body (decorporation), for example, amine polycarboxylic acids, hydroxy carboxylic acids, and polycarboxylic acids.		"Chelating agent" means amine polycarboxylic acids, hydroxycarboxylic acids, gluconic acid, and polycarboxylic acids.		amine polyc acids, hydro	xycarboxylic nic acid, and lic acids.				Chelating agent means amine polycarboxylic acids (e.g., EDTA, DTPA), hydroxy- carboxylic acids, and polycarboxylic acids (e.g., citric acid, carbolic acid, and glucinic acid). {§61.2, B} Chelating agent has the same meaning as that given in § 61.2 of this chapter. {§20 App. G, B?}

	Α	В	С	D	E	F	G	Н			J	K	L	М
1	CCR §	Line	2010-07-01 CCR effective	Note	2007-08-30 CCR	SSR §	2008-06 SSR draft	SSR Part A changes	2008-01-04 S	SRCR	Cat	RATS	01-01-2009 CFR	2007-12-14 10 CFR
2	Part 1 Section			2010-07-01 vs. prior language	Adopted 07/18/2007, effective 08/30/2007	Part A Section	As of 11-25-2009, no action on 2008 draft	2003-03 v. 2008-06	Per concordar Terry Devine,					Per concordance by Terry Devine, CRCPD
445	§1.2.2	189	"Chiropractor" means an individual licensed by a State or Territory of the United States, the District of Columbia or the Commonwealth of Puerto Rico to practice chiropractic health care.	A definition of "chiropractor" is added.		≠§A.2								
115	§1.2.2	101	"Class" means a	=	"Class" means a	≠§A.2		In Part D not	"Class" means	s a				Class (or lung class or
	3		classification scheme for inhaled material according to its rate of clearance from the pulmonary region of the lung. Materials are classified as D, W, or Y, which applies to a range of clearance half-times: for class D, days, of less than 10 days, for class W, weeks, from 10 to 100 days, and for class Y, years, of greater than 100 days. For purposes of these regulations, "lung class" and "inhalation class" are equivalent terms.		classification scheme for inhaled material according to its rate of clearance from the pulmonary region of the lung. Materials are classified as D, W, or Y, which applies to a range of clearance half-times: for class D, days, of less than 10 days, for class W, weeks, from 10 to 100 days, and for class Y, years, of greater than 100 days. For purposes of these regulations, "lung class" and "inhalation class" are equivalent terms.			Part A.	classification s inhaled materi according to it clearance from pulmonary reg lung. Material classified as E which applies of clearance h for Class D, D less than 10 d Class W, Wee 10 to 100 days Class Y, Year greater than 1 For purposes regulations, "It and "inhalation are equivalent {D.1003 Mar."	scheme for ial ts rate of m the gion of the ls are D, W, or Y, to a range half-times: Days, of days, for eks, from s, and for rs, of 100 days. of these ung class" t terms.				inhalation class) means a classification scheme for inhaled material according to its rate of clearance from the pulmonary region of the lung. Materials are classified as D, W, or Y, which applies to a range of clearance half-times: for Class D (Days)of less than 10 days, for Class W (Weeks)from 10 to 100 days, and for Class Y (Years)of greater than 100 days. {§20.1003, A}
116		Dama												
117		Page 1-7												
	§1.2.2	196	"Collective dose" means the sum of the individual doses received in a given period of time by a specified population from exposure to a specified source of radiation.		"Collective dose" means the sum of the individual doses received in a given period of time by a specified population from exposure to a specified source of radiation.	=§A.2	"Collective dose" means the sum of the individual doses received in a given period of time by a specified population from exposure to a specified source of radiation.		"Collective do: the sum of the doses receive given period o specified popu from exposure specified sour radiation. {A.2	e individual ed in a of time by a ulation e to a rce of				Collective dose is the sum of the individual doses received in a given period of time by a specified population from exposure to a specified source of radiation. {§20.103, A}
118														

	Α	В	С	D	E	F	G	Н			J	K	L	М
	CCR §	Line	2010-07-01 CCR	Note	2007-08-30 CCR	SSR §	2008-06 SSR draft	SSR Part A	2008-01-04	SSRCR	Cat	RATS	01-01-2009 CFR	2007-12-14 10 CFR
1			effective					changes						
_	Part 1		Adopted 10/21/2009,	2010-07-01 vs.	Adopted 07/18/2007,	Part A	As of 11-25-2009, no	2003-03 v.	Per concord					Per concordance by
2	Section			prior language	effective 08/30/2007	Section	action on 2008 draft	2008-06	Terry Devin					Terry Devine, CRCPD
	§1.2.2	198	"Commencement of	The definition of		≠§A.2		Not in Part A	"Commence					Commencement of
			,	"commencement						n" means any	'			construction means any
			clearing of land,	of construction" is added to Part 1					clearing of I excavation,					clearing of land,
			excavation or other substantial action related						substantial					excavation, or other substantial action that
			to a proposed activity	both Part 14 and					would adve					would adversely affect
			that would adversely	18.					the environ					the natural environment
			affect the natural						land dispos					of a site but does not
			environment of a site;						The term do	pes not mean	L			include changes
			this term does not						disposal site	e exploration,				desirable for the
			include changes						necessary r					temporary use of the
			desirable for the							e exploration,	с			land for public
			temporary use of the						borings to d					recreational uses,
			land for public recreational uses, limited						other preco	conditions, or				necessary borings to determine site
			borings to determine site							or testing to				characteristics or other
			characteristics as						establish ba	-				preconstruction
			necessary for							related to the				monitoring to establish
			environmental							f the disposal				background information
			assessment or other pre-						site or the p	rotection of				related to the suitability
			construction monitoring						environmen					of a site or to the
			to establish background						{M.2 Jan.'9	1}				protection of
			information related to the											environmental values.
			suitability of a site, or to											{§30.4, D; §40.4, C for
			the protection of environmental values.											states that regulate 11e(2), else D ; §61.2,
			environmental values.											D; §70.4, D}
														D, 970.4, D}
119														
	§1.2.2	204	"Committed dose	=	"Committed dose	=§A.2	"Committed dose	=	"Committed					Committed dose
			equivalent" (H _T ,50)		equivalent" (H _T ,50)		equivalent" (HT,50)		equivalent"	· /				equivalent
			means the dose		means the dose		means the dose		means the					(HT,50)means the dose
			equivalent to organs or		equivalent to organs or		equivalent to organs or		equivalent t					equivalent to organs or
			tissues of reference (T)		tissues of reference (T)		tissues of reference (T) that will be received from			eference (T) received from				tissues of reference (T)that will be received
			that will be received from an intake of radioactive		that will be received from an intake of radioactive		an intake of radioactive			received from	'			from an intake of
			material by an individual		material by an individual		material by an individual			an individual				radioactive material by
			during the 50-year		during the 50-year		during the 50-year		during the 5					an individual during the
			period following the		period following the		period following the		period follow	,				50-year period following
			intake.		intake.		intake.		intake. {A.2					the intake. {§20.1003,
										,				A}
400														
120														

	Α	В	С	D	E	F	G	Н		J	K	L	М
1	CCR §	Line	2010-07-01 CCR effective	Note	2007-08-30 CCR	SSR §	2008-06 SSR draft	SSR Part A changes	2008-01-04 SSRCR	Cat	RATS	01-01-2009 CFR	2007-12-14 10 CFR
2	Part 1 Section		Adopted 10/21/2009, effective 07/01/2010	2010-07-01 vs. prior language	Adopted 07/18/2007, effective 08/30/2007	Part A Section	As of 11-25-2009, no action on 2008 draft	2003-03 v. 2008-06	Per concordance by Terry Devine, CRCPD				Per concordance by Terry Devine, CRCPD
121	§1.2.2	207	"Committed effective dose equivalent" (H_{E} ,50) is the sum of the products of the weighting factors (W_T) applicable to each of the body organs or tissues that are irradiated and the committed dose equivalent to each of these organs or tissues (H_E ,50 = S W_T × H_T ,50).	The symbol for weighting factor (W _T) is added.	"Committed effective dose equivalent" (H_{E} ,50) is the sum of the products of the weighting factors (W_T) applicable to each of the body organs or tissues that are irradiated and the committed dose equivalent to each of these organs or tissues (H_E ,50 = S W_T × H_T ,50).	=§A.2	"Committed effective dose equivalent" (HE, 50) is the sum of the products of the weighting factors (W_T) applicable to each of the body organs or tissues that are irradiated and the committed dose equivalent to each of these organs or tissues (HE,50 = Ó wT HT,50).	=	"Committed effective dose equivalent" (HE, 50) is the sum of the products of the weighting factors (wT) applicable to each of the body organs or tissues that are irradiated and the committed dose equivalent to each of these organs or tissues (HE,50 = Ó wT HT,50). {A.2 Mar.'03}				Committed effective dose equivalent (HE,50)is the sum of the products of the weighting factors applicable to each of the body organs or tissues that are irradiated and the committed dose equivalent to these organs or tissues (HE,50 = Σ WTHT.50). {§20.1003, A}
	§1.2.2	210	"Computer-readable medium" means that the Department's computer can transfer the information from the medium into its memory.	A definition of "computer- readable medium" is added consistent with NRC usage for electronic recordkeeping.				Not in Part A	Computer-readable medium means that the regulatory agency's computer can transfer the information from the medium into its memory. {D App. G Mar.'03}				Computer-readable medium means that the regulatory agency's computer can transfer the information from the medium into its memory. {§20 App. G, B?}
122	§1.2.2	212	"Constraint" (dose constraint) means a value above which specified actions are required.	The word "licensee" is removed to make the definition more broadly useful.	"Constraint" (dose constraint) means a value above which specified licensee actions are required.	=§A.2		Not in Part A	"Constraint (Dose constraint)" means a value above which specified license actions are required. {D.1003 Mar.'03}				Constraint (dose constraint) means a value above which specified licensee actions are required. {§20.1003, C}
124	§1.2.2	213	"Contact hour" means an hour of training received through direct instruction.	A definition of "contact hour" is added.		≠§A.2		Not in Part A	"Contact hour" means an hour of training received through direct instruction. {F.13 Dec.'01}				
	§1.2.2	214	"Continuing education" is lifelong learning to ensure that new information and knowledge is put into practice.	A definition of "continuing education" is added.		≠§A.2							
	§1.2.2	216				≠§A.2		Not in Part A	"Continuing education credit" (See "Continuing education unit"). {F.13 Dec.'01}				

	A	В	С	D	E	F	G	Н			J	K	L	М
	CCR §	Line	2010-07-01 CCR	Note	2007-08-30 CCR	SSR §	2008-06 SSR draft	SSR Part A	2008-01-04	SSRCR	Cat	RATS	01-01-2009 CFR	2007-12-14 10 CFR
1			effective					changes						
	Part 1		Adopted 10/21/2009,	2010-07-01 vs.	Adopted 07/18/2007,	Part A	As of 11-25-2009, no	2003-03 v.	Per concord	lance by				Per concordance by
2	Section		effective 07/01/2010	prior language	effective 08/30/2007	Section	action on 2008 draft	2008-06	Terry Devin	e, CRCPD				Terry Devine, CRCPD
	§1.2.2	216	"Continuing education	The definition of	"Continuing education	≠§A.2		Not in Part A	"Continuing	education				
	-		unit" (CEU) means one	CEU is modified	unit" (CEU) means one				unit" means	one contact				
			documentable contact	slightly.	documentable training or				hour of train	ing. {F.13				
			hour.		education contact hour.				Dec.'01}					
127														
	§1.2.2	217	"Controlled area" means	A definition of		≠§A.2		Not in Part A	"Controlled	area" means				Controlled area means
	0		an area, outside of a	"controlled area"		Ŭ			any area wh	ere the				an area, outside of a
			restricted area but inside	is added					occupancy a					restricted area but inside
			the site boundary,	consisteny with					of those with	nin is subject				the site boundary,
			access to which can be	10 CFR and the					to control ar	nd				access to which can be
			limited for any reason or	SSRCR.					supervision	for the				limited by the licensee
			the occupancy and						purpose of p	protection				for any reason.
			activity of those within is						from radiation					{§20.1003, D}
			subject to supervision.						{AA.2 Nov.'(05}				
128														
	§1.2.2	220	"Cost estimate" means a	=	"Cost estimate" means a	≠§A.2		Not in Part A	"Cost estimation	ate" means a	1			
	č		document containing the		document containing the	Ũ			document c	ontaining the				
			total costs that would be		total costs that would be				total costs t	hat would be				
			incurred if an		incurred if an				incurred if a	n				
			independent contractor		independent contractor				independen	t contractor				
			were hired to perform		were hired to perform				were hired t					
			decommissioning of the		decommissioning of the					ioning of the				
			facility and disposal of		facility and disposal of				facility and o	•				
			radioactive materials at		radioactive materials at				radioactive					
			the facility, and		the facility, and				the facility, a	and				
			associated		associated				associated					
			administrative indirect		administrative indirect				administrati					
			and legal costs to the		and legal costs to the				and legal co					
			Department in		Department in				Agency in c					
			conducting		conducting				decommissi					
			decommissioning		decommissioning				oversight. {	5.5 Jan. 05}				
			oversight.		oversight.									
120														
129														

	A	В	С	D	E	F	G	Н	I	J	K	L	М
	CCR §	Line	2010-07-01 CCR	Note	2007-08-30 CCR	SSR §	2008-06 SSR draft	SSR Part A	2008-01-04 SSRCR	Cat	RATS	01-01-2009 CFR	2007-12-14 10 CFR
1			effective					changes					
	Part 1		Adopted 10/21/2009,	2010-07-01 vs.	Adopted 07/18/2007,	Part A	As of 11-25-2009, no	2003-03 v.	Per concordance by				Per concordance by
	Section		effective 07/01/2010	prior language	effective 08/30/2007	Section	action on 2008 draft	2008-06	Terry Devine, CRCPD				Terry Devine, CRCPD
	§1.2.2		"Critical group" means	=	"Critical group" means	=§A.2	"Critical group" means	=	"Critical group" means				Critical Group means the
			the group of individuals		the group of individuals		the group of individuals		the group of individuals				group of individuals
			reasonably expected to		reasonably expected to		reasonably expected to		reasonably expected to				reasonably expected to
			receive the greatest		receive the greatest		receive the greatest		receive the greatest				receive the greatest
			exposure to residual		exposure to residual		exposure to residual		exposure to residual				exposure to residual
			radioactivity for any		radioactivity for any		radioactivity for any		radioactivity for any				radioactivity for any
			applicable set of		applicable set of		applicable set of		applicable set of				applicable set of
			circumstances.		circumstances.		circumstances.		circumstances. {A.2				circumstances.
									Mar.'03, N.3 Apr.'04, O.3	5			{§20.1003, B}
									Aug.'00}				
130													
	§1.2.2	226	"CRS" means the	=	"CRS" means the	≠§A.2							
	-		Colorado Revised		Colorado Revised								
131			Statutes.		Statutes.								
	§1.2.2	227	"Cumulative air kerma"	=	"Cumulative air kerma"	≠§A.2		A definition of					
	-		means the total air		means the total air			"cumulative air					
			kerma accrued from the		kerma accrued from the			kerma rate" is					
			beginning of an		beginning of an			not added to					
			examination or		examination or			2008 Part A.					
			procedure and includes		procedure and includes								
			all contributions from		all contributions from								
			fluoroscopic and		fluoroscopic and								
			radiographic irradiation.		radiographic irradiation.								
132													
	§1.2.2	229	"Curie" means a unit of	=	"Curie" means a unit of	=§A.2	"Curie" means a unit of	=	"Curie" means a unit of				Curie means that
	-		quantity of radioactivity.		quantity of radioactivity.	-	quantity of activity. One		quantity of activity. One				amount of radioactive
			One curie (Ci) is that		One curie (Ci) is that		curie (Ci) is that quantity		curie (Ci) is that quantity				material which
			quantity of radioactive		quantity of radioactive		of radioactive material,		of radioactive material,				disintegrates at the rate
			material that decays at		material that decays at		which decays at the rate		which decays at the rate				of 37 billion atoms per
			the rate of 3.7×1010		the rate of 3.7×1010		of 3.7E+10		of 3.7E+10				second;{ §30.4, A}
			transformations per		transformations per		disintegrations or		disintegrations or				
			second (s-1).		second (s-1).		transformations per		transformations per				
							second (dps or tps).		second (dps or tps). {A.2	2			
									Mar.'03}				
133													
134										-			
104	I	1				1				1			

	Α	В	С	D	E	F	G	Н			J	K	L	М
1	CCR §	Line	2010-07-01 CCR effective	Note	2007-08-30 CCR	SSR §	2008-06 SSR draft	SSR Part A changes	2008-01-04	SSRCR	Cat	RATS	01-01-2009 CFR	2007-12-14 10 CFR
2	Part 1 Section §1.2.2		Adopted 10/21/2009, effective 07/01/2010 "Cyclotron" means a particle accelerator in which a magnetic field bends the path of charged particles. A cyclotron accelerates charged particles at energies usually in excess of 10 megaelectron volts and is commonly used for production of short half- life radionuclides for medical use.	2010-07-01 vs. prior language =	Adopted 07/18/2007, effective 08/30/2007 "Cyclotron" means a particle accelerator in which a magnetic field bends the path of charged particles. A cyclotron accelerates charged particles at energies usually in excess of 10 megaelectron volts and is commonly used for production of short half- life radionuclides for medical use.	Part A Section ≠§A.2	As of 11-25-2009, no action on 2008 draft	2003-03 v. 2008-06 A definition of "cyclotron" is not in 2008 Part A.	Per concord Terry Devine					Per concordance by Terry Devine, CRCPD Cyclotron means a particle accelerator in which the charged particles travel in an outward spiral or circular path. A cyclotron accelerates charged particles at energies usually in excess of 10 megaelectron volts and is commonly used for production of short half- life radionuclides for medical use. {§30.4, D ; §35.2, ?}
135 136	§1.2.2	Page 1-8 235	"DAC". See "derived air concentration".	A cross-reference for "DAC" is added.		≠§A.2		A cross- reference for "DAC" is not in						
137	§1.2.2		"Declared pregnant woman" means a woman who has voluntarily informed the licensee or registrant, in writing, of her pregnancy and the estimated date of conception. The declaration remains in effect until the declared pregnant woman withdraws the declaration in writing or is no longer pregnant.	=	"Declared pregnant woman" means a woman who has voluntarily informed the licensee or registrant, in writing, of her pregnancy and the estimated date of conception. The declaration remains in effect until the declared pregnant woman withdraws the declaration in writing or is no longer pregnant.	≠§A.2		Part A. The definition of "declared pregnant woman" is not in 2008 Part A.	"Declared pr an" means a who has volu informed the registrant, in her pregnan- estimated da conception. declaration r effect until th pregnant wo withdraws th declaration i is no longer {D.1003 Mar	woman untarily licensee or writing, of cy and the ate of The emains in he declared man e n writing or pregnant.				Declared pregnant woman means a woman who has voluntarily informed the licensee, in writing, of her pregnancy and the estimated date of conception. The declaration remains in effect until the declared pregnant woman withdraws the declaration in writing or is no longer pregnant. {§20.1003, A}

	A	В	С	D	E	F	G	Н	I	J	K	L	М
1	CCR §		2010-07-01 CCR effective	Note	2007-08-30 CCR	SSR §	2008-06 SSR draft	SSR Part A changes	2008-01-04 SSRCR	Cat	RATS	01-01-2009 CFR	2007-12-14 10 CFR
2	Part 1 Section		effective 07/01/2010	2010-07-01 vs. prior language	Adopted 07/18/2007, effective 08/30/2007	Part A Section	As of 11-25-2009, no action on 2008 draft	2003-03 v. 2008-06	Per concordance by Terry Devine, CRCPD				Per concordance by Terry Devine, CRCPD
100	§1.2.2		"Decommission" means to remove a facility or site safely from service and reduce residual radioactivity to a level that permits:	This definition is reformatted slightly.	"Decommission" means to remove a facility or site safely from service and reduce residual radioactivity to a level that permits:	~§A.2	"Decommission" means to remove safely from service and reduce residual radioactivity to a level that permits		"Decommission" means C to remove safely from service and reduce residual radioactivity to a level that permits	C			Decommission means to remove a facility or site safely from service and reduce residual radioactivity to a level that permits
139		040	(1) Deleges of the			-64.0		=		2			(1) Release of the
140	§1.2.2		(1) Release of the property for unrestricted use and termination of the license; or	~	(1) release of the property for unrestricted use and termination of the license or	=§A.2	(1) release of the property for unrestricted use and termination of the license or	-	(1) release of the C property for unrestricted use and termination of the license or	۰			property for unrestricted use and termination of the license; or
	§1.2.2		(2) Release of the property under restricted conditions and termination of the license.	~	(2) release of the property under restricted conditions and termination of the license.	=§A.2	(2) release of the property under restricted conditions and termination of the license.	=	(2) release of the C property under restricted conditions and termination of the license. {O.3 Aug.'00}	0			(2) Release of the property under restricted conditions and termination of the license. {§20.1003, C; §30.4, C; §40.4, C;
141													§70.4, C}
	§1.2.2		"Decommissioning funding plan" means a written document that contains a cost estimate for decommissioning and a description of the method for assuring funds for decommissioning, including means of adjusting cost estimates and associated funding levels periodically over the life of the facility.	=	"Decommissioning funding plan" means a written document that contains a cost estimate for decommissioning and a description of the method for assuring funds for decommissioning, including means of adjusting cost estimates and associated funding levels periodically over the life of the facility.	≠§A.2		The definition of "decommission ing funding plan" is not in 2008 Part A.	"Decommissioning funding plan" means a written document that contains a cost estimate for decommissioning and a description of the method for assuring funds for decommissioning, including means of adjusting cost estimates and associated funding levels periodically over the life of the facility. {S.3 Jan.'05}				
142		240		_	"Docommissioning plan"	-84.2	"Decommissioning plan"		"Decommissioning plac"				
143	§1.2.2		"Decommissioning plan" means a written document that includes the licensee's planned procedures and activities for decommissioning of the facility or site.		"Decommissioning plan" means a written document that includes the licensee's planned procedures and activities for decommissioning of the facility or site.		"Decommissioning plan" means a written document that includes the licensee's planned procedures and activities for decommissioning of the facility or site.		"Decommissioning plan" means a written document that includes the licensee's planned procedures and activities for decommissioning of the facility or site. {O.3 Aug.'00}				

	A	ВС	D	E	F	G	Н		J	K	L	М
	CCR §	Line 2010-07-01 CCR	Note	2007-08-30 CCR	SSR §	2008-06 SSR draft	SSR Part A	2008-01-04 SSRCR	Cat	RATS	01-01-2009 CFR	2007-12-14 10 CFR
1		effective					changes					
	Part 1	Adopted 10/21/2009,	2010-07-01 vs.	Adopted 07/18/2007,	Part A	As of 11-25-2009, no	2003-03 v.	Per concordance by				Per concordance by
2	Section	effective 07/01/2010	prior language	effective 08/30/2007	Section	action on 2008 draft	2008-06	Terry Devine, CRCPD				Terry Devine, CRCPD
	§1.2.2	251 "Deep dose equivalent"	=	"Deep dose equivalent"	=§A.2	"Deep dose equivalent"	SR-A uses	"Deep dose equivalent"				Deep-dose equivalent
		(H _D), which applies to		(H _D), which applies to		(H _d), which applies to	lower case "d"	(H _d), which applies to				(Hd), which applies to
		external whole body		external whole body		external whole body	in the	external whole body				external whole-body
		exposure, means the		exposure, means the		exposure, means the	subscript.	exposure, means the				exposure, is the dose
		dose equivalent at a		dose equivalent at a		dose equivalent at a		dose equivalent at a				equivalent at a tissue
		tissue depth of 1		tissue depth of 1		tissue depth of 1		tissue depth of 1				depth of 1 cm (1000
		centimeter (1000		centimeter (1000		centimeter (1000		centimeter (1000				mg/cm2). {§20.1003, A}
		mg/cm2).		mg/cm2).		mg/cm2).		mg/cm2). {A.2 Mar.'03}				
144	1											
	§1.2.2	253 "Demand respirator"	=	"Demand respirator"	=§A.2	"Demand respirator"	=	"Demand respirator"	В			Demand respirator
		means an atmosphere-		means an atmosphere-		means an atmosphere-		means an atmosphere-				means an atmosphere-
		supplying respirator that		supplying respirator that		supplying respirator that		supplying respirator that				supplying respirator that
		admits breathing air to		admits breathing air to		admits breathing air to		admits breathing air to				admits breathing air to
		the facepiece only when		the facepiece only when		the face piece only when		the face piece only when				the facepiece only when
		a negative pressure is		a negative pressure is		a negative pressure is		a negative pressure is				a negative pressure is
		created inside the		created inside the		created inside the		created inside the				created inside the
		facepiece by inhalation.		facepiece by inhalation.		facepiece by inhalation		facepiece by inhalation {				facepiece by inhalation.
								A.2 Mar.'03}				{§20.1003, B}
145	5											
	§1.2.2	255 "Dentist" means an	=	"Dentist" means an	~§A.2		The definition	"Dentist" means an	D			Dentist means an
		individual licensed by a		individual licensed by a			of "dentist" is	individual licensed to				individual licensed by a
		State or Territory of the		State or Territory of the			not in 2008	practice dentistry by the				State or Territory of the
		United States, the		United States, the			Part A.	state in which the				United States, the
		District of Columbia or		District of Columbia or				Agency is located. {G.2				District of Columbia, or
		the Commonwealth of		the Commonwealth of				Mar.'03}				the Commonwealth of
		Puerto Rico to practice		Puerto Rico to practice								Puerto Rico to practice
		dentistry.		dentistry.								dentistry. {§30.4, D;
146	6											§35.2, D}
	§1.2.2	257 "Department" means the	=	"Department" means the	≠§A.2							
		Colorado Department of		Colorado Department of								
		Public Health and		Public Health and								
		Environment.		Environment.								
147	7											

1 effective 0.00-07-01 vs., effective 07/07/2010 Part A Section As of 11-125-2003, no. 2008-06 Per concordance b Terry Devine, CRCP Per concordance b Terry Devine, CRCP 1 2 257 Concrete of 000-07-01 vs., effective 07/07/2010 Population of Energy means the Department of Energy established by Public Law 05-91, use to 000-07-01 vs., Department of Energy 1, under V. Psycholar bases Park A Psycholar bases Park A Population of Energy means the Department of Energy established by Public Law 05-91, use to 000-07-07-07-07-07-07-07-07-07-07-07-07-		Α	В	С	D	E	F	G	Н			J	K	L	М
2 Section 203.03 / effective 027612000, or for 10 vs. Adopted 07782007, Feat A. A sof 11325000, no closed or for 10 vs. Per concordance by Per concordance by \$1.2.2 257 257 Per concordance by Terry Devise, CRC \$1.2.2 257 257 Per concordance by Terry Devise, CRC \$1.2.2 Per concordance by Terry Devise, CRC Terry Devise, CRC \$1.2.2 Per concordance by Terry Devise, CRC Terry Devise, CRC \$1.2.2 Per concordance by Terry Devise, CRC Terry Devise, CRC \$1.2.4 Per concordance by Terry Devise, CRC Terry Devise, CRC \$1.2.5 Per concordance by Terry Devise,		CCR §	Line	2010-07-01 CCR	Note	2007-08-30 CCR	SSR §	2008-06 SSR draft	SSR Part A	2008-01-04	SSRCR	Cat	RATS	01-01-2009 CFR	2007-12-14 10 CFR
2 Section effective 07/01/2010 infor language effective 08/30/2007 Section action on 2008 draft Toppathment of Energy infor language infor language<	1			effective					changes						
§1.2.2 287 Colorado defines the 'U.S. Department of Energy' under 'U'. "Department of Energy' established by Public Law 65-91. August 4, 1977, 91 Stt. 585,42 US.C 7101 et seq. to the extern that the color that the color that seq. to the extern that the color that the color that seq. to the extern that the color that the color that seq. to the extern that the color that the color that the color that seq. to the extern that the color that seq. to the extern that the color that sectors functions tormerly vested in the Administrator thereof pursuant to sectors to the color that the color the the color that the color the the color that the c		Part 1		Adopted 10/21/2009,	2010-07-01 vs.	Adopted 07/18/2007,	Part A	As of 11-25-2009, no	2003-03 v.						Per concordance by
148 the "U.S. means the Department of Energy established by of Energy established by of Energy established by applicit aw 56-91, bit applicit aw 56-91, bit applicit aw 56-91, applicit applicit aw 56-91, bit applicit applic	2	Section		effective 07/01/2010	prior language	effective 08/30/2007	Section	action on 2008 draft	2008-06						Terry Devine, CRCPD
148 Image: Constrained of the constraine		§1.2.2	257		Colorado defines		≠§A.2	"Department of Energy"	=	"Departmen	t of Energy"				
148 Public Law 95-91, Public Public Law 95-91, Public Publi					the "U.S.										
148 Image: 1 (197, 91 Stat.) August 4, 1977, 91 Stat.) 555, 42 U.S. C. 7101 et sseq., 10 the extent that the Department exercises functiona formerly vasied in the Atomic Energy Stat.) Commission, its Commission, its Chairman, members, officers and components and transferred to the Energy Read on the Atomic Strengy Chairman, members, officers and components and transferred to the Energy Read and transferred to the Secretary of to the Secretary of Energy pursuent to Energy Read and transferred to the Secretary of Energy Department of Energy Department of Energ												,			
148 565, 420 LSC. 7101 et 565, 420 LSC. 7101 et 157, 727, 727, 727, 727, 727, 727, 727, 7															
148 Image: Seq. to the extent that seq. to the extent that seq. to the extent that 177.757.84 the Department exercises functions 184 the Department exercises functions 184 the Department exercises functions 185 commission. Its commission. Its 185 Chairman, members, officers and components and transferred to the and transferred to the 186 Energy Research and Development 197.101 Development Development 194.101 Commission exclusion Energy Research and 194.101 Energy Research and Development 194.101 Ciantification and to the Administration and to the 194.101 Ciantification exclusion Energy Research and 194.101 Ciantification Development 194.101 Ciantification Energy Research and 194.101 Ciantification E					"U".										
148 Image: Construction of the secretary of															
148 Image: Control of the section of the sectis of the section of the section of the section of the section of								1.7							
148 1<															
148 Atomic Energy Atomic Energy 148 Page A5															
148 Image: Commission, its Commission, its Commission, its Chairman, members, Officers and components and transferred to the Energy Research and Development Administration and to the Administrator thereof pursuant to sections 104(b), (c) and (d) of the Energy Research and Development Administrator thereof pursuant to sections 104(b), (c) and (d) of the Energy Research and State Sta										,					
148 Image: Chaiman, members, chaiman, showed and the presented of the chaiman, members, chaiman, hathiman, hat hat hathathat hat hat hat hat hat h								0,							
148 Image: Construct of the sector of th								,							
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148 Image: Construct of the sector of the secord of the sector of the sector of the												'			
148 Image: Construct of the section															
148 Administration and to the Administration and to the Administrator thereof pursuant to sections 104(b). (c) and (d) of the Energy Reorganization Act of 1974 (Public Law 93-438, October 11, 1974, 88 Stat. 1233 at 1237, 42 U.S. C. Energy Reorganization Act of 1974 (Public Law 93-438, October 11, 1974, 88 Stat. 1233 at 1237, 42 U.S. C. Energy Pergentiate 1975) and re-transferred to the Secretary of Energy Department of Energy Organization Act (Public to the Secretary of Energy Department of Energy Organization Act (Public to the Secretary of Energy Department of Energy Organization Act (Public to the Secretary of Energy Department of Energy Organization Act (Public Law 95-91, August 4, 1977, 91 Stat. 565 at 577-578, 42 U.S. C. 7151, effective October 1, 1977. 148 Image As								•••							
148 Image: Construct of the section												-			
104(b), (c) and (d) of the Energy Reorganization Act of 1974 (Public Law 93:438, October 11, 1974, 88 Stat. 1233 at 1237, 42 U.S.C. 5814, effective January 19, 1975) and re-transferred to the Secretary of Energy pursuant to Section 301(a) of the Department of Energy Organization Act (Public Law 95-91, August 4, 1977, 91 Stat. 565 at 577-578, 42 U.S.C. 104(b), (c) and (d) of the Energy Reorganization Act of 1974 (Public Law 93:438, October 11, 1974, 88 Stat. 1233 at 1975) and re-transferred to the Secretary of Energy pursuant to Section 301(a) of the Department of Energy Organization Act (Public Law 95-91, August 4, 1977, 91 Stat. 565 at 577-578, 42 U.S.C. 577-578, 42 U.S.C. 148 10 Page A5 10 10															
148 Image: Construct of the section								pursuant to sections		pursuant to	sections				
148 Image: Constraint of the section of the sectio								104(b), (c) and (d) of the		104(b), (c) a	nd (d) of the				
148 Act of 1974 (Public Law 93-438, October 11, 93-438, October 11, 1974, 88 Stat. 1233 at 1237, 42 U.S.C. 5814, effective January 19, effective January 19, effective January 19, effective January 19, of the Secretary of Energy pursuant to Section 301(a) of the Department of Energy Organization Act (Public Organization Act (Publ															
1974, 88 Stat. 1233 at 1237, 42 U.S.C. 5814, effective January 19, effective January 10, organization Act (Public Law 95-91, August 4, 1977, 91 Stat. 565 at 1977, 91 Stat. 565 at <th></th> <td></td>															
148 Image: Constraint of the section sec								93-438, October 11,		93-438, Oct	ober 11,				
148 Image: Construct of the section second section section second section second section section section								1974, 88 Stat. 1233 at		1974, 88 St	at. 1233 at				
148 1975) and re-transferred 1975) and re-transferred 1975) and re-transferred 1975) and re-transferred 1975) and re-transferred 1975) and re-transferred 1975) and re-transferred 1975) and re-transferred 1975) and re-transferred 1975) and re-transferred 1975) and re-transferred 1975) and re-transferred 1975) and re-transferred to the Secretary of Energy pursuant to section 301(a) of the section 301(a) of the Department of Energy Department of Energy Department of Clevely Organization Act (Public Law 95-91, August 4, Law 95-91, August 4, 1977, 91 Stat. 565 at 577-578, 42 U.S.C. 577-578, 42 U.S.C. 7151, effective October 7151, effective October 1, 1977.){ A.2 Mar.'03}															
148 Page A5								-							
148 Page A5 Page A5 Page A5 Energy pursuant to section 301(a) of the Department of Energy Organization Act (Public Law 95-91, August 4, 1977, 91 Stat. 565 at 577-578, 42 U.S.C. Energy pursuant to section 301(a) of the Department of Energy Organization Act (Public Law 95-91, August 4, 1977, 91 Stat. 565 at 577-578, 42 U.S.C.								,							
148 Image: Section 301(a) of the Department of Energy Organization Act (Public Law 95-91, August 4, 1977, 91 Stat. 565 at 577-578, 42 U.S.C. 7151, effective October 1, 1977, 91 Section 301(a) of the Department of Energy Organization Act (Public Law 95-91, August 4, 1977, 91 Stat. 565 at 577-578, 42 U.S.C. 7151, effective October 1, 1977, 91 148 Image: Page A5 Image: Page A5															
148 Department of Energy Organization Act (Public Law 95-91, August 4, 1977, 91 Stat. 565 at 577-578, 42 U.S.C. 7151, effective October 1, 1977.) Department of Energy Organization Act (Public Law 95-91, August 4, 1977, 91 Stat. 565 at 577-578, 42 U.S.C. 7151, effective October 1, 1977.)															
148 Page A5 Organization Act (Public Law 95-91, August 4, 1977, 91 Stat. 565 at 577-578, 42 U.S.C. 7151, effective October 1, 1977.) Organization Act (Public Law 95-91, August 4, 1977, 91 Stat. 565 at 577-578, 42 U.S.C. 7151, effective October 1, 1977.) Stat. 565 at 577-578, 42 U.S.C. 7151, effective October 1, 1977.)															
148 Law 95-91, August 4, 1977, 91 Stat. 565 at 577-578, 42 U.S.C. 7151, effective October 1, 1977.) Law 95-91, August 4, 1977, 91 Stat. 565 at 577-578, 42 U.S.C. 7151, effective October 1, 1977.){A.2 Mar.'03}															
148 1977, 91 Stat. 565 at 1977, 91 Stat. 565 at 577-578, 42 U.S.C. 148 Page A5 Page A5 1977, 91 Stat. 565 at 577-578, 42 U.S.C.		1						-							
148 577-578, 42 U.S.C. 577-578, 42 U.S.C. 7151, effective October 7151, effective October 1, 1977.){ A.2 Mar.'03}															
148 7151, effective October 1, 1977.) 7151, effective October 1, 1977.){ A.2 Mar.'03}		1													
148 1, 1977.) 1, 1977.){ A.2 Mar.'03} Page A5 Page A5								· · · · · · · · · · · · · · · · · · ·							
148 Page A5 Page A5															
Page A5	148	3						.,		י, יסיי.ע א	<u> </u>				
		1					Page A5								
	149)													

	Α	В	С	D	E	F	G	Н			J	K	L	М
	CCR §	Line	2010-07-01 CCR	Note	2007-08-30 CCR	SSR §	2008-06 SSR draft	SSR Part A	2008-01-04	SSRCR	Cat	RATS	01-01-2009 CFR	2007-12-14 10 CFR
1			effective					changes						
	Part 1		Adopted 10/21/2009,	2010-07-01 vs.	Adopted 07/18/2007,	Part A	As of 11-25-2009, no	2003-03 v.	Per concord	ance by				Per concordance by
2	Section		effective 07/01/2010	prior language	effective 08/30/2007	Section	action on 2008 draft	2008-06	Terry Devine	e, CRCPD				Terry Devine, CRCPD
	§1.2.2	258	"Depleted uranium"	=	"Depleted uranium"	=§A.2	"Depleted uranium"	=	"Depleted u	ranium"				
			means the source		means the source		means the source		means the s					
			material uranium in		material uranium in		material uranium in		material ura					
			which the isotope		which the isotope		which the isotope		which the is	•				
			uranium-235 is less than		uranium-235 is less than		uranium-235 is less than			5 is less than				
			0.711 weight percent of		0.711 weight percent of		0.711 weight percent of		0.711 weigh	•				
			the total uranium		the total uranium		the total uranium		the total ura					
			present. Depleted		present. Depleted		present. Depleted		present. De					
			uranium does not		uranium does not		uranium does not		uranium doe					
			include special nuclear		include special nuclear		include special nuclear		include spec					
			material.		material.		material.		material. {A.	2 Mar. 03}				
150)													
	§1.2.2	266	"Derived air	=	"Derived air			The definition	"Derived air	concentratio				Derived air concentration
	°		concentration" (DAC)		concentration" (DAC)			of "derived air	n" (DAC) me	eans the				(DAC) means the
			means the concentration		means the concentration			concentration"	concentratio	n of a given				concentration of a given
			of a given radionuclide in		of a given radionuclide in			is not in 2008	radionuclide	in air which,				radionuclide in air which,
			air which, if breathed by		air which, if breathed by			Part A.	if breathed b	by the				if breathed by the
			the reference man for a		the reference man for a				reference m					reference man for a
			working year of 2,000		working year of 2,000				working yea					working year of 2,000
			hours under conditions		hours under conditions				hours under					hours under conditions
			of light work, results in		of light work, results in				of light work	,				of light work (inhalation
			an intake of one ALI.		an intake of one ALI.				an intake of					rate 1.2 cubic meters of
			For purposes of these		For purposes of these				For purpose					air per hour), results in
			regulations, the		regulations, the				regulations,					an intake of one ALI.
			condition of light work is		condition of light work is					light work is				DAC values are given in
			an inhalation rate of 1.2		an inhalation rate of 1.2				an inhalation					Table 1, Column 3, of
			cubic meters of air per hour for 2.000 hours in a		cubic meters of air per hour for 2.000 hours in a				cubic meters	s of air per 00 hours in a				appendix B to §§ 20.1001-20.2401.
			year. DAC values are		year. DAC values are				vear. DAC					{§20.1003, A}
			given in Part 4, Appendix		given in Part 4, Appendix				given in Tab					{920.1003, A}
			4B, Table 4B1, Column		4B, Table 4B1, Column				3, of Append					
			3		3				{D.1003 Mai					
			0.		0.				1000 Mai	. 00}				
15														
15 ⁻		000	"Detector"	A araga reference		484.0		A	"Doto star" //	200				
	§1.2.2	263	"Detector". See	A cross-reference		≠§A.2		A cross-	"Detector" (
1			"radiation detector".	to "radiation				reference to	"Radiation d	,	1			
				detector" is				"radiation	{X.2 Feb.'05	3				
4				added.				detector" is added.						
152								audeu.			1			

	Α	В	С	D	E	F	G	Н		J	K		L	М
1	CCR §		2010-07-01 CCR effective	Note	2007-08-30 CCR	SSR §	2008-06 SSR draft	SSR Part A changes	2008-01-04 SSRCR	Cat	RATS	01-01-2009	CFR	2007-12-14 10 CFR
	Part 1			2010-07-01 vs.	Adopted 07/18/2007,	Part A	As of 11-25-2009, no	2003-03 v.	Per concordance by					Per concordance by
	Section			prior language	effective 08/30/2007	Section	action on 2008 draft	2008-06	Terry Devine, CRCPD					Terry Devine, CRCPD
	§1.2.2	264	"Diagnostic imaging	A definition of		≠§A.2		The definition	"Diagnostic imaging					
		:	system" means an	"diagnostic				of "diagnostic	system" means an					
			assemblage of	imaging system"				imaging	assemblage of					
			components for the	is added,				system" is not	components for the					
			generation, emission,	consistent with				in 2008 Part A.	generation, emission,					
			reception,	SSRCR Part F.					reception,					
			transformation, storage						transformation, storage					
			and visual display of the						and visual display of the					
		1	resultant image.						resultant image. {F.2					
									Dec.'01}					
53														
55		+		Several Colorado										
				medical physicists										
				thought this										
				definition might be										
				improved.										
				improveu.										
54														
54		Page												
55		Fage 1-9												
	§1.2.2		"Direct supervision"	In the definition of	"Direct supervision"	≠§A.2		The definition	"Direct supervision"					
	31.2.2		means the supervisor is		means the supervisor	/ 3/=		of "direct	means that:					
			present in the facility and		must be present in the			supervision" is	mouno mai.					
			immediately available to	phrase "must be"	facility and immediately			not in 2008						
				is replaced by "is".	available to furnish			Part A.						
			and direct the	The definition is	assistance and direction			, are the						
				clarified based on										
				a similar definition										
				in SSRCR Part F.	performance of a									
			but is not always		procedure. The									
			required to be present in		supervisor is not									
			the room. For purposes		required to be present in	1								
			of these regulations, "on-		the room when the									
			site supervision" or		procedure is performed.									
			"individual supervision"											
			is an equivalent term.											
		1 1												

	Α	В	C	D	E	F	G	Н		J	K	L	М
	CCR §	Line	2010-07-01 CCR	Note	2007-08-30 CCR	SSR §	2008-06 SSR draft	SSR Part A	2008-01-04 SSRCR	Cat	RATS	01-01-2009 CFR	2007-12-14 10 CFR
1			effective					changes					
	Part 1			2010-07-01 vs.	Adopted 07/18/2007,	Part A	As of 11-25-2009, no	2003-03 v.	Per concordance by				Per concordance by
2	Section			prior language	effective 08/30/2007	Section	action on 2008 draft	2008-06	Terry Devine, CRCPD				Terry Devine, CRCPD
	§1.2.2	275	5						(1) During joint				
									interpretation of				
									mammograms, the				
									supervising interpreting				
									physician reviews, discusses, and confirms				
									the diagnosis of the				
									physician being				
									supervised and signs the				
									resulting report before it				
									is entered into the				
									patient's records; or				
4													
157													
	§1.2.2	275							(2) During the				
									performance of a mammography				
									examination or survey of				
									the facility's equipment				
									and quality assurance				
									program, the supervisor				
									is present to observe				
									and correct, as needed,				
									the performance of the				
									individual being				
									supervised who is				
									performing the				
									examination or				
									conducting the survey. {F.13 Dec.'01}				
158	2									1			
150	·	1								1			

	Α	В	С	D	E	F	G	Н		I	J	K	L	М
	CCR §	Line	2010-07-01 CCR	Note	2007-08-30 CCR	SSR §	2008-06 SSR draft	SSR Part A	2008-01-04	SSRCR	Cat	RATS	01-01-2009 CFR	2007-12-14 10 CFR
1			effective					changes						
	Part 1		Adopted 10/21/2009,	2010-07-01 vs.	Adopted 07/18/2007,	Part A	As of 11-25-2009, no	2003-03 v.	Per concorda					Per concordance by
2	Section		effective 07/01/2010	prior language	effective 08/30/2007	Section	action on 2008 draft	2008-06	Terry Devine	e, CRCPD				Terry Devine, CRCPD
	§1.2.2		"Discrete source" means a radionuclide that has been processed so that its concentration within a material has been purposely increased for use for a commercial, medical, or research activity.	"discrete source" is modified to	"Discrete source" means a radioactive source with physical boundaries, which is separate and distinct from the radioactivity present in nature, and in which the radionuclide concentration has been increased by human processes with the intent that the concentrated radioactive material will be used for its radiological properties.		"Discrete source" means a radionuclide that has been processed so that its concentration within a material has been purposely increased for use for commercial, medical, or research activities.	Added.			?	Added to 20.1003; 72 FR 55864; RATS ID 2007-3	Discrete source means a radionuclide that has been processed so that its concentration within a material has been purposely increased for use for commercial, medical, or research activities.	Discrete source means a radionuclide that has been processed so that its concentration within a material has been purposely increased for use for commercial, medical, or research activities. {§20.1003, H&S ; §30.4, H&S ; §150.3, H&S}
159	§1.2.2		"Disposable respirator" means a respirator for which maintenance is not intended and that is designed to be discarded after excessive breathing resistance, sorbent exhaustion, physical damage, or end of service life renders it unsuitable for use. Examples of this type of respirator are a disposable half mask respirator or a disposable escape-only self-contained breathing apparatus (SCBA).	=	"Disposable respirator" means a respirator for which maintenance is not intended and that is designed to be discarded after excessive breathing resistance, sorbent exhaustion, physical damage, or end of service life renders it unsuitable for use. Examples of this type of respirator are a disposable half mask respirator or a disposable escape-only self-contained breathing apparatus (SCBA).	=A.2	"Disposable respirator" means a respirator for which maintenance is not intended and that is designed to be discarded after excessive breathing resistance, sorbent exhaustion, physical damage, or end-of- service-life renders it unsuitable for use. Examples of this type of respirator are a disposable half-mask respirator or a disposable escape-only self-contained breathing apparatus (SCBA).	=	"Disposable means a res which mainte not intended designed to I discarded aff excessive br resistance, s exhaustion, µ damage, or e service-life re unsuitable fo Examples of respirator are disposable e self-containe apparatus (S Mar.'03}	pirator for enance is and that is be ter eathing sorbent physical end-of- enders it or use. this type of e a half-mask a escape-only ed breathing	B			Disposable respirator means a respirator for which maintenance is not intended and that is designed to be discarded after excessive breathing resistance, sorbent exhaustion, physical damage, or end-of- service-life renders it unsuitable for use. Examples of this type of respirator are a disposable half-mask respirator or a disposable escape-only self-contained breathing apparatus (SCBA). {§20.1003, B}
160)													

	A	В	С	D	E	F	G	Н		I	J	K		L	М
	CCR §	Line	2010-07-01 CCR	Note	2007-08-30 CCR	SSR §	2008-06 SSR draft	SSR Part A	2008-01-04	SSRCR	Cat	RATS	01-01-2009	CFR	2007-12-14 10 CFR
1			effective					changes							
	Part 1		Adopted 10/21/2009,	2010-07-01 vs.	Adopted 07/18/2007,	Part A	As of 11-25-2009, no	2003-03 v.	Per concord	ance by					Per concordance by
2	Section		effective 07/01/2010	prior language	effective 08/30/2007	Section	action on 2008 draft	2008-06	Terry Devine	e, CRCPD					Terry Devine, CRCPD
	§1.2.2	286	"Distinguishable from	=	"Distinguishable from	=A.2	"Distinguishable from	=	"Distinguisha		В				Distinguishable from
			background" means that		background" means that		background" means that		background'						background means that
			the detectable		the detectable		the detectable		the detectab						the detectable
			concentration of a		concentration of a		concentration of a		concentratio						concentration of a
			radionuclide is		radionuclide is		radionuclide is		radionuclide						radionuclide is
			statistically different from the background		statistically different from the background		statistically different from the background		statistically of the backgrou		1				statistically different from the background
			concentration of that		concentration of that		concentration of that		concentratio						concentration of that
			radionuclide in the		radionuclide in the		radionuclide in the		radionuclide						radionuclide in the
			vicinity of the site or, in		vicinity of the site or, in		vicinity of the site or, in		vicinity of the						vicinity of the site or, in
			the case of structures, in		the case of structures, in		the case of structures, in		the case of s	,	1				the case of structures, in
			similar materials using		similar materials using		similar materials using		similar mate	rials using					similar materials using
			adequate measurement		adequate measurement		adequate measurement		adequate m	easurement					adequate measurement
			technology, survey, and		technology, survey, and		technology, survey, and		technology,						technology, survey, and
			statistical techniques.		statistical techniques.		statistical techniques.		statistical te	•					statistical techniques.
									{A.2 Mar.'03	; 0.3					{§20.1003, B}
									Aug.'00}						
161															
	§1.2.2	200	"DOE" means the U.S.	=	"DOE" means the U.S.	≠§A.2									DOE means the U.S.
	81.2.2	230	Department of Energy.	-	Department of Energy.	+9n.2									Department of Energy or
															its duly authorized
															representatives. {§74.4,
162															}
	§1.2.2	291	"Dose" is a generic term	=	"Dose" is a generic term		"Dose" is a generic term		"Dose" is a d	eneric term					Dose or radiation dose is
	0		that means absorbed		that means absorbed		that means absorbed		that means	absorbed					a generic term that
			dose, dose equivalent,		dose, dose equivalent,		dose, dose equivalent,		dose, dose e	equivalent,					means absorbed dose,
			effective dose		effective dose		effective dose		effective dos						dose equivalent,
			equivalent, committed		equivalent, committed		equivalent, committed		equivalent, o						effective dose
			dose equivalent,		dose equivalent,		dose equivalent,		dose equiva						equivalent, committed
			committed effective		committed effective		committed effective		committed e						dose equivalent,
			dose equivalent, total organ dose equivalent,		dose equivalent, total		dose equivalent, total		dose equiva	-					committed effective
			or total effective dose		organ dose equivalent, or total effective dose		organ dose equivalent, or total effective dose		organ dose or total effect						dose equivalent, or total effective dose
			equivalent. For purposes		equivalent. For purposes		equivalent. For		equivalent.						equivalent, as defined in
			of these regulations,		of these regulations,		purposes of these		purposes of						other paragraphs of this
			"radiation dose" is an		"radiation dose" is an		regulations, "radiation		regulations,						section. {§20.1003, D}
			equivalent term.		equivalent term.		dose" is an equivalent		dose" is an e						
							term.		term. {A.2 M	ar.'03}					
163															

	Α	В	С	D	E	F	G	Н	I	J	K	L	М
	CCR §	Line	2010-07-01 CCR	Note	2007-08-30 CCR	SSR §	2008-06 SSR draft	SSR Part A	2008-01-04 SSRCR	Cat	RATS	01-01-2009 CFR	2007-12-14 10 CFR
1			effective					changes					
	Part 1		Adopted 10/21/2009,	2010-07-01 vs.	Adopted 07/18/2007,	Part A	As of 11-25-2009, no	2003-03 v.	Per concordance by				Per concordance by
2	Section		effective 07/01/2010	prior language	effective 08/30/2007	Section	action on 2008 draft	2008-06	Terry Devine, CRCPD				Terry Devine, CRCPD
	§1.2.2	295	"Dose commitment"	A definition of		≠§A.2							Dose commitment
			means the total radiation	"dose									means the total radiation
			dose to a part of the	commitment is									dose to a part of the
			body that will result from										body that will result from
			retention of radioactive	CFR 32.2.									retention in the body of
			material in the body. For										radioactive material. For
			purposes of estimating the dose commitment, it										purposes of estimating the dose commitment, it
			is assumed that from the										is assumed that from the
			time of intake the period										time of intake the period
			of exposure to retained										of exposure to retained
			material will not exceed										material will not exceed
			50 years.										50 years. {§32.2, A}
164													
	§1.2.2	299	"Dose equivalent" (H _T)	=	"Dose equivalent" (H_T)	=	"Dose equivalent (HT)"	=	"Dose equivalent (H_T) "				Dose equivalent (H _T)
			means the product of the		means the product of the		means the product of the		means the product of the				means the product of the
			absorbed dose in tissue,		absorbed dose in tissue,		absorbed dose in tissue,		absorbed dose in tissue,				absorbed dose in tissue,
			quality factor, and all		quality factor, and all		quality factor, and all		quality factor, and all				quality factor, and all
			other necessary		other necessary		other necessary modifying factors at the		other necessary				other necessary
			modifying factors at the location of interest. The		modifying factors at the location of interest. The		location of interest. The		modifying factors at the location of interest. The				modifying factors at the location of interest. The
			units of dose equivalent		units of dose equivalent		units of dose equivalent		units of dose equivalent				units of dose equivalent
			are the sievert (Sv) and		are the sievert (Sv) and		are the sievert (Sv) and		are the sievert (Sv) and				are the rem and sievert
			rem.		rem.		rem.		rem. {A.2 Mar.'03}				(Sv). {§20.1003, A}
165	-												
165	§1.2.2	300	"Dose limits" means the	=	"Dose limits" means the	-1.2	"Dose limits" means the	_	Dose limits means the	+			
	81.2.2	302	permissible upper	-	permissible upper	-71.2	permissible upper	-	permissible upper				
			bounds of radiation		bounds of radiation		bounds of radiation		bounds of radiation				
			doses established in		doses established in		doses established in		doses established in				
			accordance with these		accordance with these		accordance with these		accordance with these				
			regulations. For		regulations. For		regulations. For		regulations. For				
			purposes of these		purposes of these		purposes of these		purposes of these				
			regulations, "limits" is an		regulations, "limits" is an		regulations, "limits" is an		regulations, "limits" is an				
166	;		equivalent term.		equivalent term.		equivalent term.		equivalent term.				
100	4							1		1			

	Α	В	С	D	E	F	G	Н		J	K	L	М
	CCR §	Line	2010-07-01 CCR	Note	2007-08-30 CCR	SSR §	2008-06 SSR draft	SSR Part A	2008-01-04 SSRCR (Cat	RATS	01-01-2009 CFR	2007-12-14 10 CFR
1			effective					changes					
	Part 1		Adopted 10/21/2009,	2010-07-01 vs.	Adopted 07/18/2007,	Part A	As of 11-25-2009, no	2003-03 v.	Per concordance by				Per concordance by
2	Section		effective 07/01/2010	prior language	effective 08/30/2007	Section	action on 2008 draft	2008-06	Terry Devine, CRCPD				Terry Devine, CRCPD
	§1.2.2	302	"Dosimetry processor"	=	"Dosimetry processor"	≠§A.2							
			means an individual or		means an individual or								
			an organization that		an organization that								
			processes and evaluates		processes and evaluates								
			individual monitoring		individual monitoring								
			devices in order to		devices in order to								
			determine the radiation		determine the radiation								
			dose delivered to the		dose delivered to the								
			monitoring devices.		monitoring devices.								
167													
	§1.2.2	307	"DOT" means the U.S.	=	"DOT" means the U.S.	≠§A.2							
			Department of		Department of								
168			Transportation.		Transportation.								
	§1.2.2	308	"Drill" means a	=	"Drill" means a	≠§A.2							
			supervised, hands-on		supervised, hands-on								
			instruction period		instruction period								
			intended to test, develop		intended to test, develop								
			or maintain a specific		or maintain a specific								
			emergency response		emergency response								
			capability. A drill may be a component of an		capability. A drill may be a component of an								
			exercise.		exercise.								
			exercise.		exercise.								
169													
	§1.2.2	310	"Effective dose	=	"Effective dose	=A.2	"Effective dose	=	"Effective dose				
			equivalent" (H _E) means		equivalent" (H _E) means		equivalent" (H _E) means		equivalent" (H _E) means				
			the sum of the products		the sum of the products		the sum of the products		the sum of the products				
			of the dose equivalent to		of the dose equivalent to		of the dose equivalent to		of the dose equivalent to				
			each organ or tissue		each organ or tissue		each organ or tissue		each organ or tissue				
			(H_T) and the weighting		(H_T) and the weighting		(H_T) and the weighting		(H_T) and the weighting				
			factor (WT) applicable to		factor (WT) applicable to		factor (WT) applicable to		factor (WT) applicable to				
			each of the body organs		each of the body organs		each of the body organs		each of the body organs				
			or tissues that are		or tissues that are		or tissues that are		or tissues that are				
			irradiated ($H_E = \Sigma$		irradiated ($H_E = \Sigma$		irradiated ($H_E = \Sigma$		irradiated ($H_E = \Sigma$				
			$W_T \times H_T$).		$W_T \times H_T$).		$W_T \times H_T$).		$W_T \times H_T$).				
170													
	§1.2.2	313	"Embryo/fetus" means	=	"Embryo/fetus" means	=A.2	"Embryo/fetus" means	=	Embryo/fetus means the				
			the developing human		the developing human		the developing human		developing human				
			organism from		organism from		organism from		organism from				
			conception until the time		conception until the time		conception until the time of birth.		conception until the time				
171			of birth.		of birth.				of birth.				

	Α	В	С	D	E	F	G	Н			J	K	L	М
	CCR §		2010-07-01 CCR	Note	2007-08-30 CCR	SSR §	2008-06 SSR draft	SSR Part A	2008-01-04	SSRCR	Cat	RATS	01-01-2009 CFR	2007-12-14 10 CFR
1	_		effective					changes	_					
2	Part 1 Section		Adopted 10/21/2009, effective 07/01/2010	2010-07-01 vs. prior language	Adopted 07/18/2007, effective 08/30/2007	Part A Section	As of 11-25-2009, no action on 2008 draft	2003-03 v. 2008-06	Per concord Terry Devin					Per concordance by Terry Devine, CRCPD
2	§1.2.2		"Emergency" means an	=		≠§A.2	action on 2006 draft	No definition of	-	e, CRCFD				Terry Devine, CRCPD
	81.2.2		event requiring prompt	-	event requiring prompt	-34.5		"emergency" is						
			action to mitigate a		action to mitigate a			in 2008 Part A.						
			threat to the health and		threat to the health and									
			safety of workers and		safety of workers and									
			the public or a threat of		the public or a threat of									
			damage to the environment.		damage to the environment.									
470			chivitorinicht.		chvironnent.									
172	<u> </u>													
173		Page 1-10												
173	§1.2.2	-	"Emergency planning	=	"Emergency planning	≠§A.2		No definition of						
	3		zone" means a		zone" means a	·		"emergency						
			geographic area		geographic area			planning zone"						
			surrounding a specific		surrounding a specific			is in 2008 Part						
			facility for which special		facility for which special			А.						
			planning and preparedness efforts are		planning and preparedness efforts are									
			carried out to ensure		carried out to ensure									
			that prompt and effective		that prompt and effective									
			protective actions can		protective actions can									
			reduce or minimize the		reduce or minimize the									
			impact of releases of radioactive material to		impact of releases of radioactive material to									
			public health and safety		public health and safety									
			or to the environment.		or to the environment.									
174														
	§1.2.2		"Enriched uranium" means uranium	=	"Enriched uranium" means uranium	≠§A.2		No definition of "enriched						
			containing more uranium		containing more uranium			"enriched uranium" is in						
			235 than the naturally		235 than the naturally			2008 Part A.						
			occurring distribution of		occurring distribution of									
			uranium isotopes.		uranium isotopes.									
175	5													
	§1.2.2		"Entrance exposure rate"			≠§A.2		No definition of						
			means the exposure free					"entrance						
			in-air per unit time [at the point where the center of					exposure rate"						
			the useful beam enters	audeo to Part 1.				is in 2008 Part A.						
			the patient].											
176	5													
			1	1	L			1	1		1	1		

	A	В	С	D	E	F	G	H			J	K	L		М
	CCR §	Line	2010-07-01 CCR	Note	2007-08-30 CCR	SSR §	2008-06 SSR draft	SSR Part A	2008-01-04	SSRCR	Cat	RATS	01-01-2009 C	FR	2007-12-14 10 CFR
1			effective					changes							
	Part 1		Adopted 10/21/2009,	2010-07-01 vs.	Adopted 07/18/2007,	Part A	As of 11-25-2009, no	2003-03 v.	Per concord						Per concordance by
	Section		effective 07/01/2010	prior language	effective 08/30/2007	Section	action on 2008 draft	2008-06	Terry Devin	e, CRCPD					Terry Devine, CRCPD
	§1.2.2	323	"Entrance point" or	~	"Entrance or access	≠§A.2	"Entrance or access	=		access point	t				
			"access point" means		point" means any		point" means any		means any						
			any location through		location through which		location through which		through whi						
			which an individual could		an individual could gain		an individual could gain		individual co	•					
			gain access to radiation areas or to licensed or		access to radiation areas or to licensed or		access to radiation areas or to licensed or		access to ra areas or to						
			registered radioactive		registered radioactive		registered radioactive		registered r						
			materials. This includes		materials. This includes		materials. This includes		U U	his includes					
			entry or exit portals of		entry or exit portals of		entry or exit portals of		entry or exit						
			sufficient size to permit		sufficient size to permit		sufficient size to permit		sufficient size						
			human entry,		human entry,		human entry,		human entr						
			irrespective of their		irrespective of their		irrespective of their		irrespective						
	1		intended use.		intended use.		intended use.		intended us	e.					
477															
177						(0.0.0									
	§1.2.2	327	"Evacuation" means the	=		≠§A.2		No definition of							
			urgent removal of people from an area to avoid or		urgent removal of people from an area to avoid or			"evacuation" is in 2008 Part A.							
			reduce high-level, short-		reduce high-level, short-			111 2006 Part A.							
			term exposure.		term exposure.										
178			torin expectite.		torm expectate.										
	§1.2.2	220	"Event" means a	=	"Event" means a	≠§A.2		No definition of							
	91.Z.Z		situation reasonably	-	situation reasonably	≠9A.Z		"event" is in							
			discrete in time, location		discrete in time, location			2008 Part A.							
			and consequences.		and consequences.			2000 1 411 4.							
179															
	§1.2.2	329		* The definition		≠§A.2					+				
	31.2.2	529		of "event" could		≁γ∩.∠									
	1			perhaps be less											
	1			broad.											
180															
	§1.2.2	330	"Examination" means	A definition of		≠§A.2		No definition of							
	Ŭ		performing a procedure,	"examination" is		5 .=		"examination"							
	1		including selection of	added.				is in 2008 Part							
	1		exposure settings,					А.							
	1		positioning the x-ray												
	1		system and the patient,												
	1		and initiating and												
	1		terminating the												
	1		exposure.												
181	1														
181															

	A	В	C	D	E	F	G	Н			J	K	L	М
1	CCR §	Line	2010-07-01 CCR effective	Note	2007-08-30 CCR	SSR §	2008-06 SSR draft	SSR Part A changes	2008-01-04 \$	SRCR	Cat	RATS	01-01-2009 CFR	2007-12-14 10 CFR
	Part 1 Section			2010-07-01 vs. prior language	Adopted 07/18/2007, effective 08/30/2007	Part A Section	As of 11-25-2009, no action on 2008 draft	2003-03 v. 2008-06	Per concorda Terry Devine	,				Per concordance by Terry Devine, CRCPD
	§1.2.2	332	"Exercise" means a multi- faceted activity that tests the plans, procedures, adequacy of training, resources, and integrated capability of an emergency response		"Exercise" means a multi- faceted activity that tests the plans, procedures, adequacy of training, resources, and integrated capability of an emergency response	•		No definition of "exercise" is in 2008 Part A.						
182			system.		system.	Page A6								
183						i age Au								
	§1.2.2	334	"Explosive material" means any chemical compound, mixture, or device which produces a substantial instantaneous release of gas and heat spontaneously or by contact with sparks or flame.	=	"Explosive material" means any chemical compound, mixture, or device which produces a substantial instantaneous release of gas and heat spontaneously or by contact with sparks or flame.	=§A.2	"Explosive material" means any chemical compound, mixture, or device, which produces a substantial instantaneous release of gas and heat spontaneously or by contact with, sparks or flame.	=	Explosive ma means any c compound, n device, which a substantial instantaneou gas and heat spontaneous contact with, flame.	hemical hixture, or h produces s release of ly or by				
184														
185	§1.2.2	337	"Exposure" means being exposed to ionizing radiation or to radioactive material.	=	"Exposure" means being exposed to ionizing radiation or to radioactive material.	=§A.2	"Exposure" means being exposed to ionizing radiation or to radioactive material.	=	Exposure me exposed to ic radiation or to radioactive m	nizing				

	Α	В	С	D	E	F	G	Н		I	J	K	L	М
	CCR §		2010-07-01 CCR	Note	2007-08-30 CCR	SSR §	2008-06 SSR draft	SSR Part A	2008-01-04	SSRCR	Cat	RATS	01-01-2009 CFR	2007-12-14 10 CFR
1			effective					changes						
_	Part 1				Adopted 07/18/2007,	Part A	As of 11-25-2009, no	2003-03 v.	Per concord					Per concordance by
2					effective 08/30/2007	Section	action on 2008 draft	2008-06	Terry Devine					Terry Devine, CRCPD
	§1.2.2		"Exposure" means the	The cross-	"Exposure" means the	~=§A.2	"Exposure" means the	=	Exposure m					
			quotient of dQ by dm	reference to the	quotient of dQ by dm		quotient of dQ by dm		quotient of d					
			where "dQ" is the		where "dQ" is the		where "dQ" is the		where "dQ" i					
				is removed.	absolute value of the		absolute value of the		absolute val					
			total charge of the ions of one sign produced in		total charge of the ions of one sign produced in		total charge of the ions of one sign produced in		total charge of one sign p					
			air when all the electrons		air when all the electrons		air when all the electrons		air when all					
			(negatrons and		(negatrons and		(negatrons and		(negatrons a					
			positrons) liberated by		positrons) liberated by		positrons) liberated by		positrons) lit					
			photons in a volume		photons in a volume		photons in a volume		photons in a					
			element of air having		element of air having		element of air having		element of a					
			mass "dm" are		mass "dm" are		mass "dm" are		mass "dm" a	are				
1			completely stopped in		completely stopped in		completely stopped in		completely s					
1			air. The SI unit of		air. The SI unit of		air. The SI unit of		air. The SI u					
			exposure is the coulomb		exposure is the coulomb		exposure is the coulomb		exposure is					
			per kilogram (C/kg). ²		per kilogram (C/kg). See		per kilogram (C/kg).		per kilogram					
					Section 1.14 units of exposure and dose for		See A.13 Units of Exposure and Dose for		A.13 Units o and Dose fo					
					the special unit.2		the special unit.*/		unit.*/	r the special				
							the special unit. /							
18	6													
	§1.2.2	342	² When not underlined		² When not underlined	≠§A.2	*/ States may wish to	=	*/ States ma	v wish to				
	Ŭ		as above, or indicated as		as above, or indicated as	Ũ	distinguish throughout		distinguish t	•				
			"exposure" (X), the term		"exposure" (X), the term		their regulations, and to		their regulati	ions, and to				
			"exposure" has a more		"exposure" has a more		include a footnote here		include a foo					
			general meaning in		general meaning in		specifying a distinction,		specifying a					
			these regulations.		these regulations.		between the		between the					
							International		International					
							Commission on		Commission					
							Radiation Units and Measurements definition		Radiation Ur	nits and nts definition				
							of exposure and the		of exposure					
							general use of exposure.		general use					
							The footnote could be		The footnote					
							similar to the following:		similar to the					
1							"When not underlined as			inderlined as				
1							above [or indicated as		above [or inc	dicated as				
1							'exposure'(X)], the term		'exposure'(X					
1							'exposure' has a more		'exposure' h					
							general meaning in		general mea					
							these regulations.		these regula	itions.				
1														
10	_													
18	1													

	Α	В	С	D	E	F	G	Н	I	J	K	L	М
	CCR §	Line	2010-07-01 CCR	Note	2007-08-30 CCR	SSR §	2008-06 SSR draft	SSR Part A	2008-01-04 SSRCR	Cat	RATS	01-01-2009 CFR	2007-12-14 10 CFR
1			effective					changes					
	Part 1		Adopted 10/21/2009,	2010-07-01 vs.	Adopted 07/18/2007,	Part A	As of 11-25-2009, no	2003-03 v.	Per concordance by				Per concordance by
2	Section		effective 07/01/2010	prior language	effective 08/30/2007	Section	action on 2008 draft	2008-06	Terry Devine, CRCPD				Terry Devine, CRCPD
	§1.2.2	343	3	* The definition(s)									
				of exposure could									
				be improved upon and some other									
				way of									
				distinguishing the									
				meanings of									
				"exposure" could									
				be found.									
188													
100	§1.2.2	34/	"Exposure rate" means	The definition of	"Exposure rate" means	~=§A.2	"Exposure rate" means	=	"Exposure rate" means				
	81.Z.Z	54-	the exposure per unit of	"exposure rate" is	the exposure per unit of	~-9A.2	the exposure per unit of	-	the exposure per unit of				
			time.	simplified.	time, such as roentgen		time, such as roentgen		time, such as roentgen				
				'	per minute and		per minute and		per minute and				
					milliroentgen per hour.		milliroentgen per hour.		milliroentgen per hour.				
189	9												
	§1.2.2	345	"External dose" means	=	"External dose" means	=§A.2	"External dose" means	=	"External dose" means				
			that portion of the dose		that portion of the dose		that portion of the dose		that portion of the dose				
			equivalent received from		equivalent received from		equivalent received from		equivalent received from				
			any source of radiation		any source of radiation		any source of radiation		any source of radiation				
			outside the body.		outside the body.		outside the body.		outside the body.				
190													
	§1.2.2	347	"Extremity" means hand,		"Extremity" means hand,	~=§A.2	"Extremity" means hand,	~	"Extremity" means hand,				
			elbow, arm below the		elbow, arm below the		elbow, arm below the		elbow, and arm below				
			elbow, foot, knee, or leg below the knee.	made.	elbow, foot, knee, and		elbow, foot, knee, or leg below the knee.		the elbow, foot, knee,				
10			below the knee.		leg below the knee.		below the knee.		and or leg below the knee.				
19 ⁻	1							<u> </u>	NIEC.				
10		Page											
192	2	1-11											

	A	В	С	D	E	F	G	Н			J	K	L	М
	CCR §	Line	2010-07-01 CCR	Note	2007-08-30 CCR	SSR §	2008-06 SSR draft	SSR Part A	2008-01-04	SSRCR	Cat	RATS	01-01-2009 CFR	2007-12-14 10 CFR
1			effective					changes						
	Part 1		Adopted 10/21/2009,	2010-07-01 vs.	Adopted 07/18/2007,	Part A	As of 11-25-2009, no	2003-03 v.	Per concord					Per concordance by
	Section			prior language	effective 08/30/2007	Section	action on 2008 draft	2008-06	Terry Devin	e, CRCPD				Terry Devine, CRCPD
	§1.2.2	348	"Facility" means the	The definition of	"Facility" means the	~§A.2	"Facility" means the	Added.						
			location within one	"facility" is	location within one		location within one building, vehicle, or							
			building (or vehicle, or under one roof, or at one	modified to also reflect storage of	building, or vehicle, or under one roof and		under one roof and							
			address) and under the	radiation	under the same		under the same							
			same administrative	machines and	administrative control (1)		administrative control (1)							
			control (multiple	enhanced.	at which the possession,		at which the possession,							
			locations or addresses		use, processing or		use, processing or							
			at a site or part of a site		storage of radioactive		storage of radioactive							
			are considered together if so approved by the		material is or was		material is or was authorized or (2) at							
			Department) at which:		authorized or (2) at which one or more		which one or more							
			Department) at which.		radiation machines are		radiation-producing							
					or were installed,		machines or radioactivity	-						
					operated and / or		inducing machines are							
					located. "Facility" may		installed or located.							
					also mean multiple such		"Facility" may also mean							
					locations at a site or part of a site.		multiple such locations at a site or part of a site.							
					or a site.		at a site of part of a site.							
193														
	§1.2.2	351	(1) The possession, use,	Numbering is		~§A.2								
	31.2.2		processing or storage of			3/								
			radioactive material is or											
			was authorized;	the definition. A										
				third										
				subcomponent is										
194				added.										
	§1.2.2	353	(2) A radiation machine			~§A.2								
			is or was installed,											
105			operated and/or stored; and/or											
195		05.4				484.0								
196	§1.2.2	354	(3) A source of radiation is located.			≠§A.2								
_	§1.2.2	365	"FDA" means the United		"FDA" means the United	7 8∧ 2		No definition of						
	31.2.2	300	States Food and Drug		States Food and Drug	≠34.Z		"FDA" is in						
			Administration.		Administration.			2008 Part A.						
197														
		1						1	1		1			

	А	В	С	D	E	F	G	Н			J	K	L	М
	CCR §	Line	2010-07-01 CCR	Note	2007-08-30 CCR	SSR §	2008-06 SSR draft	SSR Part A	2008-01-04	SSRCR	Cat	RATS	01-01-2009 CFR	2007-12-14 10 CFR
1			effective					changes						
	Part 1		Adopted 10/21/2009,	2010-07-01 vs.	Adopted 07/18/2007,	Part A	As of 11-25-2009, no	2003-03 v.	Per concorda					Per concordance by
2	Section			prior language	effective 08/30/2007	Section	action on 2008 draft	2008-06	Terry Devine	e, CRCPD				Terry Devine, CRCPD
	§1.2.2	356	"Filtering facepiece"	No change is	Filtering facepiece (dust	=§A.2	"Filtering facepiece (dust	=	0	epiece (dust				
			(dust mask) means a	made.	mask) means a negative		mask)" means a		mask)" mear					
			negative pressure		pressure particulate		negative pressure		negative pre					
			particulate respirator		respirator with a filter as		particulate respirator		particulate re	•				
			with a filter as an integral		an integral part of the		with a filter as an integral		with a filter a	•				
			part of the facepiece or with the entire facepiece		facepiece or with the entire facepiece		part of the facepiece or with the entire facepiece		part of the fa with the entir					
			composed of the filtering		composed of the filtering		composed of the filtering		composed of	•				
			medium, not equipped		medium, not equipped		medium, not equipped		medium, not	•				
			with elastomeric sealing		with elastomeric sealing		with elastomeric sealing		with elastom					
			surfaces and adjustable		surfaces and adjustable		surfaces and adjustable		surfaces and	•				
			straps.		straps.		straps.		straps.					
			•		•									
100														
198			u 											
	§1.2.2	359	"Final radiation survey"	No change is	"Final radiation survey"	=§A.2	"Final radiation survey"	Added in 2008.						
			means the survey of the facility or site after	made.	means the survey of the facility or site after		means the survey of the facility or site after							
			decommissioning		decommissioning		decommissioning							
			activities have been		activities have been		activities have been							
			completed during which		completed during which		completed during which							
			the determination is		the determination is		the determination is							
			made by the licensee		made by the licensee		made by the licensee							
			that the facility or site		that the facility or site		that the facility or site							
			meets the Department's		meets the Department's		meets the Agency's							
			release criteria.		release criteria.		release criteria.							
199														
198	§1.2.2	260	"Financial surety" or	=	"Financial surety" or	≠§A.2		No definition of						
	31.2.2	302	"financial warranty"	-	"financial warranty"	ryn.2		"financial						
			means the method of		means the method of			surety" is in						
1			assuring that sufficient		assuring that sufficient			2008 Part A.						
1			funds will be available at		funds will be available at									
1			the time of license		the time of license									
			termination and		termination and									
1			decommissioning of the		decommissioning of the									
			facility to cover all costs		facility to cover all costs									
			associated with the		associated with the									
			decommissioning.		decommissioning.									
200														
200	,					1								

	Α	В	С	D	E	F	G	Н			J	K	L	М
	CCR §	Line	2010-07-01 CCR	Note	2007-08-30 CCR	SSR §	2008-06 SSR draft	SSR Part A	2008-01-04	SSRCR	Cat	RATS	01-01-2009 CFR	2007-12-14 10 CFR
1			effective					changes						
	Part 1		Adopted 10/21/2009,	2010-07-01 vs.	Adopted 07/18/2007,	Part A	As of 11-25-2009, no	2003-03 v.	Per concord					Per concordance by
2			effective 07/01/2010	prior language	effective 08/30/2007	Section	action on 2008 draft	2008-06	Terry Devin	e, CRCPD				Terry Devine, CRCPD
	§1.2.2	365	"Fissile material" means	=	"Fissile material" means	≠§A.2		No definition of						
			the radionuclides		the radionuclides			"fissile						
			uranium-233, uranium-		uranium-233, uranium-			material" is in						
			235, plutonium-239, and		235, plutonium-239, and			2008 Part A.						
			plutonium-241, or any		plutonium-241, or any									
			combination of these		combination of these									
			radionuclides. Fissile		radionuclides. Fissile									
			material means the fissile nuclides		material means the fissile nuclides									
			themselves, not material		themselves, not material									
			containing fissile		containing fissile									
			nuclides. Unirradiated		nuclides. Unirradiated									
			natural uranium and		natural uranium and									
			depleted uranium, and		depleted uranium, and									
			natural uranium or		natural uranium or									
			depleted uranium that		depleted uranium that									
			has been irradiated in		has been irradiated in									
			thermal reactors only,		thermal reactors only,									
			are not included in this		are not included in this									
			definition.		definition.									
20														
	§1.2.2	370	"Fit factor" means a	=	"Fit factor" means a	=§A.2	"Fit factor" means a	=	"Fit factor" r	neans a				
			quantitative estimate of		quantitative estimate of		quantitative estimate of		quantitative					
			the fit of a particular		the fit of a particular		the fit of a particular		the fit of a p					
			respirator to a specific		respirator to a specific		respirator to a specific		respirator to	•				
			individual, and typically		individual, and typically		individual, and typically		individual, a					
			estimates the ratio of the concentration of a		estimates the ratio of the concentration of a		estimates the ratio of the		concentratio	e ratio of the				
			substance in ambient air		substance in ambient air		concentration of a substance in ambient air			n of a n ambient air				
			to its concentration		to its concentration		to its concentration		to its concer					
			inside the respirator		inside the respirator		inside the respirator		inside the re					
			when worn.		when worn.		when worn.		when worn.					
20														
	§1.2.2		"Fit test" means the use	=		=§A.2	"Fit Test" means the use	=		eans the use				
			of a protocol to		of a protocol to		of a protocol to		of a protoco					
			qualitatively or		qualitatively or		qualitatively evaluate the			evaluate the				
1			quantitatively evaluate the fit of a respirator on		quantitatively evaluate the fit of a respirator on		fit of a respirator on an individual.		fit of a respi individual.	ator on an				
			an individual.		an individual.				niuiviuual.					
20	5													

	Α	В	C	D	E	F	G	H	I	J	K	L	М
1	CCR §	Line	2010-07-01 CCR effective	Note	2007-08-30 CCR	SSR §	2008-06 SSR draft	SSR Part A changes	2008-01-04 SSRCR	Cat	RATS	01-01-2009 CFR	2007-12-14 10 CFR
2	Part 1 Section		Adopted 10/21/2009, effective 07/01/2010	2010-07-01 vs. prior language	Adopted 07/18/2007, effective 08/30/2007	Part A Section	As of 11-25-2009, no action on 2008 draft	2003-03 v. 2008-06	Per concordance by Terry Devine, CRCPD				Per concordance by Terry Devine, CRCPD
	§1.2.2	375	"Former U.S. Atomic Energy Commission (AEC) or U.S. Nuclear Regulatory Commission (NRC) licensed facilities" means nuclear reactors, nuclear fuel reprocessing plants, uranium enrichment plants, or critical mass experimental facilities where AEC or NRC licenses have been terminated.	=	"Former U.S. Atomic Energy Commission (AEC) or U.S. Nuclear Regulatory Commission (NRC) licensed facilities" means nuclear reactors, nuclear fuel reprocessing plants, uranium enrichment plants, or critical mass experimental facilities where AEC or NRC licenses have been terminated.	=§A.2	"Former Atomic Energy Commission or Nuclear Regulatory Commission licensed facilities" means nuclear reactors, nuclear fuel reprocessing plants, uranium enrichment plants, or critical mass experimental facilities where Atomic Energy Commission or Nuclear Regulatory Commission licenses have been terminated.	=	"Former Atomic Energy Commission or Nuclear Regulatory Commission licensed facilities" means nuclear reactors, nuclear fuel reprocessing plants, uranium enrichment plants, or critical mass experimental facilities where Atomic Energy Commission or Nuclear Regulatory Commission licenses have been terminated.				
204													
	§1.2.2	378	"General emergency" means an accident has occurred or is in progress which involves actual or imminent catastrophic reduction of facility safety systems with potential for loss of containment or confinement integrity or release of radioactive material that can be reasonably expected to exceed offsite protective action guides. ³	=	"General emergency" means an accident has occurred or is in progress which involves actual or imminent catastrophic reduction of facility safety systems with potential for loss of containment or confinement integrity or release of radioactive material that can be reasonably expected to exceed offsite protective action guides. ³	≠§A.2							
205	§1.2.2	382	³ A definition of "general emergency" is provided for reference and completeness. It is unlikely that any Colorado licensee would need to plan for a general emergency.	=	³ A definition of "general emergency" is provided for reference and completeness. It is unlikely that any Colorado licensee would need to plan for a general emergency.	≠§A.2							

	Α	В	С	D	E	F	G	Н			J	K	L	М
1	CCR §	Line	2010-07-01 CCR effective	Note	2007-08-30 CCR	SSR §	2008-06 SSR draft	SSR Part A changes	2008-01-04	SSRCR	Cat	RATS	01-01-2009 CFR	2007-12-14 10 CFR
2	Part 1 Section		Adopted 10/21/2009, effective 07/01/2010	1 0 0	Adopted 07/18/2007, effective 08/30/2007	Part A Section	As of 11-25-2009, no action on 2008 draft	2003-03 v. 2008-06	Per concord Terry Devine					Per concordance by Terry Devine, CRCPD
207	§1.2.2		"General supervision" means the procedure is under the supervisor's overall direction and control but the supervisor's presence is not required during the performance of the procedure.	is deleted. It adds no value.	"General supervision" means the procedure is furnished under the supervisor's overall direction and control but the supervisor's presence is not required during the performance of the procedure.	≠§A.2								
207		Page				Page A7								
208		1-11												
	§1.2.2		"Generally applicable environmental radiation standards" means standards issued by the U.S. Environmental Protection Agency (EPA) under the authority of the Atomic Energy Act of 1954, as amended, that impose limits on radiation exposures or levels, or concentrations or quantities of radioactive material, in the general environment outside the boundaries of locations under the control of persons possessing or using radioactive material.		"Generally applicable environmental radiation standards" means standards issued by the U.S. Environmental Protection Agency (EPA) under the authority of the Atomic Energy Act of 1954, as amended, that impose limits on radiation exposures or levels, or concentrations or quantities of radioactive material, in the general environment outside the boundaries of locations under the control of persons possessing or using radioactive material.		"Generally applicable environmental radiation standards" means standards issued by the Environmental Protection Agency under the authority of the Atomic Energy Act of 1954, as amended, that impose limits on radiation exposures or levels, or concentrations or quantities of radioactive material, in the general environment outside the boundaries of locations under the control of persons possessing or using radioactive material.		the authority Atomic Ener 1954, as an impose limit radiation exp levels, or co or quantities radioactive r	tal radiation means sued by the tal gency under of the rgy Act of nended, that s on posures or ncentrations of material, in environment boundaries under the ersons or using				
209														
210	§1.2.2		"Gray" (Gy) means the SI unit of absorbed dose. One gray is equal to an absorbed dose resulting from deposition of 1 joule (J) of energy in 1 kilogram of material (100 rad).		"Gray" (Gy) means the SI unit of absorbed dose. One gray is equal to an absorbed dose resulting from deposition of 1 joule (J) of energy in 1 kilogram of material (100 rad).		"Gray" (Gy) means the SI unit of absorbed dose. One gray is equal to an absorbed dose of 1 joule per kilogram (100 rad).			sorbed gray is equal bed dose of 1				

	A	В	С	D	E	F	G	Н		J	K	L	М
	CCR §		2010-07-01 CCR	Note	2007-08-30 CCR	SSR §	2008-06 SSR draft	SSR Part A	2008-01-04 SSRCR	Cat	RATS	01-01-2009 CFR	2007-12-14 10 CFR
1			effective					changes					
_	Part 1			2010-07-01 vs.	Adopted 07/18/2007,	Part A	As of 11-25-2009, no	2003-03 v.	Per concordance by				Per concordance by
2	Section			prior language		Section	action on 2008 draft	2008-06	Terry Devine, CRCPD				Terry Devine, CRCPD
	§1.2.2		"Hazardous waste"	In the definition of	"Hazardous waste"	~§A.2	"Hazardous waste"	=	"Hazardous waste" means those wastes				
			means any waste designated as	"hazardous waste", the "any"	means those wastes designated as		means those wastes designated as		designated as				
			hazardous by	replaces "those".	hazardous by		hazardous by the		hazardous by the				
			Department regulations		Department regulations		Environmental		Environmental				
			in 6 CCR 1007-1-3.		in 6 CCR 1007-1-3.		Protection Agency		Protection Agency				
							regulations in 40 CFR		regulations in 40 CFR				
211							Part 261.		Part 261.				
	§1.2.2	395	"Healing arts" means	The definition of	"Healing arts" means	~§A.2	"Healing arts" means	=	"Healing arts" means				
			any system, treatment,	"healing arts" is	any system, treatment,	-	[cite appropriate State		[cite appropriate State				
			operation, diagnosis,	clarified to make	operation, diagnosis,		definition].		definition].				
				clear that for	prescription, or practice								
			for the ascertainment, cure, relief, palliation,	radiation	for the ascertainment, cure, relief, palliation,								
			adjustment, or correction	machines it	adjustment, or correction								
				human and	of any human disease,								
			,	animal patients.	ailment, deformity, injury								
			or unhealthy or abnormal		or unhealthy or abnormal								
			physical or mental		physical or mental								
			condition. For purposes		condition.								
			of Parts 2, 6 and 24,										
			"healing arts" includes animals other than										
			humans.										
			numano.										
212													
	§1.2.2		"Helmet" (respiratory)	=	"Helmet" (respiratory)	~§A.2	"Helmet" means a rigid	=	"Helmet" means a rigid				
			means a rigid respiratory		means a rigid respiratory		respiratory inlet covering		respiratory inlet covering				
			inlet covering that also		inlet covering that also		that also provides head		that also provides head				
			provides head protection against impact and		provides head protection against impact and		protection against impact and penetration.		protection against impact and penetration.				
			penetration.		penetration.		impact and penetration.						
					P								
213													
210													

	Α	В	С	D	E	F	G	Н	I		J	K	L	М
1	CCR §	Line	2010-07-01 CCR effective	Note	2007-08-30 CCR	SSR §	2008-06 SSR draft	SSR Part A changes	2008-01-04 SSRC	R	Cat	RATS	01-01-2009 CFR	2007-12-14 10 CFR
2	Part 1 Section		Adopted 10/21/2009, effective 07/01/2010	2010-07-01 vs. prior language	Adopted 07/18/2007, effective 08/30/2007	Part A Section	As of 11-25-2009, no action on 2008 draft	2003-03 v. 2008-06	Per concordance b Terry Devine, CRC	PD				Per concordance by Terry Devine, CRCPD
	§1.2.2	401	"High radiation area" means an area, accessible to individuals, in which radiation levels from radiation sources external to the body could result in an individual receiving a dose equivalent in excess of 1 mSv (0.1 rem) in 1 hour at 30 centimeters from any source of radiation or 30 centimeters from any surface that the radiation penetrates.	=	"High radiation area" means an area, accessible to individuals, in which radiation levels from radiation sources external to the body could result in an individual receiving a dose equivalent in excess of 1 mSv (0.1 rem) in 1 hour at 30 centimeters from any source of radiation or 30 centimeters from any surface that the radiation penetrates.	=§A.2	"High radiation area" means an area, accessible to individuals, in which radiation levels from radiation sources external to the body could result in an individual receiving a dose equivalent in excess of 1 mSv (0.1 rem) in 1 hour at 30 centimeters from any source of radiation or 30 centimeters from any surface that the radiation penetrates.	=	"High radiation are means an area, accessible to indivi in which radiation I from radiation sour external to the bod could result in an individual receiving dose equivalent in excess of 1 mSv (0 rem) in 1 hour at 3 centimeters from a source of radiation centimeters from a surface that the rad penetrates.	iduals, evels rces ly g a 0.1 0 any o r 30 any				
214														
215	§1.2.2	405	"Hood" (respiratory) means a respiratory inlet covering that completely covers the head and neck and may also cover portions of the shoulders and torso.		"Hood" (respiratory) means a respiratory inlet covering that completely covers the head and neck and may also cover portions of the shoulders and torso.		"Hood" means a respiratory inlet covering that completely covers the head and neck and may also cover portions of the shoulders and torso.	=	"Hood" means a respiratory inlet co that completely co the head and neck may also cover pol of the shoulders ar torso.	vers and rtions				
215	§1.2.2	407	' "Human use" means the internal or external administration of radiation or radioactive material to human beings.	=	"Human use" means the internal or external administration of radiation or radioactive material to human beings.	=§A.2	"Human use" means the internal or external administration of radiation or radioactive material to human beings.	=	"Human use" mean internal or external administration of radiation or radioad material to human beings.					
217	§1.2.2	409	"ICRP" means the International Commission on Radiological Protection.	=	"ICRP" means the International Commission on Radiological Protection.	≠§A.2								
217	§1.2.2	410	"Immediate" means within not more than fifteen minutes or as otherwise specified in writing by the licensee and approved by the Department.	=	"Immediate" means within not more than fifteen minutes or as otherwise specified in writing by the licensee and approved by the Department.	≠§A.2								

	Α	В	С	D	E	F	G	Н		J	K	L	М
	CCR §	Line	2010-07-01 CCR	Note	2007-08-30 CCR	SSR §	2008-06 SSR draft	SSR Part A	2008-01-04 SSRCR	Cat	RATS	01-01-2009 CFR	2007-12-14 10 CFR
1			effective					changes					
	Part 1		•	2010-07-01 vs.	Adopted 07/18/2007,	Part A	As of 11-25-2009, no	2003-03 v.	Per concordance by				Per concordance by
2	Section		effective 07/01/2010	prior language	effective 08/30/2007	Section	action on 2008 draft	2008-06	Terry Devine, CRCPD				Terry Devine, CRCPD
	§1.2.2	412	"Incident" means any	=	"Incident" means any	≠§A.2							
			unintended event		unintended event								
			involving radioactive		involving radioactive								
			material for which the		material for which the								
			public dose is a fraction		public dose is a fraction								
			of regulatory limits and		of regulatory limits and								
		1 1	safety provisions are		safety provisions are								
			sufficient, but further		sufficient, but further								
			degradation of safety		degradation of safety								
		1 1	systems could lead to an		systems could lead to an								
			accident condition.		accident condition.								
219													
		Page											
220		1-13											
	§1.2.2	415	"Individual" means any	=	"Individual" means any	=A.2	"Individual" means any	=	"Individual" means any				
221			human being.		human being.		human being.		human being.				
	§1.2.2	416	"Individual monitoring"	=	"Individual monitoring"	=A.2	"Individual monitoring"	=	"Individual monitoring"				
			means the assessment		means the assessment		means the assessment		means the assessment				
222			of:		of:		of:		of:				
	§1.2.2	417	(1) Dose equivalent by	=	(1) Dose equivalent by	~A.2	(1) Dose equivalent (a)	=	(1) Dose equivalent (a)				
			the use of:		the use of:		by the use of individual		by the use of individual				
							monitoring devices or (b)		monitoring devices or (b)				
							by the use of survey		by the use of survey				
223							data; or		data; or				
	§1.2.2	418	(a) Individual monitoring	=	(a) Individual monitoring	~A.2							
224	•	1 1	devices; or		devices; or								
225	§1.2.2	419	(b) Survey data; or	=	(b) Survey data; or	~A.2							
	§1.2.2		(2) Committed effective	=	(2) Committed effective	~A.2	(2) Committed effective	=	(2) Committed effective		1		
	0		dose equivalent by:		dose equivalent by:		dose equivalent (a) by		dose equivalent (a) by				
							bioassay or (b) by		bioassay or (b) by				
							determination of the time		determination of the time	-			
							weighted air		weighted air				
							concentrations to which		concentrations to which				
							an individual has been		an individual has been				
							exposed, that is, DAC-		exposed, that is, DAC-				
							hours. [See the		hours. [See the				
							definition of DAC-hours		definition of DAC-hours				
							in Part D.]		in Part D.]				
226													
	§1.2.2	421	(a) Bioassay; or	=	(a) Bioassay; or	~A.2							
221	81.2.2	421	(a) Dibassay, Oi	-	(a) bioassay, oi	- .			<u> </u>			1	

	Α	В	С	D	E	F	G	Н		J	K	L	_	М
	CCR §	Line		Note	2007-08-30 CCR	SSR §	2008-06 SSR draft	SSR Part A	2008-01-04 SSRCR	Cat	RATS	01-01-2009 (CFR	2007-12-14 10 CFR
1			effective					changes						
	Part 1			2010-07-01 vs.	Adopted 07/18/2007,	Part A	As of 11-25-2009, no	2003-03 v.	Per concordance by					Per concordance by
2	Section			prior language	effective 08/30/2007	Section	action on 2008 draft	2008-06	Terry Devine, CRCPD					Terry Devine, CRCPD
	§1.2.2	422	(b) Determination of the	=	(b) Determination of the	~A.2								
			time-weighted air concentrations to which		time-weighted air concentrations to which									
			an individual has been		an individual has been									
			exposed, that is, DAC-		exposed, that is, DAC-									
			hours. (See the		hours. (See the									
			definition of DAC-hours).		definition of DAC-hours).									
228														
	§1.2.2	425	"Individual monitoring	=	"Individual monitoring	=A.2	"Individual monitoring	=	"Individual monitoring	+				
	0		device" mean a device		device" mean a device		devices" means devices		devices" means devices					
			designed to be worn by		designed to be worn by		designed to be worn by		designed to be worn by					
			a single individual for the		a single individual for the		a single individual for the	•	a single individual for the	9				
			assessment of dose		assessment of dose		assessment of dose		assessment of dose					
			equivalent. For purposes		equivalent. For purposes		equivalent. For		equivalent. For					
			of these regulations,		of these regulations,		purposes of these		purposes of these					
			"personnel dosimeter" and "dosimeter" are		"personnel dosimeter" and "dosimeter" are		regulations, "personnel dosimeter" and		regulations, "personnel dosimeter" and					
			equivalent terms.		equivalent terms.		"dosimeter" are		"dosimeter" are					
			Examples of individual		Examples of individual		equivalent terms.		equivalent terms.					
			monitoring devices are		monitoring devices are		Examples of individual		Examples of individual					
			film badges,		film badges,		monitoring devices are		monitoring devices are					
			thermoluminescence		thermoluminescence		film badges,		film badges,					
			dosimeters (TLDs),		dosimeters (TLDs),		thermoluminescence		thermoluminescence					
			pocket ionization		pocket ionization		dosimeters (TLDs),		dosimeters (TLDs),					
			chambers, optically stimulated luminescence		chambers, optically stimulated luminescence		pocket ionization chambers, optically		pocket ionization chambers, optically					
			(OSL) dosimeters and		(OSL) dosimeters and		stimulated luminescence		stimulated luminescence	<u>_</u>				
			personal (lapel) air		personal (lapel) air		(OSL) dosimeters and	, 	(OSL) dosimeters and					
			sampling devices.		sampling devices.		personal (lapel) air		personal (lapel) air					
							sampling devices.		sampling devices.					
229														
	§1.2.2	430	"Inhalation class". See	The cross-	"Inhalation class" (see	≠§A.2								
			"class".	reference for	"class").									
				"inhalation class"										
				is reformatted by										
				removing the										
000				parentheses.										
230	 					D								
224						Page A8								
231														

	Α	В	С	D	E	F	G	Н			J	K	L	М
	CCR §	Line	2010-07-01 CCR	Note	2007-08-30 CCR	SSR §	2008-06 SSR draft	SSR Part A	2008-01-04 SSRC	CR	Cat	RATS	01-01-2009 CFR	2007-12-14 10 CFR
1			effective					changes						
	Part 1		Adopted 10/21/2009,	2010-07-01 vs.	Adopted 07/18/2007,	Part A	As of 11-25-2009, no	2003-03 v.	Per concordance b	by				Per concordance by
2	Section		effective 07/01/2010	prior language	effective 08/30/2007	Section	action on 2008 draft	2008-06	Terry Devine, CRC	CPD				Terry Devine, CRCPD
	§1.2.2	431	"Inspection" means an	=	"Inspection" means an	~§A.2	"Inspection" means an	=	"Inspection" mean	ns an				
			official examination or		official examination or		official examination or		official examination	on or				
			observation including but		observation including but		observation including,		observation includi					
			not limited to, tests,		not limited to, tests,		but not limited to, tests,		but not limited to, t					
			surveys, and monitoring		surveys, and monitoring		surveys, and monitoring		surveys, and moni	•				
			to determine compliance		to determine compliance		to determine compliance		to determine comp					
			with rules, regulations,		with rules, regulations,		with rules, regulations,		with rules, regulation					
			orders, license conditions and other		orders, license		orders, requirements,		orders, requiremen					
			requirements of the		conditions and other requirements of the		and conditions of the Agency.		and conditions of t Agency.	the				
			Department.		Department.		Agency.		Agency.					
1			Sopurinoni.		Department.									
232														
	§1.2.2	433		Colorado defines		≠§A.2	"Instrument traceability"	=	"Instrument tracea					
				the "Instrument			(for ionizing radiation		(for ionizing radiati					
				Traceability,			measurements) means		measurements) m					
				under "T".			the ability to show that		the ability to show					
							an instrument has been		an instrument has					
							calibrated at specified		calibrated at specifi					
							time intervals using a national standard or a		time intervals using national standard of	U				
							transfer standard. If a		transfer standard.					
							transfer standard is		transfer standard is	_				
							used, the calibration		used, the calibratic					
							must be at a laboratory		must be at a labora					
							accredited by a program,		accredited by a pro	-				
							which requires		which requires	-				
							continuing participation		continuing participa	pation				
							in measurement quality		in measurement qu					
							assurance with the		assurance with the					
							National Institute of		National Institute of	of				
1							Standards and		Standards and	.				
1							Technology, or other		Technology, or oth					
							equivalent national or		equivalent national					
1							international program.		international progra	ıdıı.				
1														
1														
1														
233	3													

	A	В	С	D	E	F	G	Н			J	K	L	М
	CCR §	Line	2010-07-01 CCR	Note	2007-08-30 CCR	SSR §	2008-06 SSR draft	SSR Part A	2008-01-04	SSRCR	Cat	RATS	01-01-2009 CFR	2007-12-14 10 CFR
1			effective					changes						
	Part 1		-	2010-07-01 vs.	Adopted 07/18/2007,	Part A	As of 11-25-2009, no	2003-03 v.	Per concord					Per concordance by
	Section			prior language	effective 08/30/2007	Section	action on 2008 draft	2008-06	Terry Devine					Terry Devine, CRCPD
	§1.2.2	434	"Interlock" means a	=	"Interlock" means a	=§A.2	"Interlock" means a	=	"Interlock" m					
			device arranged or		device arranged or		device arranged or		device arran	•				
			connected such that the		connected such that the		connected such that the			uch that the				
			occurrence of an event or condition is required		occurrence of an event or condition is required		occurrence of an event or condition is required		occurrence or condition					
			before a second event or		before a second event or		before a second event or		before a sec					
			condition can occur or		condition can occur or		condition can occur or		condition ca					
			continue to occur.		continue to occur.		continue to occur.		continue to o					
004														
234														
	§1.2.2	436	"Internal dose" means that portion of the dose	=	"Internal dose" means that portion of the dose	=§A.2	"Internal dose" means that portion of the dose	=	"Internal dos that portion					
			equivalent received from		equivalent received from		equivalent received from			eceived from				
			radioactive material		radioactive material		radioactive material		radioactive r					
			taken into the body.		taken into the body.		taken into the body.		taken into th					
235			······							, -				
	§1.2.2	438	"Irradiation" means the	=	"Irradiation" means the	≠§A.2								
	31.2.2	-50	exposure of a living		exposure of a living	+34.2								
			being or matter to		being or matter to									
236			ionizing radiation.		ionizing radiation.									
	§1.2.2	439	"Kerma" (K [italicized])	=	"Kerma" (K [italicized])	≠§A.2								
	0		means kinetic energy		means kinetic energy	Ŭ								
			released in a unit mass,		released in a unit mass,									
			determined by the		determined by the									
			quotient K = dEtr / dm,		quotient K = dEtr / dm,									
			where dEtr is the sum of		where dEtr is the sum of									
			the initial kinetic		the initial kinetic									
			energies of all the charged ionizing		energies of all the charged ionizing									
			particles (such as		particles (such as									
			electrons) liberated		electrons) liberated									
			(transferred, Etr) by		(transferred, Etr) by									
			uncharged ionizing		uncharged ionizing									
			particles (such as		particles (such as									
			neutrons and photons) in		neutrons and photons) in									
			air of mass dm. Kerma		air of mass dm. Kerma									
			is measured in joules		is measured in joules									
			per kilogram (J/kg).		per kilogram (J/kg).									
00-														
237														

	Α	В	С	D	E	F	G	Н		J	K	L	М
	CCR §	Line	2010-07-01 CCR	Note	2007-08-30 CCR	SSR §	2008-06 SSR draft	SSR Part A	2008-01-04 SSRCR	Cat	RATS	01-01-2009 CFR	2007-12-14 10 CFR
1			effective					changes					
	Part 1		Adopted 10/21/2009,	2010-07-01 vs.	Adopted 07/18/2007,	Part A	As of 11-25-2009, no	2003-03 v.	Per concordance by				Per concordance by
2	Section		effective 07/01/2010	prior language	effective 08/30/2007	Section	action on 2008 draft	2008-06	Terry Devine, CRCPD				Terry Devine, CRCPD
	§1.2.2	443	"Kilo electron volt" (keV)	=		≠§A.2							
			means the energy equal to that acquired by a		means the energy equal to that acquired by a								
			particle with one electron		particle with one electron								
			charge in passing		charge in passing								
			through a potential		through a potential								
			difference of one		difference of one								
			thousand volts in a		thousand volts in a								
			vacuum.		vacuum.								
238													
	§1.2.2	445	"Kilovolt" (kV) is a unit (a	=	"Kilovolt" (kV) is a unit (a	≠§A.2							
			thousand volts) used to		thousand volts) used to								
			measure the nominal		measure the nominal								
			accelerating potential of charged particles used		accelerating potential of								
			to create an x-ray beam.		charged particles used to create an x-ray beam.								
239													
239	§1.2.2	447	"Kinetic energy" means	=	"Kinetic energy" means	≠§A.2							
	91.Z.Z	447	the energy of motion of	-	the energy of motion of	+9A.2							
			an object, which is		an object, which is								
			completely described by		completely described by								
			magnitude alone and		magnitude alone and								
			has no direction.		has no direction.								
240													
	§1.2.2	449	"Lens dose equivalent"	=	"Lens dose equivalent"	=§A.2	"Lens dose equivalent	=	"Lens dose equivalent				
			(LDE) means the		(LDE) means the		(LDE)" means the		(LDE)" means the				
			external exposure to the		external exposure to the		external exposure to the		external exposure to the				
			lens of the eye as the dose equivalent at a		lens of the eye as the dose equivalent at a		lens of the eye as the dose equivalent at a		lens of the eye as the dose equivalent at a				
			tissue depth of 0.3		tissue depth of 0.3		tissue depth of 0.3		tissue depth of 0.3				
			centimeter (300		centimeter (300		centimeter (300		centimeter (300				
			mg/cm2).		mg/cm2).		mg/cm2).		mg/cm2).				
241													
<u> </u>	1	Page											
242		1-14											
	§1.2.2	451	"License" means a	=	"License" means a	~§A.2	"License" means a	=	"License" means a				
			license issued by the		license issued by the		license issued by the		license issued by the				
			Department in		Department in		Agency in accordance		Agency in accordance				
			accordance with the		accordance with the		with the regulations		with the regulations				
040			regulations adopted by the Department. ⁴		regulations adopted by the Department. ⁴		adopted by the Agency.		adopted by the Agency.				
243			the Department.		the Department.								

	A	В	С	D	E	F	G	Н		J	K	L	М
	CCR §	Line	2010-07-01 CCR	Note	2007-08-30 CCR	SSR §	2008-06 SSR draft	SSR Part A	2008-01-04 SSRCR	Cat	RATS	01-01-2009 CFR	2007-12-14 10 CFR
1			effective					changes					
	Part 1			2010-07-01 vs.	Adopted 07/18/2007,	Part A	As of 11-25-2009, no	2003-03 v.	Per concordance by				Per concordance by
	Section			prior language	effective 08/30/2007	Section	action on 2008 draft	2008-06	Terry Devine, CRCPD				Terry Devine, CRCPD
244	§1.2.2	453	⁴ The term "license", "licensed material" or "licensee" is taken to have an equivalent meaning when these regulations apply to a license issued by another Agreement State or NRC.	The term "Licensing State" is deleted.	⁴ The term "license", "licensed material" or "licensee" is taken to have an equivalent meaning when these regulations apply to a license issued by another Agreement State, Licensing State or NRC.	≠§A.2							
	§1.2.2	455	"Licensed material" means radioactive material received, possessed, used, transferred or disposed of under a general or specific license issued by the Department.4	=	"Licensed material" means radioactive material received, possessed, used, transferred or disposed of under a general or specific license issued by the Department.4	~§A.2	"Licensed [or registered] material" means radioactive material received, possessed, used, transferred or disposed of under a general or specific license [or registration] issued by the Agency.	=	"Licensed [or registered] material" means radioactive material received, possessed, used, transferred or disposed of under a general or specific license [or registration] issued by the Agency.				

	A	В	С	D	E	F	G	H	1	J	К	L	М
1	CCR §		2010-07-01 CCR effective	Note	2007-08-30 CCR	SSR §	2008-06 SSR draft	SSR Part A changes	2008-01-04 SSRCR	Cat	RATS	01-01-2009 CFR	2007-12-14 10 CFR
2	Part 1 Section		Adopted 10/21/2009, effective 07/01/2010	2010-07-01 vs. prior language	Adopted 07/18/2007, effective 08/30/2007	Part A Section	As of 11-25-2009, no action on 2008 draft	2003-03 v. 2008-06	Per concordance by Terry Devine, CRCPD				Per concordance by Terry Devine, CRCPD
	§1.2.2		"Licensee" means any person who is:		"Licensee" means any person who is:	~§A.2	"Licensee" means any person who is licensed by the Agency in accordance with these regulations and the Act. For purposes of Part D.1401-D.1406, the term "licensee" also means any person who is responsible for decommissioning by being registered with the Agency, being subject to a record of possession of a radiation source or device under general license, or being otherwise legally obligated to conduct decommissioning activities in accordance with these regulations and the Act.	=	"Licensee" means any person who is licensed by the Agency in accordance with these regulations and the Act.				
246	§1.2.2	458	(1) Licensed by the		(1) Licensed by the	~§A.2							
			Department in accordance with these regulations and the Act ⁴ ;		Department in accordance with these regulations and the Act ⁴ ;								
247	1	450				64.0							
248			(2) Responsible for decommissioning by being:		(2) Responsible for decommissioning by being:	~§A.2							
249	§1.2.2		(a) Registered with the Department;		(a) Registered with the Department;	~§A.2							
	§1.2.2	461	(b) Subject to a record of possession of a radiation source or device under general license, for example, pursuant to 3.6.4.3(13); or		(b) Subject to a record of possession of a radiation source or device under general license, for example, pursuant to 3.6.4.3(13); or								

	Α	В	С	D	E	F	G	Н	I	J	K	L	М
	CCR §	Line	2010-07-01 CCR	Note	2007-08-30 CCR	SSR §	2008-06 SSR draft	SSR Part A	2008-01-04 SSRCR	Cat	RATS	01-01-2009 CFR	2007-12-14 10 CFR
1			effective					changes					
	Part 1		Adopted 10/21/2009,	2010-07-01 vs.	Adopted 07/18/2007,	Part A	As of 11-25-2009, no	2003-03 v.	Per concordance by				Per concordance by
2	Section		effective 07/01/2010	prior language		Section	action on 2008 draft	2008-06	Terry Devine, CRCPD				Terry Devine, CRCPD
	§1.2.2	463	(c) Otherwise legally		(c) Otherwise legally	~§A.2							
			obligated to conduct		obligated to conduct								
			decommissioning		decommissioning								
			activities in accordance		activities in accordance								
			with these regulations		with these regulations								
			and the Act; or		and the Act; or								
251	1												
	§1.2.2	465	(3) Responsible under	The referenced	(3) Responsible under	~§A.2							
			10 CFR 71 (January 1,	document is	10 CFR 71 (January 1,								
			2009) as certificate	updated.	2007) as certificate								
			holder, or applicant for a		holder, or applicant for a								
			certificate of compliance,		certificate of compliance,								
			or under Part 17, for		or under Part 17, for								
			demonstrating that package design,		demonstrating that package design,								
			fabrication, assembly		fabrication, assembly								
			and testing requirements		and testing requirements								
			are met with respect to a		are met with respect to a								
			package before the time		package before the time								
			a package approval is		a package approval is								
			issued.		issued.								
252	2												

	Α	В	С	D	E	F	G	Н			J	K	L	М
1	CCR §	Line	2010-07-01 CCR effective	Note	2007-08-30 CCR	SSR §	2008-06 SSR draft	SSR Part A changes	2008-01-04	SSRCR	Cat	RATS	01-01-2009 CFR	2007-12-14 10 CFR
2			Adopted 10/21/2009, effective 07/01/2010	2010-07-01 vs. prior language	Adopted 07/18/2007, effective 08/30/2007	Part A Section	As of 11-25-2009, no action on 2008 draft	2003-03 v. 2008-06	Per concord Terry Devine	e, CRCPD				Per concordance by Terry Devine, CRCPD
	§1.2.2	468		The definition of "Licensing State" and associated footnote are deleted.	"Licensing State" means any State which has been finally designated as such by the Conference of Radiation Control Program Directors, Inc., based upon having regulations for control of radiation relating to naturally occurring or accelerator produced radioactive material (NARM) and an effective program for the regulatory control of NARM.5	=§A.2		The definition of "Licensing State" is deleted.	"Licensing S any Sstate, y been finally as such by t Conference Control Prog Directors, In reviews state to establish with the Sug State Regula ascertains w State has an program for natural occu accelerator p radioactive r (NARM). The Conference designate as States those regulations f radiation rela an effective the regulator	tate" means which has designated he of Radiatior gram c., which e regulation equivalency gested ations and whether a n effective control of rring or produced material e will s Licensing e states with for control of ating to, and program for	n S F I			
253	3 §1.2.2	468		Former footnote 5	5 For the purpose of	=§A.2								
254				is deleted.	meeting the definition of a Licensing State by the Conference of Radiation Control Program Directors, Inc. (CRCPD), NARM refers only to discrete sources of NARM. Diffuse sources of NARM are excluded from consideration by the CRCPD for Licensing State designation purposes.									

	Α	В	С	D	E	F	G	Н			J	K	L	М
	CCR §	Line	2010-07-01 CCR	Note	2007-08-30 CCR	SSR §	2008-06 SSR draft	SSR Part A	2008-01-04 \$	SSRCR	Cat	RATS	01-01-2009 CFR	2007-12-14 10 CFR
1			effective					changes						
	Part 1			2010-07-01 vs.	Adopted 07/18/2007,	Part A	As of 11-25-2009, no	2003-03 v.	Per concorda					Per concordance by
	Section			prior language		Section	action on 2008 draft	2008-06	Terry Devine					Terry Devine, CRCPD
	§1.2.2	469	"Limits." See "dose	The definition of	"Limits" (see "dose	~§A.2	"Limits" [See "Dose	=	"Limits" [See	"Dose				
			limits".	"limits" is	limits").		limits"].		limits"].					
				reformatted very										
255				slightly.										
	§1.2.2		"Loose-fitting facepiece"	=	"Loose-fitting facepiece"	=§A.2	"Loose-fitting facepiece"		"Loose-fitting					
			means a respiratory inlet		means a respiratory inlet		means a respiratory inlet		means a res					
			covering that is designed		covering that is designed		covering that is designed		covering that					
			to form a partial seal		to form a partial seal		to form a partial seal		to form a par					
			with the face.		with the face.		with the face.		with the face					
256														
						Page A9								
257														
	§1.2.2		"Lost or missing source	=	"Lost or missing source	=§A.2	"Lost or missing source	=	"Lost or miss	0				
			of radiation" means		of radiation" means		of radiation" means		of radiation"					
			licensed [or registered]		licensed [or registered]		licensed [or registered]		licensed [or r					
			source of radiation		source of radiation		source of radiation		source of rac					
			whose location is		whose location is		whose location is		whose location					
			unknown. This definition		unknown. This definition		unknown. This definition		unknown. Th					
			includes, but is not		includes, but is not		includes, but is not		includes, but					
			limited to, radioactive		limited to, radioactive		limited to, radioactive		limited to, rad					
			material that has been		material that has been		material that has been		material that					
			shipped but has not		shipped but has not		shipped but has not		shipped but I					
			reached its planned		reached its planned		reached its planned		reached its p					
			destination and whose		destination and whose		destination and whose		destination a					
			location cannot be		location cannot be		location cannot be		location can					
			readily traced in the		readily traced in the		readily traced in the		readily traced					
			transportation system.		transportation system.		transportation system.		transportation	n system.				
258														
	§1.2.2	476	"Lung class". See	The definition of	"Lung class" (see	≠§A.2								
	31.2.2		"class".	"lung class" is	"class").	/ 3/								
				reformatted by										
				removing the										
259				parentheses.										
	§1.2.2	477	"mA" means	=	"mA" means	≠§A.2								
260			milliampere.	-	milliampere.	-34.2								
200	<u> </u>		miniampere.		minampere.			I						

	A	В	С	D	E	F	G	Н			J	K	L	М
	CCR §		2010-07-01 CCR	Note	2007-08-30 CCR	SSR §	2008-06 SSR draft	SSR Part A	2008-01-04	SSRCR	Cat	RATS	01-01-2009 CFR	2007-12-14 10 CFR
1			effective					changes						
	Part 1		Adopted 10/21/2009,	2010-07-01 vs.	Adopted 07/18/2007,	Part A	As of 11-25-2009, no	2003-03 v.	Per concord					Per concordance by
2	Section		effective 07/01/2010	prior language	effective 08/30/2007	Section	action on 2008 draft	2008-06	Terry Devine	-				Terry Devine, CRCPD
	§1.2.2		"Major processor"	In the definition of	"Major processor"	~§A.2	"Major processor"	=	"Major proce					
			means a user	"major processor",			means a user		means a use					
			processing, handling, or				processing, handling, or			handling, or				
			manufacturing radioactive material	"Type" is added.	manufacturing radioactive material		manufacturing radioactive material		manufacturi radioactive r	•				
			exceeding Type A		exceeding Type A		exceeding Type A		exceeding T					
			quantities as unsealed		quantities as unsealed		quantities as unsealed		quantities as					
			sources or material, or		sources or material, or		sources or material, or		sources or n					
			exceeding 4 times Type		exceeding 4 times Type		exceeding 4 times Type		exceeding 4	,				
			B quantities as sealed		B quantities as sealed		B quantities as sealed		B quantities					
			sources, but does not		sources, but does not		sources, but does not		sources, but	t does not				
			include nuclear medicine		include nuclear medicine		include nuclear medicine		include nucl	ear medicine				
			programs, universities,		programs, universities,		programs, universities,		programs, u					
			industrial radiographers,		industrial radiographers,		industrial radiographers,			diographers,				
			or small industrial		or small industrial		or small industrial		or small indu					
			programs. Type A and		programs. Type A and		programs. Type A and		programs.					
			Type B quantities are defined in Part 17 of		Type B quantities are defined in Part 17 of		B quantities are defined in T.2 of these		B quantities in T.2 of the					
			these regulations.		these regulations.		regulations.		regulations.	30				
			these regulations.		these regulations.		regulations.		regulations.					
261														
	§1.2.2	483	"Mammographer" means	The definition of	"Mammographer" means	≠§A.2								
	°		a registered radiologic	"mammographer"	a person who operates a	0								
			technologist who has	is modified to	machine source of									
			specialized training to	match the usage	ionizing radiation,									
			perform mammography	in Part 2 and	commonly known as an									
			examinations.	Part 6.	"x-ray machine", in the									
					conduct of a									
					mammography exam.									
262														
	§1.2.2		"Management" means	=	"Management" means	≠§A.2								
			the chief executive		the chief executive									
			officer, or other		officer, or other									
			individual having the		individual having the									
			authority to manage, direct, or administer the		authority to manage, direct, or administer the									
			licensee's activities, or		licensee's activities, or									
			such person's		such person's									
000			delegate(s).		delegate(s).									
263			"mAs" means	A definition of	- • • •	+8A 2								
	§1.2.2		mAs means means	A definition of "mAs" is added		≠§A.2								
264			miniampere second.	from Part 6.										
264	<u> </u>	Page												
265	;	Page 1-15												
200	'	1-13												

	A	В	С	D	E	F	G	Н		I	J	K	L	М
1	CCR §		2010-07-01 CCR effective	Note	2007-08-30 CCR	SSR §	2008-06 SSR draft	SSR Part A changes	2008-01-04		Cat	RATS	01-01-2009 CFR	2007-12-14 10 CFR
2	Part 1 Section		effective 07/01/2010	2010-07-01 vs. prior language	Adopted 07/18/2007, effective 08/30/2007	Part A Section	As of 11-25-2009, no action on 2008 draft	2003-03 v. 2008-06	Per concord Terry Devine					Per concordance by Terry Devine, CRCPD
266	§1.2.2		"Medical institution" means an organization in which two or more medical disciplines are practiced.	=	"Medical institution" means an organization in which two or more medical disciplines are practiced.	≠§A.2								
	§1.2.2		means an individual trained and experienced	A broad or generic definition of "medical physicist" is added. Subdiscipline definitions are left to necessary usage in Part 2, Part 7, and Part 20, as reflected in the definitions of "registered medical physicist" and "radiation therapy physicist".	"Medical physicist" means an individual trained and experienced in a medical physics specialty.	≠§A.2								
267														
	§1.2.2		"Medical use" means the intentional internal or external administration of radioactive material or radiation to humans or animals in the practice of the healing arts, including administration of radioactive materials to patients or human research subjects under the supervision of an authorized user and operation of radiation machines for healing arts purposes.	healing arts purposes" is	"Medical use" means the intentional internal or external administration of radioactive material or radiation to humans in the practice of the healing arts, including administration of radioactive materials to patients or human research subjects under the supervision of an authorized user and operation of radiation machines.									
268														

	Α	В	С	D	E	F	G	Н		I	J	K	L	М
	CCR §	Line	2010-07-01 CCR	Note	2007-08-30 CCR	SSR §	2008-06 SSR draft	SSR Part A	2008-01-04	SSRCR	Cat	RATS	01-01-2009 CFR	2007-12-14 10 CFR
1			effective					changes						
	Part 1			2010-07-01 vs.	Adopted 07/18/2007,	Part A	As of 11-25-2009, no	2003-03 v.	Per concord					Per concordance by
2	Section		effective 07/01/2010	prior language	effective 08/30/2007	Section	action on 2008 draft	2008-06	Terry Devine	e, CRCPD				Terry Devine, CRCPD
	§1.2.2	495	"Member of the public"	=		≠§A.2								
			means an individual,		means an individual,									
			except when that		except when that									
			individual is receiving an occupational dose.		individual is receiving an occupational dose.									
269														
	§1.2.2		"MeV" means one mega	=	"MeV" means one mega	≠§A.2								
			electron volt, or one million electron volts.		electron volt, or one million electron volts.									
			One MeV is the amount		One MeV is the amount									
			of energy acquired by a		of energy acquired by a									
			particle with one electron		particle with one electron									
			charge in passing		charge in passing									
			through a potential		through a potential									
			difference of one million		difference of one million									
			volts in a vacuum. One		volts in a vacuum. One									
			MeV is equivalent to		MeV is equivalent to									
			1.60×10-16 joules.		1.60×10-16 joules.									
270														
	§1.2.2	500	"Minor" means an	=	"Minor" means an	=§A.2	"Minor" means an	=	"Minor" mea					
			individual less than 18		individual less than 18		individual less than 18		individual les					
271			years of age.		years of age.		years of age.		years of age					
	§1.2.2	501	"Misadministration"	The definition of	"Misadministration"	≠§A.2								
			means an event that	"misadmin	means an event, other									
			results in a dose or dosage administered to	istration" is made consonant with	than from intervention by a patient or human									
			the wrong individual, or	usage in Part 2.	research subject, that									
			by the wrong mode of	Part 6, Part 7, and	results in a dose or									
			radiation delivery, or that		dosage that differs from									
			differs from the		the prescribed dose or									
			prescribed dose or		dosage as stated in 7.21									
			dosage, as stated in		or an equivalent section									
			2.6.3, 7.21, 20.6, or an		of these regulations, or									
			equivalent section of		as administered to the									
1			these regulations.		wrong individual or by									
			"Reportable medical event" is an equivalent		the wrong mode of									
			term.		radiation delivery.									
272														
	1	L	1	I	1	1		1	1		1	1	1	

	A	В	С	D	E	F	G	Н	I	J	K	L	М
	CCR §	Line	2010-07-01 CCR	Note	2007-08-30 CCR	SSR §	2008-06 SSR draft	SSR Part A	2008-01-04 SSRCR	Cat	RATS	01-01-2009 CFR	2007-12-14 10 CFR
1			effective					changes					
	Part 1		Adopted 10/21/2009,	2010-07-01 vs.	Adopted 07/18/2007,	Part A	As of 11-25-2009, no	2003-03 v.	Per concordance by				Per concordance by
2	Section		effective 07/01/2010	prior language	effective 08/30/2007	Section	action on 2008 draft	2008-06	Terry Devine, CRCPD				Terry Devine, CRCPD
	§1.2.2	505	"Monitoring" means the	=	"Monitoring" means the	=§A.2	"Monitoring" means the	=	"Monitoring" means the				
			measurement of		measurement of		measurement of		measurement of				
			radiation, radioactive		radiation, radioactive		radiation, radioactive		radiation, radioactive				
			material concentrations,		material concentrations,		material concentrations,		material concentrations,				
			surface area activities or		surface area activities or		surface area activities or		surface area activities or				
			quantities of radioactive		quantities of radioactive		quantities of radioactive		quantities of radioactive				
			material and the use of		material and the use of		material and the use of		material and the use of				
			the results of these		the results of these		the results of these		the results of these				
			measurements to		measurements to		measurements to		measurements to				
			evaluate potential		evaluate potential		evaluate potential		evaluate potential				
			exposures and doses.		exposures and doses.		exposures and doses.		exposures and doses.				
			For purposes of these		For purposes of these		For purposes of these		For purposes of these				
			regulations, "radiation		regulations, "radiation		regulations, "radiation		regulations, "radiation				
			monitoring" and		monitoring" and		monitoring" and		monitoring" and				
			"radiation protection		"radiation protection		"radiation protection		"radiation protection				
			monitoring" are		monitoring" are		monitoring" are		monitoring" are				
			equivalent terms.		equivalent terms.		equivalent terms.		equivalent terms.				
070													
273			(1)		"MOOA"	(0.0.0							
	§1.2.2	509	"MQSA" means	=	"MQSA" means	≠§A.2							
074			Mammography Quality		Mammography Quality								
274			Standards Act.	<u> </u>	Standards Act.								
	§1.2.2	510	"NARM". See "naturally		"NARM" means any	≠§A.2	"NARM" means any	=	"NARM" means any				
			occurring or accelerator-	to the definition of	naturally occurring or		naturally occurring or		naturally occurring or				
			produced radioactive	NARM is	accelerator produced		accelerator-produced		accelerator-produced				
			material" (NARM).	provided.	radioactive material.		radioactive material. It		radioactive material. It				
					NARM does not include		does not include		does not include				
					source or special		byproduct, source, or		byproduct, source, or				
1					nuclear material.5		special nuclear material.		special nuclear material.				
275													

	Α	В	С	D	E	F	G	Н			J	K	L	М
1	CCR §	Line	2010-07-01 CCR effective	Note	2007-08-30 CCR	SSR §	2008-06 SSR draft	SSR Part A changes	2008-01-04	SSRCR	Cat	RATS	01-01-2009 CFR	2007-12-14 10 CFR
	Part 1			2010-07-01 vs.	Adopted 07/19/2007	Part A	As of 11-25-2009, no	2003-03 v.	Per concord	lanaa hu				Per concordance by
2	Section		Adopted 10/21/2009, effective 07/01/2010	prior language	Adopted 07/18/2007, effective 08/30/2007	Section	action on 2008 draft	2003-03 V. 2008-06	Terry Devin					Terry Devine, CRCPD
	§1.2.2	511			enective 00/30/2007		"Nationally tracked	2000-00	Terry Devin	e, crcpd	В	Added to	Nationally tracked	
	91.Z.Z	511	"Nationally tracked	A definition of		~§A.2	,				в	Added to	Nationally tracked	"Nationally tracked
			source" means a sealed source containing a	"nationally tracked source is added.			source" means a sealed source containing a					65685;	source is a sealed	source" means a sealed source containing a
			5	source is added.			•						source containing a	U U
			quantity equal to or greater than a Category				quantity equal to or greater than Category 1					November	quantity equal to or greater than Category 1	quantity equal to or greater than Category 1
			2 level of any radioactive				or Category 2 levels of					8, 2006; RATS ID	or Category 2 levels of	or Category 2 levels of
			material listed in				any radioactive material							any radioactive material
			Appendix 4G.				listed in Appendix E of						listed in Appendix E of	listed in Appendix E of
			Appendix 40.				Part D. In this context a					FR 65865;	this part. In this context	this Part. In this context
							sealed source is defined					November	a sealed source is	a sealed source is
							as radioactive material					8, 2006;	defined as radioactive	defined as radioactive
							that is sealed in a					8, 2006, RATS ID	material that is sealed in	material that is sealed in
							capsule or closely					2006-3	a capsule or closely	a capsule or closely
							bonded, in a solid form					2000-3		bonded, in a solid form
							and which is not exempt						and which is not exempt	and which is not exempt
							from regulatory control.						from regulatory control.	from regulatory control.
							It does not mean						It does not mean	It does not mean
							material encapsulated						material encapsulated	material encapsulated
							solely for disposal, or						solely for disposal, or	solely for disposal, or
							nuclear material						nuclear material	nuclear material
							contained in any fuel						contained in any fuel	contained in any fuel
							assembly, subassembly,						assembly, subassembly,	assembly, subassembly,
							fuel rod, or fuel pellet.						fuel rod, or fuel pellet.	fuel rod, or fuel pellet.
							Category 1 nationally						Category 1 nationally	Category 1 nationally
							tracked sources are						tracked sources are	tracked sources are
							those containing						those containing	those containing
							radioactive material at a						radioactive material at a	radioactive material at a
							quantity equal to or						quantity equal to or	quantity equal to or
							greater than the						greater than the	greater than the
							Category 1 threshold.						Category 1 threshold.	Category 1 threshold.
							Category 2 nationally						Category 2 nationally	Category 2 nationally
							tracked sources are						tracked sources are	tracked sources are
							those containing						those containing	those containing
							radioactive material at a						radioactive material at a	radioactive material at a
							quantity equal to or						quantity equal to or	quantity equal to or
							greater than the						greater than the	greater than the
							Category 2 threshold but							Category 2 threshold but
070							less than the Category 1							less than the Category 1
276							threshold.				-		threshold.	threshold.
077	§1.2.2	513	In this context, a sealed			~§A.2								
277			source:											
	§1.2.2	514	(a) Means radioactive			~§A.2								
			material that is sealed in											
			a capsule or closely											
			bonded, in a solid form,											
			and is not exempt from											
			regulatory control; and											
278														

	A	В	С	D	E	F	G	Н			J	K	L	М
	CCR §		2010-07-01 CCR	Note	2007-08-30 CCR	SSR §	2008-06 SSR draft	SSR Part A	2008-01-04	SSRCR	Cat	RATS	01-01-2009 CFR	2007-12-14 10 CFR
1			effective					changes						
2	Part 1 Section		Adopted 10/21/2009, effective 07/01/2010	2010-07-01 vs. prior language	Adopted 07/18/2007, effective 08/30/2007	Part A Section	As of 11-25-2009, no action on 2008 draft	2003-03 v. 2008-06	Per concord Terry Devine					Per concordance by Terry Devine, CRCPD
	§1.2.2		(b) Does not mean	prior language	enective 00/30/2007	~§A.2	action on 2008 draft	2008-00	Terry Devine	e, CRCFD				Terry Devine, CRCPD
	31.2.2	510	material encapsulated			34.2								
			solely for disposal, or											
			nuclear material											
			contained in any fuel											
			assembly, subassembly, fuel rod, or fuel pellet.											
070														
279	81 2 2	510	"Natural radioactivity"	=	"Natural radioactivity"	=§A.2	"Natural radioactivity"	=	Notural radi	o o o tivitiv				
	§1.2.2	518	means radioactivity of	-	means radioactivity	-9A.2	means radioactivity	-	Natural radio means radio					
			naturally occurring		naturally occurring		naturally occurring		naturally occ					
280			nuclides.		nuclides.		nuclides.		nuclides.	0				
	§1.2.2	519	"Natural thorium" means	=	"Natural thorium" means	≠§A.2								
			thorium with the		thorium with the									
			naturally occurring distribution of thorium		naturally occurring distribution of thorium									
			isotopes (essentially 100		isotopes (essentially 100									
			weight percent thorium-		weight percent thorium-									
281			232).		232).									
	§1.2.2	521	"Natural uranium"	=	"Natural uranium"	≠§A.2								
			means uranium		means uranium									
			containing the naturally		containing the naturally									
			occurring distribution of the uranium isotopes		occurring distribution of the uranium isotopes									
			234, 235 and 238		234, 235 and 238									
			(approximately 0.711		(approximately 0.711									
			weight percent uranium-		weight percent uranium-									
			235 and the remainder		235 and the remainder									
			by weight essentially uranium 238) that is		by weight essentially uranium 238) that is									
			neither enriched nor		neither enriched nor									
			depleted in the isotope		depleted in the isotope									
			uranium 235.		uranium 235.									
282														
		Page												
283		1-16												

1 Part 2 Sect	R§ Line	2010-07-01 CCR										M
			Note	2007-08-30 CCR	SSR §	2008-06 SSR draft	SSR Part A	2008-01-04 SSRCR	Cat	RATS	01-01-2009 CFR	2007-12-14 10 CFR
		effective					changes					
2 Sect		Adopted 10/21/2009,	2010-07-01 vs.	Adopted 07/18/2007,	Part A	As of 11-25-2009, no	2003-03 v.	Per concordance by				Per concordance by
		effective 07/01/2010	prior language	effective 08/30/2007	Section	action on 2008 draft	2008-06	Terry Devine, CRCPD				Terry Devine, CRCPD
§1.2.	2.2 5	25 Naturally occurring or	=	"NARM" means any	~§A.2	"NARM" means any	=	"NARM" means any				
		accelerator produced		naturally occurring or		naturally occurring or		naturally occurring or				
		radioactive material"		accelerator produced		accelerator-produced		accelerator-produced				
		(NARM) means any		radioactive material.		radioactive material. It		radioactive material. It				
		naturally occurring or		NARM does not include		does not include		does not include				
		accelerator-produced		source or special		byproduct, source, or		byproduct, source, or				
		radioactive material that is not source or special		nuclear material.5		special nuclear material.		special nuclear material.				
		nuclear material.										
204		nuclear material.										
284 §1.2.	>2 5	27 "Naturally occurring	A definition of		~§A.2	"NORM" means any	=	"NORM" means any				
31.2		radioactive material"	"NORM" is added.		37.2	naturally occurring		naturally occurring				
		(NORM) means any				radioactive material. It		radioactive material. It				
		radioactive material that				does not include		does not include				
		is not byproduct, source,				accelerator produced,		accelerator produced,				
		or special nuclear				byproduct, source, or		byproduct, source, or				
		material or produced in				special nuclear material.		special nuclear material.				
		an accelerator.										
285												
§1.2.	2.2 5	29 "NCRP" means the	=	"NCRP" means the	≠§A.2							
		National Council on		National Council on								
		Radiation Protection and		Radiation Protection and								
286		Measurements.		Measurements.								
§1.2.	2.2 5	30 "Negative-pressure	A quotation mark	"Negative-pressure	=§A.2	"Negative pressure	=	"Negative pressure				
		respirator (tight-fitting)"	is moved slightly.	respirator (tight-fitting)"		respirator (tight fitting) "		respirator (tight fitting) "				
		means a respirator in		means a respirator in		means a respirator in		means a respirator in				
		which the air pressure inside the facepiece is		which the air pressure inside the facepiece is		which the air pressure inside the facepiece is		which the air pressure inside the facepiece is				
		negative during		negative during		negative during		negative during				
		inhalation with respect to		inhalation with respect to		inhalation with respect to		inhalation with respect to				
		the ambient air pressure		the ambient air pressure		the ambient air pressure		the ambient air pressure				
		outside the respirator.		outside the respirator.		outside the respirator.		outside the respirator.				
287												
<u>207</u> §1.2.	2.2 5	33 "NIST" means the	=	"NIST" means the	≠§A.2							
31.2		National Institute of		National Institute of	·							
		Standards and		Standards and								
288		Technology.		Technology.								

	Α	В	С	D	E	F	G	Н			J	K	L	М
	CCR §	Line	2010-07-01 CCR	Note	2007-08-30 CCR	SSR §	2008-06 SSR draft	SSR Part A	2008-01-04	SSRCR	Cat	RATS	01-01-2009 CFR	2007-12-14 10 CFR
1	_		effective					changes						
2	Part 1 Section		Adopted 10/21/2009, effective 07/01/2010	2010-07-01 vs. prior language	Adopted 07/18/2007, effective 08/30/2007	Part A Section	As of 11-25-2009, no action on 2008 draft	2003-03 v. 2008-06	Per concorda Terry Devine					Per concordance by Terry Devine, CRCPD
	§1.2.2	534	"Nonstochastic effect"	=	"Nonstochastic effect"	≠§A.2		2000-00	Terry Devine					
	5		means a health effect,		means a health effect,	. 3								
			the severity of which		the severity of which									
			varies with the dose and for which a threshold is		varies with the dose and for which a threshold is									
			believed to exist.		believed to exist.									
			Radiation-induced		Radiation-induced									
			cataract formation is an example of a		cataract formation is an example of a									
			nonstochastic effect. For		nonstochastic effect. For									
			purposes of these		purposes of these									
			regulations,		regulations,									
			"deterministic effect" is an equivalent term.		"deterministic effect" is an equivalent term.									
			un oquivalont tonn.											
289														
	§1.2.2	538	"NORM". See "naturally occurring radioactive	A cross-reference to the definition of		≠§A.2								
			material" (NORM).	NORM is										
				provided.										
290														
	§1.2.2	539	"Normal form radioactive material" means	=	"Normal form radioactive material" means	≠§A.2								
			radioactive material that		radioactive material that									
			has not been		has not been									
			demonstrated to qualify		demonstrated to qualify									
			as "special form radioactive material".		as "special form radioactive material".									
291														
231	§1.2.2	541	"NRC". See "Nuclear	The definition of		≠§A.2								
1			Regulatory	"NRC" is		-								
1			Commission".	reformatted by removing the										
292				parentheses.										
232	§1.2.2	542	"Nuclear Regulatory	=	"Nuclear Regulatory	~§A.2	"Nuclear Regulatory	=	"Nuclear Reg	gulatory				
1	ĺ		Commission" (NRC)		Commission" (NRC)		Commission" means the	e	Commission	" means the				
1			means the U.S. Nuclear		means the U.S. Nuclear		Nuclear Regulatory		Nuclear Reg					
1			Regulatory Commission or its duly authorized		Regulatory Commission or its duly authorized		Commission or its duly authorized		Commission authorized	or its duly				
			representatives.		representatives.		representatives.		representativ	/es.				
293	į													
00.1						Page								
294						A10								

	Α	В	С	D	E	F	G	Н	I	J	K	L	М
	CCR §	Line	2010-07-01 CCR	Note	2007-08-30 CCR	SSR §	2008-06 SSR draft	SSR Part A	2008-01-04 SSRCR	Cat	RATS	01-01-2009 CFR	2007-12-14 10 CFR
1			effective					changes					
	Part 1		Adopted 10/21/2009,	2010-07-01 vs.	Adopted 07/18/2007,	Part A	As of 11-25-2009, no	2003-03 v.	Per concordance by				Per concordance by
2	Section		effective 07/01/2010	prior language	effective 08/30/2007	Section	action on 2008 draft	2008-06	Terry Devine, CRCPD				Terry Devine, CRCPD
	§1.2.2	544	"Occupational dose"	=	"Occupational dose"	~§A.2	"Occupational dose"	=	"Occupational dose"				
			means the dose		means the dose		means the dose		means the dose				
			received by an individual		received by an individual		received by an individual		received by an individua	I			
			in the course of		in the course of		in the course of		in the course of				
			employment in which the		employment in which the		employment in which the	•	employment in which the	•			
			individual's assigned		individual's assigned		individual's assigned		individual's assigned				
			duties involve exposure		duties involve exposure		duties for the licensee or		duties for the licensee or	-			
			to radiation or to		to radiation or to		registrant involve		registrant involve				
			radioactive material from		radioactive material from		exposure to sources of		exposure to sources of				
			licensed and unlicensed		licensed and unlicensed		radiation, whether or not		radiation, whether or not				
			sources of radiation		sources of radiation		the sources of radiation		the sources of radiation				
			whether or not the		whether or not the		are in the possession of		are in the possession of				
			sources of radiation are		sources of radiation are		the licensee, registrant,		the licensee, registrant,				
			in the possession of the		in the possession of the		or other person.		or other person.				
			licensee, registrant or		licensee, registrant or		Occupational dose does not include doses		Occupational dose does not include doses				
			other person. Occupational dose does		other person. Occupational dose does		received: from		received: from				
			not include doses		not include doses		background radiation, or		background radiation, or				
			received (1) from		received (1) from		from any medical		from any medical				
			background radiation, (2)		background radiation, (2)		administration the		administration the				
			from any medical	,	from any medical		individual has received.		individual has received,				
			administration the		administration the		from exposure to		from exposure to				
			individual has received.		individual has received.		individuals administered		individuals administered				
			(3) from exposure to		(3) from exposure to		radioactive material and		radioactive material and				
			individuals administered		individuals administered		released in accordance		released in accordance				
			radioactive material and		radioactive material and		with [cite appropriate		with [cite appropriate				
			released in accordance		released in accordance		Part G reference], from		Part G reference], from				
			with Section 7.26 of		with Section 7.26 of		voluntary participation in		voluntary participation in				
			these regulations, (4)		these regulations, (4)		medical research		medical research				
			from voluntary		from voluntary		programs, or as a		programs, or as a				
			participation in medical		participation in medical		member of the public.		member of the public.				
			research programs, or		research programs, or								
			(5) as a member of the		(5) as a member of the								
			public.		public.								
າດຄ													
295)												

	A	В	С	D	E	F	G	H	I	J	K	L	М
	CCR §	Line	2010-07-01 CCR	Note	2007-08-30 CCR	SSR §	2008-06 SSR draft	SSR Part A	2008-01-04 SSRCR	Cat	RATS	01-01-2009 CFR	2007-12-14 10 CFR
1			effective					changes					
	Part 1			2010-07-01 vs.	Adopted 07/18/2007,	Part A	As of 11-25-2009, no	2003-03 v.	Per concordance by				Per concordance by
2	Section			prior language		Section	action on 2008 draft	2008-06	Terry Devine, CRCPD				Terry Devine, CRCPD
296	§1.2.2		"Offsite response organization" means the non-licensee offsite organizations that may be needed to respond to an emergency, including, but not limited to, local fire, police, ambulance and hospital services.	=	"Offsite response organization" means the non-licensee offsite organizations that may be needed to respond to an emergency, including, but not limited to, local fire, police, ambulance and hospital services.	≠§A.2							
	§1.2.2	555		A general		≠§A.2		1					
297			individual trained and experienced in the procedure or use.	definition of "operator" is added.									
298	§1.2.2		"Package" means the packaging together with its radioactive contents as presented for transport.	=	"Package" means the packaging together with its radioactive contents as presented for transport.	=§A.2	"Package" means the packaging together with its radioactive contents as presented for transport.	=	"Package" means the packaging together with its radioactive contents as presented for transport.				
200	§1.2.2	559	"Particle accelerator." See "accelerator".	The cross- reference for "particle accelerator" is reformatted by removing the parentheses.	"Particle accelerator." See "accelerator".	~§A.2	"Particle accelerator" [See "Accelerator"].	=	Particle accelerator [See "Accelerator"].				
299	§1.2.2	560		A definition of		≠§A.2							
300			human being or an animal to whom radioactive materials or machine produced	"patient" is added. The definition clarifies that either a human being or animal can be a patient.		730.2							
		Page											
301		1-17											

	Α	В	С	D	E	F	G	Н		I	J	K	L	М
	CCR §	Line	2010-07-01 CCR	Note	2007-08-30 CCR	SSR §	2008-06 SSR draft	SSR Part A	2008-01-04	SSRCR	Cat	RATS	01-01-2009 CFR	2007-12-14 10 CFR
1			effective					changes						
2	Part 1 Section		Adopted 10/21/2009, effective 07/01/2010	2010-07-01 vs. prior language	Adopted 07/18/2007, effective 08/30/2007	Part A Section	As of 11-25-2009, no action on 2008 draft	2003-03 v. 2008-06	Per concord Terry Devine					Per concordance by Terry Devine, CRCPD
<u> </u>	§1.2.2	562	"Person" means any		"Person" means any	~§A.2	"Person" means any	=	Person mea					
	31.2.2	502	individual, corporation,		individual, corporation,	34.2	individual, corporation,		individual, c					
			partnership, firm,		partnership, firm,		partnership, firm,		partnership,	•				
			association, trust,		association, trust,		association, trust,		association,	,				
			estate, public or private institution, group,		estate, public or private institution, group,		estate, public or private institution, group,		estate, publi institution, g	•				
			agency, political		agency, political		agency, political		agency, poli					
			subdivision of this State,		subdivision of this State,		subdivision of this State,		subdivision					
			any other State or		any other State or		any other State or		any other St					
			political subdivision or		political subdivision or		political subdivision or		political sub					
			agency thereof, and any legal successor,		agency thereof, and any legal successor,		agency thereof, and any legal successor,		legal succes	eof, and any				
			representative, agent, or		representative, agent, or		representative, agent, or		0	ve, agent, or				
			agency of the foregoing.		agency of the foregoing.		agency of the foregoing		agency of th					
							[, but shall not include		[, but shall n					
							federal government agencies].		federal gove agencies].	rnment				
							agenciesj.		ayenciesj.					
302	2													
	§1.2.2	566	"Personal supervision"		"Personal supervision"	≠§A.2								
			means the supervisor is in attendance in the	"personal supervision", the	means the supervisor must be in attendance in									
			room with the	phrase "must be"	the room with the									
			supervisee during the	is replaced by "is".	supervisee during the									
			performance of the	"Personal",	performance of the									
			procedure. For purposes of these	"immediate",	procedure.									
			regulations, "physical	individual" and "physical"										
			supervision" or	supervision are										
			"immediate supervision"	considered										
			or "individual	equivalent terms.										
			supervision" is an equivalent term.											
			- 1											
303														
	§1.2.2	569	"Personnel monitoring	The definition of	"Personnel monitoring	~§A.2	"Personnel monitoring equipment" [See	=	Personnel m equipment [0				
			equipment". See "individual monitoring	"personnel monitoring	equipment". See "individual monitoring		"Individual monitoring		"Individual n					
			device".	equipment" is	device".		devices"].		devices"].	g				
1				reformatted by			-							
				removing the										
304	ł			parentheses.										

	Α	В	С	D	E	F	G	Н			J	K	L	М
1	CCR §	Line	2010-07-01 CCR effective	Note	2007-08-30 CCR	SSR §	2008-06 SSR draft	SSR Part A changes	2008-01-04	SSRCR	Cat	RATS	01-01-2009 CFR	2007-12-14 10 CFR
	Part 1 Section		Adopted 10/21/2009, effective 07/01/2010	2010-07-01 vs. prior language		Part A Section	As of 11-25-2009, no action on 2008 draft	2003-03 v. 2008-06	Per concord Terry Devine					Per concordance by Terry Devine, CRCPD
305	§1.2.2	570	"PET" means positron emission tomography. See "positron emission tomography radionuclide production facility".	The definition of "PET" is reformatted by removing the parentheses.	"PET" means positron emission tomography (see "positron emission tomography radionuclide production facility").	≠§A.2								
306	§1.2.2	572	"Phantom" means an object designed such that the interaction of ionizing radiation with the object is suitable for the evaluation of the particular characteristics of the radiation- producing system or anatomic region under consideration.	A definition of "phantom" is added.		≠§A.2								
	§1.2.2	575	"Pharmacist" means an individual licensed by a State or Territory of the United States, the District of Columbia or the Commonwealth of Puerto Rico to practice pharmacy.	=	"Pharmacist" means an individual licensed by a State or Territory of the United States, the District of Columbia or the Commonwealth of Puerto Rico to practice pharmacy.	≠§A.2		This definition is deleted for some reason.	"Pharmacist individual lic this State to and dispens prescription poisons or c appropriate definition].	compound e drugs, s, and ite				
	§1.2.2	577	"Physician" means an individual licensed by a State or Territory of the United States, the District of Columbia or the Commonwealth of Puerto Rico to dispense drugs in the practice of medicine.	=	"Physician" means an individual licensed by a State or Territory of the United States, the District of Columbia or the Commonwealth of Puerto Rico to dispense drugs in the practice of medicine.	≠§A.2		This definition is deleted for some reason.	"Physician" appropriate definition].					
	§1.2.2	579	"Planned special exposure" means an infrequent exposure to radiation, separate from and in addition to the annual occupational dose limits.	=	"Planned special exposure" means an infrequent exposure to radiation, separate from and in addition to the annual occupational dose limits.	≠§A.2								

	A	В	С	D	E	F	G	Н	I		J	K	L	М
1	CCR §		2010-07-01 CCR effective	Note	2007-08-30 CCR	SSR §	2008-06 SSR draft	SSR Part A changes	2008-01-04 SSR	CR Ca	at	RATS	01-01-2009 CFR	2007-12-14 10 CFR
2	Part 1 Section		effective 07/01/2010	2010-07-01 vs. prior language	Adopted 07/18/2007, effective 08/30/2007	Part A Section	As of 11-25-2009, no action on 2008 draft	2003-03 v. 2008-06	Per concordance Terry Devine, CF					Per concordance by Terry Devine, CRCPD
310	§1.2.2		"Podiatrist" means an individual licensed by a State or Territory of the United States, the District of Columbia or the Commonwealth of Puerto Rico to practice podiatry.	=	"Podiatrist" means an individual licensed by a State or Territory of the United States, the District of Columbia or the Commonwealth of Puerto Rico to practice podiatry.	≠§A.2								
311	§1.2.2		"Positive-pressure respirator" means a respirator in which the pressure inside the respiratory inlet covering exceeds the ambient air pressure outside the respirator.	=	"Positive-pressure respirator" means a respirator in which the pressure inside the respiratory inlet covering exceeds the ambient air pressure outside the respirator.	=§A.2	"Positive-pressure respirator" means a respirator in which the pressure inside the respiratory inlet covering exceeds the ambient air pressure outside the respirator.	=	"Positive-pressur respirator" mean respirator in whic pressure inside t respiratory inlet c exceeds the amb pressure outside respirator.	is a ch the che covering pient air				
	§1.2.2		"Positron Emission Tomography (PET) radionuclide production facility" means a facility operating a cyclotron or accelerator for the purpose of producing PET radionuclides.	=	"Positron Emission Tomography (PET) radionuclide production facility" means a facility operating a cyclotron or accelerator for the purpose of producing PET radionuclides.	≠§A.2								
312	2													
313	§1.2.2		"Powered air-purifying respirator" (PAPR) means an air-purifying respirator that uses a blower to force the ambient air through air- purifying elements to the facepiece.	=		=§A.2	"Powered air-purifying respirator (PAPR)" means an air-purifying respirator that uses a blower to force the ambient air through air- purifying elements to the inlet covering.	=	"Powered air-pur respirator (PAPR means an air-pur respirator that us blower to force th ambient air throu purifying element inlet covering.	R)" rifying ses a he ugh air-				
314	§1.2.2		"Practitioner of the healing arts" means any person upon whom U.S. Food and Drug Administration has conferred the authority to administer prescription drugs.			≠§A.2								

	Α	В	С	D	E	F	G	Н			J	К	L	М
	CCR §	Line	2010-07-01 CCR	Note	2007-08-30 CCR	SSR §	2008-06 SSR draft	SSR Part A	2008-01-04	SSRCR	Cat	RATS	01-01-2009 CFR	2007-12-14 10 CFR
1	-		effective			_		changes						
	Part 1		Adopted 10/21/2009,	2010-07-01 vs.	Adopted 07/18/2007,	Part A	As of 11-25-2009, no	2003-03 v.	Per concord					Per concordance by
2	Section		effective 07/01/2010	prior language		Section	action on 2008 draft	2008-06	Terry Devin	e, CRCPD				Terry Devine, CRCPD
	§1.2.2	591	"Pressure-demand	=	"Pressure-demand	=§A.2	"Pressure demand	=	"Pressure d					
			respirator" means a		respirator" means a		respirator" means a		respirator" r					
			positive-pressure		positive-pressure		positive pressure		positive pre					
			atmosphere-supplying		atmosphere-supplying respirator that admits		atmosphere-supplying		atmosphere					
			respirator that admits breathing air to the		breathing air to the		respirator that admits breathing air to the		respirator th breathing ai					
			facepiece when the		facepiece when the		facepiece when the		facepiece w					
			positive pressure is		positive pressure is		positive pressure is		positive pre					
			reduced inside the		reduced inside the		reduced inside the		reduced ins					
			facepiece by inhalation.		facepiece by inhalation.		facepiece by inhalation.		facepiece b					
045														
315		50.4				-64.0	IID via aireat a célo de al	A definition of						
1	§1.2.2	594	"Principal activity" means an activity	=	"Principal activity" means an activity	=§A.2	"Principal activity" means an activity	A definition of "principal						
			authorized by the license		authorized by the license		authorized by the license	, ,						
			which is essential to		which is essential to		which is essential to	added in 2008						
			achieving the purpose(s)		achieving the purpose(s)		achieving the purpose(s)							
			for which the license		for which the license		for which the license							
			was issued or amended.		was issued or amended.		was issued or amended.							
			Not included as principal		Not included as principal		Storage during which no							
			activities are (1)		activities are (1)		licensed material is							
			radioactive material		radioactive material		accessed for use or							
			storage while no		storage while no		disposal and activity							
			licensed material is accessed for use or		licensed material is accessed for use or		incidental to decontamination or							
			disposal and (2) activity		disposal and (2) activity		decommissioning are							
			incidental to		incidental to		not principal activities.							
			decontamination or		decontamination or		not principal dournioor							
			decommissioning.		decommissioning.									
					_									
1														
316														
	§1.2.2	598	"Projected dose" means	=	"Projected dose" means	≠§A.2								
			a future dose calculated		a future dose calculated									
			for a specified time		for a specified time									
			period on the basis of		period on the basis of									
			estimated or measured initial concentrations of		estimated or measured initial concentrations of									
1			radionuclides or		radionuclides or									
1			exposure rates and in		exposure rates and in									
1			the absence of		the absence of									
1			protective actions.		protective actions.									
1														
217														
317	┨	Dere												
318		Page 1-18												
310		1-10										1		

	A	В	С	D	E	F	G		Н		I	J	K	L	М
	CCR §	Line 2010-0	07-01 CCR	Note	2007-08-30 CCR	SSR §	2008-06 SSR	draft	SSR Part A	2008-01-04	SSRCR	Cat	RATS	01-01-2009 CFR	2007-12-14 10 CFR
1		effecti	ve						changes						
	Part 1	Adopt	ted 10/21/2009,	2010-07-01 vs.	Adopted 07/18/2007,	Part A	As of 11-25-2	009, no	2003-03 v.	Per concord	ance by				Per concordance by
2	Section	effecti	ive 07/01/2010	prior language	effective 08/30/2007	Section	action on 200)8 draft	2008-06	Terry Devine	e, CRCPD				Terry Devine, CRCPD
	§1.2.2	601 "Protec	ctive action"	=	"Protective action"	≠§A.2									
			an action taken		means an action taken										
			mbers of the		by members of the										
			to protect		public to protect										
			elves from		themselves from										
			on from an		radiation from an										
			nt involving		accident involving										
			ctive material. tive action may		radioactive material. Protective action may										
			e sheltering,		include sheltering,										
			ation, relocation,		evacuation, relocation,										
			l of access.		control of access,										
			istration of a		administration of a										
		radiop	rotective drug,		radioprotective drug,										
			tamination of		decontamination of										
		person	ıs,		persons,										
			tamination of land		decontamination of land										
			perty, or control of		or property, or control of										
		food o	r water.		food or water.										
319															
	§1.2.2	605 "Protec	ctive action guide"	=	"Protective action guide"	≠§A.2									
			a projected dose		means a projected dose										
			n accidental		from an accidental										
			e of radioactive		release of radioactive										
			al at which		material at which										
			tive action is to be		protective action is to be										
		consid	erea.		considered.										
320															
	§1.2.2		ctive apron"	A definition of		~§A.2	"Protective ap		=	"Protective a	•				
			an apron made	"protective apron"			means an apr			means an ap					
			ation-attenuating	is added in 2010			of radiation-at	-		of radiation-a	-				
			al(s) used to	Part 1.			materials use			materials us		•			
			e exposure to				exposure to ra	adiation.		exposure to	radiation.				
321		radiatio	on.												

		В	С	D	E	F	G	Н		J	K	L	M
	CCR §	Line	2010-07-01 CCR	Note	2007-08-30 CCR	SSR §	2008-06 SSR draft	SSR Part A	2008-01-04 SSRCR	Cat	RATS	01-01-2009 CFR	2007-12-14 10 CFR
1			effective					changes					
	Part 1		Adopted 10/21/2009,	2010-07-01 vs.	Adopted 07/18/2007,	Part A	As of 11-25-2009, no	2003-03 v.	Per concordance by				Per concordance by
2	Section		effective 07/01/2010	prior language	effective 08/30/2007	Section	action on 2008 draft	2008-06	Terry Devine, CRCPD				Terry Devine, CRCPD
	§1.2.2	609	"Public dose" means the	=	"Public dose" means the	=§A.2	"Public dose" means the	=	"Public dose" means the				
			dose received by a		dose received by a		dose received by a		dose received by a				
			member of the public		member of the public		member of the public		member of the public				
			from exposure to		from exposure to		from exposure to		from exposure to				
			radiation or radioactive		radiation or radioactive		sources of radiation		sources of radiation				
			material released by a		material released by a		released by the licensee		released by the licensee				
			licensee, or to any other		licensee, or to any other		or registrant, or to any		or registrant, or to any				
			source of radiation under		source of radiation under		other source of radiation		other source of radiation				
			the control of a licensee.		the control of a licensee.		under the control of the		under the control of the				
			Public dose does not		Public dose does not		licensee or registrant		licensee or registrant				
			include occupational		include occupational		Public dose does not		Public dose does not				
			dose, or doses received		dose, or doses received		include occupational		include occupational				
			from background		from background		dose, or doses received		dose, or doses received				
			radiation, from any		radiation, from any		from background		from background				
			medical administration		medical administration		radiation, from any		radiation, from any				
			the individual has		the individual has		medical administration		medical administration				
			received, from exposure		received, from exposure		the individual has		the individual has				
			to individuals		to individuals		received, from exposure		received, from exposure				
			administered radioactive material and released in		administered radioactive		to individuals administered radioactive		to individuals administered radioactive				
					material and released in		material and released in		material and released in				
			accordance with Section 7.26 of these		accordance with Section 7.26 of these								
							accordance with [cite		accordance with [cite				
			regulations, or from voluntary participation in		regulations, or from voluntary participation in		appropriate Part G regulation], or from		appropriate Part G regulation], or from				
			medical research		medical research		voluntary participation in		voluntary participation in				
			programs.				medical research		medical research				
			programs.		programs.		programs.						
							programs.		programs.				
322													
	1					Page							
323						A11							

	Α	В	С	D	E	F	G	Н		J	K	L	М
	CCR §	Line	2010-07-01 CCR	Note	2007-08-30 CCR	SSR §	2008-06 SSR draft	SSR Part A	2008-01-04 SSRCR	Cat	RATS	01-01-2009 CFR	2007-12-14 10 CFR
1	-		effective			_		changes					
	Part 1		Adopted 10/21/2009,	2010-07-01 vs.	Adopted 07/18/2007,	Part A	As of 11-25-2009, no	2003-03 v.	Per concordance by				Per concordance by
2	Section		effective 07/01/2010	prior language	effective 08/30/2007	Section	action on 2008 draft	2008-06	Terry Devine, CRCPD				Terry Devine, CRCPD
	§1.2.2	615	"Pyrophoric liquid"	=	"Pyrophoric liquid"		"Pyrophoric material"	=	"Pyrophoric material"				
			means any liquid that		means any liquid that		means any liquid that		means any liquid that				
			ignites spontaneously in		ignites spontaneously in		ignites spontaneously in		ignites spontaneously in				
			dry or moist air at or		dry or moist air at or		dry or moist air at or		dry or moist air at or				
			below 130 oF (54.4 oC).		below 130 oF (54.4 oC).		below 130 degrees F		below 130 degrees F				
			A pyrophoric solid is any		A pyrophoric solid is any		(54.4 degrees C) or any		(54.4 degrees C) or any				
			solid material, other than		solid material, other than		solid material, other than		solid material, other than				
			one classed as an		one classed as an		one classed as an		one classed as an				
			explosive, which under		explosive, which under		explosive, which under		explosive, which under				
			normal conditions is		normal conditions is		normal conditions is		normal conditions is				
			liable to cause fires		liable to cause fires		liable to cause fires		liable to cause fires				
			through friction, retained		through friction, retained		through friction, retained		through friction, retained				
			heat from manufacturing		heat from manufacturing		heat from manufacturing		heat from manufacturing				
			or processing, or which		or processing, or which		or processing, or which		or processing, or which				
			can be ignited readily		can be ignited readily		can be ignited readily		can be ignited readily				
			and, when ignited, burns		and, when ignited, burns		and, when ignited, burns		and, when ignited, burns				
			so vigorously and		so vigorously and		so vigorously and		so vigorously and				
			persistently as to create		persistently as to create		persistently as to create		persistently as to create				
			a serious transportation,		a serious transportation,		a serious transportation,		a serious transportation,				
			handling, or disposal		handling, or disposal		handling, or disposal		handling, or disposal				
			hazard. Included are		hazard. Included are		hazard. Included are		hazard. Included are				
			spontaneously		spontaneously		spontaneously		spontaneously				
			combustible and water		combustible and water		combustible and water-		combustible and water-				
			reactive materials.		reactive materials.		reactive materials.		reactive materials.				
0.04													
324													

	A	В	С	D	E	F	G	H			J	K		L	М
	CCR §	Line	2010-07-01 CCR	Note	2007-08-30 CCR	SSR §	2008-06 SSR draft	SSR Part A	2008-01-04	SSRCR	Cat	RATS	01-01-200	9 CFR	2007-12-14 10 CFR
1			effective					changes							
	Part 1		Adopted 10/21/2009,	2010-07-01 vs.	Adopted 07/18/2007,	Part A	As of 11-25-2009, no	2003-03 v.	Per concorda	ance by					Per concordance by
2	Section		effective 07/01/2010	prior language	effective 08/30/2007	Section	action on 2008 draft	2008-06	Terry Devine	, CRCPD					Terry Devine, CRCPD
	§1.2.2	621	"Qualified expert" (QE)	The generic	"Qualified expert" means	~§A.2	["Qualified expert"	=	["Qualified ex	kpert"					
	•		means an individual who		an individual, approved	Ŭ	means an individual		means an in	dividual					
			has current Department	"Qualified Expert"	by the Department as		having the knowledge		having the ki	nowledge					
			approval in a designated		prescribed in Appendix		and training to measure		and training	to measure					
			specialty to design	slightly.	1A, having the		ionizing radiation, to		ionizing radia	ation, to					
			shielding, measure		knowledge and training		evaluate safety		evaluate safe	ety					
			ionizing radiation,		to measure ionizing		techniques, and to		techniques, a	and to					
			evaluate radiation safety		radiation, to evaluate		advise regarding		advise regar						
			techniques, and advise		radiation safety		radiation protection		radiation pro						
			regarding radiation		techniques, and to		needs, for example,		needs, for ex	•					
			protection needs.		advise regarding		individuals certified in		individuals c						
					radiation protection		the appropriate field by		the appropria						
					needs, and for radiation		the American Board of		the American						
					therapy, having training		Radiology, or the		Radiology, o						
					and experience in the		American Board of		American Bo Health Physi						
					clinical applications of		Health Physics, or the American Board of		American Bo						
					radiation physics to radiation therapy.		Medical Physics, or		Medical Phys						
					radiation therapy.		those having equivalent		those having	,					
							qualifications. With		qualifications						
							reference to the		reference to						
							calibration of radiation		calibration of						
							therapy equipment, an		therapy equi						
							individual having, in		individual ha						
							addition to the above		addition to th	e above					
							qualifications, training		qualifications	s, training					
							and experience in the		and experier	ice in the					
							clinical applications of		clinical appli	cations of					
							radiation physics to		radiation phy	sics to					
							radiation therapy, for		radiation the						
							example, individuals		example, ind	ividuals					
							certified in Therapeutic		certified in T						
							Radiological Physics or		Radiological						
							X-Ray and Radium		X-Ray and R						
							Physics by the American		Physics by the						
							Board of Radiology, or		Board of Rad						
							those having equivalent		those having						
325							qualifications.]		qualifications	s.]					
ა∠ე)														

	A	В	С	D	E	F	G	Н			J	K	L	М
	CCR §	Line	2010-07-01 CCR	Note	2007-08-30 CCR	SSR §	2008-06 SSR draft	SSR Part A	2008-01-04	SSRCR	Cat	RATS	01-01-2009 CFR	2007-12-14 10 CFR
1			effective					changes						
_	Part 1			2010-07-01 vs.	Adopted 07/18/2007,	Part A	As of 11-25-2009, no	2003-03 v.	Per concord					Per concordance by
2	Section			prior language	effective 08/30/2007	Section	action on 2008 draft	2008-06	Terry Devine	e, CRCPD				Terry Devine, CRCPD
	§1.2.2		"Qualified inspector" (QI) means an individual who has current Department approval in a designated specialty to perform evaluations of radiation machines, facilities and operators for compliance with these regulations.	definition of "Qualified Inspector" is added.		≠§A.2								
326														
327	§1.2.2		. ,	A generic definition of "Qualified Trainer" is added.		≠§A.2								
328	§1.2.2	629	"Qualitative fit test" (QLFT) means a pass/fail fit test to assess the adequacy of respirator fit that relies on the individual's response to the test agent.	=	"Qualitative fit test" (QLFT) means a pass/fail fit test to assess the adequacy of respirator fit that relies on the individual's response to the test agent.	=§A.2	"Qualitative fit test (QLFT)" means a pass/fail fit test to assess the adequacy of respirator fit that relies on the individual's response to the test agent.	=	"Qualitative (QLFT)" me pass/fail fit t assess the a respirator fit on the indivi response to agent.	ans a est to adequacy of that relies dual's				
329	§1.2.2		actions necessary to	definition of "quality assurance".	"Quality assurance" comprises all those planned and systematic actions necessary to provide adequate confidence that a system or component will perform satisfactorily in service.	≠§A.2								

	A	B C	D	E	F	G	Н		J	K	L	М
1	CCR §	Line 2010-07-01 CCR effective	Note	2007-08-30 CCR	SSR §	2008-06 SSR draft	SSR Part A changes	2008-01-04 SSRCR	Cat	RATS	01-01-2009 CFR	2007-12-14 10 CFR
	Part 1	Adopted 10/21/2009,	2010-07-01 vs.	Adopted 07/18/2007,	Part A	As of 11-25-2009, no	2003-03 v.	Per concordance by				Per concordance by
2	Section	effective 07/01/2010	prior language	effective 08/30/2007	Section	action on 2008 draft	2008-06	Terry Devine, CRCPI	C			Terry Devine, CRCPD
330	§1.2.2	633 "Quality Assurance Officer" means the individual responsible for the development, maintenance and oversight (including corrective action) of the quality assurance program.	Officer" is added.		≠§A.2							
	§1.2.2	635 "Quality control" (QC) comprises those quality assurance actions that relate to control of the physical characteristics and quality of the material or component t predetermined requirements.	definition of "quality control".	"Quality control" comprises those quality assurance actions that relate to control of the physical characteristics and quality of the material or component to predetermined requirements.	≠§A.2							
331												
332		639 "Quality factor" (Q) means the modifying factor, listed in Appendi 1A, Table 1A-1 or Table 1A-2, that is used to derive dose equivalent from absorbed dose.	The definition of "quality factor" is modified to reflect that the quality factor tables formerly in §1.14 are now Appendix 1A.	"Quality factor" (Q) means the modifying factor, listed in 1.14, Table 1-2 or Table 1-3, that is used to derive dose equivalent from absorbed dose.	~§A.2	"Quality factor" (Q) means the modifying factor, listed in Tables I and II of A.13, that is used to derive dose equivalent from absorbed dose.	=	Quality factor (Q) me the modifying factor, listed in Tables I and of A.13, that is used t derive dose equivaler from absorbed dose.	II to			
333	§1.2.2	637 "Quantitative fit test" (QNFT) means an assessment of the adequacy of respirator f by numerically measuring the amount of leakage into the respirator.		"Quantitative fit test" (QNFT) means an assessment of the adequacy of respirator fi by numerically measuring the amount o leakage into the respirator.		"Quantitative fit test (QNFT)" means an assessment of the adequacy of respirator fit by numerically measuring the amount of leakage into the respirator.		"Quantitative fit test (QNFT)" means an assessment of the adequacy of respirato by numerically measuring the amoun leakage into the respirator.				
		Page										
334		1-19										

	A	В	С	D	E	F	G	Н	I	J	K	L	М
	CCR §	Line	2010-07-01 CCR	Note	2007-08-30 CCR	SSR §	2008-06 SSR draft	SSR Part A	2008-01-04 SSRCR	Cat	RATS	01-01-2009 CFR	2007-12-14 10 CFR
1			effective					changes					
	Part 1		Adopted 10/21/2009,	2010-07-01 vs.	Adopted 07/18/2007,	Part A	As of 11-25-2009, no		Per concordance by				Per concordance by
2	Section		effective 07/01/2010	prior language	effective 08/30/2007	Section	action on 2008 draft	2008-06	Terry Devine, CRCPD				Terry Devine, CRCPD
	§1.2.2	643	"Quarter" means a	=	"Quarter" means a	=§A.2	"Quarter" means a	A definition of					
			period of time equal to		period of time equal to		period of time equal to	"quarter" is					
			one-fourth of the year		one-fourth of the year		one-fourth of the year	added in 2008					
			observed by the		observed by the		observed by the	Part A.					
			licensee, approximately		licensee, approximately		licensee, approximately						
			13 consecutive weeks,		13 consecutive weeks,		13 consecutive weeks,						
			providing that the		providing that the		providing that the						
			beginning of the first		beginning of the first		beginning of the first						
			quarter in a year		quarter in a year		quarter in a year						
			coincides with the		coincides with the		coincides with the						
			starting date of the year		starting date of the year		starting date of the year						
			and that no day of the		and that no day of the		and that no day is						
			year is omitted or		year is omitted or		omitted or duplicated in						
			duplicated in		duplicated in		consecutive quarters.						
			consecutive quarters.		consecutive quarters								
			See also "year".		(see also "calendar								
					quarter" and "year").								
335													
	§1.2.2	647	"Rad" means the special	=	"Rad" means the special	=8A 2	"Rad" means the special	=	"Rad" means the specia	1			
	3	011	unit of absorbed dose.		unit of absorbed dose.	3,	unit of absorbed dose.		unit of absorbed dose.				
			One rad is equal to an		One rad is equal to an		One rad is equal to an		One rad is equal to an				
			absorbed dose of 100		absorbed dose of 100		absorbed dose of 100		absorbed dose of 100				
			ergs per gram or 0.01		ergs per gram or 0.01		erg per gram or 0.01		erg per gram or 0.01				
			joule per kilogram (0.01		joule per kilogram (0.01		joule per kilogram (0.01		joule per kilogram (0.01				
			gray).		gray).		gray).		gray).				
336													
220													

	Α	В	С	D	E	F	G	H			J	K	L	М
	CCR §	Line	2010-07-01 CCR	Note	2007-08-30 CCR	SSR §	2008-06 SSR draft	SSR Part A	2008-01-04	SSRCR	Cat	RATS	01-01-2009 CFR	2007-12-14 10 CFR
1			effective					changes						
	Part 1		Adopted 10/21/2009,	2010-07-01 vs.	Adopted 07/18/2007,	Part A	As of 11-25-2009, no	2003-03 v.	Per concord	ance by				Per concordance by
2	Section			prior language	effective 08/30/2007	Section	action on 2008 draft	2008-06	Terry Devine	e, CRCPD				Terry Devine, CRCPD
	§1.2.2	649	"Radiation" means alpha	=	Radiation means alpha	=§A.2	"Radiation" means alpha	=	"Radiation"	means alpha				
			particles, beta particles,		particles, beta particles,		particles, beta particles,		particles, be	ta particles,				
			gamma rays, X rays,		gamma rays, X rays,		gamma rays, x rays,		gamma rays	s, x rays,				
			neutrons, high-speed		neutrons, high-speed		neutrons, high-speed		neutrons, hi	gh-speed				
			electrons, high-speed		electrons, high-speed		electrons, high-speed		electrons, hi	gh-speed				
			protons, and other		protons, and other		protons, and other		protons, and	l other				
			particles capable of		particles capable of		particles capable of		particles cap	bable of				
			producing ions. For		producing ions. For		producing ions. For		producing ic					
			purposes of these		purposes of these		purposes of these		purposes of					
			regulations, ionizing		regulations, ionizing		regulations, ionizing		regulations,					
			radiation is an equivalent		radiation is an equivalent		radiation is an equivalent			an equivalent	t			
			term. Radiation, as used		term. Radiation, as used		term. Radiation, as		term. Radia					
			in these regulations,		in these regulations,		used in these		used in thes					
			does not include non-		does not include non-		regulations, does not		regulations,					
			ionizing radiation, such		ionizing radiation, such		include non-ionizing		include non-	•				
			as radiowaves or		as radiowaves or		radiation, such as		radiation, su					
			microwaves, visible,		microwaves, visible,		radiowaves or		radiowaves					
			infrared, or ultraviolet		infrared, or ultraviolet		microwaves, visible,		microwaves					
			light.		light.		infrared, or ultraviolet		infrared, or u	ultraviolet				
							light.		light.					
337	,													
	§1.2.2	654	"Radiation area" means	=	"Radiation area" means	=§A.2	"Radiation area" means	=	"Radiation a	rea" means				
			any area, accessible to		any area, accessible to		any area, accessible to		any area, ao					
			individuals, in which		individuals, in which		individuals, in which		individuals,					
			radiation levels could		radiation levels could		radiation levels could		radiation lev					
			result in an individual		result in an individual		result in an individual		result in an i					
			receiving a dose		receiving a dose		receiving a dose		receiving a					
			equivalent in excess of		equivalent in excess of		equivalent in excess of		equivalent in					
			0.05 mSv (0.005 rem) in		0.05 mSv (0.005 rem) in		0.05 mSv (0.005 rem) in		0.05 mSv (0					
			1 hour at 30 centimeters		1 hour at 30 centimeters		1 hour at 30 centimeters			centimeters				
			from the source of		from the source of		from the source of		from the sou					
			radiation or from any		radiation or from any		radiation or from any		radiation or	,				
			surface that the radiation		surface that the radiation		surface that the radiation			the radiation				
1			penetrates.		penetrates.		penetrates.		penetrates.					
338	3													
F	§1.2.2	657	"Radiation detector"	A definition of		≠§A.2								
	3		means a device that in	"radiation										
1			the presence of radiation											
			provides a signal or	added.										
1			other indication suitable											
1			for use in measuring one											
1			or more quantities of											
			incident radiation.											
	l													
339)													

	A	В	С	D	E	F	G	Н		I	J	К	L	М
1	CCR §	Line	2010-07-01 CCR effective	Note	2007-08-30 CCR	SSR §	2008-06 SSR draft	SSR Part A changes	2008-01-04	SSRCR	Cat	RATS	01-01-2009 CFR	2007-12-14 10 CFR
2	Part 1 Section		Adopted 10/21/2009, effective 07/01/2010	2010-07-01 vs. prior language	Adopted 07/18/2007, effective 08/30/2007	Part A Section	As of 11-25-2009, no action on 2008 draft	2003-03 v. 2008-06	Per concord Terry Devine					Per concordance by Terry Devine, CRCPD
340						Page A12								
341	§1.2.2	659	Radiation dose. See "dose".	The cross- reference for "radiation dose" is reformatted by removing the parentheses.	Radiation dose (see "dose").	~§A.2	"Radiation dose" [See "Dose"].	=	Radiation do "Dose"].	ose [See				
342	§1.2.2	660	"Radiation machine" means any device capable of producing radiation except those devices with radioactive material as the only source of radiation.	=	"Radiation machine" means any device capable of producing radiation except those devices with radioactive material as the only source of radiation.	=§A.2	"Radiation machine" means any device capable of producing radiation except, those devices with radioactive material as the only source of radiation.	=	"Radiation m means any o capable of p radiation exo devices with material as t source of rad	device roducing cept those radioactive he only				
	§1.2.2	662	"Radiation safety officer" (RSO) means an individual who has demonstrated sufficient knowledge to apply radiation protection regulations appropriately and who has been assigned such responsibility by the licensee or registrant.		"Radiation safety officer" (RSO) means an individual who has demonstrated sufficient knowledge to apply radiation protection regulations appropriately and who has been assigned such responsibility by the licensee or registrant.	=§A.2	"Radiation safety officer" means an individual who has the knowledge and responsibility to apply appropriate radiation protection regulations and has been assigned such responsibility by the licensee or registrant.		"Radiation s means an in has the know responsibility appropriate protection re and has bee such respon the licensee registrant.	wledge and y to apply radiation gulations n assigned sibility by				
343														
	§1.2.2	665	"Radioactive material" means any solid, liquid, or gas which emits radiation spontaneously.	=	"Radioactive material" means any solid, liquid, or gas which emits radiation spontaneously.	=§A.2	"Radioactive material" means any solid, liquid, or gas, which emits radiation spontaneously.	=	"Radioactive means any s or gas which radiation spo	solid, liquid, 1 emits				
344		000			IID - dia - di itali - e - e -									
345	§1.2.2		"Radioactivity" means the transformation of unstable atomic nuclei by the emission of radiation.	=	"Radioactivity" means the transformation of unstable atomic nuclei by the emission of radiation.	=§A.2	"Radioactivity" means the transformation of unstable atomic nuclei by the emission of radiation.	=	"Radioactivit the transforr unstable ato by the emiss radiation.	nation of mic nuclei				
346	§1.2.2	667	"Radiobioassay." See "bioassay".	The cross- reference for "radiobioassay" is reformatted by removing the parentheses.	"Radiobioassay" (see "bioassay").	~§A.2	"Radiobioassay" [See "Bioassay"].	=	Radiobioass "Bioassay"].					

	A	В	С	D	E	F	G	Н	I	J	K	L	М
	CCR §	Line 2	2010-07-01 CCR	Note	2007-08-30 CCR	SSR §	2008-06 SSR draft	SSR Part A	2008-01-04 SSRCR	Cat	RATS	01-01-2009 CFR	2007-12-14 10 CFR
1		e	effective					changes					
	Part 1	A	Adopted 10/21/2009,	2010-07-01 vs.	Adopted 07/18/2007,	Part A	As of 11-25-2009, no	2003-03 v.	Per concordance by				Per concordance by
2	Section	e	effective 07/01/2010	prior language	effective 08/30/2007	Section	action on 2008 draft	2008-06	Terry Devine, CRCPD				Terry Devine, CRCPD
	§1.2.2	668 "	Reference man" means		"Reference man" means	≠§A.2							
	-	a	a hypothetical		a hypothetical								
			aggregation of human		aggregation of human								
			physical and		physical and								
			physiological		physiological								
			characteristics		characteristics								
			determined by		determined by								
			nternational consensus.		international consensus.								
			These characteristics		These characteristics								
			may be used by		may be used by								
			esearchers and public		researchers and public								
			nealth workers to		health workers to								
		-	standardize results of		standardize results of								
			experiments and to		experiments and to								
			elate biological insult to a common base. A		relate biological insult to a common base. A								
			description of the		description of the								
			reference man is		reference man is								
			contained in		contained in								
			nternational		International								
			Commission On		Commission On								
			Radiological Protection		Radiological Protection								
			ICRP) Publication 23,		(ICRP) Publication 23,								
			Report Of The Task		"Report Of The Task								
			Group On Reference		Group On Reference								
		Ν	Man," 1975.		Man," 1975.								
347	,												
		673		Consider whether									
1				a newer reference									
1				is available for the									
				definition of									
				"reference man".									
1				Woman? Child?									
348													
040	'												

	Α	В	С	D	E	F	G	Н		J	K	L	М
1	CCR §	Line	2010-07-01 CCR effective	Note	2007-08-30 CCR	SSR §	2008-06 SSR draft	SSR Part A changes	2008-01-04 SSRCR	Cat	RATS	01-01-2009 CFR	2007-12-14 10 CFR
	Part 1 Section		Adopted 10/21/2009, effective 07/01/2010	2010-07-01 vs. prior language	Adopted 07/18/2007, effective 08/30/2007	Part A Section	As of 11-25-2009, no action on 2008 draft	2003-03 v. 2008-06	Per concordance by Terry Devine, CRCPD				Per concordance by Terry Devine, CRCPD
	§1.2.2	674	"Registered medical physicist" (RMP) means an individual who has current Department approval to perform medical physics activities in a designated specialty, including to conduct surveys and oversee radiation protection and quality assurance at computed tomography, mammography and other medical facilities.	A generic definition of "Registered Medical Physicist" is added in Part 1 because it is used in both Part 2 and Part 6.		≠§A.2							
349													
350	§1.2.2	677	"Registrant" means any person who is registered with the Department and is legally obligated to register with the Department pursuant to these regulations and the Act.	=	"Registrant" means any person who is registered with the Department and is legally obligated to register with the Department pursuant to these regulations and the Act.	~§A.2	"Registrant" means any person who is registered with the Agency and is legally obligated to register with the Agency pursuant to these regulations and the Act.		"Registrant" means any person who is registered with the Agency and is legally obligated to register with the Agency pursuant to these regulations and the Act.				
351	§1.2.2	679	"Registration" means registration with the Department in accordance with the regulations adopted by the Department.	=	"Registration" means registration with the Department in accordance with the regulations adopted by the Department.	~§A.2	"Registration" means registration with the Agency in accordance with the regulations adopted by the Agency.	=	"Registration" means registration with the Agency in accordance with the regulations adopted by the Agency.				
	§1.2.2	681	"Regulations of the DOT" means the regulations in 49 CFR Parts 100-189 and Parts 390-397 (October 1, 2008).	of Part 1 will take effect later in	Regulations of the DOT means the regulations in 49 CFR Parts 100-189 and Parts 390-397 (October 1, 2006).	~§A.1	"Regulations of the Department of Transportation" means the regulations in 49 CFR Parts 100-189.	=	"Regulations of the Department of Transportation" means the regulations in 49 CFR Parts 100-189.				
352		Page											
353		Page 1-20											

	A	В	С	D	E	F	G	Н	I	J	K			М
1	CCR §		2010-07-01 CCR effective	Note	2007-08-30 CCR	SSR §	2008-06 SSR draft	SSR Part A changes	2008-01-04 SSRCR	Cat	RATS	01-01-2009	CFR	2007-12-14 10 CFR
	Part 1		Adopted 10/21/2009,	2010-07-01 vs.	Adopted 07/18/2007,	Part A	As of 11-25-2009, no	2003-03 v.	Per concordance by					Per concordance by
2	Section		effective 07/01/2010	prior language		Section	action on 2008 draft	2008-06	Terry Devine, CRCPD					Terry Devine, CRCPD
	§1.2.2	683	"Regulations of the	This revision of	"Regulations of the	~§A.1								
			NRC" means the	Part 1 will take	NRC" means the									
			regulations in 10 CFR	effect after an	regulations in 10 CFR									
			Parts 1-50 and Parts 51-		Parts 1-50 and Parts 51-									
			199 (January 1, 2009).	is published January 1, 2009.	199 (January 1, 2007).									
				Colorado law										
				requires a set										
354				date.										
	§1.2.2	695	"Relocation" means the		"Relocation" means the	464.0								
	§1.2.2		removal or, after a		removal or, after a	≠9A.Z								
			plume has passed.		plume has passed,									
			continued exclusion of		continued exclusion of									
			people from		people from									
			contaminated areas to		contaminated areas to									
			avoid chronic radiation		avoid chronic radiation									
355			dose.		dose.									
		685		Regarding the										
				definition of										
				"relocation, the										
				question was										
				asked whether someone could be										
				subject to										
				"relocation" for										
				acute radiation										
356				dose.										
	ł	Page												
357		1-19												
	§1.2.2	687	"Rem" means the		"Rem" means the	=§A.2	"Rem" means the	=	"Rem" means the					
	-		special unit of any of the		special unit of any of the	-	special unit of any of the		special unit of any of the					
			quantities expressed as		quantities expressed as		quantities expressed as		quantities expressed as					
			dose equivalent. The		dose equivalent. The		dose equivalent. The	_	dose equivalent. The					
			dose equivalent in rem is		dose equivalent in rem is		dose equivalent in rem i	s	dose equivalent in rem is					
			equal to the absorbed dose in rad multiplied by		equal to the absorbed dose in rad multiplied by		equal to the absorbed dose in rad multiplied by	,	equal to the absorbed dose in rad multiplied by					
			the quality factor (1 rem		the quality factor (1 rem		the quality factor. (1 rem		the quality factor. (1 rem					
			= 0.01 sievert).		= 0.01 sievert).		= 0.01 Sv).	1	= 0.01 Sv).					
358														

	Α	В	С	D	E	F	G	Н	I	J	K	L	М
1	CCR §	Line	2010-07-01 CCR effective	Note	2007-08-30 CCR	SSR §	2008-06 SSR draft	SSR Part A changes	2008-01-04 SSRCR	Cat	RATS	01-01-2009 CFR	2007-12-14 10 CFR
2	Part 1 Section		-	2010-07-01 vs. prior language	•	Part A Section	As of 11-25-2009, no action on 2008 draft	2003-03 v. 2008-06	Per concordance by Terry Devine, CRCPD				Per concordance by Terry Devine, CRCPD
250	§1.2.2	690	"Reportable medical event" means an event that results in a dose or dosage administered to the wrong individual, or by the wrong mode of radiation delivery, or that differs from the prescribed dose or dosage, as stated in 2.6.3, 7.21, 20.6, or an equivalent section of these regulations. "Misadministration" is an equivalent term.	A definition of "reportable medical event" is added.		≠§A.2							
359	§1.2.2	694	"Research and development" means (1) theoretical analysis, exploration, or experimentation or (2) the extension of investigative findings and theories of a scientific or technical nature into practical application for experimental and demonstration purposes, including the experimental production and testing of models, devices, equipment, materials, and processes. Research and development does not include the internal or external administration of radiation or radioactive material to human beings.		"Research and development" means (1) theoretical analysis, exploration, or experimentation or (2) the extension of investigative findings and theories of a scientific or technical nature into practical application for experimental and demonstration purposes, including the experimental production and testing of models, devices, equipment, materials, and processes. Research and development does not include the internal or external administration of radiation or radioactive material to human beings.	=§A.2	"Research and development" means (1) theoretical analysis, exploration, or experimentation; or (2) the extension of investigative findings and theories of a scientific or technical nature into practical application for experimental and demonstration purposes, including the experimental production and testing of models, devices, equipment, materials, and processes. Research and development does not include the internal or external administration of radiation or radioactive material to human beings.		"Research and development" means (1) theoretical analysis, exploration, or experimentation; or (2) the extension of investigative findings and theories of a scientific or technical nature into practical application for experimental and demonstration purposes, including the experimental production and testing of models, devices, equipment, materials, and processes. Research and development does not include the internal or external administration of radiation or radioactive material to human beings.				

	А	В	С	D	E	F	G	Н	1		J	K	L	М
	CCR §		2010-07-01 CCR	Note		SSR §	2008-06 SSR draft	SSR Part A	2008-01-04 SS	RCR	Cat	RATS	01-01-2009 CFR	2007-12-14 10 CFR
1			effective			J		changes		-		_		
	Part 1		Adopted 10/21/2009,	2010-07-01 vs.	Adopted 07/18/2007,	Part A	As of 11-25-2009, no	2003-03 v.	Per concordance	ce by				Per concordance by
2	Section		effective 07/01/2010	prior language		Section	action on 2008 draft	2008-06	Terry Devine, C					Terry Devine, CRCPD
	§1.2.2	700	"Residual radioactivity"	=	"Residual radioactivity"	≠§A.2	"Residual radioactivity"	=	"Residual radio					
	Ũ		means radioactivity in		means radioactivity in	Ũ	means radioactivity in		means radioact	-				
			structures, materiel,		structures, materiel,		structures, materials,		structures, mate					
			soils, groundwater, and		soils, groundwater, and		soils, groundwater, and		soils, groundwa					
			other media at a site		other media at a site		other media at a site		other media at a					
			resulting from activities		resulting from activities		resulting from activities		resulting from a	activities				
			under the licensee's		under the licensee's		under the licensee's		under the licens	see's				
			control. This includes		control. This includes		control. This includes		control. This inc	cludes				
			radioactivity from all		radioactivity from all		radioactivity from all		radioactivity from	om all				
			licensed and unlicensed		licensed and unlicensed		licensed and unlicensed		licensed and un					
			sources used by the		sources used by the		sources used by the		sources used by	-				
			licensee, but excludes		licensee, but excludes		licensee, but excludes		licensee, but ex					
			background radiation. It		background radiation. It		background radiation. It		background rad					
			also includes radioactive		also includes radioactive		also includes radioactive		also includes ra					
			materials remaining at		materials remaining at		materials remaining at		materials remai					
			the site as a result of		the site as a result of		the site as a result of		the site as a res					
			routine or accidental		routine or accidental		routine or accidental		routine or accid					
			releases of radioactive		releases of radioactive		releases of radioactive		releases of radi					
			material at the site and		material at the site and		materials at the site and		materials at the					
			previous burials at the		previous burials at the		previous burials at the		previous burials					
			site, even if those burials		site, even if those burials		site, even if those burials		site, even if those	se buriais				
			were made in		were made in		were made in		were made in					
			accordance with the		accordance with the		accordance with the provisions of Part D of		accordance with provisions of Pa					
			provisions of Part 4.		provisions of Part 4.				•					
							these regulations.		these regulation	115.				
361														
501	4	700		The DOE-NRC										
		700		definition of										
1				"residual										
				radioactivity" is										
				awkward and										
1				could be										
000				improved.										
362			"Descinations of the		IID	(0.4.0								
	§1.2.2		"Respiratory protective	=	"Respiratory protective	≠§A.2								
			equipment" means an		equipment" means an									
			apparatus, such as a		apparatus, such as a									
			respirator, used to		respirator, used to									
			reduce an individual's		reduce an individual's									
			intake of airborne		intake of airborne									
1			radioactive materials.		radioactive materials.									
363														

	A	В	C	D	E	F	G	Н			J	K	L	M
	CCR §	Line	2010-07-01 CCR	Note	2007-08-30 CCR	SSR §	2008-06 SSR draft	SSR Part A	2008-01-04	SSRCR	Cat	RATS	01-01-2009 CFR	2007-12-14 10 CFR
1			effective					changes						
~	Part 1		Adopted 10/21/2009,	2010-07-01 vs.	Adopted 07/18/2007,	Part A	As of 11-25-2009, no	2003-03 v.	Per concorda					Per concordance by
	Section		effective 07/01/2010	prior language	effective 08/30/2007	Section	action on 2008 draft	2008-06	Terry Devine					Terry Devine, CRCPD
	§1.2.2	708	"Restricted area" means		"Restricted area" means	•	"Restricted area" means		"Restricted a					
			an area, access to which		an area, access to whic		an area, access to which		an area, acc					
			is limited by the licensee or registrant for the		is limited by the licensed or registrant for the	e	is limited by the licensee or registrant for the		is limited by					
			purpose of protecting		purpose of protecting		purpose of protecting		or registrant purpose of p					
			individuals against		individuals against		individuals against		individuals a	•				
			undue risks from		undue risks from		undue risks from		undue risks					
			exposure to sources of		exposure to sources of		exposure to sources of		exposure to					
			radiation. Restricted		radiation. Restricted		radiation. Restricted		radiation. Re	stricted				
			area does not include		area does not include		area does not include		area does no	ot include				
			areas used as		areas used as		areas used as		areas used a	as				
			residential quarters, but		residential quarters, but	t	residential quarters, but		residential q					
			separate rooms in a		separate rooms in a		separate rooms in a		separate roo					
			residential building may		residential building may	'	residential building may		residential b					
			be set apart as a restricted area.		be set apart as a restricted area.		be set apart as a restricted area.		be set apart restricted are					
864														
		708	6	Regarding										
				"restricted area",										
				could there be a										
				situation in which										
				the "licensee" still										
				controls, either with or without an										
				active license, i.e.										
				after termination?										
				If so, does it										
				matter?										
.				1										
65						-								
865 866						Page A13								

	A	В	С	D	E	F	G	Н		I	J	K	L	М
1	CCR §		2010-07-01 CCR effective	Note	2007-08-30 CCR	SSR §	2008-06 SSR draft	SSR Part A changes	2008-01-04	SSRCR	Cat	RATS	01-01-2009 CFR	2007-12-14 10 CFR
2	Part 1 Section §1.2.2	712	Adopted 10/21/2009, effective 07/01/2010 "Restricted use" means that a limit or control has been placed on future use of the facility and the facility is no longer under the control of the licensee, registrant, of holder of the record of possession. See also "unrestricted use".	modified slightly.	Adopted 07/18/2007, effective 08/30/2007 "Restricted use" means that a limit or control has been placed on future use of the facility and the facility is no longer under the control of the licensee, registrant, of holder of the record of possession (see also "unrestricted use").	•	As of 11-25-2009, no action on 2008 draft "Restricted use" means that a limit or control has been placed on future use of the facility and the facility is no longer under the control of the licensee, registrant, of holder of the record of possession.	is added in 2008 Part A.	Per concord Terry Devine					Per concordance by Terry Devine, CRCPD
367	§1.2.2		"Roentgen" means the special unit of exposure. One roentgen (R) equals 2.58×10 -4 coulombs/kilogram of air (see "exposure").	=	"Roentgen" means the special unit of exposure. One roentgen (R) equals 2.58×10 -4 coulombs/kilogram of air (see "exposure").	~§A.1	"Roentgen" means the special unit of exposure. One roentgen (R) equals 2.58E-4 coulombs per kilogram of air (see "Exposure" and A.13).	=	"Roentgen" special unit One roentge 2.58E-4 cou kilogram of "Exposure"	of exposure. en (R) equals lombs per air (see				
368	§1.2.2		"Sanitary sewerage" means a system of public sewers for carrying off waste water and refuse, but excluding sewage treatment facilities, septic tanks, and leach fields owned or operated by the licensee or registrant.	=	"Sanitary sewerage" means a system of public sewers for carrying off waste water and refuse, but excluding sewage treatment facilities, septic tanks, and leach fields owned or operated by the licensee or registrant.	≠§A.2								
370	§1.2.2		"Sealed source" means any radioactive material that is encased in a capsule designed to prevent leakage or escape of the radioactive material.	In part because of source security considerations, the revised definition from 2008 Part A replaces the more techical definition of "sealed source".	"Sealed source" means radioactive material that is permanently bonded or fixed in a capsule or matrix designed to prevent release and dispersal of the radioactive material under the most severe conditions which are likely to be encountered in normal use and handling.	~§A.2	"Sealed source" means any radioactive material that is encased in a capsule designed to prevent leakage or escape of the radioactive material.	The definition of "sealed source" is modified in 2008 Part A.	"Sealed sou any container radioactive in which has b constructed manner as t the escape of radioactive in	er of material, een in such a o prevent of any				

	Α	В	С	D	E	F	G	Н			J	K	L	М
	CCR §	Line	2010-07-01 CCR	Note	2007-08-30 CCR	SSR §	2008-06 SSR draft	SSR Part A	2008-01-04	SSRCR	Cat	RATS	01-01-2009 CFR	2007-12-14 10 CFR
1			effective					changes						
2	Part 1 Section		Adopted 10/21/2009, effective 07/01/2010	2010-07-01 vs. prior language	Adopted 07/18/2007, effective 08/30/2007	Part A Section	As of 11-25-2009, no action on 2008 draft	2003-03 v. 2008-06	Per concord Terry Devine					Per concordance by Terry Devine, CRCPD
	§1.2.2	722	"Sealed source and	=	"Sealed source and	~§A.2	"Sealed Source and	=	"Sealed Sou					Terry Devine, CRCPD
	31.2.2	122	device registry" (SSD)		device registry" (SSD)	37.2	Device Registry (SSD)"		Device Regi					
			means the national		means the national		means the national		means the r	national				
			registry, maintained by		registry, maintained by		registry that contains the			contains the				
			the NRC, which contains the registration		the NRC, which contains the registration		registration certificates, maintained by the		registration maintained	-				
			certificates that		certificates that		Nuclear Regulatory		Nuclear Rec	,				
			summarize the radiation		summarize the radiation		Commission (NRC), that		-	n (NRC), that				
			safety information for		safety information for		summarize the radiation			the radiation				
			sealed sources and devices and describe the		sealed sources and devices and devices and describe the		safety information for		safety inform					
			licensing and use		licensing and use		sealed sources and devices, and describe		sealed sour					
			conditions approved for		conditions approved for		the licensing and use		the licensing					
			the product.		the product.		conditions approved for		conditions a					
							the product.		the product.					
371														
070		Page												
372	§1.2.2	1-21	"Self-contained	=	"Self-contained	=§A.2	"Self-contained	=	"Self-contair	and				
	§1.2.2	720	breathing apparatus"	-	breathing apparatus"	-9A.2	breathing apparatus	-	breathing ap					
			(SCBA) means an		(SCBA) means an		(SCBA)" means an		(SCBA)" me	•				
			atmosphere-supplying		atmosphere-supplying		atmosphere-supplying		atmosphere					
			respirator for which the		respirator for which the		respirator for which the		respirator fo					
			breathing air source is designed to be carried		breathing air source is designed to be carried		breathing air source is designed to be carried		breathing ai designed to					
			by the user.		by the user.		by the user.		by the user.					
373														
	§1.2.2	728	"Shallow dose	=	"Shallow dose	~§A.2	"Shallow dose	The definition	"Shallow do	se				
	-		equivalent" (H _s), which		equivalent" (H _s), which		equivalent" (Hs), which	is edited	equivalent (
			applies to the external		applies to the external		applies to the external	slightly in 2008						
			exposure of the skin of the whole body or the		exposure of the skin of the whole body or the		exposure of the skin of the whole body or the	Part A.	exposure of	the skin or				
			skin of an extremity,		skin of an extremity,		skin of an extremity, is		dose equiva	-				
			means the dose		means the dose		taken as the dose		tissue depth					
			equivalent at a tissue		equivalent at a tissue		equivalent at a tissue		centimeter (
			depth of 0.007		depth of 0.007		depth of 0.007		averaged ov					
			centimeter (7 mg/cm2).		centimeter (7 mg/cm2).		centimeter (7 mg/cm2).		of 1 square	centimeter.				
374														

	A	В	С	D	E	F	G	Н			J	K	L	М
1	CCR §		2010-07-01 CCR effective	Note	2007-08-30 CCR	SSR §	2008-06 SSR draft	SSR Part A changes	2008-01-04	SSRCR	Cat	RATS	01-01-2009 CFR	2007-12-14 10 CFR
2	Part 1 Section		Adopted 10/21/2009, effective 07/01/2010			Part A Section	As of 11-25-2009, no action on 2008 draft	2003-03 v. 2008-06	Per concord Terry Devine					Per concordance by Terry Devine, CRCPD
375	§1.2.2		"Sheltering" means the use of a structure for radiation protection from an airborne plume containing radioactive material.	=	"Sheltering" means the use of a structure for radiation protection from an airborne plume containing radioactive material.	≠§A.2								
376	§1.2.2		"SI" means the abbreviation for the international system of units.	~	"SI" means the abbreviation for the International System of Units.	=§A.2	"SI" means the abbreviation for the International System of Units.	=	"SI" means t abbreviation International Units.	for the				
	§1.2.2		"Sievert" means the SI unit of any of the quantities expressed as dose equivalent. The dose equivalent in sievert is equal to the absorbed dose in gray multiplied by the quality factor. (1 Sv = 100 rem)	=	"Sievert" means the SI unit of any of the quantities expressed as dose equivalent. The dose equivalent in sievert is equal to the absorbed dose in gray multiplied by the quality factor. (1 Sv = 100 rem)	=§A.2	"Sievert" means the SI unit of any of the quantities expressed as dose equivalent. The dose equivalent in sievert is equal to the absorbed dose in gray multiplied by the quality factor. (1 Sv = 100 rem)	~	"Sievert" me unit of any o quantities ex dose equiva dose equiva sievert is eq absorbed do multiplied by factor. (1 Sv	f the cpressed as lent. The lent in ual to the use in gray the quality				
377														
378	§1.2.2		"Site" means the area within the boundary of a location under the control of a person using or storing radioactive material or at which a source of radiation is located.	the site of a	"Site" means the area within the boundary of a location under the control of persons generating or storing radioactive materials.	~§A.2	"Site" means the physical area within the site boundary, including the area upon which the licensee conducts activities and any restricted area. The site boundary is that line beyond which the land or property is not owned, leased, or otherwise controlled by the licensee.							
378	§1.2.2		"Site boundary" means that line beyond which the land or property is not owned, leased, or otherwise controlled by the licensee, registrant or person who controls a site.	"site boundary" is improved slightly.	"Site boundary" means that line beyond which the land or property is not owned, leased, or otherwise controlled by the licensee or registrant.	≠§A.2								

	Α	В	С	D	E	F	G	Н			J	K	L	М
	CCR §	Line	2010-07-01 CCR	Note	2007-08-30 CCR	SSR §	2008-06 SSR draft	SSR Part A	2008-01-04	SSRCR	Cat	RATS	01-01-2009 CFR	2007-12-14 10 CFR
1			effective					changes						
2	Part 1 Section		Adopted 10/21/2009, effective 07/01/2010	2010-07-01 vs. prior language	Adopted 07/18/2007, effective 08/30/2007	Part A Section	As of 11-25-2009, no action on 2008 draft	2003-03 v. 2008-06	Per concord Terry Devine					Per concordance by Terry Devine, CRCPD
	§1.2.2	741	"Site area emergency"	=	"Site area emergency"	≠§A.2		2000-00	Terry Devine					Terry Devine, ONOLD
	3		means an event may		means an event may	. 3								
			occur, is in progress, or		occur, is in progress, or									
			has occurred that could		has occurred that could									
			lead to a significant release of radioactive		lead to a significant release of radioactive									
			material and that could		material and that could									
			require a response by		require a response by									
			offsite response		offsite response									
			organizations to protect persons offsite.		organizations to protect persons offsite.									
					persons onsite.									
0.00														
380	§1.2.2	744	Source material" means		"Source material" means	~§A.2	"Source material"	=	Source mate	arial means:				
	81.2.2	/ 4-	material, in any physical	-	material, in any physical	34.2	means:	-						
			or chemical form,		or chemical form,									
			including ores, that		including ores, that									
			contain by weight one- twentieth of 1 percent		contain by weight one- twentieth of 1 percent									
			(0.05 percent) or more of		(0.05 percent) or more of									
			uranium, thorium or any		uranium, thorium or any									
			combination thereof.		combination thereof.									
			Source material does		Source material does									
			not include special nuclear material.		not include special nuclear material.									
					nacical matchai.									
381		7.00				64.0	(4) Line minung and the arts		(4)					
	§1.2.2	746				~§A.2	(1) Uranium or thorium, or any combination	=	(1) Uranium or any comb					
							thereof, in any physical		thereof, in a					
							or chemical form; or		or chemical					
382														
	§1.2.2	746	j			~§A.2	(2) Ores that contain by		(2) Ores tha					
							weight one-twentieth of 1 percent (0.05 percent) or			wentieth of 1 5 percent) or				
							more of uranium,		more of urar					
							thorium or any		thorium or a					
							combination of uranium		combination	of uranium				
							and thorium. Source		and thorium					
							material does not include special nuclear		material doe include spec					
							material.		material.	al nucleal				
383	5													

	Α	В	С	D	E	F	G	H			J	K	L	М
	CCR §	Line	2010-07-01 CCR	Note	2007-08-30 CCR	SSR §	2008-06 SSR draft	SSR Part A	2008-01-04	SSRCR	Cat	RATS	01-01-2009 CFR	2007-12-14 10 CFR
1			effective					changes						
2	Part 1		Adopted 10/21/2009, effective 07/01/2010	2010-07-01 vs.		Part A	As of 11-25-2009, no action on 2008 draft	2003-03 v. 2008-06	Per concord					Per concordance by
	Section §1.2.2		"Source material milling"	prior language The definition of	effective 08/30/2007 "Source material milling"	Section ~§A.2	"Source material milling"		Terry Devine	terial milling				Terry Devine, CRCPD
	81.2.2		means any activity that	"source material	means any activity that	~gA.z	means any activity that	-	means any a					
			results in the production	milling" is edited	results in the production		results in the production		results in the					
			of radioactive material	slightly.	of byproduct material as		of byproduct material as		of byproduct					
			that meets byproduct		defined by definition (2)		defined by definition (2)		defined by d					
			material definition (2).		of byproduct material.		of byproduct material.		of byproduct	t material.				
384														
	§1.2.2	749	"Source of radiation"	=	"Source of radiation"	=§A.2	"Source of radiation"	=	"Source of ra	adiation"				
	-		means any radioactive		means any radioactive	-	means any radioactive		means any r	radioactive				
			material or any device or		material or any device or		material or any device or			any device or				
			equipment emitting, or		equipment emitting, or		equipment emitting, or		equipment e					
			capable of producing, radiation.		capable of producing, radiation.		capable of producing, radiation.		capable of p radiation.	roaucing,				
385						Baga			radiation.					
386						Page A14								
	§1.2.2	750					"Source traceability"	=	"Source trac	eability"				
							means the ability to		means the a					
							show that a radioactive		show that a					
							source has been calibrated either by the		source has to calibrated ei					
							national standards		national star					
							laboratory of the		laboratory of					
							National Institute of		National Inst					
							Standards and		Standards a					
							Technology, or by a		Technology,					
							laboratory which participates in a		laboratory w participates					
							continuing measurement		continuing m					
							quality assurance		quality assu		-			
							program with National		program with					
							Institute of Standards		Institute of S					
							and Technology or other		and Technol	•••				
							equivalent national or international program.		equivalent n international					
										3				
387	64.0.0	754			"On a sight forma we die "	64.0			llou a sial f					
	§1.2.2		"Special form radioactive material" means	-	"Special form radioactive material" means	=9A.2	"Special form radioactive material" means		"Special forr material" me	n radioactive	*			
			radioactive material that		radioactive material that		radioactive material that		radioactive r					
			satisfies the following		satisfies the following		satisfies the following		satisfies the					
			conditions:		conditions:		conditions:		conditions:	Ŭ				
388														

	A	В	С	D	E	F	G	Н		I	J	K	L	М
1	CCR §	Line	2010-07-01 CCR effective	Note	2007-08-30 CCR	SSR §	2008-06 SSR draft	SSR Part A changes	2008-01-04	SSRCR	Cat	RATS	01-01-2009 CFR	2007-12-14 10 CFR
2	Part 1 Section		effective 07/01/2010	2010-07-01 vs. prior language	Adopted 07/18/2007, effective 08/30/2007	Part A Section	As of 11-25-2009, no action on 2008 draft	2003-03 v. 2008-06	Per concord Terry Devin	e, CRCPD				Per concordance by Terry Devine, CRCPD
200	§1.2.2		 It is either a single solid piece or is contained in a sealed capsule that can be opened only by destroying the capsule; 	=	 It is either a single solid piece or is contained in a sealed capsule that can be opened only by destroying the capsule; 	=§A.2	 It is either a single solid piece or is contained in a sealed capsule that can be opened only by destroying the capsule; 	=	(1) It is either solid piece of contained in capsule that opened only destroying t	or is a sealed t can be y by				
389	§1.2.2	755	(2) The piece or capsule	=	(2) The piece or capsule	=84.2	(2) The piece or capsule	. =	(2) The niec	e or capsule				
390			has at least one dimension not less than 5 millimeters (0.2 inch); and	-	has at least one dimension not less than 5 millimeters (0.2 inch); and	-94.2	has at least one dimension not less than 5 millimeters (0.2 inch); and		has at least dimension r 5 millimeter and	one ot less than				
391	§1.2.2	757	(3) All test requirements specified by the NRC that are applicable and in effect at the time are met by the special form encapsulation design and/or construction.	The third criterion for "special form radioactive material" is simplified. The definition makes clear that all NRC test requirements apply but no longer includes dated particulars.	(3) It satisfies the test requirements specified by the NRC. A special form encapsulation designed in accordance with the NRC requirements in effect on June 30, 1983, and constructed prior to July 1, 1985, may continue to be used. A special form encapsulation designed in accordance with the NRC requirements in effect on March 31, 1996, and constructed prior to April 1, 1998, may continue to be used. A special form encapsulation either designed or constructed after April 1, 1998, must meet requirements of this definition applicable at the time of its design or construction.	=§A.2	(3) It satisfies the test requirements specified by the Nuclear Regulatory Commission. A special form encapsulation designed in accordance with the Nuclear Regulatory Commission requirements in effect on June 30, 1983, and constructed prior to July 1, 1985, may continue to be used. A special form encapsulation either designed or constructed after June 30, 1985, must meet requirements of this definition applicable at the time of its design or construction.		A special fo encapsulation in accordan Nuclear Reg Commission requirement June 30, 19 constructed 1, 1985, ma be used. A se encapsulation designed or after June 3	s specified ear Commission. rm on designed ce with the gulatory s in effect on 83, and prior to July y continue to special form on either constructed 0, 1985, requirements tion t the time of				
392		1-22												

	A	В	С	D	E	F	G	Н	I		I K	L	М
	CCR §	Line	2010-07-01 CCR	Note	2007-08-30 CCR	SSR §	2008-06 SSR draft	SSR Part A	2008-01-04 SSRCR	Cat	RATS	01-01-2009 CFR	2007-12-14 10 CFR
1			effective					changes					
	Part 1		Adopted 10/21/2009,	2010-07-01 vs.		Part A	As of 11-25-2009, no	2003-03 v.	Per concordance by				Per concordance by
2	Section		effective 07/01/2010	prior language		Section	action on 2008 draft	2008-06	Terry Devine, CRCPE)			Terry Devine, CRCPD
	§1.2.2	759	"Special nuclear	=	"Special nuclear	=§A.2	"Special nuclear	=	"Special nuclear				
393			material" means:		material" means:		material" means:		material" means:				
	§1.2.2	760	(1) Plutonium, uranium-	=	(1) Plutonium, uranium-	=§A.2	(1) Plutonium, uranium-		(1) Plutonium, uraniur				
			233, uranium enriched in		233, uranium enriched in		233, uranium enriched in		233, uranium enriche				
			the isotope 233 or in the		the isotope 233 or in the		the isotope 233 or in the		the isotope 233 or in t	he			
			isotope 235, and any		isotope 235, and any		isotope 235, and any		isotope 235, and any	-			
			other material that the		other material that the NRC, pursuant to the		other material that [the		other material that [th	e			
			NRC, pursuant to the provisions of Section 51		provisions of Section 51		Agency declares by order to be special		Agency declares by order to be special				
			of the Atomic Energy Act		of the Atomic Energy Act		nuclear material after]**/		nuclear material after	**/			
			of 1954, as amended,		of 1954, as amended,		the Nuclear Regulatory		the Nuclear Regulator				
			determines to be special		determines to be special		Commission, pursuant		Commission, pursuar	-			
			nuclear material, but		nuclear material, but		to the provisions of		to the provisions of				
			does not include source		does not include source		section 51 of the Atomic		section 51 of the Aton	nic			
			material; or		material; or		Energy Act of 1954, as		Energy Act of 1954, a	s			
							amended, determines to		amended, determines				
							be special nuclear		be special nuclear				
							material, but does not		material, but does not				
							include source material;		include source materi	al;			
							or		or				
394													
	§1.2.2	764	(2) Any material	=	(2) Any material	=§A.2	(2) Any material	=	(2) Any material				
			artificially enriched by		artificially enriched by		artificially enriched by		artificially enriched by				
			any of the foregoing but		any of the foregoing but		any of the foregoing but		any of the foregoing b				
			does not include source		does not include source		does not include source		does not include sour	ce			
395			material.		material.		material.		material.				
		Page											
396		1-22											

	A	В	С	D	E	F	G	Н		l	J	K	L	М
	CCR §		2010-07-01 CCR	Note	2007-08-30 CCR	SSR §	2008-06 SSR draft	SSR Part A	2008-01-04	SSRCR	Cat	RATS	01-01-2009 CFR	2007-12-14 10 CFR
1	-		effective			_		changes						
	Part 1		Adopted 10/21/2009,	2010-07-01 vs.	Adopted 07/18/2007,	Part A	As of 11-25-2009, no	2003-03 v.	Per concord	ance by				Per concordance by
2	Section		effective 07/01/2010	prior language	effective 08/30/2007	Section	action on 2008 draft	2008-06	Terry Devine	e, CRCPD				Terry Devine, CRCPD
	§1.2.2	766	"Special nuclear material	=	"Special nuclear material	=§A.2	"Special nuclear material	=	Special nucl	ear material				
			in quantities not		in quantities not		in quantities not		in quantities	not				
			sufficient to form a		sufficient to form a		sufficient to form a		sufficient to	form a				
			critical mass" means		critical mass" means		critical mass" means		critical mass					
			uranium enriched in the		uranium enriched in the		uranium enriched in the			iched in the				
			isotope 235U in		isotope 235U in		isotope U-235 in		isotope U-23					
			quantities not exceeding		quantities not exceeding		quantities not exceeding			ot exceeding				
			350 grams of contained		350 grams of contained		350 grams of contained		350 grams o					
			235U; 233U in quantities		235U; 233U in quantities		U-235; uranium-233 in		U-235; uran					
			not exceeding 200 grams; plutonium in		not exceeding 200		quantities not exceeding			ot exceeding				
			guantities not exceeding		grams; plutonium in quantities not exceeding		200 grams; plutonium in quantities not exceeding		200 grams;	ot exceeding				
			200 grams; or any		200 grams; or any		200 grams; or any		200 grams;					
			combination of them in		combination of them in		combination of them in		combination					
			accordance with the		accordance with the		accordance with the		accordance					
			following formula: For		following formula: For		following formula: For		following for					
			each kind of special		each kind of special		each kind of special		each kind of					
			nuclear material,		nuclear material,		nuclear material,		nuclear mat	•				
			determine the ratio		determine the ratio		determine the ratio		determine th	ne ratio				
			between the quantity of		between the quantity of		between the quantity of		between the	quantity of				
			that special nuclear		that special nuclear		that special nuclear		that special					
			material and the quantity		material and the quantity		material and the quantity			I the quantity				
			specified above for the		specified above for the		specified above for the		specified ab					
			same kind of special		same kind of special		same kind of special		same kind o					
			nuclear material. The		nuclear material. The		nuclear material. The		nuclear mat					
			sum of such ratios for all		sum of such ratios for all		sum of such ratios for all			ratios for all				
			of the kinds of special		of the kinds of special		of the kinds of special		of the kinds	•				
			nuclear material in combination shall not		nuclear material in combination shall not		nuclear material in combination shall not		nuclear mat					
			exceed 1.		exceed 1.		exceed 1.		exceed 1.	shall not				
							exceed 1.		exceed 1.					
397	,													
	§1.2.2	772	For example, the	=	For example, the		For example, the	=	For example	the				
	31.2.2	112	following quantities in		following quantities in		following quantities in		following qu					
			combination would not		combination would not		combination would not		combination					
			exceed the limitation and		exceed the limitation and		exceed the limitation and			imitation and				
			are within the formula:		are within the formula:		are within the formula:		are within th					
			175 (grams contained		175 (grams contained		175 (grams contained		175 (grams					
			235U)/350 + 50 (grams		235U)/350 + 50 (grams		235U)/350 + 50 (grams		235U)/350 +					
			contained 233U)/200 +		contained 233U)/200 +		contained 233U)/200 +		contained 2	33U)/200 +				
			50 (grams Pu)/200 = <1		50 (grams Pu)/200 = <1		50 (grams Pu)/200 = <1		50 (grams F	u)/200 = <1				
			or =1		or =1		or =1		or =1					
209	2													
398	2					1								

	A	В	С	D	E	F	G	Н		J	K	L	М
	CCR §	Line	2010-07-01 CCR	Note	2007-08-30 CCR	SSR §	2008-06 SSR draft	SSR Part A	2008-01-04 SSRCR	Cat	RATS	01-01-2009 CFR	2007-12-14 10 CFR
1			effective					changes					
	Part 1		Adopted 10/21/2009,	2010-07-01 vs.	Adopted 07/18/2007,	Part A	As of 11-25-2009, no	2003-03 v.	Per concordance by				Per concordance by
2	Section		effective 07/01/2010	prior language	effective 08/30/2007	Section	action on 2008 draft	2008-06	Terry Devine, CRCPD				Terry Devine, CRCPD
	§1.2.2	775	"Specific activity of a material", for a material in which the radionuclide is essentially uniformly distributed, means the radioactivity per unit mass of the material.	The definition of "specific activity of a material" is separated to further distinguish it from the definition of "specific activity of a radionuclide".		≠§A.2							
399													
400	§1.2.2	777	"Specific activity of a radionuclide" means the radioactivity of the radionuclide per unit mass of that nuclide.	The definition of "specific activity of a radionuclide" is modified.	Specific activity of a radionuclide" means the radioactivity of the radionuclide per unit mass of that nuclide. The specific activity of a material in which the radionuclide is essentially uniformly distributed is the radioactivity per unit mass of the material.	≠§A.2							

	Α	В	С	D	E	F	G	Н			J	K	L	М
	CCR §	Line	2010-07-01 CCR	Note	2007-08-30 CCR	SSR §	2008-06 SSR draft	SSR Part A	2008-01-04 S	SRCR	Cat	RATS	01-01-2009 CFR	2007-12-14 10 CFR
1			effective					changes						
	Part 1		Adopted 10/21/2009,	2010-07-01 vs.	Adopted 07/18/2007,	Part A	As of 11-25-2009, no	2003-03 v.	Per concorda					Per concordance by
2	Section		effective 07/01/2010	prior language	effective 08/30/2007	Section	action on 2008 draft	2008-06	Terry Devine,	CRCPD				Terry Devine, CRCPD
	§1.2.2	779	"Spent nuclear fuel" or	=	"Spent nuclear fuel" or	≠§A.2								
			"spent fuel" means fuel		"spent fuel" means fuel									
			that has been withdrawn		that has been withdrawn									
			from a nuclear reactor		from a nuclear reactor									
			following irradiation, has undergone at least 1		following irradiation, has									
			year's decay since being		undergone at least 1 year's decay since being									
			used as a source of		used as a source of									
			energy in a power		energy in a power									
			reactor, and has not		reactor, and has not									
			been chemically		been chemically									
			separated into its		separated into its									
			constituent elements by		constituent elements by									
			reprocessing. Spent fuel		reprocessing. Spent fuel									
			includes the special		includes the special									
			nuclear material,		nuclear material,									
			byproduct material,		byproduct material,									
			source material, and other radioactive		source material, and other radioactive									
			materials associated		materials associated									
			with fuel assemblies.		with fuel assemblies.									
4.04														
401		70.4	"OLL"		<u>"OLIN" II OLI</u>	(0.0.0								
	§1.2.2		"State" means the State	=	"State" means the State	≠§A.2								
			of Colorado. If it is clear from the context that the		of Colorado. If it is clear from the context that the									
1			term is being used in		term is being used in									
1			general, "state" means a		general, "state" means a									
			State of the United		State of the United									
1			States, the District of		States, the District of									
1			Columbia, the		Columbia, the									
1			Commonwealth of		Commonwealth of									
			Puerto Rico, the Virgin		Puerto Rico, the Virgin									
1			Islands, Guam,		Islands, Guam,									
1			American Samoa, and		American Samoa, and									
1			the Commonwealth of		the Commonwealth of									
			the Northern Mariana		the Northern Mariana									
1			Islands.		Islands.									
402														
402	·												1	

	Α	В	С	D	E	F	G	Н		I	J	K	L	М
	CCR §		2010-07-01 CCR	Note	2007-08-30 CCR	SSR §	2008-06 SSR draft	SSR Part A	2008-01-04	SSRCR	Cat	RATS	01-01-2009 CFR	2007-12-14 10 CFR
1	_		effective					changes	-					
1	Part 1		-	2010-07-01 vs.	Adopted 07/18/2007,	Part A	As of 11-25-2009, no	2003-03 v.	Per concord					Per concordance by
2	Section §1.2.2		effective 07/01/2010 "Stochastic effect"	prior language	effective 08/30/2007 "Stochastic effect"	Section ≠§A.2	action on 2008 draft	2008-06	Terry Devine	, CRCPD				Terry Devine, CRCPD
	81.2.2		means a health effect	-	means a health effect	+9A.2								
			that occurs randomly		that occurs randomly									
			and for which the		and for which the									
			probability of the effect		probability of the effect									
			occurring, rather than its severity, is assumed to		occurring, rather than its severity, is assumed to									
			be a linear function of		be a linear function of									
			dose without threshold.		dose without threshold.									
			Hereditary effects and		Hereditary effects and									
			cancer incidence are examples of stochastic		cancer incidence are examples of stochastic									
			effects. For purposes of		effects. For purposes of									
			these regulations,		these regulations,									
			"probabilistic effect" is an		"probabilistic effect" is an									
			equivalent term.		equivalent term.									
40	3													
	§1.2.2		"Structured educational	The definition of		≠§A.2								
			program" means an	"structured										
			accredited educational program designed to	educational program" is										
			impart particular	moved to 2010										
			knowledge and practical	Part 1.										
			education through											
			interrelated studies and supervised training.											
			superviseu training.											
10	1													
40	+ §1.2.2	794	Supplied-air respirator"	=	Supplied-air respirator"	=§A.2	"Supplied-air respirator	=	"Supplied-ai	r respirator"				
	3	,,,,	(SAR) or airline		(SAR) or airline	3, 1.2	(SAR)" means an		(SAR) mean	•				
			respirator means an		respirator means an		atmosphere-supplying		atmosphere					
			atmosphere-supplying		atmosphere-supplying		respirator for which the		respirator for					
			respirator for which the source of breathing air is		respirator for which the source of breathing air is		source of breathing air is not designed to be		source of brond	-				
			not designed to be		not designed to be		carried by the user.		carried by th					
			carried by the user.		carried by the user.									
40	5													
						Page								
40	6					A15								

	A	В	С	D	E	F	G	Н			J	K	L	М
	CCR §	Line	2010-07-01 CCR	Note	2007-08-30 CCR	SSR §	2008-06 SSR draft	SSR Part A	2008-01-04	SSRCR	Cat	RATS	01-01-2009 CFR	2007-12-14 10 CFR
1			effective					changes						
	Part 1		Adopted 10/21/2009,	2010-07-01 vs.	Adopted 07/18/2007,	Part A	As of 11-25-2009, no	2003-03 v.	Per concord	ance by				Per concordance by
2	Section		effective 07/01/2010	prior language		Section	action on 2008 draft	2008-06	Terry Devine	,				Terry Devine, CRCPD
	§1.2.2	796	"Survey" means an	=	"Survey" means an	=§A.2	"Survey" means an	=	Survey mea	ns an				
			evaluation of the		evaluation of the		evaluation of the		evaluation o					
			radiological conditions		radiological conditions		radiological conditions		radiological					
			and potential hazards		and potential hazards		and potential hazards		and potentia					
			incident to the		incident to the		incident to the		incident to the					
			production, use, transfer,		production, use, transfer,		production, use, transfer,			use, transfer,				
			release, disposal, or		release, disposal, or		release, disposal, or		release, dis	,				
			presence of sources of radiation. When		presence of sources of radiation. When		presence of sources of radiation. When		presence of radiation. W					
			appropriate, such		appropriate, such		appropriate, such		appropriate,					
			evaluation includes, but		evaluation includes, but		evaluation includes, but		evaluation in					
			is not limited to, tests,		is not limited to, tests,		is not limited to. tests.		is not limited	,				
			physical examinations,		physical examinations,		physical examinations,		physical exa	, ,				
			and measurements of		and measurements of		and measurements of		and measur					
			levels of radiation or		levels of radiation or		levels of radiation or		levels of rad					
			concentrations of		concentrations of		concentrations of		concentratio	ons of				
			radioactive material		radioactive material		radioactive material		radioactive i	naterial				
			present.		present.		present.		present.					
407	,													
	§1.2.2	800	"Test" means the	=	"Test" means the	=§A.2	"Test" means the	=	"Test" mear	is the				
	•		process of verifying		process of verifying	U U	process of verifying		process of v	erifying				
			compliance with an		compliance with an		compliance with an		compliance	with an				
408			applicable regulation.		applicable regulation.		applicable regulation.		applicable re	egulation.				
	1	Page							1		1			
409		1-23												
	§1.2.2	801	"These regulations"	=	"These regulations"	~§A.2	"These regulations"	=	"These regu	lations"				
1			mean all parts of the		mean all parts of the		mean all parts of [cite		mean all par					
			State of Colorado "Rules		State of Colorado "Rules		appropriate rules or		appropriate	rules or				
			and Regulations		and Regulations		regulations].		regulations]					
			Pertaining to Radiation		Pertaining to Radiation									
			Control," 6 CCR 1007-1.		Control," 6 CCR 1007-1.									
410														
H	§1.2.2	803	"Tight-fitting facepiece"	=	"Tight-fitting facepiece"	=§A.2	"Tight-fitting facepiece"	=	"Tight-fitting	facepiece"				
1	<u> </u>		means a respiratory inlet		means a respiratory inlet	3	means a respiratory inlet			piratory inlet				
			covering that forms a		covering that forms a		covering that forms a		covering that					
			complete seal with the		complete seal with the		complete seal with the		complete se					
1			face.		face.		face.		face.					
411														
		1		1							1			

	A	B C	D	E	F	G	Н		J	K	L	М
	CCR §	Line 2010-07-01 CCR	Note	2007-08-30 CCR	SSR §	2008-06 SSR draft	SSR Part A	2008-01-04 SSRCR	Cat	RATS	01-01-2009 CFR	2007-12-14 10 CFR
1		effective					changes					
	Part 1	Adopted 10/21/2009,	2010-07-01 vs.	Adopted 07/18/2007,	Part A	As of 11-25-2009, no	2003-03 v.	Per concordance by				Per concordance by
2	Section	effective 07/01/2010	prior language	effective 08/30/2007	Section	action on 2008 draft	2008-06	Terry Devine, CRCPD				Terry Devine, CRCPD
	§1.2.2	805 "Total effective dose	=	"Total effective dose	=§A.2	"Total effective dose	=	"Total effective dose				
		equivalent" (TEDE)		equivalent" (TEDE)		equivalent" (TEDE)		equivalent (TEDE)"				
		means the sum of the		means the sum of the		means the sum of the		means the sum of the				
		deep dose equivalent for		deep dose equivalent for		effective dose equivalent		deep dose equivalent for				
		external exposures and		external exposures and		(for external exposures)		external exposures and				
		the committed effective		the committed effective		and the committed		the committed effective				
		dose equivalent for		dose equivalent for		effective dose equivalent		dose equivalent for				
		internal exposures.		internal exposures.		(for internal exposures).		internal exposures.				
412												
	§1.2.2	807 "Total organ dose	The internal cross-	- "Total organ dose	~§A.2	"Total organ dose	=	"Total organ dose				
	°	-	reference is not	equivalent" (TODE)	Ŭ	equivalent" (TODE)		equivalent" (TODE)				
		means the sum of the	necessary in this	means the sum of the		means the sum of the		means the sum of the				
		deep dose equivalent	definition.	deep dose equivalent		deep dose equivalent		deep dose equivalent				
		and the committed dose		and the committed dose		and the committed dose		and the committed dose				
		equivalent to the organ		equivalent to the organ		equivalent to the organ		equivalent to the organ				
		receiving the highest		receiving the highest		receiving the highest		receiving the highest				
		dose.		dose.		dose as described in		dose as described in				
						D.1107a.vi. of these		D.1107a.vi. of these				
						regulations.		regulations.				
413												
	§1.2.2	809 "Traceable to a national	A definition of		≠§A.2	"Traceable to a National	=	Traceable to a National				
	3		"traceable to a		, 3,	Standard" [See		Standard [See				
			national standard"			"Instrument traceability"		"Instrument traceability"				
		. ,	is added. The			or "Source traceability"].		or "Source traceability"].				
			concept is used in									
		· · ·	several rule parts.									
		indirectly through one or	·····									
		more intermediate steps										
		and that all comparisons										
		have been documented.										
]							
414												

	A	В	С	D	E	F	G	Н	I	J	K	L	М
	CCR §	Line	2010-07-01 CCR	Note	2007-08-30 CCR	SSR §	2008-06 SSR draft	SSR Part A	2008-01-04 SSRCR	Cat	RATS	01-01-2009 CFR	2007-12-14 10 CFR
1			effective					changes					
	Part 1		Adopted 10/21/2009,	2010-07-01 vs.	Adopted 07/18/2007,	Part A	As of 11-25-2009, no	2003-03 v.	Per concordance by				Per concordance by
2	Section		effective 07/01/2010	prior language	effective 08/30/2007	Section	action on 2008 draft	2008-06	Terry Devine, CRCPD				Terry Devine, CRCPD
	§1.2.2	812	"U.S. Department of	=	"U.S. Department of	≠§A.2	[See "Department of						
	5		Energy" means the		Energy" means the	J	Energy" above.]						
			Department of Energy		Department of Energy								
			established by Public		established by Public								
			Law 95-91, August 4,		Law 95-91, August 4,								
			1977, 91 Stat. 565, 42		1977, 91 Stat. 565, 42								
			U.S.C. 7101 et seq., to		U.S.C. 7101 et seq., to								
			the extent that the		the extent that the								
			Department exercises		Department exercises								
			functions formerly		functions formerly								
			vested in the U.S.		vested in the U.S.								
			Atomic Energy		Atomic Energy								
			Commission, its		Commission, its								
			Chairman, members,		Chairman, members,								
			officers and components		officers and components								
			and transferred to the		and transferred to the								
			U.S. Energy Research		U.S. Energy Research								
			and Development		and Development								
			Administration and to the		Administration and to the								
			Administrator thereof		Administrator thereof								
			pursuant to Sections		pursuant to Sections								
			104(b), (c) and (d) of the		104(b), (c) and (d) of the								
			Energy Reorganization		Energy Reorganization								
			Act of 1974 (Public Law		Act of 1974 (Public Law								
			93 438, October 11,		93 438, October 11,								
			1974, 88 Stat. 1233 at		1974, 88 Stat. 1233 at								
			1237 42 U.S.C. 5814,		1237 42 U.S.C. 5814,								
			effective January 19,		effective January 19,								
			1975) and retransferred		1975) and retransferred								
			to the Secretary of		to the Secretary of								
			Energy pursuant to		Energy pursuant to								
			Section 301(a) of the		Section 301(a) of the								
			Department of Energy Organization Act (Public		Department of Energy Organization Act (Public								
			Law 95-91, August 4,		Law 95-91, August 4,								
			1977, 91 Stat. 565 at		1977, 91 Stat. 565 at								
			577-578. 42 U.S.C.		577-578, 42 U.S.C.								
			577-578, 42 0.S.C. 7151, effective October		577-578, 42 0.S.C. 7151, effective October								
15			1, 1977).		1, 1977).								

R § t 1 ction 2.2	812		Note 2010-07-01 vs. prior language * In the definition of "U.S. Department of Energy", periodically check all of the citations, especially "88 Stat. 1233 at 1237 42 U.S.C. 5814" The definition of "unirradiated uranium" now	"Unirradiated uranium"	SSR § Part A Section	2008-06 SSR draft As of 11-25-2009, no action on 2008 draft	SSR Part A changes 2003-03 v. 2008-06	2008-01-04 SSRCR Per concordance by Terry Devine, CRCPD	Cat	RATS	01-01-2009 CFR	2007-12-14 10 CFR Per concordance by Terry Devine, CRCPD
2.2		effective 07/01/2010 "Unirradiated uranium" means uranium containing not more than	prior language * In the definition of "U.S. Department of Energy", periodically check all of the citations, especially "88 Stat. 1233 at 1237 42 U.S.C. 5814" The definition of "unirradiated	effective 08/30/2007	Section							
		"Unirradiated uranium" means uranium containing not more than	of "U.S. Department of Energy", periodically check all of the citations, especially "88 Stat. 1233 at 1237 42 U.S.C. 5814" The definition of "unirradiated									
2.2	821	means uranium containing not more than	"unirradiated									
2.2	821	means uranium containing not more than	"unirradiated			1						
		nanocurie) of plutonium per gram of uranium- 235, not more than 9 x 10^{6} Bq (243 microcurie) of fission products per gram of uranium-235, and not more than 5 x 10^{-3} g of uranium 236 per gram of uranium- 235.	uses the numbers 54 nCi & 243 μCi, rather than spelling them out.	nanocurie) of plutonium per gram of uranium- 235, not more than 9 x 106 Bq (two hundred forty-three microcurie) of fission products per gram of uranium-235, and not more than 5 x 10-3 g of uranium 236 per gram of uranium- 235.	≠§A.2							
2.2	824	"Unrefined and unprocessed ore" means ore in its natural form prior to any processing, such as grinding, roasting, beneficiating, or refining.	=	"Unrefined and unprocessed ore" means ore in its natural form prior to any processing, such as grinding, roasting, beneficiating, or refining.	=§A.2	"Unrefined and unprocessed ore" means ore in its natural form prior to any processing, such as grinding, roasting, beneficiating, or refining.	=	"Unrefined and unprocessed ore" mea ore in its natural form prior to any processing such as grinding, roasting, beneficiating or refining.	,			
				J								
2.2	826	"Unrestricted area" means an area, access to which is neither limited nor controlled by the licensee or registrant. For purposes of these regulations, "uncontrolled area" is an equivalent term.	=	"Unrestricted area" means an area, access to which is neither limited nor controlled by the licensee or registrant. For purposes of these regulations, "uncontrolled area" is an equivalent term.	=§A.2	of these regulations,		to which is neither limited nor controlled to the licensee or registrant. For purpos of these regulations,	y es			
2.2	2	2 826	means an area, access to which is neither limited nor controlled by the licensee or registrant. For purposes of these regulations, "uncontrolled area" is an	2 826 "Unrestricted area" = means an area, access to which is neither limited nor controlled by the licensee or registrant. For purposes of these regulations, "uncontrolled area" is an	2 826 "Unrestricted area" = "Unrestricted area" means an area, access to which is neither limited nor controlled by the licensee or registrant. For purposes of these regulations, "uncontrolled area" is an	2 826 "Unrestricted area" = "Unrestricted area" = \$A.2 means an area, access to which is neither limited nor controlled by the licensee or registrant. For purposes of these regulations, "uncontrolled area" is an	2 826 "Unrestricted area" means an area, access to which is neither limited nor controlled by the licensee or registrant. For purposes of these regulations, "uncontrolled area" is an area and the second se	2 826 "Unrestricted area" = "Unrestricted area" = s§A.2 "Unrestricted area" = means an area, access to which is neither limited nor controlled by the licensee or registrant. For purposes of these regulations, "uncontrolled area" is an "uncontrolled area" is an "uncontrolled area" is an "uncontrolled area" is an uncontrolled area" = s§A.2 "Unrestricted area" = means an area, access to which is neither limited nor controlled by the licensee or registrant. For purposes of these regulations, "uncontrolled area" is an uncontrolled area" is an uncontrolled area" is an uncontrolled area" is an uncontrolled area" = s§A.2 "Unrestricted area" = means an area, access to which is neither limited nor controlled by the licensee or registrant. For purposes of these regulations, "uncontrolled area" is an uncontrolled area in the uncontrol in the unco	2 826 "Unrestricted area" means an area, access to which is neither limited nor controlled by the licensee or registrant. For purposes of these regulations, "uncontrolled area" is an uncontrolled area is an uncontrolle	2 826 "Unrestricted area" means an area, access to which is neither limited nor controlled by the licensee or registrant. For purposes of these regulations, "uncontrolled area" is an uncontrolled area is an uncontrolled a	2 826 "Unrestricted area" means an area, access to which is neither limited nor controlled by the licensee or registrant. For purposes of these regulations, "uncontrolled area" is an area and the series and the serie	2 826 "Unrestricted area" = "Unrestricted area" means an area, access to which is neither limited nor controlled by the licensee or registrant. For purposes of these regulations, "uncontrolled area" is an uncontrolled area" uncontrolled area" is an uncontrolled area" is an uncontrolled area" is an uncontrolled area is an uncon

	A	В	С	D	E	F	G	Н	I	J	K	L	М
	CCR §		2010-07-01 CCR	Note	2007-08-30 CCR	SSR §	2008-06 SSR draft	SSR Part A	2008-01-04 SSRCR	Cat	RATS	01-01-2009 CFR	2007-12-14 10 CFR
1			effective					changes					
	Part 1			2010-07-01 vs.	Adopted 07/18/2007,	Part A	As of 11-25-2009, no	2003-03 v.	Per concordance by				Per concordance by
2	Section			prior language	effective 08/30/2007	Section	action on 2008 draft	2008-06	Terry Devine, CRCPD				Terry Devine, CRCPD
	§1.2.2	829	"Unrestricted use"	The definition of	"Unrestricted use"	~§A.2	"Unrestricted use"	A definition of					
			,	"unrestricted use"	means that the facility or		means that the facility or						
				is reformatted	area may be used by		area may be used by	use" is added.					
			5	slightly.	individuals for any		individuals for any						
			purpose without limits or control of the licensee,		purpose without limits or controls. The facility or		purpose without limits or						
			registrant, or holder of		area is no longer under		controls. The facility or area is no longer under						
			the record of		the control of the		the control of the						
			possession. See also		licensee, registrant, or		licensee, registrant, or						
			"restricted use".		holder of the record of		holder of the record of						
					possession (see also		possession.						
					"restricted use").		-						
400													
420	1	000		T he sector a a b							-		
		829		The phrase "no									
				longer under the control of" seems									
				to leave out the									
				status of a facility									
				or area in which									
				restriction has									
				never been									
				exercised. Such a									
				situation might									
				also be									
				considered									
				"unrestricted use".									
421													
<u> </u>	§1.2.2	832	"Uranium". See	=	"Uranium" (see depleted	≠§A.2							
			depleted uranium,		uranium, enriched	Ĭ							
			enriched uranium, or		uranium, or natural								
			natural uranium.		uranium)								
422	2												

	A	В	С	D	E	F	G	Н			J	K	L	М
	CCR §	Line	2010-07-01 CCR	Note	2007-08-30 CCR	SSR §	2008-06 SSR draft	SSR Part A	2008-01-04	SSRCR	Cat	RATS	01-01-2009 CFR	2007-12-14 10 CFR
1			effective					changes						
	Part 1		Adopted 10/21/2009,	2010-07-01 vs.	Adopted 07/18/2007,	Part A	As of 11-25-2009, no	2003-03 v.	Per concorda					Per concordance by
2	Section		effective 07/01/2010	prior language	effective 08/30/2007	Section	action on 2008 draft	2008-06	Terry Devine					Terry Devine, CRCPD
	§1.2.2	833	"User seal check" (fit	=	"User seal check" (fit	=§A.2	"User seal check (fit	=	User seal ch	``				
			check) means an action conducted by the		check) means an action conducted by the		check)" means an action conducted by the		check) mear conducted b					
			respirator user to		respirator user to		respirator user to		respirator us	·				
			determine if the		determine if the		determine if the		determine if					
			respirator is properly		respirator is properly		respirator is properly		respirator is	properly				
			seated to the face.		seated to the face.		seated to the face.		seated to the					
			Examples include		Examples include		Examples include		Examples in					
			negative pressure		negative pressure		negative pressure		negative pre					
			check, positive pressure check, irritant smoke		check, positive pressure check, irritant smoke		check, positive pressure check, irritant smoke		check, positi check, irritar	•				
			check, or isoamylacetate		check, or isoamylacetate		check, or isoamyl		check, or isc					
			check.		check.		acetate check.		acetate chec	,				
423			m /		m		m./							
	§1.2.2	836	"Very high radiation" area means an area,	=	"Very high radiation area,"	=§A.2	"Very high radiation area" means an area.	=	Very high rad					
			accessible to individuals.		accessible to individuals.		accessible to individuals.		accessible to	,				
			in which radiation levels		in which radiation levels		in which radiation levels		in which radi					
			from radiation sources		from radiation sources		from radiation sources		from radiatio	n sources				
			external to the body		external to the body		external to the body		external to th	ne body				
			could result in an		could result in an		could result in an		could result i					
			individual receiving an		individual receiving an		individual receiving an		individual red	•				
			absorbed dose in excess of 5 Gy (500 rad) in 1		absorbed dose in excess of 5 Gy (500 rad) in 1		absorbed dose in excess of 5 Gy (500 rad) in 1		of 5 Gy (500	se in excess				
			hour at 1 meter from a		hour at 1 meter from a		hour at 1 meter from a		hour at 1 me	,				
			source of radiation or 1		source of radiation or 1		source of radiation or 1		source of rac					
			meter from any surface		meter from any surface		meter from any surface		meter from a	iny surface				
			that the radiation		that the radiation		that the radiation		that the radia					
			penetrates.5		penetrates.6		penetrates.2/		penetrates.2	/				
424														
<u> </u>	§1.2.2	840	⁵ At very high doses	=	⁶ At very high doses	=§A.2	2/ At very high doses		2/ At very hig	h doses				
1	ſ		received at high dose		received at high dose		received at high dose		received at h					
			rates, units of absorbed		rates, units of absorbed		rates, units of absorbed		rates, units o					
			dose, gray and rad, are		dose, gray and rad, are		dose, gray and rad, are		dose, gray a	-				
1			appropriate, rather than		appropriate, rather than		appropriate, rather than units of dose equivalent.		appropriate, units of dose					
1			units of dose equivalent, sievert and rem.		units of dose equivalent, sievert and rem.		sievert and rem.		sievert and r					
			SIEVEIL ANU TEITI.											
425														
723		Page				Page								
426		1-24				A16								

CDB Line 208-0F-04 SSR P unit SSR P unit College Adapted Coll 02-0F-03		A	В	С	D	E	F	G	Н	I	J	K	L	М
Pert 1 Adopted 102/12008, effective 00714 Adopted 107/12009, effective 00714 Per concordance by effective 00714 Per concordance by action a 2008 of at action a 2008 of at acti	1	CCR §	Line		Note	2007-08-30 CCR	SSR §	2008-06 SSR draft		2008-01-04 SSRCR	Cat	RATS	01-01-2009 CFR	2007-12-14 10 CFR
427 State or Tentory of the United States, the District of Columbia or the Commonwealh of Potent Risc practice waterinary medicine. State or Tentory of the District of Columbia or the Commonwealh of Potent Risc practice waterinary medicine. Water means those the Commonwealh of Potent Risc practice waterinary medicine. 427 51.2.2 844 Water means those the Commonweal not waterinary medicine. Vaster means those the company medicine. Vaster means those the company medicine. Vaster means those waterinary medicine. Vaster means those the company medicine. 412.2 844 Water means those waterinary medicine. Vaster means those the company medicine. Vaster means those waterinary medicine. Vaster means those waterinary medicine. Vaster means those waterinary medicine. 51.2.2 844 Water means those waterinary medicine. Vaster means those waterinary medicine. Vaster means those waterinary medicine. Vaster means those waterinary medicine. 61.20.2 Vaster means those waterinary medicine. Vaster means those waterinary medicine. Vaster means those waterinary medicine. Vaster	2	Section		effective 07/01/2010		effective 08/30/2007	Section		2003-03 v.					Per concordance by Terry Devine, CRCPD
Image: space	42		842	individual licensed by a State or Territory of the United States, the District of Columbia or the Commonwealth of Puerto Rico to practice		individual licensed by a State or Territory of the United States, the District of Columbia or the Commonwealth of Puerto Rico to practice	≠§A.2							
428		§1.2.2	844	radioactive waste that is acceptable for disposal in a land disposal facility and, for purposes of this definition, that is not classified as high level radioactive waste, spent nuclear fuel, or byproduct material meeting definition (2),	"waste" is simplified considerably based on 2008	low level radioactive wastes that are acceptable for disposal in a land disposal facility. For the purposes of this definition, low level waste has the same meaning as in the Low Level Radioactive Waste Policy Act, P.L. 96-573, as amended by P.L. 99- 240, effective January 15, 1986, and consistent with the Energy Policy Act of 2005, P.L. 109-58; that is, radioactive waste (a) not classified as high level radioactive waste, spent nuclear fuel, or byproduct material as defined in Section 11e.(2) of the Atomic Energy Act (uranium or thorium tailings and waste) or Sections 11e.(3) or 11e.(4) of the Atomic Energy Act and (b) classified as low level radioactive waste consistent with existing law and in accordance with (a) by the U.S. Nuclear Regulatory		low-level radioactive wastes containing source, special nuclear, or byproduct material that are acceptable for disposal in a land disposal facility. For the purposes of this definition, low-level radioactive waste means radioactive waste not classified as high-level radioactive waste, transuranic waste, spent nuclear fuel, or byproduct material as defined in paragraphs (2), (3) and (4) of the definition of Byproduct material set forth in this	of "waste" is simplified considerably in 2008 SSRCR Part A.	low-level radioactive wastes that are acceptable for disposal in a land disposal facility. For the purposes of this definition, low-level waste has the same meaning as in the Low- Level Radioactive Waste Policy Act, P.L. 96-573, as amended by P.L. 99- 240, effective January 15, 1986; that is, radioactive waste (a) not classified as high-level radioactive waste, spent nuclear fuel, or byproduct material as defined in Section 11e.(2) of the Atomic Energy Act (uranium or thorium tailings and waste) and (b) classified as low-level radioactive waste consistent with existing law and in accordance with (a) by the Nuclear Regulatory				

	Α	В	С	D	E	F	G	Н	I	J	K	L	М
1	CCR §	Line	2010-07-01 CCR effective	Note	2007-08-30 CCR	SSR §	2008-06 SSR draft	SSR Part A changes	2008-01-04 SSRCR	Cat	RATS	01-01-2009 CFR	2007-12-14 10 CFR
-	Part 1		Adopted 10/21/2009,	2010-07-01 vs.	Adopted 07/18/2007,	Part A	As of 11-25-2009, no	2003-03 v.	Per concordance by				Per concordance by
	Section		effective 07/01/2010	prior language			action on 2008 draft	2008-06	Terry Devine, CRCPD				Terry Devine, CRCPD
429	§1.2.2	847	"Waste handling licensees" mean persons licensed to receive and store radioactive wastes prior to disposal and/or persons licensed to dispose of radioactive waste.	=	"Waste handling licensees" mean persons licensed to receive and store radioactive wastes prior to disposal and/or persons licensed to dispose of radioactive waste.	=§A.2	"Waste handling licensees" mean persons licensed to receive and store radioactive wastes prior to disposal and/or persons licensed to dispose of radioactive waste.	=	"Waste handling licensees" mean persons licensed to receive and store radioactive wastes prior to disposal and/or persons licensed to dispose of radioactive waste.				
	§1.2.2	849	"Week" means 7	=	"Week" means 7	=§A.2	"Week" means 7		"Week" means 7				
420			consecutive days		consecutive days		consecutive days		consecutive days				
430	§1.2.2	050	starting on Sunday. "Weighting factor" (wT)	The definition of	starting on Sunday. "Weighting factor" (wT)	≠§A.2	starting on Sunday.	=	starting on Sunday.				
			for an organ or tissue (T) means the proportion, listed in Appendix 1B, of the risk of stochastic effects resulting from irradiation of that organ or tissue to the total risk of stochastic effects when the whole body is irradiated uniformly.	"weighting factor" is modified	for an organ or tissue (T) means the proportion of the risk of stochastic effects resulting from irradiation of that organ or tissue to the total risk of stochastic effects when the whole body is irradiated uniformly. For calculating the effective dose equivalent, the values of wT are:								
431													
	§1.2.2	852		The former Table 1-1 is moved to Appendix 1B as Table 1B1. Former footnotes 7 and 8 become footnotes 8 and 9 in 2010 Part 1.	TABLE 1-1: ORGAN DOSE WEIGHTING FACTORS	≠§A.2							
432													
433	§1.2.2	852		moved	Organ Or Tissue WT								
	§1.2.2	852		moved	Gonads 0.25								
	§1.2.2	852		moved	Breast 0.15								
436	§1.2.2	852		moved	Red Bone Marrow 0.12								
437	§1.2.2	852		moved	Lung 0.12								
	§1.2.2	852		moved	Thyroid 0.03								

	A	В	С	D	E	F	G	Н			J	K	L	М
	CCR §	Line	2010-07-01 CCR	Note	2007-08-30 CCR	SSR §	2008-06 SSR draft	SSR Part A	2008-01-04	SSRCR	Cat	RATS	01-01-2009 CFR	2007-12-14 10 CFR
1			effective					changes						
	Part 1		Adopted 10/21/2009,	2010-07-01 vs.	Adopted 07/18/2007,	Part A	As of 11-25-2009, no	2003-03 v.	Per concord					Per concordance by
	Section		effective 07/01/2010	prior language	effective 08/30/2007	Section	action on 2008 draft	2008-06	Terry Devine	e, CRCPD				Terry Devine, CRCPD
	§1.2.2	852		moved	Bone Surfaces 0.03									
	§1.2.2	852		moved	Remainder ⁷ 0.30									
	§1.2.2	852		moved	Whole Body ⁸ 1.00									
	§1.2.2	852		moved	⁷ 0.30 results from 0.06									
					for each of 5 "remainder" organs, excluding the									
					skin and the lens of the									
					eye, that receive the									
					highest doses.									
442														
	§1.2.2	852		moved	⁸ For the purpose of									
					weighting the external									
					whole body dose, for									
					adding it to the internal									
					dose, a single weighting									
					factor, wT = 1.0, has been specified. The use									
					of other weighting factors									
					for external exposure will									
					be approved on a case									
					by case basis until such									
					time as specific									
					guidance is issued.									
443														
	§1.2.2		"Whole body" means, for	=	"Whole body" means, for	=§A.2	"Whole body" means, for	=		y" means, foi	r			
			purposes of external		purposes of external		purposes of external		purposes of					
			exposure, head, trunk		exposure, head, trunk		exposure, head, trunk		exposure, he					
			including male gonads, arms above the elbow,		including male gonads, arms above the elbow,		including male gonads, arms above the elbow,		including ma arms above					
			or legs above the knee.		or legs above the knee.		or legs above the knee.		or legs above	,				
444														
	§1.2.2	855	"Worker" means an	=	"Worker" means an	~§A.2	"Worker" means an	=	"Worker" me	eans an				
	31.2.2		individual engaged in		individual engaged in	3, 1.2	individual engaged in		individual er					
			work under a license or		work under a license or		activities under a license			der a license	2			
			registration issued by		registration issued by		or registration issued by		or registration					
			the Department and		the Department and		the Agency and		the Agency					
			controlled by a licensee		controlled by a licensee		controlled by a licensee		controlled by					
1			or registrant.		or registrant.		or registrant, but does not include the licensee		or registrant not include t					
							or registrant.		or registrant					
									or registrant	•				
445														

	A	В	С	D	E	F	G	Н			J	K	L	М
	CCR §	Line	2010-07-01 CCR	Note	2007-08-30 CCR	SSR §	2008-06 SSR draft	SSR Part A	2008-01-04	SSRCR	Cat	RATS	01-01-2009 CFR	2007-12-14 10 CFR
1			effective					changes						
	Part 1		Adopted 10/21/2009,	2010-07-01 vs.	Adopted 07/18/2007,	Part A	As of 11-25-2009, no	2003-03 v.	Per concord					Per concordance by
2	Section		effective 07/01/2010	prior language	effective 08/30/2007	Section	action on 2008 draft	2008-06	Terry Devin	-				Terry Devine, CRCPD
	§1.2.2	857	"Working level" (WL)	=	"Working level" (WL)	=§A.2	"Working level" (WL)	=	"Working le	. ,				
			means any combination of short-lived radon		means any combination of short-lived radon		means any combination of short-lived radon		means any of short-live					
			daughters in 1 liter of air		daughters in 1 liter of air		daughters in 1 liter of air			1 liter of air				
			that will result in the		that will result in the		that will result in the		that will resu					
			ultimate emission of		ultimate emission of		ultimate emission of		ultimate em					
			1.3×105 MeV of		1.3×105 MeV of		1.3E+5 MeV of potential		1.3E+5 Me∖	of potential				
			potential alpha particle		potential alpha particle		alpha particle energy.		alpha partic	e energy.				
			energy. The short lived		energy. The short lived		The short-lived radon		The short-liv					
			radon daughters are: for		radon daughters are: for		daughters of radon-222		daughters o					
			radon-222: polonium-		radon-222: polonium-		are polonium-218, lead-		are poloniur					
			218, lead-214, bismuth- 214, and polonium 214;		218, lead-214, bismuth- 214, and polonium 214;		214, bismuth-214, and polonium-214; and those		214, bismut	4; and those				
			and for radon-220:		and for radon-220:		of radon-220 are		of radon-22	,				
			polonium-216, lead-212,		polonium-216, lead-212,		polonium-216, lead-212,			6, lead-212,				
			bismuth-212, and		bismuth-212, and		bismuth-212, and		bismuth-212					
			polonium-212.		polonium-212.		polonium-212.		polonium-21	2.				
446		-												
	§1.2.2	861	"Working level month"	The definition of	"Working level month"	=§A.2	"Working level month" (WLM) means an	=	Working lev					
			(WLM) means an exposure to 1 working	"working level month" is	(WLM) means an exposure to 1 working		exposure to 1 working		(WLM) mea exposure to					
			level for 170 hours (reformatted	level for 170 hours		level for 170 hours		level for 170	•				
			· · ·		2,000 working hours per		2,000 working hours per			ng hours per				
			year divided by 12		year divided by 12		year divided by 12		year divided	•				
			months per year is		months per year is		months per year is		months per	,				
			approximately equal to		approximately equal to		approximately equal to		approximate					
447			170 hours per month).		170 hours per month.		170 hours per month.		170 hours p	er month.				
	§1.2.2	863	"X-ray equipment"	A definition of "x-		≠§A.2								
			means an x-ray system,	ray equipment" is		-								
			subsystem, or	added because										
			component thereof.	the term is used										
1				in several parts.										
448														
	§1.2.2	864	(1) "Mobile or portable x-			≠§A.2								
			ray equipment" means x-	-										
			ray equipment that is designed to be											
			transported from place											
			to place.											
449														
449	'					1								

	A	В	С	D	E	F	G	Н		J	K	L	М
1	CCR §	Line	2010-07-01 CCR effective	Note	2007-08-30 CCR	SSR §	2008-06 SSR draft	SSR Part A changes	2008-01-04 SSRCR	Cat	RATS	01-01-2009 CFR	2007-12-14 10 CFR
	Part 1 Section		effective 07/01/2010	2010-07-01 vs. prior language	Adopted 07/18/2007, effective 08/30/2007	Part A Section	As of 11-25-2009, no action on 2008 draft	2003-03 v. 2008-06	Per concordance by Terry Devine, CRCPD				Per concordance by Terry Devine, CRCPD
450	§1.2.2	866	(a) Mobile x-ray equipment is often mounted in a vehicle or on a permanent base with wheels and/or casters for moving while completely assembled.			≠§A.2							
	§1.2.2		(b) Portable x-ray equipment includes x-ray equipment that is designed to be hand- carried and hand-held during use.			≠§A.2							
452	§1.2.2	870	(2) "Stationary x-ray equipment" means x-ray equipment that is installed in a fixed location.			≠§A.2							
	§1.2.2	872	or "x-ray system" means an assemblage of components for the controlled production of	A definition of "x- ray imaging system" is added because the term is used in several parts.		≠§A.2							
	§1.2.2	874	(1) At a minimum, an x- ray imaging system includes an x-ray high- voltage generator, an x- ray exposure control, a tube housing assembly, a beam-limiting device, and necessary supporting structures.			≠§A.2							
<u>454</u> 455	§1.2.2	877	(2) Additional components such as the image receptor(s) that function with the system are considered integral parts of the system.			≠§A.2							
456		Page 1-25											

	A	В	С	D	E	F	G	Н			J	K	L	М
	CCR §	Line	2010-07-01 CCR	Note	2007-08-30 CCR	SSR §	2008-06 SSR draft	SSR Part A	2008-01-04	SSRCR	Cat	RATS	01-01-2009 CFR	2007-12-14 10 CFR
1			effective					changes						
	Part 1		Adopted 10/21/2009,	2010-07-01 vs.	Adopted 07/18/2007,	Part A	As of 11-25-2009, no	2003-03 v.	Per concord	ance by				Per concordance by
	Section		effective 07/01/2010	prior language	effective 08/30/2007	Section	action on 2008 draft	2008-06	Terry Devine					Terry Devine, CRCPD
	§1.2.2		"Year" means the period		"Year" means the period	~§A.2	"Year" means the period			ns the period				
			of time beginning in	reference in the	of time beginning in		of time beginning in		of time begin	-				
			January used to	definition of year	January used to		January used to		January use					
			determine compliance	is slightly	determine compliance		determine compliance		determine co					
			with the provisions of these regulations. The	reformatted.	with the provisions of these regulations. The		with the provisions of these regulations. The		with the prov these regula					
			licensee or registrant		licensee or registrant		licensee or registrant		licensee or r					
			may change the starting		may change the starting		may change the starting		may change					
			date of the year used to		date of the year used to		date of the year used to		date of the y					
			determine compliance		determine compliance		determine compliance		determine co					
			by the licensee or		by the licensee or		by the licensee or		by the licens	•				
			registrant provided that		registrant provided that		registrant provided that		registrant pr	ovided that				
			the change is made at		the change is made at		the change is made at		the change i	s made at				
			the beginning of the		the beginning of the		the beginning of the		the beginnin	g of the				
			year. If a transition from		year. If a transition from		year. If a licensee or		year. If a lice					
			one licensee or		one licensee or		registrant changes in a		registrant ch	-				
			registrant to another		registrant to another		year, the licensee or		year, the lice					
			occurs during a year,		occurs during a year,		registrant shall assure		registrant sh					
			each licensee or registrant shall assure		each licensee or registrant shall assure		and that no day is omitted or duplicated in		that no day i duplicated in					
			that no day is omitted or		that no day is omitted or		consecutive years.		consecutive					
			duplicated in		duplicated in		consecutive years.		consecutive	years.				
			consecutive years. See		consecutive years. See									
			also "calendar quarter"		also "calendar quarter"									
			and "quarter".		and "quarter".									
457														
457	\$4.0.0	070		The entire										
	§1.2.2	879		The option										
1				statement really belongs in a rule										
1				subsection not in										
				a definition.							1			
150				a aoninaon.										
458		005												
			COMMUNICATIONS AND REFERENCED		COMMUNICATIONS AND REFERENCED						1			
150			MATERIALS		MATERIALS									
459	64.0					SA 40								
460	§1.3	886	1.3 Communications.		1.3 Communications.	~§A.12								

	Α	В	С	D	E	F	G	Н			J	K	L	М
	CCR §	Line	2010-07-01 CCR	Note	2007-08-30 CCR	SSR §	2008-06 SSR draft	SSR Part A	2008-01-04 \$	SRCR	Cat	RATS	01-01-2009 CFR	2007-12-14 10 CFR
1			effective					changes						
	Part 1		Adopted 10/21/2009,	2010-07-01 vs.	Adopted 07/18/2007,	Part A	As of 11-25-2009, no	2003-03 v.	Per concorda	ance by				Per concordance by
2	Section		effective 07/01/2010	prior language	effective 08/30/2007	Section	action on 2008 draft	2008-06	Terry Devine	, CRCPD				Terry Devine, CRCPD
	§1.3.1	887	1.3.1 All		All communications and	~§A.12								
	-		communications and		reports concerning parts	-								
			reports concerning parts		of these regulations, and									
			of these regulations, and		applications filed									
			applications filed		thereunder, should be									
			thereunder, should be		addressed to the									
			addressed to the		Department.									
			Department.											
461														
	§1.4	889	1.4 Referenced		1.4 Referenced									
462	5		Materials.		Materials.									
_	§1.4.1	890	1.4.1 Parts of these		1.4.1 Parts of these	≠§A								
	0		regulations incorporate		regulations incorporate	5								
			by reference (as		by reference (as									
			identified within a		identified within a									
			particular section)		particular section)									
			materials originally		materials originally									
			published elsewhere.		published elsewhere.									
			These regulations do not		These regulations do not									
			include amendments to		include amendments to									
			or editions of		or editions of									
			incorporated materials		incorporated materials									
			published later than the		published later than the									
			effective date of the		effective date of the									
			particular section.		particular section.									
463														
	§1.4.2	893	1.4.2 The Department of		1.4.2 The Department of	≠§A								
	J		Public Health and		Public Health and	5								
			Environment maintains		Environment maintains									
			copies of the complete		copies of the complete									
			text of the incorporated		text of the incorporated									
			materials for public		materials for public									
			inspection during regular		inspection during regular									
			business hours.		business hours.									
464														
-04														

	Α	В	С	D	E	F	G	Н		J	K	L	М
1	CCR §		2010-07-01 CCR effective	Note	2007-08-30 CCR	SSR §	2008-06 SSR draft	SSR Part A changes	2008-01-04 SSRCR	Cat	RATS	01-01-2009 CFR	2007-12-14 10 CFR
2	Part 1 Section			2010-07-01 vs. prior language	Adopted 07/18/2007, effective 08/30/2007	Part A Section	As of 11-25-2009, no action on 2008 draft	2003-03 v. 2008-06	Per concordance by Terry Devine, CRCPD				Per concordance by Terry Devine, CRCPD
	§1.4.3	895	1.4.3 The Hazardous Materials And Waste Management Division will provide certified copies of any non- copyrighted referenced material at cost upon request. Information regarding how the incorporated material may be obtained or examined is available			¥§A							
465			from:		from:								
466			Director, Hazardous Materials And Waste Management Division		Materials And Waste Management Division	≠§A							
	§1.4.3	899	Colorado Department of Public Health and		Colorado Department of Public Health and	≠§A							
467	§1.4.3	900	Environment 4300 Cherry Creek Drive		Environment 4300 Cherry Creek Drive	≠§A							
468	§1.4.3	901	South Denver, CO 80246-1530		South Denver, CO 80246-1530	-							
469						-							
	§1.4.4	902	1.4.4 In accordance with Section 24 4 103(12.5)(c)(II)(C), CRS, copies of any material that has been incorporated by reference have been provided to the State Publications Depository Library and Distribution Center and are available for interlibrary loan. The incorporated materials may be examined at any state publications depository library.	to Section	1.4.4 In accordance with Section 24 4 103(12.5)(c)(II)(C), CRS, copies of any material that has been incorporated by reference have been provided to the State Publications Depository Library and Distribution Center and are available for interlibrary loan. The incorporated materials may be examined at any state publications depository library.	¥§A							
470	§1.5	906	EXEMPTIONS FROM	Make exemption	EXEMPTIONS FROM		Exemptions from the		Exemptions from the				
471			THE REGULATORY		THE REGULATORY REQUIREMENTS		Regulatory Requirements		Regulatory Requirements				
	§1.5	907	1.5 Exemptions.	Exemptions.	1.5 Exemptions.	~§A.3	Sec. A.3 - Exemptions		Sec. A.3 -Exemptions.				

	Α	В	С	D	E	F	G	Н		J	K	L	М
1	CCR §		2010-07-01 CCR effective	Note	2007-08-30 CCR	SSR §	2008-06 SSR draft	SSR Part A changes	2008-01-04 SSRCR	Cat	RATS	01-01-2009 CFR	2007-12-14 10 CFR
2	Part 1 Section		Adopted 10/21/2009, effective 07/01/2010	2010-07-01 vs. prior language	Adopted 07/18/2007, effective 08/30/2007	Part A Section	As of 11-25-2009, no action on 2008 draft	2003-03 v. 2008-06	Per concordance by Terry Devine, CRCPD				Per concordance by Terry Devine, CRCPD
473	§1.5	907		* Decide whether "exemptions or exceptions" is best singular or plural.									
474	§1.5	907		Somewhere provide a glossary that makes a clarifying distinction between exemption and exception.									
474		907		The ICRP document 2007 Recommendation s of the International Commission on Radiological Protection has §2.4, "Exclusion and exemption".									
476	§1.5	907		The header for §1.5.1 is deleted.	1.5.1 General Provision.	~§A.3							
477	§1.5.1		1.5.1 The Department may, upon application or upon its own initiative, grant such exemption or exception from a requirement of these regulations as it determines is authorized by law and will not result in undue hazard to public health and safety or property.		The Department may, upon application or upon its own initiative, grant such exemptions or exceptions from the requirements of these regulations as it determines are authorized by law and will not result in undue hazard to public health and safety or property.	~§A.3	a. General Provision. The Agency may, upon application or upon its own initiative, grant such exemptions or exceptions from the requirements of these regulations as it determines are authorized by law and will not result in undue hazard to public health and safety or property.		a. General Provision. The Agency may, upon application or upon its own initiative, grant such exemptions or exceptions from the requirements of these regulations as it determines are authorized by law and will not result in undue hazard to public health and safety or property.				
478		Page 1-26				Page A17							

	Α	В	С	D	E	F	G	Н	I	J	K	L	М
	CCR §	Line	2010-07-01 CCR	Note	2007-08-30 CCR	SSR §	2008-06 SSR draft	SSR Part A	2008-01-04 SSRCR	Cat	RATS	01-01-2009 CFR	2007-12-14 10 CFR
1			effective					changes					
	Part 1		Adopted 10/21/2009,	2010-07-01 vs.	Adopted 07/18/2007,	Part A	As of 11-25-2009, no	2003-03 v.	Per concordance by				Per concordance by
2			effective 07/01/2010	prior language	effective 08/30/2007	Section	action on 2008 draft	2008-06	Terry Devine, CRCPD				Terry Devine, CRCPD
	§1.5.2	9	1	The header for	1.5.2 U.S. Department of	~§A.3							
				1.5.2 is deleted.	Energy Contractors and								
					U.S. Nuclear Regulatory								
					Commission Contractors.								
	~				Contractors.								
47		-				0.0.0							
	§1.5.2	9	1 1.5.2 Any U.S.		Any U.S. Department of	~§A.3	b. Department of	=	b. Department of Energy Contractors and Nuclear				
			Department of Energy contractor or		Energy contractor or subcontractor and any		Energy Contractors and Nuclear Regulatory		Regulatory Commission				
			subcontractor and any		U.S. Nuclear Regulatory		Commission		Contractors. Any				
			U.S. Nuclear Regulatory		Commission contractor		Contractors. Any		Department of Energy				
			Commission contractor		or subcontractor of the		Department of Energy		contractor or				
			or subcontractor of the		following categories		contractor or		subcontractor and any				
			following categories		operating within this		subcontractor and any		Nuclear Regulatory				
			operating within this		State is exempt from		Nuclear Regulatory		Commission contractor				
			State is exempt from		these regulations to the		Commission contractor		or subcontractor of the				
			these regulations to the		extent that such		or subcontractor of the		following categories				
			extent that such contractor or		contractor or subcontractor under his		following categories		operating within this				
			subcontractor under his		contract receives,		operating within this State is exempt from		State is exempt from these regulations to the				
			contract receives,		possesses, uses,		these regulations to the		extent that such				
			possesses, uses,		transfers or acquires		extent that such		contractor or				
			transfers or acquires		sources of radiation:		contractor or		subcontractor under his				
			sources of radiation:				subcontractor under his		contract receives,				
							contract receives,		possesses, uses,				
							possesses, uses,		transfers, or acquires				
							transfers, or acquires		sources of radiation:				
							sources of radiation:						
48	0												

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	CCR §	Line	2010-07-01 CCR	Note	2007-08-30 CCR	SSR §	2008-06 SSR draft	SSR Part A	2008-01-04 \$	SSRCR	Cat	RATS	01-01-2009 CFR	2007-12-14 10 CFR
1			effective					changes						
	Part 1		Adopted 10/21/2009,	2010-07-01 vs.	Adopted 07/18/2007,	Part A	As of 11-25-2009, no	2003-03 v.	Per concorda	ance by				Per concordance by
2	Section		effective 07/01/2010	prior language	effective 08/30/2007	Section	action on 2008 draft	2008-06	Terry Devine	, CRCPD				Terry Devine, CRCPD
	§1.5.2.1	915	1.5.2.1 Prime	=	1.5.2.1 Prime	~§A.3	i. Prime contractors		i. Prime cont	ractors				
	-		contractors performing		contractors performing	°,	performing work for the		performing w	ork for the				
			work for the U.S.		work for the U.S.		Department of Energy at		Department	of Energy at				
			Department of Energy at		Department of Energy at		U.S. Government-owned		U.S. Governi	ment-owned				
			U.S. Government owned		U.S. Government owned		or -controlled sites,		or -controlled	l sites,				
			or controlled sites,		or controlled sites,		including the		including the					
			including the		including the		transportation of sources		transportatio					
			transportation of sources		transportation of sources		of radiation to or from		of radiation to					
			of radiation to or from		of radiation to or from		such sites and the		such sites an					
			such sites and the		such sites and the		performance of contract		performance					
			performance of contract		performance of contract		services during		services duri					
			services during		services during		temporary interruptions		temporary in					
			temporary interruptions		temporary interruptions		of such transportation;		of such trans	portation;				
			of such transportation;		of such transportation;									
481														
	§1.5.2.2	010	1.5.2.2 Prime	=	1.5.2.2 Prime	~§A.3	ii. Prime contractors of		ii. Prime cont	tractors of				
	§1.5.2.2	919	contractors of the U.S.	-	contractors of the U.S.	~9A.5	the Department of		the Departme					
			Department of Energy		Department of Energy		Energy performing		Energy perfo					
			performing research in,		performing research in,		research in, or		research in.					
			or development,		or development,		development,		development					
			manufacture, storage,		manufacture, storage,		manufacture, storage,		manufacture	,				
			testing, or transportation		testing, or transportation		testing, or transportation		testing, or tra					
			of, atomic weapons or		of, atomic weapons or		of, atomic weapons or		of, atomic we	•				
			components thereof;		components thereof;		components thereof;		components	thereof;				
			-						-					
482									1					
	§1.5.2.3	022	1.5.2.3 Prime	"United States" is	1.5.2.3 Prime	~§A.3	iii. Prime contractors of		iii. Prime con	tractors of				
	81.0.2.0	922	contractors of the U.S.	changed to "U.S."	contractors of the U.S.	-34.3	the Department of		the Departme					
			Department of Energy	for consistency.	Department of Energy		Energy using or		Energy using					
			using or operating	tor consistency.	using or operating		operating nuclear		operating nu					
			nuclear reactors or other		nuclear reactors or other		reactors or other nuclear		reactors or o					
			nuclear devices in a U.S.		nuclear devices in a		devices in a United		devices in a					
			Government owned		United States		States Government-		States Gover					
			vehicle or vessel; and		Government owned		owned vehicle or vessel:		owned vehic					
					vehicle or vessel; and		and		and					
400														
483														

	Α	В	С	D	E	F	G	Н			J	K	L	М
	CCR §	Line	2010-07-01 CCR	Note	2007-08-30 CCR	SSR §	2008-06 SSR draft	SSR Part A	2008-01-04	SSRCR	Cat	RATS	01-01-2009 CFR	2007-12-14 10 CFR
1	Dent 4		effective	2010 07 01 10	A do máo d 07/40/2007	Dert A	Ac of 44 05 0000 me	changes	Den eeneend					Der eeneerdenee hu
2	Part 1 Section		Adopted 10/21/2009, effective 07/01/2010	2010-07-01 vs. prior language	Adopted 07/18/2007, effective 08/30/2007	Part A Section	As of 11-25-2009, no action on 2008 draft	2003-03 v. 2008-06	Per concord Terry Devine					Per concordance by Terry Devine, CRCPD
484	§1.5.2.4	924	1.5.2.4 Any other prime contractor or subcontractor of the U.S. Department of Energy or of the U.S. Nuclear Regulatory Commission when the State and the U.S. Nuclear Regulatory Commission jointly determine that:	=	1.5.2.4 Any other prime contractor or subcontractor of the U.S. Department of Energy or of the U.S. Nuclear Regulatory Commission when the State and the U.S. Nuclear Regulatory Commission jointly determine that:	~§A.3	iv. Any other prime contractor or subcontractor of the Department of Energy or of the Nuclear Regulatory Commission when the State and the Nuclear Regulatory Commission jointly determine:		iv. Any other contractor or subcontractor Department of the Nucle Regulatory (when the Sta Nuclear Reg Commission determine:	r prime or of the of Energy or ar Commission ate and the ulatory				
404	§1.5.2.4	927	(1) The exemption of the	=	(1) The exemption of the	~§A.3	(1) That the exemption		(1) That the	exemption				
105	3		prime contractor or subcontractor is authorized by law; and		prime contractor or subcontractor is authorized by law; and	3, 10	of the prime contractor or subcontractor is authorized by law; and		of the prime or subcontra authorized b	contractor ctor is				
485	§1.5.2.4	928	(2) Under the terms of	=	(2) Under the terms of	~§A.3	(2) That, under the			ler the terms	;			
			the contract or subcontract, there is adequate assurance that the work thereunder can be accomplished without undue risk to the public health and safety.		the contract or subcontract, there is adequate assurance that the work thereunder can be accomplished without undue risk to the public health and safety.		terms of the contract or subcontract, there is adequate assurance that the work thereunder can be accomplished without undue risk to the public health and safety.		of the contra subcontract, adequate as the work the be accompli undue risk to health and s	there is surance that reunder can shed without o the public				
486														
487		931	GENERAL REGULATORY REQUIREMENTS	=	GENERAL REGULATORY REQUIREMENTS		General Regulatory Requirements		General Reg Requiremen	•				
	§1.6	932	1.6 Records.	The text in §1.6 through §1.11 is given subsection numbering.	1.6 Records.	~§A.4	Sec. A.4 - Records. Each licensee and registrant shall maintain records showing the receipt, transfer, and disposal of all sources of radiation. Additional record requirements are specified elsewhere in these regulations.		Sec. A.4 -Re licensee and shall mainta showing the transfer, and all sources of Additional re requirements specified els these regula	in records receipt, I disposal of of radiation. cord s are ewhere in				
488														

	A	В	С	D	E	F	G	Н		J	K	L	М
	CCR §	Line	2010-07-01 CCR	Note	2007-08-30 CCR	SSR §	2008-06 SSR draft	SSR Part A	2008-01-04 SSRCR	Cat	RATS	01-01-2009 CFR	2007-12-14 10 CFR
1	-		effective					changes					
	Part 1		Adopted 10/21/2009,	2010-07-01 vs.	Adopted 07/18/2007,	Part A	As of 11-25-2009, no	2003-03 v.	Per concordance by				Per concordance by
2	Section		effective 07/01/2010	prior language	effective 08/30/2007	Section	action on 2008 draft	2008-06	Terry Devine, CRCPD				Terry Devine, CRCPD
	§1.6.1	933	1.6.1 Each licensee and		Each licensee and	~§A.4							
			registrant shall maintain		registrant shall maintain								
			records showing the		records showing the								
			receipt, transfer, and		receipt, transfer, and								
			disposal of all sources of radiation.		disposal of all sources of radiation. Additional								
					record requirements are								
					specified elsewhere in								
					these regulations.								
					anooo rogalationo.								
400													
489	\$1.6.0	005	1 C O Additional manual	1 10 1		. 64.4							
	§1.6.2	935	1.6.2 Additional record requirements are	1.10.1		~§A.4							
			specified elsewhere in										
490			these regulations.										
490	§1.7	036	1.7 Inspections.		1.7 Inspections.	~§A.5	Sec. A.5 - Inspections.	=	Sec. A.5 -Inspections.				
491	31.7	550				37.5							
	§1.7.1	937	1.7.1 Each licensee and	=	1.7.1 Each licensee and	~§A.5	a. Each licensee and	=	a. Each licensee and				
	-		registrant shall afford the		registrant shall afford the	-	registrant shall afford the		registrant shall afford the	e			
			Department at all		Department at all		Agency at all reasonable		Agency at all reasonable	:			
			reasonable times		reasonable times		times opportunity to		times opportunity to				
			opportunity to inspect		opportunity to inspect		inspect sources of		inspect sources of				
			sources of radiation and		sources of radiation and		radiation and the		radiation and the				
			the premises and facilities wherein such		the premises and facilities wherein such		premises and facilities wherein such sources of		premises and facilities wherein such sources of				
			sources of radiation are		sources of radiation are		radiation are used or		radiation are used or				
			used or stored.		used or stored.		stored.		stored.				
492													
	§1.7.2	940	1.7.2 Each licensee and	=	1.7.2 Each licensee and	~§A.5	b. Each licensee and	=	b. Each licensee and				
			registrant shall make		registrant shall make		registrant shall make		registrant shall make				
			available to the		available to the		available to the Agency		available to the Agency				
			Department for inspection, at all		Department for inspection, at all		for inspection, upon reasonable notice.		for inspection, upon reasonable notice.				
			reasonable times,		reasonable times,		records maintained		records maintained				
			records maintained		records maintained		pursuant to these		pursuant to these				
			pursuant to these		pursuant to these		regulations.		regulations.				
400			regulations.		regulations.		- 3						
493	l		-			Daws							
494						Page A18							
	§1.8	042	1.8 Tests.	=	1.8 Tests.	~§A.6							
490	81.0	942	1.0 10515.	-	1.0 Tests.	~94.0							

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	CCR §	Line	2010-07-01 CCR	Note	2007-08-30 CCR	SSR §	2008-06 SSR draft	SSR Part A	2008-01-04	SSRCR	Cat	RATS	01-01-2009 CFR	2007-12-14 10 CFR
1			effective					changes						
	Part 1		Adopted 10/21/2009,	2010-07-01 vs.	Adopted 07/18/2007,	Part A	As of 11-25-2009, no	2003-03 v.	Per concord					Per concordance by
2	Section		effective 07/01/2010	prior language		Section	action on 2008 draft	2008-06	Terry Devine	e, CRCPD				Terry Devine, CRCPD
	§1.8.1	943		The first	Each licensee and	~§A.6	Sec. A.6 - Tests. Each	=	Sec. A.6 - T					
			registrant shall perform	paragraph in §1.8	registrant shall perform		licensee and registrant		licensee and					
			upon instructions from	is numbered to	upon instructions from		shall perform upon		shall perform	•				
			the Department, or shall permit the Department to		the Department, or shall permit the Department to		instructions from the Agency, or shall permit		instructions Agency, or s					
			perform, such		perform, such		the Agency to perform,		the Agency					
			reasonable tests as the		reasonable tests as the		such reasonable tests as			able tests as				
			Department deems		Department deems		the Agency deems	, 	the Agency					
			appropriate or necessary		appropriate or necessary		appropriate or necessary	,	0,	or necessary				
			including, but not limited		including, but not limited		including, but not limited		including, bu	ut not limited				
			to, tests of:		to, tests of:		to, tests of:		to, tests of:					
496														
490	§1.8.1.1	946	1.8.1.1 Sources of	§1.8.1 is	1.8.1 Sources of	~§A.6	a. Sources of radiation:	=	a. Sources o	of radiation:				
	31.0.1.1	340	radiation;	renumbered to	radiation;	-3 7 .0			a. Sources c	n radiation,				
497			radiation,	§1.8.1.1.										
	§1.8.1.2	947	1.8.1.2 Facilities wherein	•	1.8.2 Facilities wherein	~§A.6	b. Facilities wherein	=	b. Facilities	wherein				
	3	• • •	sources of radiation are	renumbered to	sources of radiation are	3	sources of radiation are		sources of ra					
			used or stored;	§1.8.1.2 and	used or stored;		used or stored;		used or stor	ed;				
498				edited slightly.										
	§1.8.1.3	948	1.8.1.3 Radiation	§1.8.3 is	1.8.3 Radiation detection	~§A.6	c. Radiation detection	=	c. Radiation	detection				
	-		detection and monitoring	renumbered to	and monitoring	-	and monitoring		and monitor	ing				
			instruments; and	§1.8.1.3.	instruments; and		instruments; and		instruments;	and				
499														
	§1.8.1.4	949	1.8.1.4 Other equipment		1.8.4 Other equipment	~§A.6	d. Other equipment and	=	d. Other equ					
			and devices used in	renumbered to	and devices used in		devices used in		devices use					
1			connection with	§1.8.1.4.	connection with		connection with		connection v					
1			utilization or storage of		utilization or storage of		utilization or storage of		utilization or					
			licensed or registered sources of radiation.		licensed or registered sources of radiation.		licensed or registered sources of radiation.		licensed or r	-				
			sources of radiation.		sources of radiation.		sources or radiation.		sources of ra	auiation.				
500	ļ						· · · · · · · · · · · · · · · · · · ·							
		951				~§A.7	Additional Regulatory	=	Additional R					
_			REGULATORY REQUIREMENTS		REGULATORY REQUIREMENTS		Requirements		Requiremen	IS				
501	04.0					0 A 7								
500	§1.9	952	1.9 Additional		1.9 Additional	~§A.7	Sec. A.7 - Additional	=	Sec. A.7 -Ac					
502			Requirements.		Requirements.		Requirements.		Requiremen	ເຮ.				

CCR § Line 2010-07-01 CCR More 2007-08-30 CCR SSR § 2008-06 SSR draft SSR Part A 2008-01-04 SSRCR Carl RATS 01-01-2008 CFR 2007-07 1 Part 1 Adopted 1021/2000, effective 0701/2010 part 4 As of 11-32-2009, no. 2003-05 Per concritance by effective 08/302/2009, no. 2008-05 Per concritance by effective 08/302/2009, no. 2008-05 The Department may, by rule, regulation, and or order. Impose upon any impose upon any increase or registrant such requirements in addition to those established in these established in these established in these established in these established in these established or norders, mercessary to iminimize darger to public health and safety or property. SR Part A such requirements appropriate or nodersary impose upon any license or registrant such requirements in addition to those established in these established in these established in these established in these established in these established in these regulations as it deems appropriate or necessary appropriate or necessary appropriate or necessary and safety or property. Immitted safety or p	A	B	3	С	D	E	F	G	Н			J	K	L	М
Part 1 Adopted 10212000, effective 00710200 2010-07-01 vs. effective 00710200 Adopted 107122007, effective 00710200 Per concordance by action on 2006 addition 2008-06 Per concordance by Per concordance by Per concordance by §1.9 955 18.1 The Department may, by rule, regulation, any loensee or registrant such requirements in addition to those established in these regulations, as it deems appropriate or necessary danger to public health and safety or property. The Approx 107 vs. Fig. 1.1 Adopted 10712007, effective 00702007 Fig. 1.1 503 955 1ENFORCEMENT RECOURREMENTS = The Approx 110 vs. Fig. 1.1 Fig. 1.1	CCR §	§ Line			Note	2007-08-30 CCR	SSR §	2008-06 SSR draft		2008-01-04	SSRCR	Cat	RATS	01-01-2009 CFR	2007-12-14 10 CFR
503 may, by rule, regulation, or order, impose upon any licensee or registrant such requirements in addition to those established in these regulations, as it deems appropriate or necessary to minimize danger to public health and safety or property. rule, regulation, or order, impose upon any licensee or registrant such requirements in addition to those established in these regulations, as it deems appropriate or necessary to minimize danger to public health and safety or property. rule, regulation, or order, impose upon any licensee or registrant such requirements in addition to those established in these regulations, as it deems appropriate or necessary to minimize danger to public health and safety or property. rule, regulation, or order, impose upon any licensee or registrant such requirements in addition to those established in these regulations, as it deems appropriate or necessary to minimize danger to public health and safety or property. 503 96 ENFORCEMENT = ENFORCEMENT FacoulREMENTS FacoulREMENTS 504 968 ENFORCEMENT = 110 Violations. -\$A.8 Sec. A.8 - Violations. = 505 §1.10.1 959 11.01 violations. = 1.10 Violations. -\$A.8 Sec. A.8 - Violations. = 51.0.1 951 1.01 violations. = 1.10 Violations. -\$A.8 Sec. A.8 - Violations. = 51.0.1 951 1.01 violations. = 1.10 Violations. -\$A.8 Sec. A.8 - Violations. = 51.0.1 951<				•				-	2003-03 v.						Per concordance by Terry Devine, CRCPD
504 956 ENFORCEMENT REQUIREMENTS = ENFORCEMENT REQUIREMENTS -§A.8 Enforcement Requirements = Enforcement Requirements 505 §1.10 957 1.10 Violations. = 1.10 Violations. = 1.10 Violations. = SA.8 = Sec. A.8 - Violations. Sec. A.8 - V		9	m oi re re tc tc th di di di	nay, by rule, regulation, or order, impose upon iny licensee or egistrant such equirements in addition to those established in hese regulations, as it leems appropriate or necessary to minimize langer to public health	numbered to	rule, regulation, or order, impose upon any licensee or registrant such requirements in addition to those established in these regulations, as it deems appropriate or necessary to minimize danger to public health and safety		rule, regulation, or order, impose upon any licensee or registrant such requirements in addition to those established in these regulations as it deems appropriate or necessary to minimize danger to public health and safety		rule, regulati impose upor licensee or r such require addition to th established regulations a appropriate to minimize public health	ion, or order, n any registrant mose in these as it deems or necessary danger to				
505 §1.10 957 1.10 Violations. = 1.10 Violations. ~§A.8 §1.10.1 958 1.10.1 An injunction or other court order may be obtained prohibiting any violation of any provision of the Act or any regulation or order issued thereunder. An injunction or order ~§A.8 Sec. A.8 - Violations. An injunction or other court order may be obtained prohibiting any violation of any provision of the Act or any regulation or order issued thereunder. Any person who willfully violates any provision or order result thereunder. Any person who willfully violates any provision or order issued thereunder. Any person who willfully violates any provision or order issued thereunder. Any person who willfully violates any provision of the Act or any regulation or order issued thereunder. Any person who willfully violates any provision of the Act or any regulation or order issued thereunder may be guilty of a misdemeanor and, upon conviction, may be punished by fine or order issued thereunder may be guilty of a [felony, misdemeanor or crime] and, upon conviction, may be punished by fine		9			=		~§A.8		=						
§1.10.1 958 1.10.1 An injunction or other court order may be obtained prohibiting any violation of any provision of the Act or any regulation or order issued thereunder. An injunction or other court order may be obtained prohibiting any violation of any provision of the Act or any regulation or order issued thereunder. An injunction or other court order may be obtained prohibiting any violation of any provision of the Act or any regulation or order issued thereunder. Sec. A.8 - Violations. An injunction or other court order may be obtained prohibiting any violation or order issued thereunder. Any person who willfully violates any provision of the Act or any regulation or order issued thereunder may be guilty of a misdemeanor and, upon conviction, may be punished by fine or imprisonment or both, as An injunction or other court order may be obtained prohibiting any violation of any provision of the Act or any regulation or order issued thereunder. Any person who willfully violates any provision of the Act or any regulation or order issued thereunder may be guilty of a misdemeanor or crime] and, upon conviction, may be punished by fine Sec. A.8 - Violations. An injunction or other court order may be obtained prohibiting any violation of any provision of the Act or any regulation or order issued thereunder may be guilty Sec. A.8 - Violations. An injunction or other court order may be obtained prohibiting any violation of any provision of the Act or any regulation or order issued thereunder may be guilty of a [felony, misdemeanor or crime] and, upon conviction, may be punished by fine	504							Requirements		Requiremen	ts				
Additionally, any person who violates any provision of the Act or any regulation may be subject to a civil penalty as provided for in Part 13 or these regulations.			958 1. of of vi of re	.10.1 An injunction or ther court order may be btained prohibiting any iolation of any provision if the Act or any egulation or order	The text §1.10 is numbered to	An injunction or other court order may be obtained prohibiting any violation of any provision of the Act or any regulation or order issued thereunder. Any person who willfully violates any provision of the Act or any regulation or order issued thereunder may be guilty of a misdemeanor and, upon conviction, may be punished by fine or imprisonment or both, as provided by law. Additionally, any person who violates any provision of the Act or any regulation may be subject to a civil penalty as provided for in Part	~§A.8	An injunction or other court order may be obtained prohibiting any violation of any provision of the Act or any regulation or order issued thereunder. Any person who willfully violates any provision of the Act or any regulation or order issued thereunder may be guilty of a [felony, misdemeanor or crime] and, upon conviction, may be punished by fine or imprisonment or both,		injunction or order may b prohibiting a of any provis Act or any re order issued Any person violates any the Act or ar or order issu thereunder r of a [felony, misdemeand and, upon co may be puni or imprison	other court e obtained iny violation sion of the egulation or I thereunder. who willfully provision of ny regulation ued may be guilty or or crime] onviction, ished by fine nent or both,				

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	CCR §		2010-07-01 CCR	Note	2007-08-30 CCR	SSR §	2008-06 SSR draft	SSR Part A	2008-01-04 SSRCR	Cat	RATS	01-01-2009 CFR	2007-12-14 10 CFR
1			effective					changes					
	Part 1			2010-07-01 vs.	Adopted 07/18/2007,	Part A	As of 11-25-2009, no	2003-03 v.	Per concordance by				Per concordance by
2	Section		effective 07/01/2010	prior language	effective 08/30/2007	Section	action on 2008 draft	2008-06	Terry Devine, CRCPD				Terry Devine, CRCPD
	§1.10.2		1.10.2 Any person who willfully violates any			~§A.8							
			provision of the Act or										
			any regulation or order										
			issued thereunder may										
			be guilty of a										
			misdemeanor and, upon										
			conviction, may be										
			punished by fine or imprisonment or both, as										
			provided by law.										
507													
	§1.10.3		1.10.3 Additionally, any			~§A.8							
			person who violates any provision of the Act or										
			any regulation may be										
			subject to a civil penalty										
			as provided for in Part										
			13 or these regulations.										
508													
	§1.10.4		1.10.4 Submittal of false			~§A.8							
			information shall be										
			sufficient basis for										
			rejecting or revoking any Department license,										
			registration, certification										
			or other acceptance,										
			approval or permit.										
509													
	§1.11	967	1.11 Impounding.	=	1.11 Impounding.	~§A.9							
	§1.11.1	968	1.11.1 Sources of	The text §1.11 is	Sources of radiation	~§A.9	Sec. A.9 - Impounding.	=	Sec. A.9 - Impounding.				
			radiation shall be subject	numbered to	shall be subject to	-	Sources of radiation		Sources of radiation				
			to impounding pursuant	§1.11.1.	impounding pursuant to		shall be subject to		shall be subject to				
			to the Act.		the Act.		impoundment pursuant		impoundment pursuant				
							to [cite appropriate reference.]		to [cite appropriate reference.]				
- 4 4									เอเอเซแปซ.]				
511		000	1 12 Drobibited Llaga	Due hikite -1 11	1 12 Drobibited Llage			+	Coo A 10 Drobibite				
512	§1.12	969	1.12 Prohibited Uses.	Prohibited Uses.	1.12 Prohibited Uses.	≠§A.10	Sec. A.10 - Prohibited Uses.	=	Sec. A.10 - Prohibited Uses.				
512							0363.		0363.	1	l		

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	CCR §	Line	2010-07-01 CCR	Note	2007-08-30 CCR	SSR §	2008-06 SSR draft	SSR Part A	2008-01-04	SSRCR	Cat	RATS	01-01-2009 CFR	2007-12-14 10 CFR
1			effective					changes						
	Part 1		Adopted 10/21/2009,	2010-07-01 vs.	Adopted 07/18/2007,	Part A	As of 11-25-2009, no	2003-03 v.	Per concord					Per concordance by
2	Section		effective 07/01/2010	prior language		Section	action on 2008 draft	2008-06	Terry Devine		1			Terry Devine, CRCPD
	§1.12.1		1.12.1 A radiation	§1.12.1 is	1.12.1 A hand-held	≠§A.10	a. A hand-held	=	a. A hand-h					
			producing machine or		fluoroscopic screen shall not be used with x-ray		fluoroscopic screen shall not be used with x-ray		not be used	screen shall				
			radioactive material shall not be used on a human		equipment unless it has		equipment unless it has			unless it has				
			being except in accord	prohibition is more	been listed in the		been listed in the		been listed i					
			with these regulations.	appropriate in	registry of sealed source		Registry of Sealed		Registry of S					
				Part 6.	and devices or accepted		Source and Devices or		Source and					
					for certification by the		accepted for certification		accepted for	r certification				
					U.S. Food and Drug		by the Food and Drug		by the Food	and Drug				
					Administration, Center		Administration, Center		Administrati					
					for Devices and		for Devices and		for Devices					
					Radiological Health.		Radiological Health.		Radiologica	l Health.				
513														
	§1.12.2	971		The old \$1 12 2 is	1.12.2 A shoe-fitting	≠§A.10	b. A shoe-fitting	=	b. A shoe-fi	ittina				
	5				fluoroscopic device shall	0	fluoroscopic device shall			device shall				
				specific	not be used.		not be used.		not be used					
				prohibition against										
				shoe-fit										
				fluoroscopes is										
				appropriately										
514				moved to Part 6.										
515		971					[Interpretations]	=	[Interpretation	ons]				
		971					[Sec. A.11 -	=	[Sec. A.11 -					
							Interpretations. Except		Interpretatio	•				
							as specifically		as specifica					
							authorized by the		authorized b					
							Agency in writing, no interpretation of these		Agency in w interpretatio	-				
							regulations by an officer			by an officer				
							or employee of the		or employee					
							Agency other than a		Agency othe					
1							written interpretation by		written inter					
1							the legal counsel will be		the legal co					
1							recognized to be binding			to be binding				
1							upon the Agency.]		upon the Ag	ency.]				
E 1 0														
516	2					Dava								
517	,					Page A19								
517		971				A13	Communications	=	Communica	tions				
510	'	9/1					Communications	-	Communica	110115		1		

	А	В	С	D	E	F	G	Н			J	K	L	М
4	CCR §	Line	2010-07-01 CCR	Note	2007-08-30 CCR	SSR §	2008-06 SSR draft	SSR Part A	2008-01-04	SSRCR	Cat	RATS	01-01-2009 CFR	2007-12-14 10 CFR
	Dort 1		effective	2010.07.01.vc	Adapted 07/19/2007	Dort A	Ap of 44 25 2000	changes 2003-03 v.	Doroongard	anaa hu				Der eeneerdenee hu
2	Part 1 Section			2010-07-01 vs. prior language	Adopted 07/18/2007, effective 08/30/2007	Part A Section	As of 11-25-2009, no action on 2008 draft	2003-03 V. 2008-06	Per concord					Per concordance by Terry Devine, CRCPD
		971		1			Sec. A.12 -	=	Sec. A.12 -	,				
							Communications. All		Communica					
							communications and reports concerning these		communicat	ions and erning these				
							regulations, and		regulations,					
							applications filed		applications					
							thereunder, should be		thereunder,					
							addressed to the Agency at its office located at		addressed to at its office I	o the Agency	r			
							[insert appropriate		[insert appro					
EAC							address.]		address.]					
519 520	2	072	SEVERABILITY		SEVERABILITY									
520	§1.13			§1.13 is edited	1.13 Severability.	~§A								
	-		,	and reformatted	,	Ũ								
52 ⁻				slightly.										
	§1.13.1	974	1.13.1 Each provision of		The provisions of parts	~§A								
			a part of these regulations is severable,		of these regulations are severable, and if any									
			and if any provision or		provisions or the									
			the application of the		application of the									
			provision to any		provisions to any									
			circumstance is held invalid, the application of		circumstances is held invalid, the application of									
			such provision to other		such provision to other									
			circumstances, and the		circumstances, and the									
			remainder of the part of		remainder of this									
			these regulations shall		regulation shall not be									
			not be affected thereby.		affected thereby.									
522 523	2													
523	3	~7-		-1-1-4		(0.4.10			0	Late of				
524	1	977		deleted	INFORMATIONAL PROVISIONS	≠§A.13	Sec. A.13 - Units of Exposure and Dose.		Sec. A.13 - Exposure ar					
<u> </u>		977		Much of §1.14 is		≠§A.13								
525	5			deleted.	System of Units (SI).	-								
		977		deleted	For purposes of these									
526	Ď				regulations:									

	A	В	С	D	E	F	G	Н			J	K	L	М
1	CCR §	Line	2010-07-01 CCR effective	Note	2007-08-30 CCR	SSR §	2008-06 SSR draft	SSR Part A changes	2008-01-04	SSRCR	Cat	RATS	01-01-2009 CFR	2007-12-14 10 CFR
1 2	Part 1 Section	97	Adopted 10/21/2009, effective 07/01/2010	2010-07-01 vs. prior language Former Tables 1- 2 and 1-3 are made into new Appendix 1A, Quality Factors, Tables 1A-1 and 1A-2. The other content was informational only, was redundant with the definitions themselves, was added for clarity at the time of a long past (1990s) rule revision, and is unneeded as international system units has become more universally familiar.	Adopted 07/18/2007, effective 08/30/2007 1.14.1 The unit of exposure is the coulomb per kilogram (C/kg) of air. One roentgen is equal to 2.58×10-4 coulomb per kilogram.	Part A Section ≠§A.13	As of 11-25-2009, no action on 2008 draft a. As used in these regulations, the unit of exposure is the coulomb per kilogram (C/kg) of air. One roentgen is equal to 2.58E-4 coulomb per kilogram of air.	2003-03 v. 2008-06	Per concord Terry Devina a. As used i regulations, exposure is per kilogram air. One roe equal to 2.5 coulomb per air.	e, CRCPD n these the unit of the coulomb n (C/kg) of ntgen is 8E-4				Per concordance by Terry Devine, CRCPD
527	,	977	7	deleted	1.14.2 The units of dose		b. As used in these		b. As used i					
528	5				are:		regulations, the units of dose are:		regulations, dose are:	the units of				
529		97	7	deleted	1.14.2.1 gray (Gy) is the SI unit of absorbed dose. One gray is equal to an absorbed dose of 1 joule per kilogram (100 rad).		 Gray (Gy) is the SI unit of absorbed dose. One gray is equal to an absorbed dose of 1 joule per kilogram (100 rad). 		i. Gray (Gy) of absorbed gray is equa absorbed do per kilogram	ll to an ose of 1 joule				
530		977	7	deleted	1.14.2.2 rad is the special unit of absorbed dose. One rad is equal to an absorbed dose of 100 ergs per gram or 0.01 joule per kilogram (0.01 Gy).		ii. Rad is the special unit of absorbed dose. One rad is equal to an absorbed dose of 100 erg per gram or 0.01 joule per kilogram. (0.01 Gy)		ii. Rad is the of absorbed rad is equal absorbed do erg per gran joule per kilo Gy)	dose. One to an ose of 100 n or 0.01				

	A	В	С	D	E	F	G	Н			J	K	L	М
1	CCR §	Line	2010-07-01 CCR effective	Note	2007-08-30 CCR	SSR §	2008-06 SSR draft	SSR Part A changes	2008-01-04	SSRCR	Cat	RATS	01-01-2009 CFR	2007-12-14 10 CFR
2	Part 1 Section		Adopted 10/21/2009, effective 07/01/2010	2010-07-01 vs. prior language	Adopted 07/18/2007, effective 08/30/2007	Part A Section	As of 11-25-2009, no action on 2008 draft	2003-03 v. 2008-06	Per concord Terry Devine					Per concordance by Terry Devine, CRCPD
		977		deleted	1.14.2.3 rem is the special unit of any of the quantities expressed as dose equivalent. The dose equivalent in rem is equal to the absorbed dose in rad multiplied by the quality factor (1 rem = 0.01 Sv).	6	iii. Rem is the special unit of any of the quantities expressed as dose equivalent. The dose equivalent in rem is equal to the absorbed dose in rad multiplied by the quality factor. (1 rem = 0.01 Sv)		iii. Rem is th unit of any o quantities ex dose equiva dose equiva equal to the dose in rad	e special of the opressed as lent. The lent in rem is				
531														
		977		deleted	1.14.2.4 sievert is the SI unit of any of the quantities expressed as dose equivalent. The dose equivalent in sievert is equal to the absorbed dose in gray multiplied by the quality factor (1 Sv = 100 rem).		iv. Sievert is the SI unit of any of the quantities expressed as dose equivalent. The dose equivalent in sievert is equal to the absorbed dose in gray multiplied by the quality factor. (1 Sv = 100 rem)		iv. Sievert is of any of the expressed a equivalent. equivalent ir equal to the dose in gray by the qualit Sv = 100 ren	e quantities s dose The dose n sievert is absorbed multiplied y factor. (1				
532														
533							c. As used in these regulations, the quality factors for converting absorbed dose to dose equivalent are shown in Table I:		c. As used in regulations, factors for c absorbed do equivalent a Table I:	the quality onverting ose to dose				
		Page												
534 535	1A	10-27 978	PART 1, APPENDIX 1A: QUALITY FACTORS	moved from "weighting factor" definition										
	1A.1	979	1A.1 Table 1A-1 lists the quality factors for converting absorbed dose in gray equal to 1 Sv or the absorbed dose in rad equal to 1 rem.		1.14.3 The quality factors for converting absorbed dose to dose equivalent are shown in Table 1-2.		TABLE I		TABLE I					
536														
507		980	TABLE 1A-1: QUALITY FACTORS AND ABSORBED DOSE EQUIVALENCIES		TABLE 1-2: QUALITY FACTORS AND ABSORBED DOSE EQUIVALENCIES		QUALITY FACTORS AND ABSORBED DOSE EQUIVALENCIES		QUALITY FA AND ABSOI EQUIVALEN	RBED DOSE				
537			EQUIVALENCIES		EQUIVALENCIES									

	A	В	С	D	E	F	G	Н	I	J	K	L	М
	CCR §	Line	2010-07-01 CCR	Note	2007-08-30 CCR	SSR §	2008-06 SSR draft	SSR Part A	2008-01-04 SSRCR	Cat	RATS	01-01-2009 CFR	2007-12-14 10 CFR
1			effective					changes					
	Part 1		Adopted 10/21/2009,	2010-07-01 vs.	Adopted 07/18/2007,	Part A	As of 11-25-2009, no	2003-03 v.	Per concordance by				Per concordance by
2	Section		effective 07/01/2010	prior language	effective 08/30/2007	Section	action on 2008 draft	2008-06	Terry Devine, CRCPD				Terry Devine, CRCPD
	1	980	Type of radiation Quality		Type of radiation Quality		Type of Radiation		Type of Radiation				
			factor (Q) Absorbed		factor (Q) Absorbed		Quality Factor (Q)		Quality Factor Absorbed				
			dose equal to a unit		dose equal to a unit		Absorbed Dose Equal		Dose (Q) Equal to a Unit				
			dose equivalent		dose equivalent9		to a Unit Dose		Dose Equivalenta/				
538							Equivalenta/						
		980	X, gamma, or beta		X, gamma, or beta		X, gamma, or beta		X, gamma, or beta				
			radiation and high-speed		radiation and high-speed		radiation and high-speed		radiation and high-speed				
539			electrons 1 1		electrons 1 1		electrons 1 1		1 1 electrons				
	1	980	Alpha particles, multiple-		Alpha particles, multiple-		Alpha particles, multiple-		Alpha particles, multiple-				
			charged particles, fission		charged particles, fission		charged particles,		charged20 0.05				
			fragments and heavy		fragments and heavy		fission fragments and		particles, fission				
			particles of unknown		particles of unknown		heavy particles of		fragments and heavy				
			charge 20 0.05		charge 20 0.05		unknown charge 20		particles of unknown				
540							0.05		charge				
	1	980	Neutrons of unknown		Neutrons of unknown		Neutrons of unknown		Neutrons of unknown				
541			energy 10 0.1		energy 10 0.1		energy 10 0.1		energy				
		980	High-energy protons 10		High-energy protons 10		High-energy protons 10		High-energy protons				
542			0.1		0.1		0.1						
		980)	The footnote is	9 Absorbed dose in gray		a/ Absorbed dose in		a/ Absorbed dose in				
				deleted here. The	equal to 1 Sv or the		gray equal to 1 Sv or the		gray equal to 1 Sv or the				
				contents are	absorbed dose in rad		absorbed dose in rad		absorbed dose in rad				
				added to the table	equal to 1 rem.		equal to 1 rem.		equal to 1 rem.				
543				header.									
544													

	Α	В	С	D	E	F	G	Н			J	K	L	М
	CCR §	Line	2010-07-01 CCR	Note	2007-08-30 CCR	SSR §	2008-06 SSR draft	SSR Part A	2008-01-04	SSRCR	Cat	RATS	01-01-2009 CFR	2007-12-14 10 CFR
1	•		effective			Ŭ		changes						
	Part 1		Adopted 10/21/2009,	2010-07-01 vs.	Adopted 07/18/2007,	Part A	As of 11-25-2009, no	2003-03 v.	Per concord	ance by				Per concordance by
2	Section		effective 07/01/2010	prior language	effective 08/30/2007	Section	action on 2008 draft	2008-06	Terry Devine	e, CRCPD				Terry Devine, CRCPD
	1A.2	981	1A.2 If it is more		1.14.4 If it is more		d. If it is more		d. If it is more	re				
			convenient to measure		convenient to measure		convenient to measure		convenient t					
			the neutron fluence rate		the neutron fluence rate		the neutron fluence rate			fluence rate				
			than to determine the		than to determine the		than to determine the		than to dete					
			neutron dose equivalent		neutron dose equivalent		neutron dose equivalent			e equivalent				
			rate in sievert per hour		rate in sievert per hour		rate in sievert per hour		rate in sieve	•				
			or rem per hour, 0.01 Sv (1 rem) of neutron		or rem per hour, as provided in 1.14.3, 0.01		or rem per hour, as provided in A.13c. 0.01		or rem per h provided in <i>i</i>					
			radiation of unknown		Sv (1 rem) of neutron		Sv (1 rem) of neutron		Sv (1 rem) c					
			energies may be		radiation of unknown		radiation of unknown		radiation of					
			assumed to result from a		energies may be		energies may, for		energies ma					
			total fluence of 25 million		assumed to result from a		purposes of these		purposes of					
			neutrons per square		total fluence of 25 million		regulations, be assumed			be assumed				
			centimeter incident upon		neutrons per square		to result from a total		to result from					
			the body. If sufficient		centimeter incident upon		fluence of 25 million		fluence of 2	5 million				
			information exists to		the body. If sufficient		neutrons per square		neutrons pe	r square				
			estimate the		information exists to		centimeter incident upon			ncident upon				
			approximate energy		estimate the		the body. If sufficient		the body. If					
			distribution of the		approximate energy		information exists to		information					
			neutrons, the licensee or		distribution of the		estimate the		estimate the					
			registrant may use the		neutrons, the licensee or		approximate energy		approximate					
			fluence rate per unit		registrant may use the		distribution of the		distribution of					
			dose equivalent or the		fluence rate per unit		neutrons, the licensee or			e licensee or				
			appropriate Q value from		dose equivalent or the		registrant may use the		registrant m	•				
			Table 1A-2 to convert a measured tissue dose in		appropriate Q value from Table 1-3 to convert a		fluence rate per unit dose equivalent or the		fluence rate dose equiva	•				
			gray or rad to dose		measured tissue dose in		appropriate Q value from			Q value from				
			equivalent in sievert or		gray or rad to dose		Table II to convert a		Table II to c					
			rem.		equivalent in sievert or		measured tissue dose in			ssue dose in				
					rem.		gray or rad to dose		gray or rad t					
							equivalent in sievert or		equivalent in					
							rem.		rem.					
									-					
545														
546		987					TABLE II		TABLE II					
		987	TABLE 1A-2: MEAN		TABLE 1-3: MEAN		MEAN QUALITY		MEAN QUA	LITY				
			QUALITY FACTORS (Q)		QUALITY FACTORS (Q)		FACTORS, Q, AND		FACTORS,					
			AND FLUENCE PER		AND FLUENCE PER		FLUENCE PER UNIT		FLUENCE F					
			UNIT DOSE		UNIT DOSE		DOSE EQUIVALENT		DOSE EQU	IVALENT				
			EQUIVALENT FOR		EQUIVALENT FOR		FOR		FOR					
			MONOENERGETIC		MONOENERGETIC		MONOENERGETIC		MONOENEI					
547			NEUTRONS		NEUTRONS		NEUTRONS		NEUTRONS	6				

	A	В	С	D	E	F	G	Н			J	K	L	М
1	CCR §	Line	2010-07-01 CCR effective	Note	2007-08-30 CCR	SSR §	2008-06 SSR draft	SSR Part A changes	2008-01-04	SSRCR	Cat	RATS	01-01-2009 CFR	2007-12-14 10 CFR
	Part 1		Adopted 10/21/2009,	2010-07-01 vs.	Adopted 07/18/2007,	Part A	As of 11-25-2009, no	2003-03 v.	Per concord	ance by				Per concordance by
2	Section		effective 07/01/2010	prior language	effective 08/30/2007	Section	action on 2008 draft	2008-06	Terry Devine					Terry Devine, CRCPD
		987	Neutron energy (MeV)		Neutron energy (MeV)		NeutronEnergy(MeV)			ality Factora/				
			Quality factor ⁶ (Q)		Quality factor10 (Q)		Quality Factora/ (Q)		Fluence per					
			Fluence per unit dose		Fluence per unit dose		Fluence per Unit Dose			Unit Energy				
			equivalent ⁷ (neutrons		equivalent11 (neutrons		Equivalentb/(Neutrons		(Q) Dose Ec					
			cm-2 rem-1) Fluence per	r	cm-2 rem-1) Fluence per unit dose equivalent11		cm-2 rem -1) Fluence per Unit Dose		Dose Equiva (Neutrons c					
			unit dose equivalent ⁷		(neutrons cm-2 Sv-1)		Equivalentb/ (Neutrons		(Neutrons c					
			(neutrons cm-2 Sv-1)				cm-2 Sv-1)			11-2 0 - 1)				
548							,							
- 40		987	2.5×10-8 (thermal) 2		2.5×10-8(thermal) 2		(thermal) 2.5E-8 2		(thermal) 2.					
549			980×106 980×108		980×106 980×108		980E+6 980E+8		980E+6 980					
550		987	1×10-7 2 980×106 980×108		1×10-7 2 980×106 980×108		1E-7 2 980E+6 980E+8		1E-7 2 980E	+6 980E+8				
550		007	1×10-6 2 810×106											
551		987	1×10-62810×106 810×108		1×10-6 2 810×106 810×108		1E-6 2 810E+6 810E+8		1E-6 2 810E	+0 010E+8				
551		0.07	1×10-5 2 810×106		1×10-5 2 810×106		1E-5 2 810E+6		1E-5 2 810E					
552		907	810×108		810×108		810E+8		1E-5 2 010E	+0 010E+0				
552		087	1×10-4 2 840×106		1×10-4 2 840×106		1E-4 2 840E+6		1E-4 2 840E	+6 840E+8				
553		907	840×108		840×108		840E+8		1L-4 2 040L	-+0 0402+0				
000		987	1×10-3 2 980×106		1×10-3 2 980×106		1E-3 2 980E+6		1E-3 2 980E	+6 980E+8				
554		507	980×108		980×108		980E+8		1E-0 2 000E					
		987	1×10-2 2.5 1010×106		1×10-2 2.5 1010×106		1E-2 2.5 1010E+6		1E-2 2.5 10	10F+6				
555		001	1010×108		1010×108		1010E+8		1010E+8	102.0				
		987	1×10-1 7.5 170×106		1×10-1 7.5 170×106		1E-1 7.5 170E+6		1E-1 7.5 17	DE+6				
556			170×108		170×108		170E+8		170E+8					
		987	5×10-1 11 39×106		5×10-1 11 39×106		5E-1 11 39E+6 39E+8		5E-1 11 39E	+6 39E+8				
557			39×108		39×108									
		987	1 11 27×106 27×108		1 11 27×106 27×108		1 11 27E+6 27E+8		1 11 27E+6	27E+8				
558														
		987	2.5 9 29×106 29×108		2.5 9 29×106		2.5 9 29E+6 29E+8		2.5 9 29E+6	29E+8				
559					29×108									
		987	5 8 23×106 23×108		58 23×106 23×108		5 8 23E+6 23E+8		5 8 23E+6 2	3E+8				
560														
_		987	7 7 24×106 24×108		77 24×106 24×108		7 7 24E+6 24E+8		7 7 24E+6 2	4E+8				
561														
		987	10 6.5 24×106 24×108		10 6.5 24×106		10 6.5 24E+6 24E+8		10 6.5 24E+	6 24E+8				
562					24×108				· · ·					
		987	14 7.5 17×106 17×108		14 7.5 17×106		14 7.5 17E+6 17E+8		14 7.5 17E+	6 17E+8				
563			00.0.40.400.40.400		17×108				00.0.105.0	405.0				
564		987	20 8 16×106 16×108		20 8 16×106 16×108		20 8 16E+6 16E+8		20 8 16E+6	10E+8				
564		007								140-0				
565		987	40 7 14×106 14×108		40 7 14×106 14×108		40 7 14E+6 14E+8		40 7 14E+6	14E+ŏ				
505		097	60 5.5 16×106 16×108		60 5.5 16×106		60 5.5 16E+6 16E+8		60 5.5 16E+	6 165-9				
566		907			16×108		00 0.0 10270 10270		00 5.5 TOE+					
000		087	100 4 20×106 20×108		100 4 20×106 20×108		1E+2 4 20E+6 20E+8		1E+2 4 20E	+6 20E+8				
567		907	100 4 200 100 200 100		200100 200100		1L'2 7 20LTU 20LTO		1L12 4 20E					
007		1				1			1		1			

	A	В	С	D	E	F	G	Н	I	J	K	L	М
1	CCR §		2010-07-01 CCR effective	Note	2007-08-30 CCR	SSR §	2008-06 SSR draft	SSR Part A changes	2008-01-04 SSRCR	Cat	RATS	01-01-2009 CFR	2007-12-14 10 CFR
2	Part 1 Section		Adopted 10/21/2009, effective 07/01/2010	2010-07-01 vs. prior language	Adopted 07/18/2007, effective 08/30/2007	Part A Section	As of 11-25-2009, no action on 2008 draft	2003-03 v. 2008-06	Per concordance by Terry Devine, CRCPD				Per concordance by Terry Devine, CRCPD
568		987	200 3.5 19×106 19×108		200 3.5 19×106 19×108		2E+2 3.5 19E+6 19E+8		2E+2 3.5 19E+6 19E+8				
569		987	300 3.5 16×106 16×108		300 3.5 16×106 16×108		3E+2 3.5 16E+6 16E+8		3E+2 3.5 16E+6 16E+8				
570			400 3.5 14×106 14×108		400 3.5 14×106 14×108		4E+2 3.5 14E+6 14E+8		4E+2 3.5 14E+6 14E+8				
			⁶ Value of quality factor (Q) at the point where the dose equivalent is maximum in a 30- centimeter diameter cylinder tissue- equivalent phantom.		¹⁰ Value of quality factor (Q) at the point where the dose equivalent is maximum in a 30- centimeter diameter cylinder tissue- equivalent phantom.		a/ Value of quality factor (Q) at the point where the dose equivalent is maximum in a 30- centimeter diameter cylinder tissue- equivalent phantom.		a/ Value of quality factor (Q) at the point where the dose equivalent is maximum in a 30- centimeter diameter cylinder tissue- equivalent phantom.				
571													
572			⁷ Monoenergetic neutrons incident normally on a 30- centimeter diameter cylinder tissue- equivalent phantom.		¹¹ Monoenergetic neutrons incident normally on a 30- centimeter diameter cylinder tissue- equivalent phantom.		b/ Monoenergetic neutrons incident normally on a 30- centimeter diameter cylinder tissue- equivalent phantom.		b/ Monoenergetic neutrons incident normally on a 30- centimeter diameter cylinder tissue- equivalent phantom.				
573		Page 1-30			<u> </u>								
574			PART 1, APPENDIX 1B: ORGAN DOSE WEIGHTING FACTORS										
575			Organ Or Tissue WT										
576			Gonads 0.25										
577			Breast 0.15 Red Bone Marrow 0.12										
578		552											
579	1	992	Lung 0.12										
580	1		Thyroid 0.03										
581			Bone Surfaces 0.03										
582			Remainder9 0.30										
583			Whole Body10 1.00										
584			⁸ 0.30 results from 0.06 for each of 5 "remainder" organs, excluding the skin and the lens of the eye, that receive the highest doses.	Former footnote 9 is incorporated into the text introducing Table 1A-1.		≠§A.13							

	A	В	С	D	E	F	G	Н			J	K	L	М
1	CCR §		2010-07-01 CCR effective	Note	2007-08-30 CCR	SSR §	2008-06 SSR draft	SSR Part A changes	2008-01-04	SSRCR	Cat	RATS	01-01-2009 CFR	2007-12-14 10 CFR
2	Part 1 Section		effective 07/01/2010	2010-07-01 vs. prior language	Adopted 07/18/2007, effective 08/30/2007	Part A Section	As of 11-25-2009, no action on 2008 draft	2003-03 v. 2008-06	Per concord Terry Devin					Per concordance by Terry Devine, CRCPD
			⁹ For the purpose of weighting the external whole body dose, for adding it to the internal dose, a single weighting factor, wT = 1.0, has been specified. The use of other weighting factors for external exposure will be approved on a case by case basis until such time as specific guidance is issued.			≠§A.13								
585	5			deleted as	1.14.5 Units of activity.	≠§A.14								
586	6			unneeded										
				deleted as unneeded	For purposes of these regulations, activity is expressed in the SI unit of becquerel (Bq) or in the special unit of curie (Ci), or their multiples, or disintegrations or transformations per unit of time.	≠§A.14	Sec. A.14 - Units of Activity. For purposes of these regulations, activity is expressed in the SI unit of becquerel (Bq) or in the special unit of curie (Ci), or their multiples, or disintegrations or transformations per unit of time.		these regula activity is ex- the SI unit of (Bq) or in th of curie (Ci) multiples, o disintegratio	r purposes of ations, kpressed in of becquerel le special unit , or their r				
587	7													
				deleted as unneeded	1.14.5.1 One becquerel (Bq) = 1 disintegration per second or transformation per second (dps or s-1).	≠§A.14	 a. One becquerel (Bq) = 1 disintegration or transformation per second (dps or tps). 		a. One becc 1 disintegra transformat second (dps	ion per				
588	3													
589				deleted as unneeded	1.14.5.2 One curie (Ci) = 3.7×1010 disintegrations per second or transformations per second (dps or s-1) = 3.7×1010 becquerel (Bq) = 2.22×1012 disintegrations per minute (dpm).		b. One curie (Ci) = 3.7E+10 disintegrations or transformations per second (dps or tps) = 3.7E+10 becquerel (Bq) = 2.22E+12 disintegrations or transformations per minute (dpm or tpm).		or transform second (dps	sintegrations nations per s or tps) = cquerel (Bq) ons or ions per				

	A	В	С	D	E	F	G	Н		J	K	L	М
1	CCR §	Line	2010-07-01 CCR effective	Note	2007-08-30 CCR	SSR §	2008-06 SSR draft	SSR Part A changes	2008-01-04 SSRCR	Cat	RATS	01-01-2009 CFR	2007-12-14 10 CFR
2	Part 1 Section		Adopted 10/21/2009, effective 07/01/2010	2010-07-01 vs. prior language	Adopted 07/18/2007, effective 08/30/2007	Part A Section	As of 11-25-2009, no action on 2008 draft	2003-03 v. 2008-06	Per concordance by Terry Devine, CRCPD				Per concordance by Terry Devine, CRCPD
590	prior 1A			The appendix regarding qualifications to be a Colorado "qualified expert" is moved to Part 2, Appendix 2C.	PART 1, APPENDIX 1A: QUALIFIED EXPERT (QE) ADEQUATE RADIATION SAFETY TRAINING AND EXPERIENCE								
	prior 1A			moved to 2C	The applicant, licensee, or registrant shall require each qualified expert (having demonstrated the knowledge and training to measure ionizing radiation, to evaluate radiation safety techniques, and to advise regarding radiation protection needs) to be an individual who:								
591	prior 1A			moved to 2C	1A.1 Has provided								
592					evidence of:								
593	prior 1A			moved to 2C	1A.1.1 Current certification by:								
594	prior 1A			moved to 2C	(1) The American Board of Health Physics; or								
	prior 1A			moved to 2C	(2) The American Board of Medical Physics; or								
595 596	prior 1A			moved to 2C	(3) The Canadian College of Medical Physics; or								
	prior 1A			moved to 2C	(4) The American Board of Radiology in a radiological physics category; or								
	prior 1A			moved to 2C	(5) American Board of Nuclear Medicine Science; or								

	A	В	С	D	E	F	G	Н	I	J	K	L	М
1	CCR §	Line	2010-07-01 CCR effective	Note	2007-08-30 CCR	SSR §	2008-06 SSR draft	SSR Part A changes	2008-01-04 SSRCR	Cat	RATS	01-01-2009 CFR	2007-12-14 10 CFR
2	Part 1 Section		Adopted 10/21/2009, effective 07/01/2010	2010-07-01 vs. prior language		Part A Section	As of 11-25-2009, no action on 2008 draft	2003-03 v. 2008-06	Per concordance by Terry Devine, CRCPD				Per concordance by Terry Devine, CRCPD
599	prior 1A			moved to 2C	(6) A recognized specialty board that requires each candidate for certification to:								
600	prior 1A			moved to 2C	(a) Satisfactorily complete a certification process that includes sufficient training and supervised practical experience equivalent to 1A.2.2; and								
800	prior 1A			moved to 2C	(b) Pass an examination, administered by diplomates of the specialty board, which tests knowledge and competence in radiological physics, radiation safety, and quality assurance; and								
601													
	prior 1A			moved to 2C	1A.1.2 Having received approval from the Department to perform the task(s) for which the individual is requesting authorization as a qualified expert, including, but not limited to, pursuant to 2.4.2 for servicing and services as stated in 2.4.2.1:								
602	prior 1A			moved to 2C	(1) Approval as a								
0.00					qualified expert for radiography (excluding radiotherapy), designated QE(R); or								
603	5												

	Α	В	С	D	E	F	G	Н	I		J	K	L	М
	CCR §	Line	2010-07-01 CCR	Note	2007-08-30 CCR	SSR §	2008-06 SSR draft	SSR Part A	2008-01-04 SSR	CR	Cat	RATS	01-01-2009 CFR	2007-12-14 10 CFR
1			effective					changes						
	Part 1		Adopted 10/21/2009,	2010-07-01 vs.		Part A	As of 11-25-2009, no	2003-03 v.	Per concordance					Per concordance by
2	Section		effective 07/01/2010	prior language		Section	action on 2008 draft	2008-06	Terry Devine, CR	RCPD				Terry Devine, CRCPD
	prior 1A			moved to 2C	(2) Approval as a									
					qualified expert in radiation therapy,									
					designated QE(T), with									
					training and experience									
					in the clinical									
					applications of radiation									
					physics to radiation									
					therapy, for example,									
					consistent with Appendix 20B;									
604	ł				200,									
605	prior 1A			moved to 2C	or									
	prior 1A			moved to 2C	1A.2 Has provided									
					written documentation									
606					that the individual:									
	prior 1A			moved to 2C	1A.2.1 Holds a master's or doctor's degree from									
					an accredited college or									
					university in physics,									
					biophysics, radiological									
					physics, health physics,									
					or medical physics; and									
607														
	prior 1A			moved to 2C	1A.2.2 Has satisfactorily									
					completed 2 years of									
					training and work experience acceptable to									
					the Department that									
					include:									
608	3													
	prior 1A			moved to 2C	(1) One year of									
	ľ				documented, full-time									
					training in the									
609)				appropriate field; and									

	A	В	С	D	E	F	G	Н	I	J	K	L	М
	CCR §	Line	2010-07-01 CCR	Note	2007-08-30 CCR	SSR §	2008-06 SSR draft	SSR Part A	2008-01-04 SSRCR	Cat	RATS	01-01-2009 CFR	2007-12-14 10 CFR
1			effective					changes					
	Part 1		Adopted 10/21/2009,	2010-07-01 vs.	Adopted 07/18/2007,	Part A	As of 11-25-2009, no	2003-03 v.	Per concordance by				Per concordance by
2	Section		effective 07/01/2010	prior language	effective 08/30/2007	Section	action on 2008 draft	2008-06	Terry Devine, CRCPD				Terry Devine, CRCPD
	prior 1A			moved to 2C	(2) One additional year of documented, full-time								
					practical experience,								
					under the supervision of								
					a qualified expert in the								
					appropriate field,								
					including having								
					performed the task(s)								
					required of a qualified								
					expert; and								
610													
010	prior 1A			moved to 2C	1A.2.3 Has also satisfied								
611				1110000 10 20	1A.1.2.								
612	prior 1A			moved to 2C	or								
012	prior 1A			moved to 20	1A.3 Has adequate prior								
				1110160 10 20	experience as an								
					experienced qualified								
					expert who has satisfied								
					1A.1.2 and 1A.2.1 and								
					demonstrated to the								
					Department sufficient								
					experience in the task(s)								
					required of a qualified								
					expert for which the								
					individual is requesting								
					authorization to be a								
					qualified expert.								
613													
010	1	1				1							