

Requirement status	Requirement id	Implmtng owner	Implementing document id	Revision/ Effective	Implmtng status	Implementing requirement id
C	1.1	OQA	DOE/RW-0333P QARD	O	C	INTRODUCTION :5p
C	1.2	OQA	DOE/RW-0333P QARD	O	C	1.2
				O		1.2.1
				O		1.2.2 :1s
				O		1.2.2 :2s
				O		1.2.2 :3sA.
				O		1.2.2 :3sB.
				O		1.2.2 :3sC.
				O		1.2.2 :3sD.
				O		1.2.2 :3sE.
				O		1.2.2 :3sF.
				O		1.2.2 :3sG.
				O		1.2.2 :3sH.
C	1.3	OQA	DOE/RW-0333P QARD	O	C	1.2.2 :1s
				O		1.2.2 :2s
				O		1.2.2 :3sA.
				O		1.2.2 :3sB.
				O		1.2.2 :3sC.
				O		1.2.2 :3sD.
				O		1.2.2 :3sE.
				O		1.2.2 :3sF.
				O		1.2.2 :3sG.
				O		1.2.2 :3sH.
C	1.4 (a)	OQA	DOE/RW-0333P QARD	O	C	1.2.2 :3sG.
C	1.4 (b)	OQA	DOE/RW-0333P QARD	O	C	1.3.2B.1. :2s
C	1.5	OQA	DOE/RW-0333P QARD	O	C	1.2.4 :1s
				O		1.2.4 :2s
				O		2.2.2B. :1s
				O		4.2.1C.1. :1s
				O		4.2.1C.1. :2s
				O		4.2.1C.2. :1s
				O		4.2.1C.3. :2s
				O		NRC-RP NOTE 1.1
C	1.6 :1s	OQA	DOE/RW-0333P QARD	Dec 92	C	1.2
				O		1.2.3 :1s
				O		1.2.3 :2s
C	1.6 :2s	OQA	DOE/RW-0333P QARD	O	C	1.3.1A. :1s
				O		1.3.1A. :2s
				O		1.3.1A. :3s
				O		1.3.1A. :4s

Enclosure 2

Requirement status	Requirement id	Implmtng owner	Implementing document id	Revision/ Effective	Implmtng status	Implementing requirement id
C	1.6 :2s	OQA	DOE/RW-0333P QARD	O	C	1.3.1A. :5s 1.3.1B. 1.3.1B.1. 1.3.1B.2. 1.3.3A.2. :3sa. 1.3.3A.2. :3sb. 1.3.3A.2. :3sc. 1.3.3B. :1s 1.3.3B. :2s 1.3.3B. :3s 1.3.3C. 1.3.3D.
C	1.7 :1s	OQA	DOE/RW-0333P QARD	O	C	7.2.4A. :1s
C	1.7 :2s	OQA	DOE/RW-0333P QARD	O	C	7.2.4C. :2s 18.2.2A. :1s
C	1.7 :3s	OQA	DOE/RW-0333P QARD	O	C	18.2.2C. :1s 18.2.2E. :1s 18.2.2E. :2s1. 18.2.2E. :2s2. 18.2.2E. :2s3. 18.2.2E. :2s4.
C	1.8	OQA	DOE/RW-0333P QARD	O	C	1.2.4 :1s 1.2.4 :2s
C	1.9	OQA	DOE/RW-0333P QARD	O	C	1.2
C	1.10	OQA	DOE/RW-0333P QARD	O	C	1.3.1A. :5s
C	1.11 :1s	OQA	DOE/RW-0333P QARD	O	C	1.3.2B.1. :1s 1.3.2B.1. :2s 1.3.2B.2. 2.2.3A.
C	1.11 :2s	OQA	DOE/RW-0333P QARD	O	C	2.2.3A. 2.2.3A.1. 2.2.3A.2. 2.2.3A.3. 2.2.3A.4. 2.2.3A.5. 2.2.3A.6. 2.2.3A.7. 2.2.3B. 2.2.3C. :1s 2.2.3C. :2s

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C	1.11 :2s	OQA	DOE/RW-0333P QARD	O	C	2.2.3D. 2.2.3E. 2.2.3F.1. 2.2.3F.2. 2.2.3F.3. 2.2.3F.4. 2.2.3F.5. 2.2.3F.6. 2.2.3F.7. 2.2.3F.8. 2.2.3F.9. 2.2.3F.10.
C	1.12	OQA	DOE/RW-0333P QARD	O	C	1.2 1.2.4 :1s 1.2.4 :2s
C	1.13 :1s	OQA	DOE/RW-0333P QARD	O	C	1.2.2 :1s
C	1.13 :2sa.	OQA	DOE/RW-0333P QARD	O	C	1.2.2 :2s 1.2.2 :3sA.
C	1.13 :2sb.	OQA	DOE/RW-0333P QARD	O	C	1.2.2 :2s 1.2.2 :3sC.
C	1.13 :2sc.	OQA	DOE/RW-0333P QARD	O	C	1.2.2 :2s 1.2.2 :3sD.
C	1.13 :2sd.	OQA	DOE/RW-0333P QARD	O	C	1.2.2 :2s 1.2.2 :3sE.
C	1.14 :1pa.	OQA	DOE/RW-0333P QARD	O	C	1.2.2 :3sF. 16.2.1 16.2.3A. 16.2.4B. 18.2.5 :2s
C	1.14 :1pb.	OQA	DOE/RW-0333P QARD	O	C	1.2.2 :3sF. 16.2.3C. 16.2.4D. 16.2.4E. :1s 16.2.4E. :2s 18.2.5 :2s
C	1.14 :1pc.	OQA	DOE/RW-0333P QARD	O	C	1.2.2 :3sF. 16.2.5 18.2.5 :2s
C	1.14 :1pd.			O		

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C	1.14 :1pd.	OQA	DOE/RW-0333P QARD	O	C	1.2.2 :3sH.
		OQA	DOE/RW-0333P QARD	O	C	15.2.1F.
				O		16.2.4C.
				O		16.2.4C.1.
				O		16.2.4C.2.
C	1.14 :2p	OQA	DOE/RW-0333P QARD	O	C	1.2.2 :1s
				O		1.2.2 :2s
				O		1.2.2 :3sA.
				O		1.2.2 :3sB.
				O		1.2.2 :3sC.
				O		1.2.2 :3sD.
				O		1.2.2 :3sE.
				O		1.2.2 :3sF.
				O		1.2.2 :3sG.
				O		1.2.2 :3sH.
C	1.15	OQA	DOE/RW-0333P QARD	O	C	1.2.5
C	1.16	OQA	DOE/RW-0333P QARD	O	C	2.2.2A.
C	1.17 :1s	OQA	DOE/RW-0333P QARD	O	C	1.2.5
			OSC LTR TO NRC (12/18/92)	Dec 92		NRC-RP NOTE 1.2
C	1.17 :2s	OQA	DOE/RW-0333P QARD	O	C	1.2.5
			OSC LTR TO NRC (12/18/92)	Dec 92		NRC-RP NOTE 1.2
C	2.1 :a	OQA	DOE/RW-0333P QARD	O	C	FIG.ii-1
C	2.1 :b	OQA	DOE/RW-0333P QARD	O	C	FIG.ii-1
C	2.2 :1s	OQA	DOE/RW-0333P QARD	O	C	FIG.ii-1
C	2.2 :2s	OQA	DOE/RW-0333P QARD	O	C	FIG.ii-1
C	2.3	OQA	DOE/RW-0333P QARD	O	C	2.2.2A.
				O		2.2.2B. :1s
				O		2.2.11 :1s
				O		2.2.11 :2sA.
				O		2.2.11 :2sB.
				O		2.2.11 :2sC.
				O		2.2.11 :2sD.
				O		2.2.11 :2sE.
				O		2.2.11 :2sF.
				O		2.2.11 :2sG.
				O		2.2.11 :2sH.
				O		2.2.11 :2sI.
				O		2.2.11 :2sJ.1.



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C	2.9	OQA	DOE/RW-0333P QARD	O	C	2.2.4 :2sI. I.1
C	2.10	OQA	DOE/RW-0333P QARD	O	C	5.2.2B. 6.2.1
C	2.11	OQA	DOE/RW-0333P QARD	O	C	2.2.9E.1. :1s 2.2.9E.1. :2s 2.2.9E.2. :1s 2.2.9E.2. :2s 6.2.3
C	2.12 :1s	OQA	DOE/RW-0333P QARD	O	C	2.2.6 2.2.6A. 2.2.6B.1. 2.2.6B.2. 2.2.6B.3. 2.2.6B.4. 2.2.6B.5. 2.2.10A. 2.2.10B.
C	2.12 :2sa.	OQA	DOE/RW-0333P QARD	O	C	2.2.10A. 2.2.10B. 18.2.8 :1s 18.2.9
C	2.12 :2sb.	OQA	DOE/RW-0333P QARD	O	C	2.2.6 2.2.6A. 2.2.6B.1. 2.2.6B.2. 2.2.6B.3. 2.2.6B.4. 2.2.6B.5.
C	2.13	OQA	DOE/RW-0333P QARD	O	C	2.2.6 2.2.10A. 2.2.10B.
C	2.14a.	OQA	DOE/RW-0333P QARD	O	C	2.2.11 :2sC. 2.2.11 :2sJ.1. 2.2.11 :2sJ.2. 2.2.11 :2sJ.3.
C	2.14b.	OQA	DOE/RW-0333P QARD	O	C	2.2.8C.1. 2.2.8C.2. 2.2.8C.3. 2.2.8C.4.

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C	2.14b.	OQA	DOE/RW-0333P QARD	O	C	2.2.8C.5. 2.2.8D.1. 2.2.8D.2. 2.2.8D.3. :1sthru2s 2.2.8D.3.NOTE: 2.2.12 10.2.9A. :1s 10.2.9A. :2s 11.2.6 18.2.6C. 18.2.6D. :1s 18.2.6D. :2s 18.2.6F.
C	2.14c.	OQA	DOE/RW-0333P QARD OSC LTR TO NRC (12/18/92)	O Dec 92	C	2.2.11 :2sI. NRC-RP NOTE 2.1
C	2.14d.	OQA	DOE/RW-0333P QARD	O	C	2.2.11 :2sC. 2.2.11 :2sG.
C	2.14e.	OQA	DOE/RW-0333P QARD	O	C	9.2.2 :2sA. 9.2.3A. 9.2.3B. 9.2.3C. 10.2.9G. :1s 18.2.20 :1s 18.2.20 :2sA. 18.2.20 :2sB. 18.2.20 :2sC. 18.2.20 :2sD. 18.2.20 :2sE.
C	2.15	OQA	DOE/RW-0333P QARD	O	C	2.2.7 :1s 2.2.7 :2sA. 2.2.7 :2sB. 2.2.7 :2sC.
C	3.1 :1s	OQA	OSC LTR TO NRC (12/18/92)	Dec 92	C	NRC-RP NOTE 3.1
C	3.1 :2s	OQA	OSC LTR TO NRC (12/18/92)	Dec 92	C	NRC-RP NOTE 3.1
C	3.1 :3s	OQA	OSC LTR TO NRC (12/18/92)	Dec 92	C	NRC-RP NOTE 3.1
C	3.1 :4s	OQA	OSC LTR TO NRC (12/18/92)	Dec 92	C	NRC-RP NOTE 3.1
C	3.1 :5s	OQA	OSC LTR TO NRC (12/18/92)	Dec 92	C	NRC-RP NOTE 3.1
C	3.1 :6s	OQA	OSC LTR TO NRC (12/18/92)	Dec 92	C	NRC-RP NOTE 3.1

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C	3.2 :1s	OQA	DOE/RW-0333P QARD	O	C	3.2.1A. 3.2.1B. 3.2.1C. 3.2.1D. 3.2.2A. 3.2.2B. 3.2.2C. 3.2.2D. 3.2.2E. 3.2.2F. 3.2.2G. 3.2.2H. :1s 3.2.2H. :2s 3.2.2I. 3.2.3A. 3.2.3B. 3.2.3C. 3.2.3D. 3.2.3E.1. 3.2.3E.2. 3.2.3E.3. 3.2.3E.4. 3.2.3E.5. 3.2.3E.6.
			OSC LTR TO NRC (12/18/92)	Dec 92		NRC-RP NOTE 3.1
C	3.2 :2s	OQA	DOE/RW-0333P QARD	O	C	5.2.2B.
C	3.3	OQA	DOE/RW-0333P QARD	O	C	3.2.1A. 3.2.1B. 3.2.1C. 3.2.1D.
C	3.4 :1s(a)	OQA	DOE/RW-0333P QARD	O	C	2.2.3A. 2.2.3A.1. 2.2.3A.2. 2.2.3A.3. 2.2.3A.4. 2.2.3A.5. 2.2.3A.6. 2.2.3A.7. NRC-RP NOTE 3.1
			OSC LTR TO NRC (12/18/92)	Dec 92		NRC-RP NOTE 3.1
C	3.4 :1s(b)	OQA	DOE/RW-0333P QARD	O	C	2.2.3A.7. 2.2.3B.
			OSC LTR TO NRC (12/18/92)	Dec 92		NRC-RP NOTE 3.1
C	3.4 :1s(c)	OQA	DOE/RW-0333P QARD	O	C	I.2.7 :1s

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C	3.4 :1s(c)	OQA	DOE/RW-0333P QARD	O	C	I.2.7 :2s I.2.7A.1. I.2.7A.2.a. I.2.7A.2.b. I.2.7A.3. :1s I.2.7A.3. :2s I.2.7B.1. I.2.7B.2. :1s I.2.7B.2. :2s I.2.7B.2.a. I.2.7B.2.b. I.2.7B.2.c. I.2.7B.2.d. I.2.7C.1. I.2.7C.2. I.2.7C.3.
C	3.4 :2s	OQA	DOE/RW-0333P QARD	O	C	3.2.1A. 3.2.1B. 3.2.1C. 3.2.1D. 3.2.8A. 3.2.8B. 3.2.8C. 3.2.8C.1. 3.2.8C.2. 3.2.8D. :1s 3.2.8D. :2s 3.2.8E. 3.2.8F.
C	3.5		OSC LTR TO NRC (12/18/92)	Dec 92		NRC-RP NOTE 3.1
		OQA	DOE/RW-0333P QARD	O	C	3.2.1A. 3.2.4E.2. :1s 3.2.4E.2. :2s
C	3.6		OSC LTR TO NRC (12/18/92)	Dec 92		NRC-RP NOTE 3.2
		OQA	DOE/RW-0333P QARD	O	C	5.2 5.2.2A.
C	3.7	OQA	DOE/RW-0333P QARD	O	C	3.2.8A. 3.2.8B. 3.2.8C. 3.2.8C.1. 3.2.8C.2. 3.2.8D. :1s 3.2.8D. :2s 3.2.8E.

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C	3.7	OQA	DOE/RW-0333P QARD	O	C	3.2.8F.
C	3.8	OQA	DOE/RW-0333P QARD	O	C	3.2.9A.
				O		3.2.9B.
				O		3.2.9C.
				O		3.2.9D.
				O		3.2.9E. :1s
				O		3.2.9E. :2s
				O		3.2.9F.
C	3.9	OQA	DOE/RW-0333P QARD	O	P	2.2.9
				O		2.2.9A. :1s
				O		2.2.9A. :2s
				O		2.2.9B.
				O		2.2.9C.
				O		2.2.9D.
				O		2.2.9E.1. :1s
				O		2.2.9E.1. :2s
				O		2.2.9E.2. :1s
				O		2.2.9E.2. :2s
				O		2.2.9F.
				O		6.2.3
C	3.10	OQA	DOE/RW-0333P QARD	O	C	3.2.4A.1.
				O		3.2.4A.2.
				O		3.2.4A.3.
				O		3.2.4B.
C	3.11	OQA	DOE/RW-0333P QARD	O	C	III.2.1A.
C	3.12	OQA	DOE/RW-0333P QARD	O	C	2.2.9F.
				O		3.2.4C.
C	3.13 :a.	OQA	DOE/RW-0333P QARD	O	C	3.2.4A.1.
				O		3.2.4B.
C	3.13 :b.	OQA	DOE/RW-0333P QARD	O	C	3.2.4D. :1s
C	3.13 :c.	OQA	DOE/RW-0333P QARD OSC LTR TO NRC (12/18/92)	O Dec 92	C	3.2.4E.1. NRC-RP NOTE 3.2
C	3.13 :d.	OQA	DOE/RW-0333P QARD	O	C	5.2.2A.
C	3.13 :e.	OQA	DOE/RW-0333P QARD	O	C	3.2.4C.
C	3.13 :f.	OQA	DOE/RW-0333P QARD	O	C	3.2.4F.
C	3.14 :1s	OQA	DOE/RW-0333P QARD	O	C	5.2

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C	3.14 :2s	OQA	DOE/RW-0333P QARD	O	C	3.2.4D. :1s
C	3.14 :3sa.	OQA	DOE/RW-0333P QARD	O	C	3.2.4D. :2s2.
C	3.14 :3sb.	OQA	DOE/RW-0333P QARD	O	C	3.2.4D. :2s3.
C	3.15	OQA	DOE/RW-0333P QARD	O	C	3.2.7C. :1s
C	3.16	OQA	DOE/RW-0333P QARD	O	C	FIG.ii-1
C	3.17 :1s	OQA	DOE/RW-0333P QARD	Dec 92	C	NRC-RP NOTE 3.3
C	3.17 :2s	OQA	OSC LTR TO NRC (12/18/92)	Dec 92	C	3.2.8A.
C	3.17 :3s	OQA	DOE/RW-0333P QARD	O	C	NRC-RP NOTE 3.4
C	3.17 :4s	OQA	DOE/RW-0333P QARD	O	C	3.2.8A.
C	3.18	OQA	DOE/RW-0333P QARD	O	C	3.2.8F.
C	3.19	OQA	DOE/RW-0333P QARD	O	C	5.2
C	3.20	OQA	DOE/RW-0333P QARD	O	C	1.2.7 :1s
C	4.1	OQA	DOE/RW-0333P QARD	O	C	FIG.ii-1
C	4.2	OQA	DOE/RW-0333P QARD	O	C	3.2.1B.
C	4.3 :1s(1)	OQA	DOE/RW-0333P QARD	O	C	4.2.1B.1.
C	4.3 :1s(2)	OQA	DOE/RW-0333P QARD	O	C	4.2.1B.2. :1s
C	4.3 :1s(3)	OQA	DOE/RW-0333P QARD	O	C	4.2.1B.2. :2s
C	4.2	OQA	DOE/RW-0333P QARD	O	C	4.2.1B.3.
C	4.3 :1s(1)	OQA	DOE/RW-0333P QARD	O	C	4.2.2C.
C	4.3 :1s(2)	OQA	DOE/RW-0333P QARD	O	C	4.2.2F.
C	4.3 :1s(3)	OQA	DOE/RW-0333P QARD	O	C	4.2.1C.1. :1s
C	4.3 :1s(1)	OQA	DOE/RW-0333P QARD	O	C	4.2.1C.1. :2s
C	4.3 :1s(2)	OQA	DOE/RW-0333P QARD	O	C	4.2.2D.
C	4.3 :1s(3)	OQA	DOE/RW-0333P QARD	O	C	4.2.2E.
C	4.3 :1s(1)	OQA	DOE/RW-0333P QARD	O	C	4.2.2F.
C	4.3 :1s(2)	OQA	DOE/RW-0333P QARD	O	C	7.2.1 :2sA.
C	4.3 :1s(3)	OQA	DOE/RW-0333P QARD	O	C	5.2.2A.
C	4.3 :1s(1)	OQA	DOE/RW-0333P QARD	O	C	7.2.2B. :1s
C	4.3 :1s(2)	OQA	DOE/RW-0333P QARD	O	C	7.2.2B. :2s
C	4.3 :1s(3)	OQA	DOE/RW-0333P QARD	O	C	5.2.2A.
C	4.3 :1s(1)	OQA	DOE/RW-0333P QARD	O	C	7.2.1 :2sA.
C	4.3 :1s(2)	OQA	DOE/RW-0333P QARD	O	C	7.2.2B. :1s

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C	4.3 :1s(3)	OQA	DOE/RW-0333P QARD	O	C	7.2.2B. :2s
C	4.3 :1s(4)	OQA	DOE/RW-0333P QARD	O	C	7.2.1 :2sA. 7.2.3A. :2s
C	4.3 :1s(5)	OQA	DOE/RW-0333P QARD	O	C	7.2.3D.
C	4.3 :2s	OQA	DOE/RW-0333P QARD	O	C	4.2.2E. 7.2.2B. :1s 7.2.2B. :2s 7.2.3A. :2s
C	5.1	OQA	DOE/RW-0333P QARD	O	C	5.2
C	5.2(1)	OQA	DOE/RW-0333P QARD	O	C	5.2.2A.
C	5.2(2)	OQA	DOE/RW-0333P QARD	O	C	5.2
C	5.3	OQA	DOE/RW-0333P QARD	O	C	5.2.2D.
C	5.4	OQA	DOE/RW-0333P QARD	O	C	6.2.6 6.2.6A. 6.2.6B. 6.2.6C. 6.2.6D. :1s 6.2.6D. :2s 6.2.6E. :1s 6.2.6E. :2s 6.2.7 6.2.7A. :1s 6.2.7A. :2s 6.2.7B. 6.2.7B.1. 6.2.7B.2. 6.2.7B.3. III.2.2B.4.
C	6.1	OQA	DOE/RW-0333P QARD OSC LTR TO NRC (12/18/92)	O Dec 92	C	6.2.1 NRC-RP NOTE 6.1
C	6.2 :1s	OQA	DOE/RW-0333P QARD	O	C	6.2.2 6.2.4
C	6.2 :2s	OQA	DOE/RW-0333P QARD	O	C	2.2.9 2.2.9C. 2.2.9D.
C	6.3	OQA	DOE/RW-0333P QARD	O	C	5.2

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C	6.3	OQA	DOE/RW-0333P QARD	O	C	6.2.5A.
C	6.4	OQA	DOE/RW-0333P QARD	O	C	2.2.9E.1. :2s 2.2.9E.2. :2s 3.2.8C. 3.2.8C.1. 3.2.8C.2. 6.2.6A. 6.2.6B. NRC-RP NOTE 6.3
			OSC LTR TO NRC (12/18/92)	Dec 92		
C	6.5	OQA	DOE/RW-0333P QARD	O	C	6.2.5C.
C	6.6	OQA	DOE/RW-0333P QARD OSC LTR TO NRC (12/18/92)	O Dec 92	C	6.2.5D. NRC-RP NOTE 6.2
C	6.7	OQA	DOE/RW-0333P QARD	O	C	3.2.4E.2. :1s 3.2.4E.2. :2s
C	7.1	OQA	DOE/RW-0333P QARD	O	C	7.2.6A.1. 7.2.6A.3. 7.2.6A.4. 7.2.6A.5. 7.2.6B. 7.2.6C. :1s 7.2.6C. :2s 7.2.8A. 7.2.8B. 7.2.9A. 7.2.9B. 7.2.9C. 7.2.9D. 7.2.9E. 7.2.10
C	7.2	OQA	DOE/RW-0333P QARD	O	C	5.2 7.2.1 :2sB.
C	7.3(a)	OQA	DOE/RW-0333P QARD	O	C	7.2.2A. 7.2.2B. :1s 7.2.2B. :2s 7.2.2C.1. 7.2.2C.2. 7.2.2C.3. 7.2.2D.
C	7.3(b)	OQA	DOE/RW-0333P QARD	O	C	7.2.6C. :1s
C	7.3(c)					

Requirement status	Requirement id	Implmtng owner	Implementing document id	Revision/Effective	Implmtng status	Implementing requirement id
C	7.3 (c)	OQA	DOE/RW-0333P QARD	O	C	7.2.4C. :1s
		OQA	DOE/RW-0333P QARD	O	C	7.2.4C. :2s
				O		7.2.6A.2.
				O		7.2.6A.4.
C	7.3 (d)	OQA	DOE/RW-0333P QARD	O	C	7.2.6A.2.
				O		7.2.9B.
C	7.4 :1pa.	OQA	DOE/RW-0333P QARD	O	C	7.2.6C. :1s
				O		7.2.6C. :2s
				O		7.2.7B. :1s
				O		7.2.7B. :2s
C	7.4 :1pb.	OQA	DOE/RW-0333P QARD	O	C	7.2.7C.
C	7.4 :1pc.	OQA	DOE/RW-0333P QARD	O	C	7.2.11B. :1s
C	7.4 :2p	OQA	DOE/RW-0333P QARD	O	C	7.2.5A.
				O		7.2.5B. :1s
				O		7.2.5B. :2s
				O		7.2.6C. :1s
				O		7.2.9E.
C	7.5	OQA	DOE/RW-0333P QARD	O	C	7.2.5B. :1s
				O		7.2.5B. :2s
				O		17.2.1A.1.
				O		17.2.7A.
C	7.6 :1s	OQA	DOE/RW-0333P QARD	O	C	7.2.4A. :1s
				O		7.2.4A. :2s1.
				O		7.2.4A. :2s2.
				O		7.2.4A. :2s3.
				O		7.2.4A. :2s4.
				O		7.2.4A. :2s5.
				O		7.2.4A. :2s6.
				O		7.2.4B.
				O		7.2.4C. :1s
				O		7.2.4C. :2s
				O		7.2.6A.1.
				O		7.2.6A.2.
				O		7.2.6A.3.
				O		7.2.6A.4.
				O		7.2.6A.5.
C	7.6 :2s	OQA	DOE/RW-0333P QARD	O	C	7.2.4B.
				O		18.2.2A. :2s
C	7.7	OQA	DOE/RW-0333P QARD	O	C	7.2.7F. :1s

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C	7.7	OQA	DOE/RW-0333P QARD	O	C	7.2.7F. :2s
C	8.1	OQA	DOE/RW-0333P QARD	O	C	8.2.3A. II.2.1A. II.2.1B. II.2.4A.
C	8.2	OQA	DOE/RW-0333P QARD	O	C	5.2 8.2.1A. 8.2.1B. II.2.2A. II.2.2B. II.2.3B. II.2.3D. :1s II.2.3D. :2s II.2.3E.1. II.2.3E.2. II.2.3E.3. II.2.3E.4. II.2.4A.
C	8.3	OQA	DOE/RW-0333P QARD	O	C	8.2.3A. 8.2.3B. 8.2.4A. II.2.4C. :1s II.2.4C. :2s1. II.2.4C. :2s2. II.2.4C. :2s3.
C	8.4	OQA	DOE/RW-0333P QARD	O	C	II.2.3A. II.2.3C.
C	8.5	OQA	DOE/RW-0333P QARD	O	C	15.2.1F. II.2.1A. II.2.4B. II.2.7A. II.2.7B.
C	9.1 :1s	OQA	DOE/RW-0333P QARD	O	C	9.2.1A. 9.2.1B.1. 9.2.1B.2. 9.2.1B.3.
C	9.1 :2s	OQA	DOE/RW-0333P QARD	O	C	9.2.1A. 9.2.1C.
C	9.2	OQA	DOE/RW-0333P QARD	O	C	5.2.2A. 9.2.2 :2sA.

Requirement status	Requirement id	Implmtng owner	Implementing document id	Revision/ Effective	Implmtng status	Implementing requirement id
C	9.3 :1s	OQA	DOE/RW-0333P QARD	O O	C	9.2.2 :2sA. 9.2.2 :2sC.
C	9.3 :2s(1)	OQA	OSC LTR TO NRC (12/18/92)	Dec 92	C	NRC-RP NOTE 9.1
C	9.3 :2s(2)	OQA	OSC LTR TO NRC (12/18/92)	Dec 92	C	NRC-RP NOTE 9.1
C	9.3 :2s(3)	OQA	OSC LTR TO NRC (12/18/92)	Dec 92	C	NRC-RP NOTE 9.1
C	9.4	OQA	DOE/RW-0333P QARD	O O	C	5.2.2G. 9.2.2 :2sA.
C	9.5	OQA	DOE/RW-0333P QARD	O O	C	9.2.2 :2sA. 9.2.3C.
C	10.1 :1s	OQA	DOE/RW-0333P QARD	O O O O O O O O O	C	10.2.1A. 10.2.1B. 10.2.1C. 10.2.1D. 10.2.1E. 10.2.1F. 10.2.1G. 10.2.1I. 10.2.2A.
C	10.1 :2s	OQA	DOE/RW-0333P QARD	O O	C	10.2.1A. 10.2.1B.
C	10.2 :1s	OQA	DOE/RW-0333P QARD	O O	C	5.2 10.2.1A.
C	10.2 :2s	OQA	DOE/RW-0333P QARD	O	C	10.2.2C. :1s
C	10.3	OQA	DOE/RW-0333P QARD	O O O O O O O O O O	C	10.2.1H. 10.2.9A. :1s 10.2.9I.1. :1s 10.2.9I.1. :2s 10.2.9I.2.a. :1s 10.2.9I.2.a. :2s 10.2.9I.2.b. :1s 10.2.9I.2.b. :2s 10.2.9I.2.c. 10.2.9I.2.d. :1s 10.2.9I.2.d. :2s
C	10.4a.	OQA	DOE/RW-0333P QARD	O	C	10.2.1B.
C	10.4b.	OQA	DOE/RW-0333P QARD	O	C	10.2.1C.

Requirement status	Requirement id	Implmtng owner	Implementing document id	Revision/ Effective	Implmtng status	Implementing requirement id
C	10.4c.	OQA	DOE/RW-0333P QARD	O	C	10.2.1E.
C	10.4d.	OQA	DOE/RW-0333P QARD	O	C	10.2.1F.
C	10.4e.	OQA	DOE/RW-0333P QARD	O	C	10.2.1A.
C	10.4f.	OQA	DOE/RW-0333P QARD	O	C	5.2.2G.
C	10.4g.	OQA	DOE/RW-0333P QARD	O	C	10.2.1I.
C	10.5	OQA	DOE/RW-0333P QARD	O	C	5.2.2F. 10.2.3A. 10.2.3B.
C	10.6	OQA	DOE/RW-0333P QARD	O	C	10.2.5A. :2s
C	10.7	OQA	DOE/RW-0333P QARD	O	C	10.2.5B.
C	10.8	OQA	DOE/RW-0333P QARD	O	C	10.2.7A. 10.2.8C. 10.2.8D. 10.2.8G.
C	11.1	OQA	DOE/RW-0333P QARD	O	C	11.2.1A. 11.2.1B. 11.2.2D. III.2.1A. III.2.1B. III.2.1C. III.2.1D. III.2.2A. III.2.2D.
C	11.2	OQA	OSC LTR TO NRC (12/18/92)	Dec 92	C	NRC-RP NOTE 11.1
C	11.3(a)	OQA	DOE/RW-0333P QARD	O	C	11.2.2A.
C	11.3(b)	OQA	DOE/RW-0333P QARD	O	C	11.2.1I. 11.2.2A. 11.2.6
C	11.4	OQA	DOE/RW-0333P QARD	O	C	2.2.9E.1. :1s 2.2.9E.1. :2s 3.2.7A. 3.2.7C. :1s 3.2.7C. :2s 3.2.8A. 3.2.8F.

Requirement status	Requirement id	Implmtng owner	Implementing document id	Revision/ Effective	Implmtng status	Implementing requirement id
C	11.4	OQA	DOE/RW-0333P QARD	O	C	6.2.6 6.2.6A.
C	11.5	OQA	DOE/RW-0333P QARD	O	C	11.2.2E. :1s 11.2.2E. :2s III.2.1C.
C	11.6a.	OQA	DOE/RW-0333P QARD	O	C	5.2.2E. 11.2.1B. III.2.2B.1.
C	11.6b.	OQA	DOE/RW-0333P QARD	O	C	5.2.2E. 11.2.1C. III.2.2B.2. III.2.2B.5.
C	11.6c.	OQA	DOE/RW-0333P QARD	O	C	5.2.2E. 11.2.1D. 11.2.1H. 11.2.2B. III.2.1A. III.2.2B.3.
C	11.6d.	OQA	DOE/RW-0333P QARD	O	C	5.2.2F. 11.2.1E. III.2.1A.
C	11.6e.	OQA	DOE/RW-0333P QARD	O	C	11.2.1B. III.2.2B.1.
C	11.6f.	OQA	DOE/RW-0333P QARD	O	C	5.2.2G. 11.2.1F. III.2.2B.4.
C	11.6g.	OQA	DOE/RW-0333P QARD	O	C	11.2.1G. III.2.1A.
C	11.7	OQA	DOE/RW-0333P QARD	O	C	11.2.4A. 11.2.5A. 11.2.5B. 11.2.5C. 11.2.5D. 11.2.5E. 11.2.5F. 11.2.5G. 11.2.5H. 11.2.5I. III.2.2C.

Requirement status	Requirement id	Implmtng owner	Implementing document id	Revision/ Effective	Implmtng status	Implementing requirement id
C	11.7	OQA	DOE/RW-0333P QARD	O O O O	C	III.2.4A.1. III.2.4A.2. III.2.4A.3. III.2.4B.
C	11.8	OQA	DOE/RW-0333P QARD	O O O O	C	11.2.4B. II.2.5 III.2.3.A. III.2.3.B.
C	12.1	OQA	DOE/RW-0333P QARD	O	C	12.2.1A. :1s
C	12.2	OQA	DOE/RW-0333P QARD	O	C	5.2.2A.
C	12.3 :1s	OQA	DOE/RW-0333P QARD	O	C	5.2
C	12.3 :2s	OQA	DOE/RW-0333P QARD	O O	C	6.2.3 6.2.4
C	12.4	OQA	DOE/RW-0333P QARD	O	C	12.2.1E.
C	12.5	OQA	DOE/RW-0333P QARD	O O	C	12.2.1C. :1s 12.2.1C. :2s
C	12.6 :1s	OQA	DOE/RW-0333P QARD	O	C	12.2.1A. :1s
C	12.6 :2s	OQA	DOE/RW-0333P QARD	O	C	12.2.1A. :2s
C	12.7 :1s	OQA	DOE/RW-0333P QARD	O O O	C	12.2.3B. :2s2. 12.2.3B. :2s2.a. 12.2.3B. :2s2.b.
C	12.7 :2s	OQA	DOE/RW-0333P QARD	O	C	12.2.3B. :2s2.b.
C	12.8 :1s	OQA	DOE/RW-0333P QARD	O	C	12.2.1B.
C	12.8 :2s	OQA	DOE/RW-0333P QARD	O O	C	12.2.1B.1. 12.2.1B.2. :1s
C	12.8 :3s	OQA	DOE/RW-0333P QARD	O	C	12.2.1B.2. :2s
C	13.1	OQA	DOE/RW-0333P QARD	O O O O O	C	13.2.1A. 13.2.1B. 13.2.2E. II.2.6A. II.2.6E.2.
C	13.2	OQA	DOE/RW-0333P QARD	O	C	13.2.1A.

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C	13.2	OQA	DOE/RW-0333P QARD	O	C	13.2.1B. 13.2.2A. 13.2.2C. 13.2.2D. II.2.6A. II.2.6B. II.2.6C. :1s II.2.6C. :2s II.2.6D. II.2.6E. II.2.6E.1.
C	13.3	OQA	DOE/RW-0333P QARD	O	C	13.2.1B. 13.2.3A. II.2.6C. :2s
C	14.1	OQA	DOE/RW-0333P QARD	O	C	14.2.1A. 14.2.1B. 14.2.2A. 14.2.2C. 14.2.2E.
C	14.2	OQA	DOE/RW-0333P QARD	O	C	10.2.7B. 14.2.1A. 14.2.1B. 14.2.2A. 14.2.2B.
C	14.3	OQA	DOE/RW-0333P QARD	O	C	14.2.2C. 14.2.2D.
C	14.4	OQA	DOE/RW-0333P QARD	O	C	14.2.2C. 14.2.2D.
C	14.5 :1s	OQA	DOE/RW-0333P QARD	O	C	5.2.2C. :1s
C	14.5 :2s	OQA	DOE/RW-0333P QARD	O	C	6.2.6
C	14.6 :1s	OQA	DOE/RW-0333P QARD	O	C	14.2.1A. 14.2.2A. 14.2.2E. 15.2.2A. :1s 15.2.2A. :2s
C	14.6 :2s	OQA	DOE/RW-0333P QARD	O	C	14.2.2D. 15.2.1E.
C	15.1	OQA	DOE/RW-0333P QARD	O	C	15.2.1F.

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C	15.2 :1s	OQA	DOE/RW-0333P QARD	O	C	2.2.10A. 5.2 15.2.1A. 15.2.1B. :1s 15.2.1B. :2s 15.2.1B. :3s 15.2.1C. 15.2.3A.
C	15.2 :2s	OQA	DOE/RW-0333P QARD	O	C	15.2.1E.
C	15.3	OQA	DOE/RW-0333P QARD	O	C	15.2.5
C	15.4	OQA	DOE/RW-0333P QARD	O	C	15.2.1A. 15.2.1B. :1s 15.2.1B. :2s 15.2.1C. 15.2.1E.
C	15.5	OQA	DOE/RW-0333P QARD	O	C	15.2.5
C	16.1 :1s	OQA	DOE/RW-0333P QARD	O	C	5.2 16.2.1
C	16.1 :2s	OQA	DOE/RW-0333P QARD	O	C	2.2.9E.2. :1s 2.2.9E.2. :2s
C	16.2 :1s	OQA	DOE/RW-0333P QARD	O	C	15.2.1B. :2s
C	16.2 :2s	OQA	DOE/RW-0333P QARD	O	C	15.2.1B. :2s 16.2.3D. 16.2.4F.
C	16.3	OQA	DOE/RW-0333P QARD	O	C	16.2.5
C	16.4 :1s	OQA	DOE/RW-0333P QARD	O	C	16.2.4E. :1s 16.2.4E. :2s 16.2.6B.
C	16.4 :2s	OQA	DOE/RW-0333P QARD	O	C	16.2.4B. 16.2.6D.
C	17.1 :1s	OQA	DOE/RW-0333P QARD	O	C	17.2.1A.1. 17.2.1A.2. 17.2.1A.3. 17.2.1A.4. 17.2.1A.5. 17.2.1A.6.

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C	17.1 :1s	OQA	DOE/RW-0333P QARD	O	C	17.2.1A.7.
				O		17.2.1B.
				O		17.2.2A.1.
				O		17.2.2A.2.
				O		17.2.2B.
				O		17.2.2C.
				O		17.2.2D. :1s
				O		17.2.2D. :2s
				O		17.2.2E.
				O		17.2.3A.
				O		17.2.3B.
				O		17.2.3C.
				O		17.2.3D.
				O		17.2.3E. :1s
				O		17.2.3E. :2s1.
				O		17.2.3E. :2s2.
				O		17.2.3E. :2s3.
				O		17.2.3F.
				O		17.2.4A.
				O		17.2.4B.
				O		17.2.5A.1.
				O		17.2.5A.2.
				O		17.2.5A.3.
				O		17.2.5A.4.
				O		17.2.5A.5.
				O		17.2.5A.6.
				O		17.2.5A.7.
				O		17.2.5B.1.
				O		17.2.5B.2.
				O		17.2.5B.3.
				O		17.2.5B.4.
				O		17.2.6A.
				O		17.2.6B. :1s
				O		17.2.6B. :2s
				O		17.2.7A.
				O		17.2.7B. :1s
				O		17.2.7B. :2s1.
				O		17.2.7B. :2s2.
				O		17.2.7B. :2s3.
				O		17.2.8A. :1s
				O		17.2.8A. :2s
				O		17.2.8B.
				O		17.2.8C.
				O		17.2.11
C	17.1 :2s	OQA	DOE/RW-0333P QARD	O	C	5.2.2H.
				O		17.2.1A.1.
				O		17.2.1A.2.

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C	17.1 :2s	OQA	DOE/RW-0333P QARD	O O O O O	C	17.2.1A.3. 17.2.1A.4. 17.2.1A.5. 17.2.1A.6. 17.2.1A.7. 17.2.1B.
C	17.2	OQA	DOE/RW-0333P QARD	O O O O O O	C	17.2.2A.2. 17.2.3A. 17.2.7A. 17.2.8A. :1s 17.2.8A. :2s 17.2.8B. 17.2.8C.
C	17.3a.	OQA	DOE/RW-0333P QARD	O O O	C	10.2.8A. 10.2.8F. 11.2.5A. 11.2.5E.
C	17.3b.	OQA	DOE/RW-0333P QARD	O O	C	10.2.8E. 11.2.5D.
C	17.3c.	OQA	DOE/RW-0333P QARD	O O O O	C	10.2.8B. 10.2.8G. 11.2.5B. 11.2.5F.
C	17.3d.	OQA	DOE/RW-0333P QARD	O O	C	10.2.8I. 11.2.5G.
C	17.3e.	OQA	DOE/RW-0333P QARD	O O O	C	10.2.8C. 10.2.8D. 11.2.5C.
C	17.3f.	OQA	DOE/RW-0333P QARD	O O O O	C	10.2.8C. 10.2.8G. 11.2.5F. 11.2.5H.
C	17.3g.	OQA	DOE/RW-0333P QARD	O O	C	10.2.8I. 11.2.5G.
C	17.4	OQA	DOE/RW-0333P QARD	O O O O O	C	17.2.2D. :1s 17.2.2D. :2s 17.2.7A. 17.2.7B. :1s 17.2.7B. :2s1.

Requirement status	Requirement id	Implmtng owner	Implementing document id	Revision/ Effective	Implmtng status	Implementing requirement id
C	17.4	OQA	DOE/RW-0333P QARD	O	C	17.2.7B. :2s2. 17.2.7B. :2s3.
C	17.5	OQA	DOE/RW-0333P QARD	O	C	17.2.2C. 17.2.3B.
C	17.6	OQA	DOE/RW-0333P QARD	O	C	5.2.2G. 5.2.2H. 17.2.2B. 17.2.2D. :1s 17.2.2D. :2s 17.2.3C.
C	17.7	OQA	OSC LTR TO NRC (12/18/92) DOE/RW-0333P QARD	Dec 92	C	NRC-RP NOTE 17.1 17.2.5A.1. 17.2.5A.2. 17.2.5A.3. 17.2.5A.4. 17.2.5A.5. 17.2.5A.6. 17.2.5A.7. 17.2.5B.1. 17.2.5B.2. 17.2.5B.3. 17.2.5B.4. 17.2.9A.1. 17.2.9A.2. :1s 17.2.9A.2. :2s 17.2.9A.3. 17.2.9A.4. 17.2.9A.5. 17.2.9A.6. 17.2.9A.7. 17.2.9A.8. 17.2.9A.9. :1s 17.2.9A.9. :2s 17.2.9B. 17.2.9C. 17.2.9D. 17.2.10A. 17.2.10B. 17.2.10C.
C	18.1 :1s	OQA	DOE/RW-0333P QARD	O	C	18.2.1A. 18.2.1C. 18.2.1E. 18.2.1F. 18.2.2D.

Requirement status	Requirement id	Implmtng owner	Implementing document id	Revision/ Effective	Implmtng status	Implementing requirement id
C	18.1 :2s	OQA	DOE/RW-0333P QARD	O	C	18.2.2A. :1s 18.2.2B. :1s 18.2.2C. :1s 18.2.2C. :2s 18.2.2E. :1s 18.2.2E. :2s1. 18.2.2E. :2s2. 18.2.2E. :2s3. 18.2.2F.
C	18.2 :1s	OQA	DOE/RW-0333P QARD	O	C	18.2.1A. 18.2.1B. 18.2.1C. 18.2.1D. 18.2.1E. 18.2.1F. 18.2.2A. :1s 18.2.2A. :2s 18.2.2B. :1s 18.2.2C. :1s 18.2.2C. :2s 18.2.2D. 18.2.2E. :1s 18.2.2E. :2s1. 18.2.2E. :2s2. 18.2.2E. :2s3. 18.2.2F. 18.2.3. 18.2.4B.
C	18.2 :2s	OQA	DOE/RW-0333P QARD	O	C	18.2.1A. 18.2.1B. 18.2.1C. 18.2.1D. 18.2.1E. 18.2.1F. 18.2.2A. :1s 18.2.2A. :2s 18.2.2B. :1s 18.2.2B. :2s 18.2.2C. :1s 18.2.2C. :2s 18.2.2D. 18.2.2E. :1s 18.2.2E. :2s2. 18.2.2F. 18.2.3. 18.2.4B.

Requirement status	Requirement id	Implmtng owner	Implementing document id	Revision/ Effective	Implmtng status	Implementing requirement id
C	18.3 :1s	OQA	DOE/RW-0333P QARD	O	C	18.2.4A. :3s
C	18.3 :2s	OQA	DOE/RW-0333P QARD	O	C	18.2.4A. :3s
C	18.4	OQA	DOE/RW-0333P QARD	O	C	18.2.7D.
C	18.5	OQA	DOE/RW-0333P QARD	O	C	18.2.6A. :2s
				O		18.2.7E. :1s
				O		18.2.7E. :2s
				O		18.2.7F.
				O		18.2.7G.
C	18.6	OQA	DOE/RW-0333P QARD	O	C	18.2.5 :1s
				O		18.2.6D. :1s
				O		18.2.6D. :2s
				O		18.2.6F.
				O		18.2.7B.
				O		18.2.12
				O		18.2.13 :1s
C	18.7 :1s	OQA	DOE/RW-0333P QARD	O	C	2.2.10A.
C	18.7 :2s	OQA	DOE/RW-0333P QARD	O	C	16.2.3A.
C	18.8	OQA	DOE/RW-0333P QARD	O	C	16.2.3B.
				O		16.2.6A.
				O		16.2.6B.
				O		16.2.6C.
				O		16.2.6D.
				O		18.2.9
				O		18.2.9
				O		18.2.9
				O		18.2.10
				O		18.2.11

**DOE/RW-0333P QARD (REV. 0)  
NRC REVIEW PLAN  
NOTES**

**SECTION 1.0**

- NRC-RP NOTE 1.1. Ensuring the Quality Assurance Program is described in a Quality Assurance Program Description document is not required by RW-0333. Information from an organization's QAPD is now covered in their implementation matrix and organizational description implementing document.
- NRC-RP NOTE 1.2 The resolution of allegations was deleted from the RW/0214- QARD via ICN 4.2 on 11/2/92. The allegations program exists reporting to the Director OCRWM. However, the QCP is no longer within the scope of the QA program.

**SECTION 2.0**

- NRC-RP NOTE 2.1 Requirements for the documentation of training and qualification programs to include the objective, content of the program, attendees and date of attendance is not discussed in DOE/RW-0333P. This is not considered a degradation of requirements since section 17.0 discusses the classification and lifetime and non permanent records. Specific sections of the QARD are not the place to define QA records.

**SECTION 3.0**

- NRC-RP NOTE 3.1 This section (3.1) of the NRC Review Plan provides definitions for design control terms. There are no specific requirements in 3.1 that must be placed in the QARD.
- OCRWM does not consider the collection and analysis of scientific data (as defined in 3.1 of the NRC Review Plan and addressed in 3.4) a design function. Scientific data will be obtained according to the requirements of Supplement III. Once data is validated or qualified for use as design input, it shall be controlled in accordance with Section 3.0.
- However, OCRWM recognizes that some facilities must be constructed to obtain scientific data. Some of these facilities, such as the ESF, will become part of the GROA, and as such will be subject to the design control requirements of Section 3.0 consistent with its intended function and importance to safety and waste isolation.
- NRC-RP NOTE 3.2 Special circumstances may warrant the release of unverified designs (See QARD 3.2.4E.2.) under controlled conditions. In all cases, design verification will be completed before relying on the item to perform its function (See QARD 3.2.4E.2.).
- NRC-RP NOTE 3.3 OCRWM does not consider Peer Reviews as a method of Design Control. Nevertheless, Peer Reviews will be conducted in accordance with NUREG 1297 whether they be strictly of a scientific nature or whether they are to be performed to confirm scientific assumptions that will be used in the design process.
- NRC-RP NOTE 3.4 The Design Change Control System is developed concurrent with the Design Control Program. Section 5.0 requires design control procedures to be in place prior to performing design activities.

**DOE/RW-0333P QARD (REV. 0)  
NRC REVIEW PLAN  
NOTES**

**SECTION 6.0**

- NRC-RP NOTE 6.1** Nonconformances and corrective action reports are controlled according to the requirements of Sections 15.0 and 16.0.
- NRC-RP NOTE 6.2** Procurement documents are controlled according to the requirements of Section 4. 0.
- NRC-RP NOTE 6.3** Rather than having the same organizations that reviewed the initial issue review a change, OCRWM has designated only those organizations affected by a change as reviewers.

**SECTION 9.0**

- NRC-RP NOTE 9.1** OCRWM does not apply control of special processes to scientific investigations.

**SECTION 11.0**

- NRC-RP NOTE 11.1** OCRWM does not limit the type of test for items controlled under this section. However, the tests listed here will be included since they are part of the overall test population.

**SECTION 17.0**

- NRC-RP NOTE 17.1** NRC Review Plan Requires (17.6) "Procedures are established describing methods of documenting/recording, reviewing, and confirming accuracy of records, which include laboratory and field notebooks and log books, data sheets, data reduction documents, and software." Section 17 nor Supplement III fully addresses all items of this paragraph.

Requirement status	Requirement id	Implmtng owner	Implementing document id	Revision/ Effective	Implmtng status	Implementing requirement id
C	II.1. :1p1s	OQA	DOE/RW-0333P QARD	O	C	1.2
				O		1.3.1A. :1s
				O		1.3.1A. :2s
				O		1.3.1A. :3s
				O		1.3.1A. :4s
				O		1.3.1A. :5s
				O		1.3.1B.
				O		1.3.1B.1.
				O		1.3.1B.2.
				O		1.3.2A.
				O		1.3.2B.1. :1s
				O		1.3.2B.1. :2s
				O		1.3.2C.
				O		1.3.2D. :1s
				O		1.3.2D. :2s
				O		1.3.2D. :3s
				O		1.3.2E.
				O		1.3.2F. :1s
				O		1.3.2F. :2s
				O		1.3.2F. :3s
				O		1.3.2F. :4s
				O		1.3.2F. :5s
				O		1.3.2G. :1s
				O		1.3.2G. :2s
				O		1.3.2H.
				O		1.3.2I.
				O		1.3.3A.1. :1s
				O		1.3.3A.1. :2s
				O		1.3.3A.1. :3s
				O		1.3.3A.1.a.
				O		1.3.3A.1.b.
				O		1.3.3A.2. :1s
				O		1.3.3A.2. :2s
				O		1.3.3A.2. :3sa.
				O		1.3.3A.2. :3sb.
				O		1.3.3A.2. :3sc.
				O		1.3.3B. :1s
				O		1.3.3B. :2s
				O		1.3.3C.
				O		1.3.3D.
C	II.1. :1p2s(1)	OQA	DOE/RW-0333P QARD	O	C	1.2.2 :3sF.
C	II.1. :1p2s(2)	OQA	DOE/RW-0333P QARD	O	C	1.2.2 :3sG.
C	II.1. :1p2s(3)	OQA	DOE/RW-0333P QARD	O	C	1.2.2 :3sF.
				O	C	1.2.2 :3sG.

Enclosure 3

Requirement status	Requirement id	Implmtng owner	Implementing document id	Revision/ Effective	Implmtng status	Implementing requirement id
C	II.1. :1p2s(3)	OQA	DOE/RW-0333P QARD	0	C	1.2.2 :3sG.
C	II.1. :1p2s(4)	OQA	DOE/RW-0333P QARD	0	C	1.2.2 :3sG. 15.2.1F.
C	II.1. :2p1s	OQA	DOE/RW-0333P QARD	0	C	1.2.2 :3sA. 1.2.2 :3sC.
C	II.1. :2p2s	OQA	DOE/RW-0333P QARD	0	C	1.2.2 :3sB. 1.2.2 :3sC.
C	II.2. :1p1s	OQA	DOE/RW-0333P QARD	0	C	2.2.2A. 2.2.2B. :1s 2.2.2B. :2s1. 2.2.2B. :2s2. 2.2.2B. :2s3.1sthru2s 2.2.2B. :2s4. 2.2.2C. 2.2.2C.1.a. 2.2.2C.1.b. 2.2.2C.1.c. 2.2.2C.2. 2.2.2C.3. :1s 2.2.2C.3. :2s 2.2.2D. :1s 2.2.2D. :2s 2.2.4 :1s 2.2.4 :2sA. 2.2.4 :2sB. 2.2.4 :2sC. 2.2.4 :2sD. 2.2.4 :2sE. 2.2.4 :2sF. 2.2.4 :2sG. 2.2.4 :2sH. 2.2.4 :2sI. 6.2.1 6.2.2 6.2.3 6.2.4 6.2.5 6.2.5A. 6.2.5B. 6.2.5C. 6.2.5D. 6.2.6 6.2.6A. 6.2.6B.

Requirement status	Requirement id	Implmtng owner	Implementing document id	Revision/ Effective	Implmtng status	Implementing requirement id
C	II.2. :1p1s	OQA	DOE/RW-0333P QARD	O	C	6.2.6C. 6.2.6D. :1s 6.2.6D. :2s 6.2.6E. :1s 6.2.6E. :2s 6.2.7 6.2.7A. :1s 6.2.7A. :2s 6.2.7B. 6.2.7B.1. 6.2.7B.2. 6.2.7B.3. 6.2.8 6.2.8B.
C	II.2. :1p2s	OQA	DOE/RW-0333P QARD	O	C	2.2.3A. 2.2.3A.1. 2.2.3A.2. 2.2.3A.3. 2.2.3A.4. 2.2.3A.5. 2.2.3A.6. 2.2.3A.7. 2.2.3B. 2.2.3C. :1s 2.2.3C. :2s 2.2.3D. 2.2.3E.
C	II.2. :1p3s	OQA	DOE/RW-0333P QARD	O	C	2.2.2B. :1s 2.2.2B. :2s1. 2.2.2B. :2s2. 2.2.2B. :2s3.1sthru2s 2.2.2B. :2s4. 5.2.2B.
C	II.2. :1p4s	OQA	DOE/RW-0333P QARD	O	C	2.2.3F.1. 2.2.3F.2. 2.2.3F.3. 2.2.3F.4. 2.2.3F.5. 2.2.3F.6. 2.2.3F.7. 2.2.3F.8. 2.2.3F.9. 2.2.3F.10.
C	II.2. :1p5s	OQA	DOE/RW-0333P QARD	O	C	2.2.2C.2.

Requirement status	Requirement id	Implmtng owner	Implementing document id	Revision/ Effective	Implmtng status	Implementing requirement id
C	II.2. :1p5s	OQA	OSC LTR TO NRC (12/18/92)	Dec 92	C	NQA-1 NOTE 2.1
C	II.2. :2p1sthru2s	OQA	DOE/RW-0333P QARD	O	C	2.2.4 :1s 2.2.4 :2sE. 2.2.4 :2sH.
C	II.2. :2p3s	OQA	DOE/RW-0333P QARD	O	C	2.2.4 :2sE. 2.2.4 :2sG. 2.2.4 :2sH.
C	II.2. :3p	OQA	DOE/RW-0333P QARD	O	C	2.2.11 :1s 2.2.11 :2sA. 2.2.11 :2sB. 2.2.11 :2sC. 2.2.11 :2sD. 2.2.11 :2sE. 2.2.11 :2sF. 2.2.11 :2sG. 2.2.11 :2sH. 2.2.11 :2sI. 2.2.11 :2sJ.1. 2.2.11 :2sJ.2. 2.2.11 :2sJ.3.
C	II.2. :4p	OQA	DOE/RW-0333P QARD	O	C	2.2.6 2.2.6A. 2.2.6B.1. 2.2.6B.2. 2.2.6B.3. 2.2.6B.4. 2.2.6B.5.
C	II.3. :1s	OQA	DOE/RW-0333P QARD	O	C	3.2.1A. 3.2.1B. 3.2.1C. 3.2.1D. 3.2.2A. 3.2.2B. 3.2.2C. 3.2.2D. 3.2.2E. 3.2.2F. 3.2.2G. 3.2.2H. :1s 3.2.2H. :2s 3.2.2I. 3.2.3A. 3.2.3B.

Requirement status	Requirement id	Implmtng owner	Implementing document id	Revision/ Effective	Implmtng status	Implementing requirement id
C	II.3. :1s	OQA	DOE/RW-0333P QARD	O	C	3.2.3C. 3.2.3D. 3.2.3E.1. 3.2.3E.2. 3.2.3E.3. 3.2.3E.4. 3.2.3E.5. 3.2.3E.6. 3.2.4A.1. 3.2.4A.2. 3.2.4A.3. 3.2.4B. 3.2.4C. 3.2.4D. :1s 3.2.4D. :2s1. 3.2.4D. :2s2. 3.2.4D. :2s3. 3.2.4D. :2s4. 3.2.4E. 3.2.4E.1. 3.2.4E.2. :1s 3.2.4E.2. :2s 3.2.4E.3. 3.2.4F. 3.2.4G. 3.2.4H.1. 3.2.4H.2. 3.2.4H.3. 3.2.4H.4. :1s 3.2.4H.4. :2s
C	II.3. :2s	OQA	DOE/RW-0333P QARD	O	C	3.2.1B.
C	II.3. :3s	OQA	DOE/RW-0333P QARD	O	C	3.2.9A.
C	II.3. :4s	OQA	DOE/RW-0333P QARD	O	C	3.2.4D. :1s
C	II.3. :5s	OQA	DOE/RW-0333P QARD	O	C	3.2.8A.
C	II.4. :1s	OQA	DOE/RW-0333P QARD	O	C	4.2.1A. 4.2.1B.1. 4.2.1B.2. :1s 4.2.1B.2. :2s 4.2.1B.3. 4.2.1C.1. :1s 4.2.1C.1. :2s 4.2.1C.2. 4.2.1C.3. :1s

Requirement status	Requirement id	Implmtng owner	Implementing document id	Revision/ Effective	Implmtng status	Implementing requirement id
C	II.4. :1s	OQA	DOE/RW-0333P QARD	O	C	4.2.1C.3. :2s 4.2.1D. 4.2.1E. 4.2.1F. 4.2.1F.1. 4.2.1G. 4.2.1H.
C	II.4. :2s	OQA	DOE/RW-0333P QARD	O	C	4.2.1C.1. :1s
C	II.5. :1s	OQA	DOE/RW-0333P QARD	O	C	5.2 5.2.4A. 5.2.4B.
C	II.5. :2s	OQA	DOE/RW-0333P QARD	O	C	5.2.2D.
C	II.6. :1s	OQA	DOE/RW-0333P QARD	O	C	6.2.2 6.2.5A. 6.2.6 6.2.7 6.2.8
C	II.6. :2s	OQA	DOE/RW-0333P QARD	O	C	6.2.3 6.2.4
C	II.7. :1s	OQA	DOE/RW-0333P QARD	O	C	7.2.1 :1s 7.2.1 :2sA. 7.2.1 :2sB. 7.2.1 :2sC. 7.2.1 :2sD.1. 7.2.1 :2sD.2. 7.2.1 :2sD.3. 7.2.1 :2sD.4. 7.2.1 :2sD.5. 7.2.1 :2sD.6. 7.2.1 :2sD.7. 7.2.1 :2sD.8. 7.2.1 :2sD.9. 7.2.1 :2sE. 7.2.1 :2sF. 7.2.1 :2sG. 7.2.2A. 7.2.2B. :1s 7.2.2B. :2s 7.2.2C.1. 7.2.2C.2. 7.2.2C.3. 7.2.2D.

Requirement status	Requirement id	Implmtng owner	Implementing document id	Revision/ Effective	Implmtng status	Implementing requirement id
C	II.7. :1s	OQA	DOE/RW-0333P QARD	O	C	7.2.3A. :1s
				O		7.2.3A. :2s
				O		7.2.3A. :3s1.
				O		7.2.3A. :3s2.
				O		7.2.3A. :3s3.
				O		7.2.3A. :3s4.
				O		7.2.3A. :3s5.
				O		7.2.3A. :3s6.
				O		7.2.3A. :3s7.
				O		7.2.3B.
				O		7.2.3C.
				O		7.2.3D.
				O		7.2.4A. :1s
				O		7.2.4A. :2s1.
				O		7.2.4A. :2s2.
				O		7.2.4A. :2s3.
				O		7.2.4A. :2s4.
				O		7.2.4A. :2s5.
				O		7.2.4A. :2s6.
				O		7.2.4B.
				O		7.2.4C. :1s
				O		7.2.4C. :2s
				O		7.2.5A.
				O		7.2.5B. :1s
				O		7.2.5B. :2s
				O		7.2.6A.1.
				O		7.2.6A.2.
				O		7.2.6A.3.
				O		7.2.6A.4.
				O		7.2.6A.5.
				O		7.2.6B.
				O		7.2.6C. :1s
				O		7.2.6C. :2s
				O		7.2.7A.
				O		7.2.7B. :1s
				O		7.2.7B. :2s
				O		7.2.7C.
				O		7.2.7D.
				O		7.2.7E.
				O		7.2.7F. :1s
				O		7.2.7F. :2s
				O		7.2.8 :1sthru2s
				O		7.2.8A.
				O		7.2.8B.
				O		7.2.8C.
				O		7.2.9A.
				O		7.2.9B.
				O		7.2.9C.

Requirement status	Requirement id	Implmtng owner	Implementing document id	Revision/Effective	Implmtng status	Implementing requirement id
C	II.7. :1s	OQA	DOE/RW-0333P QARD	O	C	7.2.9D. 7.2.9E. 7.2.10 7.2.11 7.2.11A. 7.2.11B. :1s 7.2.11B. :2s1. 7.2.11B. :2s2. 7.2.11B. :2s3. 7.2.11B. :2s4. 7.2.11C. 7.2.11D. 7.2.12A. :1s 7.2.12A. :2s 7.2.12B. 7.2.12C. 7.2.12D.1. 7.2.12D.2. 7.2.12D.3. 7.2.12D.4.
C	II.7. :2s	OQA	DOE/RW-0333P QARD	O	C	7.2.2A. 7.2.2B. :1s 7.2.2B. :2s 7.2.2C.1. 7.2.2C.2. 7.2.2C.3. 7.2.2D. 7.2.4C. :2s 7.2.6A.5. 7.2.8 :1sthru2s 7.2.8A. 7.2.8B. 7.2.8C. 7.2.9A. 7.2.9B. 7.2.9C. 7.2.9D. 7.2.9E.
C	II.8. :1s	OQA	DOE/RW-0333P QARD	O	C	5.2 8.2.1A. 8.2.1B. 8.2.2A. :1s 8.2.2A. :2s 8.2.2B.1. 8.2.2B.2. 8.2.2B.3.

Requirement status	Requirement id	Implmtng owner	Implementing document id	Revision/Effective	Implmtng status	Implementing requirement id
C	II.8. :1s	OQA	DOE/RW-0333P QARD	O	C	8.2.2B.4. 8.2.3A. 8.2.3B. 8.2.4A. 8.2.4B. 8.2.4C. :1s 8.2.4C. :2s1. 8.2.4C. :2s2. 8.2.4C. :2s3.
C	II.8. :2s	OQA	DOE/RW-0333P QARD	O	C	8.2.1A. 8.2.3A.
C	II.9. :1s	OQA	DOE/RW-0333P QARD	O	C	5.2
C	II.9. :2s	OQA	DOE/RW-0333P QARD	O	C	9.2.1A.
C	II.10. :1s	OQA	DOE/RW-0333P QARD	O	C	5.2 10.2.1A.
C	II.10. :2s	OQA	DOE/RW-0333P QARD	O	C	10.2.1B. 10.2.1C.
C	II.10. :3s	OQA	DOE/RW-0333P QARD	O	C	10.2.8A. 10.2.8B. 10.2.8C. 10.2.8D. 10.2.8E. 10.2.8F. 10.2.8G. 10.2.8H. 10.2.8I.
C	II.10. :4s	OQA	DOE/RW-0333P QARD	O	C	10.2.2C. :1s
C	II.11. :1p1s	OQA	DOE/RW-0333P QARD	O	C	11.1 :2p 11.2.1A. 11.2.1B. 11.2.1C. 11.2.1D. 11.2.1E. 11.2.1F. 11.2.1G. 11.2.1H. 11.2.1I. 11.2.2A. 11.2.2B. 11.2.2C.

Requirement status	Requirement id	Implmtng owner	Implementing document id	Revision/ Effective	Implmtng status	Implementing requirement id
C	II.11. :1p1s	OQA	DOE/RW-0333P QARD	O	C	11.2.2D. 11.2.2E. :1s 11.2.2E. :2s
C	II.11. :1p2s	OQA	DOE/RW-0333P QARD	O	C	11.2.1B. 11.2.1C.
C	II.11. :1p3s	OQA	DOE/RW-0333P QARD	O	C	11.2.4A.
C	II.11. :2p	OQA	DOE/RW-0333P QARD	O	C	11.1 :3p
C	II.12.	OQA	DOE/RW-0333P QARD	O	C	12.2.1A. :1s
C	II.13.	OQA	DOE/RW-0333P QARD	O	C	13.2.1A.
C	II.14. :1s	OQA	DOE/RW-0333P QARD	O	C	14.2.1A. 14.2.1B. 14.2.2A. 14.2.2B.
C	II.14. :2s	OQA	DOE/RW-0333P QARD	O	C	14.2.2C.
C	II.14. :3s	OQA	DOE/RW-0333P QARD	O	C	14.2.2D.
C	II.14. :4s	OQA	DOE/RW-0333P QARD	O	C	14.2.2E.
C	II.15. :1s	OQA	DOE/RW-0333P QARD	O	C	15.2.1F.
C	II.15. :2s	OQA	DOE/RW-0333P QARD	O	C	15.2.1A. 15.2.1B. :2s 15.2.1B. :3s 15.2.1C. 15.2.3A.
C	II.16. :1s	OQA	DOE/RW-0333P QARD	O	C	16.2.1 16.2.2B.1. 16.2.3A. 16.2.3C.
C	II.16. :2s	OQA	DOE/RW-0333P QARD	O	C	16.2.4E. :2s
C	II.16. :3s	OQA	DOE/RW-0333P QARD	O	C	16.2.4B. 16.2.5
C	II.17. :1s	OQA	DOE/RW-0333P QARD	O	C	17.2.2A.1. 17.2.2A.2. 17.2.2B. 17.2.3A.

Requirement status	Requirement id	Implmtng owner	Implementing document id	Revision/ Effective	Implmtng status	Implementing requirement id
C	II.17. :1s	OQA	DOE/RW-0333P QARD	O	C	17.2.3B. 17.2.3C. 17.2.3D. 17.2.3E. :1s 17.2.3E. :2s1. 17.2.3E. :2s2. 17.2.3E. :2s3. 17.2.3F. 17.2.4A. 17.2.4B. 17.2.5A.1. 17.2.5A.2. 17.2.5A.3. 17.2.5A.4. 17.2.5A.5. 17.2.5A.6. 17.2.5A.7. 17.2.5B.1. 17.2.5B.2. 17.2.5B.3. 17.2.5B.4.
C	II.17. :2s	OQA	DOE/RW-0333P QARD	O	C	17.2.2B. 17.2.3C. 17.2.3E. :1s 17.2.3E. :2s1. 17.2.3E. :2s2. 17.2.3E. :2s3. 17.2.5A.5. 17.2.5A.6. 17.2.6A. 17.2.6B. :1s 17.2.6B. :2s
C	II.17. :3s	OQA	DOE/RW-0333P QARD	O	C	17.2.2C. 17.2.3B. 17.2.5A.1. 17.2.5A.2. 17.2.5A.3. 17.2.5A.4. 17.2.5A.5. 17.2.5A.6. 17.2.5A.7. 17.2.5B.1. 17.2.5B.2. 17.2.5B.3. 17.2.5B.4.
C	II.17. :4s					

Requirement status	Requirement id	Implmtng owner	Implementing document id	Revision/ Effective	Implmtng status	Implementing requirement id
		OQA	DOE/RW-0333P QARD	O	C	5.2.2A.
C	II.17. :4s	OQA	DOE/RW-0333P QARD	O	C	17.2.2A.2. 17.2.2C. 17.2.3A. 17.2.3B. 17.2.3C. 17.2.3D. 17.2.3E. :1s 17.2.3E. :2s1. 17.2.3E. :2s2. 17.2.3E. :2s3. 17.2.3F. 17.2.5A.1. 17.2.5A.2. 17.2.5A.3. 17.2.5A.4. 17.2.5A.5. 17.2.5A.6. 17.2.5A.7. 17.2.5B.1. 17.2.5B.2. 17.2.5B.3. 17.2.5B.4. 17.2.7A. 17.2.7B. :1s 17.2.7B. :2s1. 17.2.7B. :2s2. 17.2.7B. :2s3. 17.2.8A. :1s 17.2.8A. :2s 17.2.8B. 17.2.8C.
C	II.18. :1s	OQA	DOE/RW-0333P QARD	O	C	18.2.1E. 18.2.1F. 18.2.2D.
C	II.18. :2s	OQA	DOE/RW-0333P QARD	O	C	18.2.5 :1s 18.2.7B.
C	II.18. :3s	OQA	DOE/RW-0333P QARD	O	C	18.2.7E. :1s
C	II.18. :4s	OQA	DOE/RW-0333P QARD	O	C	18.2.11
E	III.S-1	OQA	OSC LTR TO NRC (12/18/92)	Dec 92	C	NQA-1 GENERAL NOTE
C	III.1S-1 2.1(a)	OQA	DOE/RW-0333P QARD	O	C	1.2.3 :1s
C	III.1S-1 2.1(b)					

Requirement status	Requirement id	Implmtng owner	Implementing document id	Revision/ Effective	Implmtng status	Implementing requirement id
		OQA	DOE/RW-0333P QARD	0	C	1.2.3 :2s
C	III.1S-1 2.2	OQA	DOE/RW-0333P QARD	0	C	1.2.4 :1s
				0		1.2.4 :2s
C	III.1S-1 2.3	OQA	DOE/RW-0333P QARD	0	C	1.2.2 :3sG.
				0		15.2.1F.
C	III.1S-1 3.1	OQA	DOE/RW-0333P QARD	0	C	1.3.1A. :1s
				0		1.3.1A. :2s
				0		1.3.1A. :3s
				0		1.3.1A. :4s
				0		1.3.1A. :5s
				0		1.3.1B.
				0		1.3.1B.1.
				0		1.3.1B.2.
				0		1.3.2A.
				0		1.3.2B.1. :1s
				0		1.3.2B.1. :2s
				0		1.3.2B.2.
				0		1.3.2C.
				0		1.3.2D. :1s
				0		1.3.2D. :2s
				0		1.3.2D. :3s
				0		1.3.2E.
				0		1.3.2F. :1s
				0		1.3.2F. :2s
				0		1.3.2F. :3s
				0		1.3.2F. :4s
				0		1.3.2F. :5s
				0		1.3.2G. :1s
				0		1.3.2G. :2s
				0		1.3.2H.
				0		1.3.2I.
				0		1.3.3A.1. :1s
				0		1.3.3A.1. :2s
				0		1.3.3A.1. :3s
				0		1.3.3A.1.a.
				0		1.3.3A.1.b.
				0		1.3.3A.2. :1s
				0		1.3.3A.2. :2s
				0		1.3.3A.2. :3sa.
				0		1.3.3A.2. :3sb.
				0		1.3.3A.2. :3sc.
				0		1.3.3B. :1s
				0		1.3.3B. :2s
				0		1.3.3C.
				0		1.3.3D.
				0		2.2.2B. :1s

Requirement status	Requirement id	Implmtng owner	Implementing document id	Revision/ Effective	Implmtng status	Implementing requirement id
C	III.1S-1 3.1	OQA	DOE/RW-0333P QARD	O	C	2.2.2B. :2s1. 2.2.2B. :2s2. 2.2.2B. :2s3.1sthru2s 2.2.2B. :2s4.
C	III.1S-1 3.2.1	OQA	DOE/RW-0333P QARD	O	C	1.3.1A. :1s 1.3.1A. :2s 1.3.1A. :3s 1.3.1A. :4s 1.3.1A. :5s 1.3.1B. 1.3.1B.1. 1.3.1B.2. 1.3.2A. 1.3.2B.1. :1s 1.3.2B.1. :2s 1.3.2B.2. 1.3.2C. 1.3.2D. :1s 1.3.2D. :2s 1.3.2D. :3s 1.3.2E. 1.3.2F. :1s 1.3.2F. :2s 1.3.2F. :3s 1.3.2F. :4s 1.3.2F. :5s 1.3.2G. :1s 1.3.2G. :2s 1.3.2H. 1.3.2I. 1.3.3A.1. :1s 1.3.3A.1. :2s 1.3.3A.1. :3s 1.3.3A.1.a. 1.3.3A.1.b. 1.3.3A.2. :1s 1.3.3A.2. :2s 1.3.3A.2. :3sa. 1.3.3A.2. :3sb. 1.3.3A.2. :3sc. 1.3.3B. :1s 1.3.3B. :2s 1.3.3C. 1.3.3D. 2.2.2B. :2s3.1sthru2s
C	III.1S-1 3.2.2	OQA	DOE/RW-0333P QARD	O	C	1.3.1A. :1s

Requirement status	Requirement id	Implmtng owner	Implementing document id	Revision/ Effective	Implmtng status	Implementing requirement id
C	III.1S-1 3.2.2	OQA	DOE/RW-0333P QARD	O	C	1.3.1A. :2s 1.3.1A. :3s 1.3.1A. :4s 1.3.1A. :5s 1.3.1B. 1.3.1B.1. 1.3.1B.2. 1.3.2A. 1.3.2B.1. :1s 1.3.2B.1. :2s 1.3.2B.2. 1.3.2C. 1.3.2D. :1s 1.3.2D. :2s 1.3.2D. :3s 1.3.2E. 1.3.2F. :1s 1.3.2F. :2s 1.3.2F. :3s 1.3.2F. :4s 1.3.2F. :5s 1.3.2G. :1s 1.3.2G. :2s 1.3.2H. 1.3.2I. 1.3.3A.1. :1s 1.3.3A.1. :2s 1.3.3A.1. :3s 1.3.3A.1.a. 1.3.3A.1.b. 1.3.3A.2. :1s 1.3.3A.2. :2s 1.3.3A.2. :3sa. 1.3.3A.2. :3sb. 1.3.3A.2. :3sc. 1.3.3B. :1s 1.3.3B. :2s 1.3.3C. 1.3.3D. 2.2.2B. :2s3.1sthru2s 5.2.2A.
C	III.2S-1 2.1 :1p1s	OQA	DOE/RW-0333P QARD	O	C	2.2.12 10.2.1A. 10.2.1E. 11.2.1B. 11.2.1I.
C	III.2S-1 2.1 :1p2s					

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C	III.2S-1 2.1 :1p2s	OQA	DOE/RW-0333P QARD	O	C	5.2
C	III.2S-1 2.1 :2p	OQA	DOE/RW-0333P QARD	O	C	10.2.2A. 11.2.2A.
C	III.2S-1 2.2	OQA	DOE/RW-0333P QARD	O	C	10.2.2B. 11.2.6
C	III.2S-1 2.3	OQA	DOE/RW-0333P QARD	O	C	10.2.9A. :2s
C	III.2S-1 2.4 :1s	OQA	DOE/RW-0333P QARD	O	C	10.2.9C.1.
C	III.2S-1 2.4 :2s	OQA	DOE/RW-0333P QARD	O	C	10.2.9C.2.
C	III.2S-1 2.5	OQA	DOE/RW-0333P QARD	O	C	10.2.9C.3.
C	III.2S-1 2.6 :1s	OQA	DOE/RW-0333P QARD	O	C	10.2.9B. :1s 10.2.9B. :2s
C	III.2S-1 2.6 :2s	OQA	DOE/RW-0333P QARD	O	C	10.2.9H.1.
C	III.2S-1 2.6 :3s	OQA	DOE/RW-0333P QARD	O	C	10.2.9H.1.a.
C	III.2S-1 2.6 :4s	OQA	DOE/RW-0333P QARD	O	C	10.2.9H.1.b.
C	III.2S-1 2.7 (a)	OQA	DOE/RW-0333P QARD	O	C	10.2.9H.2.
C	III.2S-1 2.7 (b)	OQA	DOE/RW-0333P QARD	O	C	10.2.9G. :1s 10.2.9G. :2s1.
C	III.2S-1 2.7 (c)	OQA	DOE/RW-0333P QARD	O	C	10.2.9G. :1s 10.2.9G. :2s2.
C	III.2S-1 2.7 (d) (1)	OQA	DOE/RW-0333P QARD	O	C	10.2.9G. :1s 10.2.9G. :2s3.
C	III.2S-1 2.7 (d) (2)	OQA	DOE/RW-0333P QARD	O	C	10.2.9G. :1s 10.2.9G. :2s4.
C	III.2S-1 2.7 (d) (3)	OQA	DOE/RW-0333P QARD	O	C	10.2.9G. :1s 10.2.9G. :2s4.
C	III.2S-1 2.7 (e)	OQA	DOE/RW-0333P QARD	O	C	10.2.9G. :1s 10.2.9G. :2s4.
C	III.2S-1 2.7 (f)	OQA	DOE/RW-0333P QARD	O	C	10.2.9G. :1s 10.2.9G. :2s5.

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C	III.2S-1 2.7 (f)	OQA	DOE/RW-0333P QARD	O	C	10.2.9G. :2s6.
C	III.2S-1 2.7 (g)	OQA	DOE/RW-0333P QARD	O	C	10.2.9G. :1s 10.2.9G. :2s8.
C	III.2S-1 2.7 (h)	OQA	DOE/RW-0333P QARD	O	C	10.2.9G. :1s 10.2.9G. :2s7.
C	III.2S-1 2.8	OQA	DOE/RW-0333P QARD	O	C	10.2.9F.
C	III.2S-1 3.1 :1s	OQA	DOE/RW-0333P QARD	O	C	10.2.9I.1. :1s 10.2.9I.2.a. :1s 10.2.9I.2.a. :2s 10.2.9I.2.b. :1s 10.2.9I.2.b. :2s 10.2.9I.2.c. 10.2.9I.2.d. :1s 10.2.9I.2.d. :2s
C	III.2S-1 3.1 :2s	OQA	DOE/RW-0333P QARD	O	C	10.2.9I.1. :2s
C	III.2S-2 2.1	OQA	DOE/RW-0333P QARD	O	C	9.2.3A. 9.2.3B.
C	III.2S-2 2.2	OQA	DOE/RW-0333P QARD	O	C	9.2.3C.
C	III.2S-2 2.3	OQA	DOE/RW-0333P QARD	O		17.2.1A.6.
C	III.2S-3 2.1 :1s	OQA	DOE/RW-0333P QARD	O	C	18.2.6C. 18.2.6D. :1s 18.2.6D. :2s 18.2.12 18.2.13 :1s 18.2.14A. 18.2.14B.
C	III.2S-3 2.1 :2s	OQA	DOE/RW-0333P QARD	O	C	18.2.6F.
C	III.2S-3 2.1 :3s	OQA	DOE/RW-0333P QARD	O	C	18.2.13 :1s
C	III.2S-3 2.1 :4s (a)	OQA	DOE/RW-0333P QARD	O	C	18.2.13 :2sA.
C	III.2S-3 2.1 :4s (b) 1s	OQA	DOE/RW-0333P QARD	O	C	18.2.13 :2sB.
C	III.2S-3 2.1 :4s (b) 2s	OQA	DOE/RW-0333P QARD	O	C	18.2.13 :2sB.1.
C	III.2S-3 2.1 :4s (b) 3s	OQA	DOE/RW-0333P QARD	O	C	18.2.13 :2sB.2.
C	III.2S-3 2.1 :4s (c) 1s					

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C	III.2S-3 2.1 :4s(c)2s	OQA	DOE/RW-0333P QARD	O	C	18.2.13 :2sC.1s
C	III.2S-3 3.	OQA	DOE/RW-0333P QARD	O	C	18.2.13 :2sC.2s
C	III.2S-3 3.1 :1s	OQA	DOE/RW-0333P QARD	O	C	18.2.14B.
C	III.2S-3 3.1 :2s	OQA	DOE/RW-0333P QARD	O	C	18.2.16 :1s
C	III.2S-3 3.2 :1s	OQA	DOE/RW-0333P QARD	O	C	18.2.16 :2s
C	III.2S-3 3.2 :2s	OQA	DOE/RW-0333P QARD	O	C	18.2.17A.
C	III.2S-3 3.2.1	OQA	DOE/RW-0333P QARD	O	C	18.2.17B.
C	III.2S-3 3.2.2	OQA	DOE/RW-0333P QARD	O	C	18.2.17B.1.
C	III.2S-3 3.2.3	OQA	DOE/RW-0333P QARD	O	C	18.2.17B.2.
C	III.2S-3 3.2.4	OQA	DOE/RW-0333P QARD	O	C	18.2.17B.3. :1s 18.2.17B.3. :2s
C	III.2S-3 3.2.5	OQA	DOE/RW-0333P QARD	O	C	18.2.17B.4.
C	III.2S-3 3.3	OQA	DOE/RW-0333P QARD	O	C	18.2.17B.5.
C	III.2S-3 3.4 :1s	OQA	DOE/RW-0333P QARD	O	C	18.2.18 :1s 18.2.18 :2s
C	III.2S-3 3.4 :2s	OQA	DOE/RW-0333P QARD	O	C	18.2.19A. :1s
C	III.2S-3 3.4 :3s	OQA	DOE/RW-0333P QARD	O	C	18.2.19A. :2s
C	III.2S-3 4.1 :1s	OQA	DOE/RW-0333P QARD	O	C	18.2.19B. :1s 18.2.19B. :2s1. 18.2.19B. :2s2.
C	III.2S-3 4.1 :2s	OQA	DOE/RW-0333P QARD	O	C	18.2.21A.1. 18.2.21A.2. 18.2.21A.3.
C	III.2S-3 4.1 :3s	OQA	DOE/RW-0333P QARD	O	C	18.2.21B. :1s 18.2.21B. :2s
C	III.2S-3 4.2 :1s	OQA	DOE/RW-0333P QARD	O	C	18.2.21B. :3s
C	III.2S-3 4.2 :2s	OQA	DOE/RW-0333P QARD	O	C	18.2.21C.
C	III.2S-3 5.1 :1s	OQA	DOE/RW-0333P QARD	O	C	18.2.21C.

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		OQA	DOE/RW-0333P QARD	O	C	18.2.13 :1s
C	III.2S-3 5.1 :1s	OQA	DOE/RW-0333P QARD	O	C	18.2.17A.
C	III.2S-3 5.1 :2s	OQA	DOE/RW-0333P QARD	O	C	18.2.5 :1s
C	III.2S-3 5.1 :3s	OQA	DOE/RW-0333P QARD	O	C	18.2.6B. 18.2.6F.
C	III.2S-3 5.2 :1s	OQA	DOE/RW-0333P QARD	O	C	18.2.19B. :1s
C	III.2S-3 5.2 :2s	OQA	DOE/RW-0333P QARD	O	C	18.2.19B. :1s
C	III.2S-3 5.2 :3s	OQA	DOE/RW-0333P QARD	O	C	18.2.19B. :2s1.
C	III.2S-3 5.2 :4s	OQA	DOE/RW-0333P QARD	O	C	18.2.19B. :2s2.
C	III.2S-3 6.1	OQA	DOE/RW-0333P QARD	O	C	17.2.1A.6.
C	III.2S-3 6.2 :1s	OQA	DOE/RW-0333P QARD	O	C	18.2.20 :1s
C	III.2S-3 6.2 :2s (a)	OQA	DOE/RW-0333P QARD	O	C	18.2.20 :2sA.
C	III.2S-3 6.2 :2s (b)	OQA	DOE/RW-0333P QARD	O	C	18.2.20 :2sB.
C	III.2S-3 6.2 :2s (c)	OQA	DOE/RW-0333P QARD	O	C	18.2.20 :2sC.
C	III.2S-3 6.2 :2s (d)	OQA	DOE/RW-0333P QARD	O	C	18.2.20 :2sD.
C	III.2S-3 6.2 :2s (e)	OQA	DOE/RW-0333P QARD	O	C	18.2.20 :2sE.
C	III.2S-3 6.3	OQA	DOE/RW-0333P QARD	O	C	17.2.1A.6. 18.2.21B. :1s 18.2.21B. :2s 18.2.21B. :3s
C	III.2S-4 2. :1p1sthru2s	OQA	DOE/RW-0333P QARD	O	C	2.2.11 :1s
C	III.2S-4 2. :1p3s (a)	OQA	DOE/RW-0333P QARD	O	C	2.2.11 :2sD.
C	III.2S-4 2. :1p3s (b)	OQA	DOE/RW-0333P QARD	O	C	2.2.11 :2sE.
C	III.2S-4 2. :2p	OQA	DOE/RW-0333P QARD	O	C	2.2.3C. :1s
C	III.2S-4 3. (a)	OQA	DOE/RW-0333P QARD	O	C	2.2.11 :2sJ.1.
C	III.2S-4 3. (b)	OQA	DOE/RW-0333P QARD	O	C	2.2.11 :2sJ.2.
C	III.2S-4 3. (c)	OQA	DOE/RW-0333P QARD	O	C	2.2.11 :2sJ.3.

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C	III.2S-4 4. (a)	OQA	DOE/RW-0333P QARD	0	C	2.2.11 :2sC.
C	III.2S-4 4. (b)	OQA	DOE/RW-0333P QARD	0	C	2.2.11 :2sC.
C	III.2S-4 4. (c)	OQA	DOE/RW-0333P QARD	0	C	2.2.11 :2sC.
C	III.2S-4 5. (a)	OQA	DOE/RW-0333P QARD	0	C	2.2.11 :2sI. 17.2.1A.6.
C	III.2S-4 5. (b)	OQA	DOE/RW-0333P QARD	0	C	2.2.11 :2sI. 17.2.1A.6.
C	III.2S-4 5. (c)	OQA	DOE/RW-0333P QARD	0	C	2.2.11 :2sI. 17.2.1A.6.
C	III.3S-1 2. :1s	OQA	DOE/RW-0333P QARD	0	C	3.2.1A.
C	III.3S-1 2. :2s	OQA	DOE/RW-0333P QARD	0	C	3.2.1B.
C	III.3S-1 2. :3s	OQA	DOE/RW-0333P QARD	0	C	3.2.1C.
C	III.3S-1 3. :1p1s	OQA	DOE/RW-0333P QARD	0	C	3.2.2A.
C	III.3S-1 3. :1p2s	OQA	DOE/RW-0333P QARD	0	C	3.2.2B.
C	III.3S-1 3. :1p3s	OQA	DOE/RW-0333P QARD	0	C	3.2.2C.
C	III.3S-1 3. :2p1s	OQA	DOE/RW-0333P QARD	0	C	3.2.2D.
C	III.3S-1 3. :2p2s	OQA	DOE/RW-0333P QARD	0	C	3.2.2E.
C	III.3S-1 3. :2p3s	OQA	DOE/RW-0333P QARD	0	C	3.2.2F.
C	III.3S-1 3. :2p4s (a)	OQA	DOE/RW-0333P QARD	0	C	3.2.2G.
C	III.3S-1 3. :2p4s (b) 1s	OQA	DOE/RW-0333P QARD	0	C	3.2.2H. :1s
C	III.3S-1 3. :2p4s (b) 2s	OQA	DOE/RW-0333P QARD	0	C	3.2.2H. :2s
C	III.3S-1 3.1 :1s	OQA	DOE/RW-0333P QARD	0	C	3.2.3A.
C	III.3S-1 3.1 :2s	OQA	DOE/RW-0333P QARD	0	C	3.2.3B.
C	III.3S-1 3.1 :3s	OQA	DOE/RW-0333P QARD	0	C	3.2.2G.
C	III.3S-1 3.1 :4s	OQA	DOE/RW-0333P QARD	0	C	3.2.3C.
C	III.3S-1 3.1 (a) (1)	OQA	DOE/RW-0333P QARD	0	C	3.2.3D.

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C	III.3S-1 3.1(a) (2) :1s	OQA	DOE/RW-0333P QARD	O	C	3.2.3E.5. III.2.6A.
C	III.3S-1 3.1(a) (2) :2s	OQA	DOE/RW-0333P QARD	O	C	3.2.3D.
C	III.3S-1 3.1(a) (2) :3s	OQA	DOE/RW-0333P QARD	O	C	3.2.3D.
C	III.3S-1 3.1(b) (1)	OQA	DOE/RW-0333P QARD	O	C	3.2.3E.1.
C	III.3S-1 3.1(b) (2)	OQA	DOE/RW-0333P QARD	O	C	3.2.3E.2.
C	III.3S-1 3.1(b) (3)	OQA	DOE/RW-0333P QARD	O	C	3.2.3E.3.
C	III.3S-1 3.1(b) (4)	OQA	DOE/RW-0333P QARD	O	C	3.2.3E.4.
C	III.3S-1 3.1(b) (5)	OQA	DOE/RW-0333P QARD	O	C	3.2.3E.5.
C	III.3S-1 3.1(b) (6)	OQA	DOE/RW-0333P QARD	O	C	3.2.3E.6.
C	III.3S-1 4. :1p1s	OQA	DOE/RW-0333P QARD	O	C	3.2.4A.1. 3.2.4A.2. 3.2.4A.3.
C	III.3S-1 4. :1p2s	OQA	DOE/RW-0333P QARD	O	C	3.2.3D.
C	III.3S-1 4. :1p3s	OQA	DOE/RW-0333P QARD	O	C	3.2.4B.
C	III.3S-1 4. :1p4s	OQA	DOE/RW-0333P QARD	O	C	3.2.4C.
C	III.3S-1 4. :1p5s	OQA	DOE/RW-0333P QARD	O	C	3.2.4D. :1s
C	III.3S-1 4. :1p6s	OQA	DOE/RW-0333P QARD	O	C	3.2.4D. :2s1. 3.2.4D. :2s2.
C	III.3S-1 4. :1p7s	OQA	DOE/RW-0333P QARD	O	C	3.2.4D. :2s3.
C	III.3S-1 4. :2p1s	OQA	DOE/RW-0333P QARD	O	C	3.2.4E.
C	III.3S-1 4. :2p2s	OQA	DOE/RW-0333P QARD	O	C	3.2.4E.1.
C	III.3S-1 4. :2p3s	OQA	DOE/RW-0333P QARD	O	C	3.2.4E.2. :1s
C	III.3S-1 4. :2p4s	OQA	DOE/RW-0333P QARD	O	C	3.2.4E.3.
C	III.3S-1 4.1 :1p1sthru3s	OQA	DOE/RW-0333P QARD	O	C	3.2.4G. 3.2.4H.1.
C	III.3S-1 4.1 :1p4s	OQA	DOE/RW-0333P QARD	O	C	3.2.4H.2.

Requirement status	Requirement id	Implmtng owner	Implementing document id	Revision/ Effective	Implmtng status	Implementing requirement id
C	III.3S-1 4.1 :1p5s	OQA	DOE/RW-0333P QARD	0	C	3.2.4H.3.
C	III.3S-1 4.1 :2p	OQA	DOE/RW-0333P QARD	0	C	3.2.4H.4. :1s 3.2.4H.4. :2s
C	III.3S-1 4.2	OQA	DOE/RW-0333P QARD	0	C	3.2.4A.1. 3.2.4A.2. 3.2.4A.3.
C	III.3S-1 4.2.1 :1sthru2s (a)	OQA	DOE/RW-0333P QARD	0	C	3.2.5A.
C	III.3S-1 4.2.1 :1sthru2s (b) 1s	OQA	DOE/RW-0333P QARD	0	C	3.2.5B.
C	III.3S-1 4.2.1 :1sthru2s (b) 2s	OQA	DOE/RW-0333P QARD	0	C	3.2.5B.
C	III.3S-1 4.2.1 :1sthru2s (c)	OQA	DOE/RW-0333P QARD	0	C	3.2.5C.
C	III.3S-1 4.2.1 :1sthru2s (d)	OQA	DOE/RW-0333P QARD	0	C	3.2.7D.
C	III.3S-1 4.2.1 :1sthru2s (e)	OQA	DOE/RW-0333P QARD	0	C	3.2.5D.
C	III.3S-1 4.2.1 :1sthru2s (f)	OQA	DOE/RW-0333P QARD	0	C	3.2.5E.
C	III.3S-1 4.2.2 :1sthru2s	OQA	DOE/RW-0333P QARD	0	C	3.2.6
C	III.3S-1 4.2.3 :1p1s	OQA	DOE/RW-0333P QARD	0	C	3.2.7A.
C	III.3S-1 4.2.3 :1p2s	OQA	DOE/RW-0333P QARD	0	C	3.2.7B.
C	III.3S-1 4.2.3 :1p3s	OQA	DOE/RW-0333P QARD	0	C	3.2.7C. :1s
C	III.3S-1 4.2.3 :1p4s	OQA	DOE/RW-0333P QARD	0	C	3.2.7C. :2s
C	III.3S-1 4.2.3 :1p5s	OQA	DOE/RW-0333P QARD	0	C	3.2.7D.
C	III.3S-1 4.2.3 :1p6s	OQA	DOE/RW-0333P QARD	0	C	3.2.7E.
C	III.3S-1 4.2.3 :2p1s	OQA	DOE/RW-0333P QARD	0	C	3.2.7F.
C	III.3S-1 4.2.3 :2p2s	OQA	DOE/RW-0333P QARD	0	C	3.2.7G.
C	III.3S-1 4.2.3 :2p3s	OQA	DOE/RW-0333P QARD	0	C	3.2.7H.
C	III.3S-1 5. :1p1s	OQA	DOE/RW-0333P QARD	0	C	3.2.8A.
C	III.3S-1 5. :1p2s	OQA	DOE/RW-0333P QARD	0	C	3.2.8B.
C	III.3S-1 5. :1p3s	OQA	DOE/RW-0333P QARD	0	C	3.2.8C.

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C	III.3S-1 5. :1p3s	OQA	DOE/RW-0333P QARD	O	C	3.2.8C.1.
C	III.3S-1 5. :1p4s	OQA	DOE/RW-0333P QARD	O	C	3.2.8C.2.
C	III.3S-1 5. :2p	OQA	DOE/RW-0333P QARD	O	C	3.2.8D. :1s
C	III.3S-1 6. :1p1s	OQA	DOE/RW-0333P QARD	O	C	3.2.9A. 3.2.9B.
C	III.3S-1 6. :1p2s	OQA	DOE/RW-0333P QARD	O	C	3.2.9C.
C	III.3S-1 6. :2p1s	OQA	DOE/RW-0333P QARD	O	C	3.2.9D.
C	III.3S-1 6. :2p2s	OQA	DOE/RW-0333P QARD	O	C	3.2.9E. :1s 3.2.9E. :2s
C	III.3S-1 6. :2p3s	OQA	DOE/RW-0333P QARD	O	C	3.2.9F.
C	III.3S-1 7. :1p	OQA	DOE/RW-0333P QARD	O	C	17.2.1A.1. 17.2.1A.2. 17.2.1A.7.
C	III.3S-1 7. :2p	OQA	DOE/RW-0333P QARD	O	C	3.2.1A.
C	III.4S-1 2.	OQA	DOE/RW-0333P QARD	O	C	4.2.1A. 4.2.1B.1. 4.2.1B.2. :1s 4.2.1B.2. :2s 4.2.1B.3. 4.2.1C.1. :1s 4.2.1C.1. :2s 4.2.1C.2. 4.2.1C.3. :1s 4.2.1C.3. :2s 4.2.1D. 4.2.1E. 4.2.1F. 4.2.1F.1. 4.2.1G. 4.2.1H.
C	III.4S-1 2.1	OQA	DOE/RW-0333P QARD	O	C	4.2.1A.
C	III.4S-1 2.2 :1s	OQA	DOE/RW-0333P QARD	O	C	4.2.1B.1.
C	III.4S-1 2.2 :2s	OQA	DOE/RW-0333P QARD	O	C	4.2.1B.2. :1s 4.2.1B.2. :2s
C	III.4S-1 2.2 :3s					

Requirement status	Requirement id	Implmtng owner	Implementing document id	Revision/ Effective	Implmtng status	Implementing requirement id
C	III.4S-1 2.3 :1s	OQA	DOE/RW-0333P QARD	O	C	4.2.1B.3.
C	III.4S-1 2.3 :2s	OQA	DOE/RW-0333P QARD	O	C	4.2.1C.1. :1s
C	III.4S-1 2.3 :3s	OQA	DOE/RW-0333P QARD	O	C	4.2.1C.1. :2s
C	III.4S-1 2.4	OQA	DOE/RW-0333P QARD	O	C	4.2.1C.2.
C	III.4S-1 2.5 :1s	OQA	DOE/RW-0333P QARD	O	C	4.2.1D.
C	III.4S-1 2.5 :2s	OQA	DOE/RW-0333P QARD	O	C	4.2.1F.
C	III.4S-1 2.5 :3s	OQA	DOE/RW-0333P QARD	O	C	4.2.1F.1.
C	III.4S-1 2.6	OQA	DOE/RW-0333P QARD	O	C	4.2.1F.2.
C	III.4S-1 2.7	OQA	DOE/RW-0333P QARD	O	C	4.2.1G.
C	III.4S-1 3. :1p	OQA	DOE/RW-0333P QARD	O	C	4.2.1H.
C	III.4S-1 3. :2p	OQA	DOE/RW-0333P QARD	O	C	4.2.2B.
C	III.4S-1 3. :3p1s	OQA	DOE/RW-0333P QARD	O	C	4.2.2A.
C	III.4S-1 3. :3p2s	OQA	DOE/RW-0333P QARD	O	C	4.2.3B. :1s
C	III.4S-1 3. :3p3s (a)	OQA	DOE/RW-0333P QARD	O	C	4.2.3B. :2s
C	III.4S-1 3. :3p3s (b)	OQA	DOE/RW-0333P QARD	O	C	4.2.3B. :3s1.
C	III.4S-1 3. :3p3s (c)	OQA	DOE/RW-0333P QARD	O	C	4.2.3B. :3s2.
C	III.4S-1 3. :4p	OQA	DOE/RW-0333P QARD	O	C	4.2.3B. :3s3.
C	III.4S-1 4.	OQA	DOE/RW-0333P QARD	O	C	4.2.2D.
C	III.6S-1 1. :2p	OQA	DOE/RW-0333P QARD	O	C	4.2.3A.
C	III.6S-1 2. (a)	OQA	DOE/RW-0333P QARD	O	C	6.2.1
C	III.6S-1 2. (b)	OQA	DOE/RW-0333P QARD	O	C	6.2.1
C	III.6S-1 2. (c)	OQA	DOE/RW-0333P QARD	O	C	6.2.5A.
				O	C	5.2.2A.
				O	C	6.2.2
				O	C	2.2.9
				O	C	2.2.9A. :2s
				O	C	6.2.3

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C	III.6S-1 3.1 :1s	OQA	DOE/RW-0333P QARD	O O Dec 92	C	6.2.6 6.2.7 NQA-1 NOTE 6.1
C	III.6S-1 3.1 :2s	OQA	DOE/RW-0333P QARD	O O	C	2.2.9B. 6.2.6
C	III.6S-1 3.2 :1s	OQA	DOE/RW-0333P QARD	O	C	6.2.8
C	III.6S-1 3.2 :2s	OQA	DOE/RW-0333P QARD	O O O O O	C	6.2.8A.1. 6.2.8A.2. 6.2.8A.3. 6.2.8A.4. 6.2.8B.
C	III.7S-1 2. :1p1s	OQA	DOE/RW-0333P QARD	O	C	7.2.1 :1s
C	III.7S-1 2. :1p2s	OQA	DOE/RW-0333P QARD	O	C	7.2.1 :2sA.
C	III.7S-1 2. :2p(a)	OQA	DOE/RW-0333P QARD	O	C	7.2.1 :2sB.
C	III.7S-1 2. :2p(b)	OQA	DOE/RW-0333P QARD	O	C	7.2.1 :2sB.
C	III.7S-1 2. :2p(c)	OQA	DOE/RW-0333P QARD	O	C	7.2.1 :2sB.
C	III.7S-1 2. :2p(d)	OQA	DOE/RW-0333P QARD	O	C	7.2.1 :2sB.
C	III.7S-1 2. :3p	OQA	DOE/RW-0333P QARD	O	C	7.2.1 :2sE.
C	III.7S-1 2. :4p1s	OQA	DOE/RW-0333P QARD	O	C	7.2.1 :2sC.
C	III.7S-1 2. :4p2s (a)	OQA	DOE/RW-0333P QARD	O	C	7.2.1 :2sD.1.
C	III.7S-1 2. :4p2s (b)	OQA	DOE/RW-0333P QARD	O O	C	7.2.1 :2sC. 7.2.1 :2sD.2.
C	III.7S-1 2. :4p2s (c)	OQA	DOE/RW-0333P QARD	O	C	7.2.1 :2sD.3.
C	III.7S-1 2. :4p2s (d)	OQA	DOE/RW-0333P QARD	O	C	7.2.1 :2sD.4.
C	III.7S-1 2. :4p2s (e)	OQA	DOE/RW-0333P QARD	O	C	7.2.1 :2sD.5.
C	III.7S-1 2. :4p2s (f)	OQA	DOE/RW-0333P QARD	O	C	7.2.1 :2sD.6.
C	III.7S-1 2. :4p2s (g)	OQA	DOE/RW-0333P QARD	O	C	7.2.1 :2sD.7.
C	III.7S-1 2. :4p2s (h)	OQA	DOE/RW-0333P QARD	O	C	7.2.1 :2sD.8.
C	III.7S-1 2. :4p2s (i)	OQA	DOE/RW-0333P QARD	O	C	7.2.1 :2sD.8.

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C	III.7S-1 3.1 :1p	OQA	DOE/RW-0333P QARD	O	C	7.2.1 :2sD.9.
C	III.7S-1 3.1 :2p	OQA	DOE/RW-0333P QARD	O	C	7.2.2A.
C	III.7S-1 3.1 :3p(a)1s	OQA	DOE/RW-0333P QARD	O	C	7.2.2B. :1s
C	III.7S-1 3.1 :3p(a)2s	OQA	DOE/RW-0333P QARD	O	C	7.2.2C.1.
C	III.7S-1 3.1 :3p(b)	OQA	DOE/RW-0333P QARD	O	C	7.2.2C.1.
C	III.7S-1 3.1 :3p(c)	OQA	DOE/RW-0333P QARD	O	C	7.2.2C.2.
C	III.7S-1 4. :1p1s	OQA	DOE/RW-0333P QARD	O	C	7.2.2C.3.
C	III.7S-1 4. :1p2s(a)	OQA	DOE/RW-0333P QARD	O	C	7.2.3A. :1s 7.2.3A. :2s
C	III.7S-1 4. :1p2s(b)	OQA	DOE/RW-0333P QARD	O	C	7.2.3A. :3s1. 7.2.3B.
C	III.7S-1 4. :1p2s(c)	OQA	DOE/RW-0333P QARD	O	C	7.2.3A. :3s2. 7.2.3B.
C	III.7S-1 4. :1p2s(d)	OQA	DOE/RW-0333P QARD	O	C	7.2.3A. :3s3.
C	III.7S-1 4. :1p2s(e)	OQA	DOE/RW-0333P QARD	O	C	7.2.3A. :3s4.
C	III.7S-1 4. :1p2s(f)	OQA	DOE/RW-0333P QARD	O	C	7.2.3A. :3s5.
C	III.7S-1 4. :1p2s(g)	OQA	DOE/RW-0333P QARD	O	C	7.2.3A. :3s6.
C	III.7S-1 4. :2p	OQA	DOE/RW-0333P QARD	O	C	7.2.3A. :3s7.
C	III.7S-1 5. :1p1s	OQA	DOE/RW-0333P QARD OSC LTR TO NRC (12/18/92)	Dec 92	C	7.2.3C. NQA-1 NOTE 7.1
C	III.7S-1 5. :1p2s(a)	OQA	DOE/RW-0333P QARD	O	C	7.2.4A. :1s
C	III.7S-1 5. :1p2s(b)	OQA	DOE/RW-0333P QARD	O	C	7.2.4A. :2s1.
C	III.7S-1 5. :1p2s(c)	OQA	DOE/RW-0333P QARD	O	C	7.2.4A. :2s2.
C	III.7S-1 5. :1p2s(d)	OQA	DOE/RW-0333P QARD	O	C	7.2.4A. :2s3.
C	III.7S-1 5. :1p2s(e)	OQA	DOE/RW-0333P QARD	O	C	7.2.4A. :2s4.
C	III.7S-1 5. :1p2s(f)	OQA	DOE/RW-0333P QARD	O	C	7.2.4A. :2s5.
C	III.7S-1 5. :1p2s(f)	OQA	DOE/RW-0333P QARD	O	C	7.2.4A. :2s6.

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C	III.7S-1 5. :2p1s	OQA	DOE/RW-0333P QARD	O	C	7.2.4C. :1s
C	III.7S-1 5. :2p2s	OQA	DOE/RW-0333P QARD	O	C	7.2.4C. :1s
C	III.7S-1 5.1 :1s	OQA	DOE/RW-0333P QARD	O	C	7.2.4B.
C	III.7S-1 5.1 :2s	OQA	DOE/RW-0333P QARD	O	C	2.2.12
C	III.7S-1 5.2 :1p1s	OQA	DOE/RW-0333P QARD	O	C	7.2.5B. :2s
C	III.7S-1 5.2 :1p2s	OQA	DOE/RW-0333P QARD	O	C	7.2.8B. 7.2.9B. 15.2.1A. 15.2.4A. 16.2.3A. 16.2.4B. 18.2.8 :1s
C	III.7S-1 5.2 :2p	OQA	DOE/RW-0333P QARD	O	C	7.2.4C. :2s
C	III.7S-1 6. :1s	OQA	DOE/RW-0333P QARD	O	C	7.2.5A.
C	III.7S-1 6. :2s	OQA	DOE/RW-0333P QARD	O	C	7.2.5B. :1s
C	III.7S-1 6. :3s	OQA	DOE/RW-0333P QARD	O	C	7.2.5B. :2s
C	III.7S-1 7.	OQA	DOE/RW-0333P QARD	O	C	7.2.4A. :2s4.
C	III.7S-1 8.1 :1s	OQA	DOE/RW-0333P QARD	O	C	7.2.6A.1. 7.2.6A.2. 7.2.6A.3. 7.2.6A.4. 7.2.6A.5.
C	III.7S-1 8.1 :2s	OQA	DOE/RW-0333P QARD	O	C	7.2.6B.
C	III.7S-1 8.1 :3s	OQA	DOE/RW-0333P QARD	O	C	7.2.6C. :1s 7.2.6C. :2s
C	III.7S-1 8.2	OQA	DOE/RW-0333P QARD	O	C	7.2.6A.1. 7.2.6A.2.
C	III.7S-1 8.2.1(a)	OQA	DOE/RW-0333P QARD	O	C	7.2.7A.
C	III.7S-1 8.2.1(b) :1sthru2s	OQA	DOE/RW-0333P QARD	O	C	7.2.7B. :1s
C	III.7S-1 8.2.1(b) :3s	OQA	DOE/RW-0333P QARD	O	C	7.2.7B. :2s
C	III.7S-1 8.2.1(c)					

Requirement status	Requirement id	Implmtng owner	Implementing document id	Revision/ Effective	Implmtng status	Implementing requirement id
C	III.7S-1 8.2.1(d)	OQA	DOE/RW-0333P QARD	0	C	7.2.7C.
C	III.7S-1 8.2.1(e)	OQA	DOE/RW-0333P QARD	0	C	7.2.7D.
C	III.7S-1 8.2.1(f) :1s	OQA	DOE/RW-0333P QARD	0	C	7.2.7E.
C	III.7S-1 8.2.1(f) :2s	OQA	DOE/RW-0333P QARD	0	C	7.2.7F. :1s
C	III.7S-1 8.2.2 :1s	OQA	DOE/RW-0333P QARD	0	C	7.2.7F. :2s
C	III.7S-1 8.2.2 :2s	OQA	DOE/RW-0333P QARD	0	C	7.2.8A.
C	III.7S-1 8.2.2 :3s	OQA	DOE/RW-0333P QARD	0	C	7.2.8A.
C	III.7S-1 8.2.3 :1s	OQA	DOE/RW-0333P QARD	0	C	7.2.8B.
C	III.7S-1 8.2.3 :2s	OQA	DOE/RW-0333P QARD	0	C	7.2.9A.
C	III.7S-1 8.2.3 :3s	OQA	DOE/RW-0333P QARD	0	C	7.2.9B. 7.2.9C.
C	III.7S-1 8.2.4	OQA	DOE/RW-0333P QARD	0	C	7.2.9E.
C	III.7S-1 8.3(a)	OQA	DOE/RW-0333P QARD	0	C	7.2.10
C	III.7S-1 8.3(b)	OQA	DOE/RW-0333P QARD	0	C	7.2.6A.3.
C	III.7S-1 8.3(c)	OQA	DOE/RW-0333P QARD	0	C	7.2.6A.4.
C	III.7S-1 9. :1p	OQA	DOE/RW-0333P QARD	0	C	7.2.6A.5.
C	III.7S-1 9. :2p(a)	OQA	DOE/RW-0333P QARD	0	C	7.2.11
C	III.7S-1 9. :2p(b) 1s	OQA	DOE/RW-0333P QARD	0	C	7.2.11A.
C	III.7S-1 9. :2p(b) 2s	OQA	DOE/RW-0333P QARD	0	C	7.2.11B. :1s
C	III.7S-1 9. :2p(b) 3s (1)	OQA	DOE/RW-0333P QARD	0	C	7.2.11B. :1s
C	III.7S-1 9. :2p(b) 3s (2)	OQA	DOE/RW-0333P QARD	0	C	7.2.11B. :2s1.
C	III.7S-1 9. :2p(b) 3s (3)	OQA	DOE/RW-0333P QARD	0	C	7.2.11B. :2s2.
C	III.7S-1 9. :2p(b) 3s (4)	OQA	DOE/RW-0333P QARD	0	C	7.2.11B. :2s3.
C	III.7S-1 9. :2p(c)	OQA	DOE/RW-0333P QARD	0	C	7.2.11B. :2s4.
C	III.7S-1 9. :2p(d)	OQA	DOE/RW-0333P QARD	0	C	7.2.11C.

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		OQA	DOE/RW-0333P QARD	0	C	7.2.11D.
C	III.7S-1 9. :2p(e)	OQA	DOE/RW-0333P QARD	0	C	17.2.7A.
C	III.7S-1 10.(a) :1s	OQA	DOE/RW-0333P QARD	0	C	7.2.12A. :1s
C	III.7S-1 10.(a) :2s	OQA	DOE/RW-0333P QARD	0	C	7.2.12A. :2s
C	III.7S-1 10.(b)	OQA	DOE/RW-0333P QARD	0	C	7.2.12B.
C	III.7S-1 10.(c)	OQA	DOE/RW-0333P QARD	0	C	7.2.12C.
C	III.7S-1 10.(d) (1)	OQA	DOE/RW-0333P QARD	0	C	7.2.12D.1.
C	III.7S-1 10.(d) (2)	OQA	DOE/RW-0333P QARD	0	C	7.2.12D.2.
C	III.7S-1 10.(d) (3)	OQA	DOE/RW-0333P QARD	0	C	7.2.12D.3.
C	III.7S-1 10.(d) (4)	OQA	DOE/RW-0333P QARD	0	C	7.2.12D.4.
C	III.8S-1 2.1 :1s	OQA	DOE/RW-0333P QARD	0	C	8.2.1B.
C	III.8S-1 2.1 :2s	OQA	DOE/RW-0333P QARD	0	C	8.2.3A.
C	III.8S-1 2.2 :1s	OQA	DOE/RW-0333P QARD	0	C	8.2.2A. :1s
C	III.8S-1 2.2 :2s	OQA	DOE/RW-0333P QARD	0	C	8.2.2A. :2s
C	III.8S-1 2.3 :1s	OQA	DOE/RW-0333P QARD	0	C	8.2.2B.1.
				0		8.2.2B.2.
C	III.8S-1 2.3 :2s	OQA	DOE/RW-0333P QARD	0	C	8.2.2B.3.
				0		8.2.2B.4.
C	III.8S-1 3.1	OQA	DOE/RW-0333P QARD	0	C	8.2.4A.
C	III.8S-1 3.2	OQA	DOE/RW-0333P QARD	0	C	8.2.4B.
C	III.8S-1 3.3(1)	OQA	DOE/RW-0333P QARD	0	C	8.2.4C. :1s
				0		8.2.4C. :2s1.
C	III.8S-1 3.3(2)	OQA	DOE/RW-0333P QARD	0	C	8.2.4C. :1s
				0		8.2.4C. :2s2.
C	III.8S-1 3.3(3)	OQA	DOE/RW-0333P QARD	0	C	8.2.4C. :1s
				0		8.2.4C. :2s3.
C	III.9S-1 2. :1s	OQA	DOE/RW-0333P QARD	0	C	5.2
C	III.9S-1 2. :2s					

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		OQA	DOE/RW-0333P QARD	O	C	5.2.2E.
C	III.9S-1 2. :2s	OQA	DOE/RW-0333P QARD	O	C	9.2.2 :1s
C	III.9S-1 3.	OQA	DOE/RW-0333P QARD	O	C	5.2 9.2.2 :2sA.
C	III.9S-1 3.1	OQA	DOE/RW-0333P QARD	O	C	5.2.4A. 5.2.4B.
C	III.9S-1 3.1.1	OQA	DOE/RW-0333P QARD	O	C	5.2.4A. 5.2.4B. 9.2.2 :2sA.
C	III.9S-1 3.1.2 :1s	OQA	DOE/RW-0333P QARD	O	C	9.2.2 :2sB.1s
C	III.9S-1 3.1.2 :2s	OQA	DOE/RW-0333P QARD	O	C	9.2.2. :2sB.2s
C	III.9S-1 3.2	OQA	DOE/RW-0333P QARD	O	C	9.2.2 :2sC.
C	III.9S-1 3.3	OQA	DOE/RW-0333P QARD	O	C	17.2.1A.2. 17.2.1A.6. 17.2.1A.7.
C	III.9S-1 3.4	OQA	DOE/RW-0333P QARD	O	C	9.2.1A.
C	III.10S-1 2.1	OQA	DOE/RW-0333P QARD	O	C	10.2.2C. :2s
C	III.10S-1 2.2 :1p	OQA	DOE/RW-0333P QARD	O	C	10.2.2A.
C	III.10S-1 2.2 :2p	OQA	DOE/RW-0333P QARD	O	C	10.2.9C.3.a. 10.2.9C.3.b.
C	III.10S-1 3. :1s	OQA	DOE/RW-0333P QARD	O	C	10.2.3A.
C	III.10S-1 3. :2s	OQA	DOE/RW-0333P QARD	O	C	10.2.3B.
C	III.10S-1 4.1 :1s	OQA	DOE/RW-0333P QARD	O	C	10.2.1A. 10.2.1B. 10.2.1C. 10.2.1D. 10.2.1E. 10.2.1F. 10.2.1G. 10.2.1H. 10.2.1I.
C	III.10S-1 4.1 :2s	OQA	DOE/RW-0333P QARD	O	C	10.2.1B. 10.2.1C.

Requirement status	Requirement id	Implmtng owner	Implementing document id	Revision/ Effective	Implmtng status	Implementing requirement id
C	III.10S-1 4.1 :2s	OQA	DOE/RW-0333P QARD	O	C	10.2.1F. 10.2.1H.
C	III.10S-1 4.2	OQA	DOE/RW-0333P QARD	O	C	10.2.4.
C	III.10S-1 5.1 :1pls	OQA	DOE/RW-0333P QARD	O	C	10.2.5A. :1s
C	III.10S-1 5.1 :1p2s	OQA	DOE/RW-0333P QARD	O	C	10.2.5A. :2s
C	III.10S-1 5.1 :2p	OQA	DOE/RW-0333P QARD	O	C	10.2.5B.
C	III.10S-1 5.2.1	OQA	DOE/RW-0333P QARD	O	C	10.2.5C.
C	III.10S-1 5.2.2	OQA	DOE/RW-0333P QARD	O	C	10.2.5D.
C	III.10S-1 6.1 :1s	OQA	DOE/RW-0333P QARD	O	C	10.2.6C.
C	III.10S-1 6.1 :2s	OQA	DOE/RW-0333P QARD	O	C	10.2.1D.
C	III.10S-1 6.2 :1s	OQA	DOE/RW-0333P QARD	O	C	10.2.6A.
C	III.10S-1 6.2 :2s	OQA	DOE/RW-0333P QARD	O	C	10.2.6B.
C	III.10S-1 6.3	OQA	DOE/RW-0333P QARD	O	C	10.2.7A.
C	III.10S-1 6.4	OQA	DOE/RW-0333P QARD	O	C	10.2.6D.
E	III.10S-1 7.1	OQA	OSC LTR TO NRC (12/18/92)	Dec 92	C	NQA-1 NOTE 10.1
E	III.10S-1 7.2 :1s	OQA	OSC LTR TO NRC (12/18/92)	Dec 92	C	NQA-1 NOTE 10.1
E	III.10S-1 7.2 :2s	OQA	OSC LTR TO NRC (12/18/92)	Dec 92	C	NQA-1 NOTE 10.1
C	III.10S-1 8. (a)	OQA	DOE/RW-0333P QARD	O	C	10.2.8A.
C	III.10S-1 8. (b)	OQA	DOE/RW-0333P QARD	O	C	10.2.8B.
C	III.10S-1 8. (c)	OQA	DOE/RW-0333P QARD	O	C	10.2.8C. 10.2.8D.
C	III.10S-1 8. (d)	OQA	DOE/RW-0333P QARD	O	C	10.2.8E.
C	III.10S-1 08. (e)	OQA	DOE/RW-0333P QARD	O	C	10.2.8G.
C	III.10S-1 08. (f)	OQA	DOE/RW-0333P QARD	O	C	10.2.8I.
C	III.11S-1 2. :1s	OQA	DOE/RW-0333P QARD	O	C	11.2.2C.
C	III.11S-1 2. :2s	OQA	DOE/RW-0333P QARD	O	C	

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		OQA	DOE/RW-0333P QARD	O	C	11.2.1A.
C	III.11S-1 2. :2s	OQA	DOE/RW-0333P QARD	O	C	11.2.2A.
C	III.11S-1 2. :3s	OQA	DOE/RW-0333P QARD	O	C	11.2.2D.
C	III.11S-1 3. :1p1s	OQA	DOE/RW-0333P QARD	O	C	11.2.2B.
C	III.11S-1 3. :1p2s	OQA	DOE/RW-0333P QARD	O	C	11.2.1D. 11.2.2B.
C	III.11S-1 3. :2p1s	OQA	DOE/RW-0333P QARD	O	C	11.2.3A. :1s 11.2.3A. :2s
C	III.11S-1 3. :2p2s	OQA	DOE/RW-0333P QARD	O	C	11.2.3B.
C	III.11S-1 4.	OQA	DOE/RW-0333P QARD	O	C	11.2.4A.
C	III.11S-1 5.(a)	OQA	DOE/RW-0333P QARD	O	C	11.2.5A.
C	III.11S-1 5.(b)	OQA	DOE/RW-0333P QARD	O	C	11.2.5B.
C	III.11S-1 5.(c)	OQA	DOE/RW-0333P QARD	O	C	11.2.5C.
C	III.11S-1 5.(d)	OQA	DOE/RW-0333P QARD	O	C	11.2.5D.
C	III.11S-1 5.(e)	OQA	DOE/RW-0333P QARD	O	C	11.2.5F.
C	III.11S-1 5.(f)	OQA	DOE/RW-0333P QARD	O	C	11.2.5G.
C	III.11S-1 5.(g)	OQA	DOE/RW-0333P QARD	O	C	11.2.5H.
E	III.11S-2	OQA	OSC LTR TO NRC (12/18/92)	Dec 92	C	NQA-1 GENERAL NOTE
C	III.12S-1 2.	OQA	DOE/RW-0333P QARD	O	C	10.2.1H. 10.2.1I.
C	III.12S-1 3.1 :1s	OQA	DOE/RW-0333P QARD	O	C	12.2.1A. :1s
C	III.12S-1 3.1 :2s	OQA	DOE/RW-0333P QARD	O	C	12.2.1A. :2s
C	III.12S-1 3.2 :1s	OQA	DOE/RW-0333P QARD	O	C	12.2.1C. :1s
C	III.12S-1 3.2 :2s	OQA	DOE/RW-0333P QARD	O	C	12.2.3B. :2s2. 12.2.3B. :2s2.a.
C	III.12S-1 3.2 :3s	OQA	DOE/RW-0333P QARD	O	C	12.2.3A.1. 12.2.3A.2. 12.2.3B. :1s

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C	III.12S-1 3.2 :3s	OQA	DOE/RW-0333P QARD	O	C	12.2.3B. :2s1.
C	III.12S-1 3.2 :4s	OQA	DOE/RW-0333P QARD	O	C	12.2.3C.
C	III.12S-1 3.2 :5s	OQA	DOE/RW-0333P QARD	O	C	12.2.1D.
C	III.12S-1 3.3	OQA	DOE/RW-0333P QARD	O	C	12.2.5
C	III.12S-1 4.	OQA	DOE/RW-0333P QARD	O	C	12.2.4
C	III.12S-1 5.	OQA	DOE/RW-0333P QARD	O	C	12.2.1E. 12.2.1F. 12.2.6A. 12.2.6B. 12.2.6C. 12.2.6D. 12.2.6E. 12.2.6F. 12.2.6G. 12.2.6H.
C	III.13S-1 2.	OQA	DOE/RW-0333P QARD	O	C	13.2.1A.
C	III.13S-1 3.1	OQA	DOE/RW-0333P QARD	O	C	13.2.2A. 13.2.2B.
C	III.13S-1 3.2	OQA	DOE/RW-0333P QARD	O	C	13.2.1B.
C	III.13S-1 3.3 :1s	OQA	DOE/RW-0333P QARD	O	C	13.2.2C.
C	III.13S-1 3.3 :2s	OQA	DOE/RW-0333P QARD	O	C	13.2.2D.
C	III.13S-1 3.4	OQA	DOE/RW-0333P QARD	O	C	13.2.2E.
C	III.13S-1 4.	OQA	DOE/RW-0333P QARD	O	C	13.2.3A. 13.2.3B.
C	III.15S-1 2.(a) :1s	OQA	DOE/RW-0333P QARD	O	C	15.2.2A. :1s
C	III.15S-1 2.(a) :2s	OQA	DOE/RW-0333P QARD	O	C	15.2.2A. :2s
C	III.15S-1 2.(b)	OQA	DOE/RW-0333P QARD	O	C	15.2.2B.
C	III.15S-1 3.(a)	OQA	DOE/RW-0333P QARD	O	C	15.2.3A.
C	III.15S-1 3.(b)	OQA	DOE/RW-0333P QARD	O	C	15.2.3B.
C	III.15S-1 4.1 :1s	OQA	DOE/RW-0333P QARD	O	C	15.2.1B. :1s

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C	III.15S-1 4.1 :1s	OQA	DOE/RW-0333P QARD	O O	C	15.2.1B. :2s 15.2.1C.
C	III.15S-1 4.1 :2s	OQA	DOE/RW-0333P QARD	O	C	15.2.1F.
C	III.15S-1 4.2	OQA	DOE/RW-0333P QARD	O	C	15.2.1E.
C	III.15S-1 4.3	OQA	DOE/RW-0333P QARD	O	C	15.2.1D.
C	III.15S-1 4.4 :1p	OQA	DOE/RW-0333P QARD	O	C	15.2.4A.
C	III.15S-1 4.4 :2p1s	OQA	DOE/RW-0333P QARD	O	C	15.2.4B.
C	III.15S-1 4.4 :2p2s	OQA	DOE/RW-0333P QARD	O	C	15.2.4C.
C	III.15S-1 4.4 :2p3s	OQA	DOE/RW-0333P QARD	O O	C	15.2.4C.1. 15.2.4C.2.
C	III.15S-1 4.5	OQA	DOE/RW-0333P QARD	O O	C	15.2.4D. :1s 15.2.4D. :2s
E	III.17S-1 2.1 :1s	OQA	OSC LTR TO NRC (12/18/92)	Dec 92	C	NQA-1 NOTE 17.1
C	III.17S-1 2.1 :2s	OQA	DOE/RW-0333P QARD	O	C	5.2
C	III.17S-1 2.2 :1s	OQA	DOE/RW-0333P QARD	O O O	C	4.2.1F. 4.2.1F.1. 5.2.2H.
C	III.17S-1 2.2 :2s	OQA	DOE/RW-0333P QARD	O O	C	17.2.2A.1. 17.2.2B.
C	III.17S-1 2.3 :1s	OQA	DOE/RW-0333P QARD	O O	C	17.2.2D. :1s 17.2.2D. :2s
C	III.17S-1 2.3 :2s	OQA	DOE/RW-0333P QARD	O	C	17.2.2D. :2s
C	III.17S-1 2.3 :3s	OQA	DOE/RW-0333P QARD	O O	C	17.2.2D. :1s 17.2.2D. :2s
C	III.17S-1 2.3 :4s	OQA	DOE/RW-0333P QARD	O	C	17.2.2E.
C	III.17S-1 2.4 :1s	OQA	DOE/RW-0333P QARD	O	C	17.2.3E. :1s
C	III.17S-1 2.4 :2s	OQA	DOE/RW-0333P QARD	O O O	C	17.2.3E. :2s1. 17.2.3E. :2s2. 17.2.3E. :2s3.
C	III.17S-1 2.5					

Requirement status	Requirement id	Implmtng owner	Implementing document id	Revision/ Effective	Implmtng status	Implementing requirement id
		OQA	DOE/RW-0333P QARD	O	C	5.2
C	III.17S-1 2.6	OQA	DOE/RW-0333P QARD	O	C	17.2.3E. :2s2.
C	III.17S-1 2.7	OQA	DOE/RW-0333P QARD	O	C	17.2.1
C	III.17S-1 2.7.1 :1p(a)	OQA	DOE/RW-0333P QARD	O	C	17.2.1A.1. 17.2.1A.2. 17.2.1A.3. 17.2.1A.4. 17.2.1A.5. 17.2.1A.6. 17.2.1A.7.
C	III.17S-1 2.7.1 :1p(b)	OQA	DOE/RW-0333P QARD	O	C	17.2.1A.1. 17.2.1A.2. 17.2.1A.3. 17.2.1A.4. 17.2.1A.5. 17.2.1A.6. 17.2.1A.7.
C	III.17S-1 2.7.1 :1p(c)	OQA	DOE/RW-0333P QARD	O	C	17.2.1A.1. 17.2.1A.2. 17.2.1A.3. 17.2.1A.4. 17.2.1A.5. 17.2.1A.6. 17.2.1A.7.
C	III.17S-1 2.7.1 :1p(d)	OQA	DOE/RW-0333P QARD	O	C	17.2.1A.1. 17.2.1A.2. 17.2.1A.3. 17.2.1A.4. 17.2.1A.5. 17.2.1A.6. 17.2.1A.7.
C	III.17S-1 2.7.1 :2p	OQA	DOE/RW-0333P QARD	O	C	17.2.7A.
C	III.17S-1 2.7.2	OQA	DOE/RW-0333P QARD	O	C	17.2.1B.
C	III.17S-1 2.8 :1s	OQA	DOE/RW-0333P QARD	O	C	17.2.7A. 17.2.7B. :1s 17.2.7B. :2s1. 17.2.7B. :2s2. 17.2.7B. :2s3.
C	III.17S-1 2.8 :2s	OQA	DOE/EW-0333P QARD	O	C	17.2.7B. :1s

Requirement status	Requirement id	Implmtng owner	Implementing document id	Revision/ Effective	Implmtng status	Implementing requirement id
C	III.17S-1 2.9 :1s	OQA	DOE/RW-0333P QARD	O	C	17.2.4B.
C	III.17S-1 2.9 :2s	OQA	DOE/RW-0333P QARD	O	C	17.2.4A.
C	III.17S-1 3.1	OQA	DOE/RW-0333P QARD	O	C	17.2.3A. 17.2.3B.
C	III.17S-1 3.2 :1p1s	OQA	DOE/RW-0333P QARD	O	C	17.2.3A.
C	III.17S-1 3.2 :1p2s	OQA	DOE/RW-0333P QARD	O	C	17.2.3A. 17.2.3B. 17.2.3C. 17.2.3D. 17.2.3E. :1s 17.2.3E. :2s1. 17.2.3E. :2s2. 17.2.3E. :2s3. 17.2.3F.
C	III.17S-1 3.2 :2p(a)	OQA	DOE/RW-0333P QARD	O	C	17.2.3D. 17.2.5A.4.
C	III.17S-1 3.2 :2p(b)	OQA	DOE/RW-0333P QARD	O	C	17.2.3D. 17.2.5A.3.
C	III.17S-1 3.2 :2p(c)	OQA	DOE/RW-0333P QARD	O	C	17.2.3C. 17.2.5A.5.
C	III.17S-1 3.2 :2p(d)	OQA	DOE/RW-0333P QARD	O	C	17.2.3F.
C	III.17S-1 3.3	OQA	DOE/RW-0333P QARD	O	C	17.2.3D.
C	III.17S-1 4.1 :1p	OQA	DOE/RW-0333P QARD	O	C	17.2.5B.1. 17.2.5B.2. 17.2.5B.3. 17.2.5B.4. 17.2.9A.1. 17.2.9A.2. :1s 17.2.9A.2. :2s 17.2.9A.3. 17.2.9A.4. 17.2.9A.5. 17.2.9A.6. 17.2.9A.7. 17.2.9A.8. 17.2.9A.9. :1s 17.2.9A.9. :2s 17.2.9B.

Requirement status	Requirement id	Implmtng owner	Implementing document id	Revision/ Effective	Implmtng status	Implementing requirement id
C	III.17S-1 4.1 :1p	OQA	DOE/RW-0333P QARD	O O O O O	C	17.2.9C. 17.2.9D. 17.2.10A. 17.2.10B. 17.2.10C.
C	III.17S-1 4.1 :2p1s	OQA	DOE/RW-0333P QARD	O	C	5.2
C	III.17S-1 4.1 :2p2s(a)	OQA	DOE/RW-0333P QARD	O	C	17.2.5A.1.
C	III.17S-1 4.1 :2p2s(b)	OQA	DOE/RW-0333P QARD	O	C	17.2.5A.2.
C	III.17S-1 4.1 :2p2s(c)	OQA	DOE/RW-0333P QARD	O	C	17.2.5A.3.
C	III.17S-1 4.1 :2p2s(d)	OQA	DOE/RW-0333P QARD	O		17.2.5A.4.
C	III.17S-1 4.1 :2p2s(e)	OQA	DOE/RW-0333P QARD	O O O	C	17.2.5A.6. 17.2.6B. :1s 17.2.6B. :2s
C	III.17S-1 4.1 :2p2s(f)	OQA	DOE/RW-0333P QARD	O	C	17.2.5A.6.
C	III.17S-1 4.1 :2p2s(g)	OQA	DOE/RW-0333P QARD	O	C	17.2.5A.7.
C	III.17S-1 4.2 :1s	OQA	DOE/RW-0333P QARD	O O O O	C	17.2.5B.1. 17.2.5B.2. 17.2.5B.3. 17.2.5B.4.
C	III.17S-1 4.2 :2s(a)	OQA	DOE/RW-0333P QARD	O	C	17.2.5B.1.
C	III.17S-1 4.2 :2s(b)	OQA	DOE/RW-0333P QARD	O	C	17.2.5B.2.
C	III.17S-1 4.2 :2s(c)	OQA	DOE/RW-0333P QARD	O	C	17.2.5B.3.
C	III.17S-1 4.3 :1p1s	OQA	DOE/RW-0333P QARD	O	C	17.2.5B.4.
C	III.17S-1 4.3 :1p2s	OQA	DOE/RW-0333P QARD	O	C	17.2.5B.4.
C	III.17S-1 4.3 :2p	OQA	DOE/RW-0333P QARD	O	C	17.2.11
C	III.17S-1 4.4 :1p(a)	OQA	DOE/RW-0333P QARD	O	C	17.2.9B.
C	III.17S-1 4.4 :1p(b)	OQA	DOE/RW-0333P QARD	O	C	17.2.9B.
C	III.17S-1 4.4 :1p(c)	OQA	DOE/RW-0333P QARD	O	C	17.2.9B.
C	III.17S-1 4.4.1 :1p(a)	OQA	DOE/RW-0333P QARD	O	C	17.2.9A.1.

Requirement status	Requirement id	Implmtng owner	Implementing document id	Revision/ Effective	Implmtng status	Implementing requirement id
C	III.17S-1 4.4.1 :1p(b)1s	OQA	DOE/RW-0333P QARD	O	C	17.2.9A.2. :1s
C	III.17S-1 4.4.1 :1p(b)2s	OQA	DOE/RW-0333P QARD	O	C	17.2.9A.2. :2s
C	III.17S-1 4.4.1 :1p(c)	OQA	DOE/RW-0333P QARD	O	C	17.2.9A.3.
C	III.17S-1 4.4.1 :1p(d)	OQA	DOE/RW-0333P QARD	O	C	17.2.9A.4.
C	III.17S-1 4.4.1 :1p(e)	OQA	DOE/RW-0333P QARD	O	C	17.2.9A.5.
C	III.17S-1 4.4.1 :1p(f)	OQA	DOE/RW-0333P QARD	O	C	17.2.9A.6.
C	III.17S-1 4.4.1 :1p(g)	OQA	DOE/RW-0333P QARD	O	C	17.2.9A.7.
C	III.17S-1 4.4.1 :1p(h)	OQA	DOE/RW-0333P QARD	O	C	17.2.9A.8.
C	III.17S-1 4.4.1 :1p(i)	OQA	DOE/RW-0333P QARD	O	C	17.2.9A.9. :1s 17.2.9A.9. :2s
C	III.17S-1 4.4.1 :2p	OQA	DOE/RW-0333P QARD	O	C	17.2.9D.
C	III.17S-1 4.4.1 :3p	OQA	DOE/RW-0333P QARD	O	C	17.2.9C.
E	III.17S-1 4.4.2(a)	OQA	OSC LTR TO NRC (12/18/92)	Dec 92	C	NQA-1 NOTE 17.2
E	III.17S-1 4.4.2(b)	OQA	OSC LTR TO NRC (12/18/92)	Dec 92	C	NQA-1 NOTE 17.2
E	III.17S-1 4.4.2(c)	OQA	OSC LTR TO NRC (12/18/92)	Dec 92	C	NQA-1 NOTE 17.2
E	III.17S-1 4.4.2(c)(1)	OQA	OSC LTR TO NRC (12/18/92)	Dec 92	C	NQA-1 NOTE 17.2
E	III.17S-1 4.4.2(c)(2)	OQA	OSC LTR TO NRC (12/18/92)	Dec 92	C	NQA-1 NOTE 17.2
E	III.17S-1 4.4.2(c)(3)	OQA	OSC LTR TO NRC (12/18/92)	Dec 92	C	NQA-1 NOTE 17.2
E	III.17S-1 4.4.2(c)(4)	OQA	OSC LTR TO NRC (12/18/92)	Dec 92	C	NQA-1 NOTE 17.2
E	III.17S-1 4.4.2(c)(5)	OQA	OSC LTR TO NRC (12/18/92)	Dec 92	C	NQA-1 NOTE 17.2
E	III.17S-1 4.4.2(c)(6)	OQA	OSC LTR TO NRC (12/18/92)	Dec 92	C	NQA-1 NOTE 17.2
C	III.17S-1 4.4.3 :1s	OQA	DOE/RW-0333P QARD	O	C	17.2.10A.
C	III.17S-1 4.4.3 :2s	OQA	DOE/RW-0333P QARD	O	C	17.2.10C.
C	III.17S-1 4.4.3 :3s	OQA	DOE/RW-0333P QARD	O	C	17.2.10B.
E	III.17S-1 4.4.4 :1s	OQA	OSC LTR TO NRC (12/18/92)	Dec 92	C	NQA-1 NOTE 17.2

Requirement status	Requirement id	Implmtng owner	Implementing document id	Revision/ Effective	Implmtng status	Implementing requirement id
E	III.17S-1 4.4.4 :2s	OQA	OSC LTR TO NRC (12/18/92)	Dec 92	C	NQA-1 NOTE 17.2
C	III.17S-1 5. :1p	OQA	DOE/RW-0333P QARD	O	C	17.2.6A.
C	III.17S-1 5. :2p	OQA	DOE/RW-0333P QARD	O	C	17.2.6B. :2s
C	III.17S-1 5. :3p	OQA	DOE/RW-0333P QARD	O	C	4.2.1D.
C	III.17S-1 6. :1pls	OQA	DOE/RW-0333P QARD	O	C	17.2.8A. :1s 17.2.8A. :2s
C	III.17S-1 6. :1p2s	OQA	DOE/RW-0333P QARD	O	C	17.2.8B.
C	III.17S-1 6. :2plsthru2s	OQA	DOE/RW-0333P QARD	O	C	17.2.7B. :1s 17.2.7B. :2s1.
C	III.17S-1 6. :3p(a)	OQA	DOE/RW-0333P QARD	O	C	17.2.7B. :2s3.
C	III.17S-1 6. :3p(b)	OQA	DOE/RW-0333P QARD	O	C	17.2.7B. :2s1.
C	III.17S-1 6. :3p(c)	OQA	DOE/RW-0333P QARD	O	C	17.2.7B. :2s2.
C	III.17S-1 6. :3p(d)	OQA	DOE/RW-0333P QARD	O	C	17.2.7B. :2s3.
C	III.17S-1 6. :3p(e)	OQA	DOE/RW-0333P QARD	O	C	17.2.7B. :2s3.
C	III.18S-1 2. :1s	OQA	DOE/RW-0333P QARD	O O O	C	18.2.1A. 18.2.1C. 18.2.2A. :1s
C	III.18S-1 2. :2s	OQA	DOE/RW-0333P QARD	O O	C	18.2.1B. 18.2.2A. :2s
C	III.18S-1 2. :3s	OQA	DOE/RW-0333P QARD	O	C	18.2.3.
C	III.18S-1 2. :4s	OQA	DOE/RW-0333P QARD	O O O	C	18.2.1D. 18.2.2E. :1s 18.2.2F.
C	III.18S-1 3.1 :1s	OQA	DOE/RW-0333P QARD	O	C	18.2.4A. :1s
C	III.18S-1 3.1 :2s	OQA	DOE/RW-0333P QARD	O	C	18.2.4A. :2s
C	III.18S-1 3.2 :1s	OQA	DOE/RW-0333P QARD	O	C	18.2.5 :1s
C	III.18S-1 3.2 :2s	OQA	DOE/RW-0333P QARD	O	C	18.2.6E.
C	III.18S-1 3.2 :3s	OQA	DOE/RW-0333P QARD	O	C	18.2.5 :2s

Requirement status	Requirement id	Implmtng owner	Implementing document id	Revision/ Effective	Implmtng status	Implementing requirement id
C	III.18S-1 3.3 :1s	OQA	DOE/RW-0333P QARD	O	C	18.2.6A. :1s
C	III.18S-1 3.3 :2s	OQA	DOE/RW-0333P QARD	O	C	18.2.6B.
C	III.18S-1 3.3 :3s	OQA	DOE/RW-0333P QARD	O	C	18.2.7A.
C	III.18S-1 4. :1s	OQA	DOE/RW-0333P QARD	O	C	18.2.7B.
C	III.18S-1 4. :2s	OQA	DOE/RW-0333P QARD	O	C	18.2.1C. 18.2.2A. :1s
C	III.18S-1 4. :3s	OQA	DOE/RW-0333P QARD	O	C	18.2.7C.
C	III.18S-1 4. :4s	OQA	DOE/RW-0333P QARD	O	C	18.2.7D.
C	III.18S-1 4. :5s	OQA	DOE/RW-0333P QARD	O	C	18.2.7E. :1s
C	III.18S-1 4. :6s	OQA	DOE/RW-0333P QARD	O	C	18.2.7E. :2s
C	III.18S-1 5.(a)	OQA	DOE/RW-0333P QARD	O	C	18.2.8 :2sA.
C	III.18S-1 5.(b)	OQA	DOE/RW-0333P QARD	O	C	18.2.8 :2sB.
C	III.18S-1 5.(c)	OQA	DOE/RW-0333P QARD	O	C	18.2.8 :2sC.
C	III.18S-1 5.(d)	OQA	DOE/RW-0333P QARD	O	C	18.2.8 :2sD. 18.2.8 :2sE.
C	III.18S-1 5.(e)	OQA	DOE/RW-0333P QARD	O	C	18.2.8 :2sF.
C	III.18S-1 6. :1s	OQA	DOE/RW-0333P QARD	O	C	18.2.9
C	III.18S-1 6. :2s	OQA	DOE/RW-0333P QARD	O	C	18.2.10
C	III.18S-1 7.	OQA	DOE/RW-0333P QARD	O	C	18.2.11
C	III.18S-1 8.	OQA	DOE/RW-0333P QARD	O	C	17.2.1A.2.
E	APP.1A-1	OQA	OSC LTR TO NRC (12/18/92)	Dec 92	C	NQA-1 GENERAL NOTE
C	APP.2A-1 2. :1s	OQA	DOE/RW-0333P QARD	O	C	10.2.9D. :1s
C	APP.2A-1 2. :2s	OQA	DOE/RW-0333P QARD	O	C	10.2.9D. :2s
C	APP.2A-1 2.1	OQA	DOE/RW-0333P QARD	O	C	10.2.9D.1.
C	APP.2A-1 2.2 :1s	OQA	DOE/RW-0333P QARD	O	C	10.2.9D.2. :1s
C	APP.2A-1 2.2 :2s					

Requirement status	Requirement id	Implmtng owner	Implementing document id	Revision/Effective	Implmtng status	Implementing requirement id
C	APP.2A-1 2.2 :2s	OQA	DOE/RW-0333P QARD	0	C	10.2.9D.2. :2sa.
		OQA	DOE/RW-0333P QARD	0	C	10.2.9D.2. :2sb.
				0		10.2.9D.2. :2sc.
				0		10.2.9D.2. :2sd.
				0		10.2.9D.2. :2se.
C	APP.2A-1 2.3 :1s	OQA	DOE/RW-0333P QARD	0	C	10.2.9D.3. :1s
C	APP.2A-1 2.3 :2s	OQA	DOE/RW-0333P QARD	0	C	10.2.9D.3. :2s
C	APP.2A-1 3. :1s	OQA	DOE/RW-0333P QARD	0	C	10.2.9E. :1s
C	APP.2A-1 3. :2s	OQA	DOE/RW-0333P QARD	0	C	10.2.9E. :2s
C	APP.2A-1 3. :3s	OQA	DOE/RW-0333P QARD	0	C	10.2.9E. :2s
C	APP.2A-1 3.1.1	OQA	DOE/RW-0333P QARD	0	C	10.2.9E.1.a.
C	APP.2A-1 3.1.2	OQA	DOE/RW-0333P QARD	0	C	10.2.9E.1.b.
C	APP.2A-1 3.1.3	OQA	DOE/RW-0333P QARD	0	C	10.2.9E.1.c.
C	APP.2A-1 3.2.1	OQA	DOE/RW-0333P QARD	0	C	10.2.9E.2.a.
C	APP.2A-1 3.2.2	OQA	DOE/RW-0333P QARD	0	C	10.2.9E.2.b.
C	APP.2A-1 3.2.3	OQA	DOE/RW-0333P QARD	0	C	10.2.9E.2.c.
C	APP.2A-1 3.2.4	OQA	DOE/RW-0333P QARD	0	C	10.2.9E.2.d.
C	APP.2A-1 3.3.1	OQA	DOE/RW-0333P QARD	0	C	10.2.9E.3.a.
C	APP.2A-1 3.3.2	OQA	DOE/RW-0333P QARD	0	C	10.2.9E.3.b.
C	APP.2A-1 3.3.3	OQA	DOE/RW-0333P QARD	0	C	10.2.9E.3.c.
C	APP.2A-1 3.3.4	OQA	DOE/RW-0333P QARD	0	C	10.2.9E.3.d.
E	APP.2A-2	OQA	OSC LTR TO NRC (12/18/92)	Dec 92	C	NQA-1 GENERAL NOTE
C	APP.2A-3 2.	OQA	DOE/RW-0333P QARD	0	C	18.2.15A.1. :1s
				0		18.2.15A.1. :2s
C	APP.2A-3 2.1 :1p	OQA	DOE/RW-0333P QARD	0	C	18.2.15A.1. :1s
				0		18.2.15A.1. :2s
C	APP.2A-3 2.1 :2p	OQA	DOE/RW-0333P QARD	0	C	18.2.15A.2. :1s
				0		18.2.15A.2. :2s

Requirement status	Requirement id	Implmtng owner	Implementing document id	Revision/ Effective	Implmtng status	Implementing requirement id
C	APP.2A-3 2.2 :1p	OQA	DOE/RW-0333P QARD	O	C	18.2.15B.
C	APP.2A-3 2.2 :2p	OQA	DOE/RW-0333P QARD	O	C	18.2.15B.1.
C	APP.2A-3 2.2 :3p	OQA	DOE/RW-0333P QARD	O	C	18.2.15B.2.
C	APP.2A-3 2.2 :4p	OQA	DOE/RW-0333P QARD	O	C	18.2.15B.3.
C	APP.2A-3 2.2 :5p	OQA	DOE/RW-0333P QARD	O	C	18.2.15B.4.
C	APP.2A-3 2.2 :6p	OQA	DOE/RW-0333P QARD	O	C	18.2.15B.5.
C	APP.2A-3 2.3	OQA	DOE/RW-0333P QARD	O	C	18.2.15C.
C	APP.2A-3 2.4 :1sthru2s	OQA	DOE/RW-0333P QARD	O	C	18.2.15D.
C	APP.2A-3 3.	OQA	DOE/RW-0333P QARD	O	C	18.2.20 :1s
				O		18.2.20 :2sA.
				O		18.2.20 :2sB.
				O		18.2.20 :2sC.
				O		18.2.20 :2sD.
				O		18.2.20 :2sE.
E	APP.3A-1	OQA	OSC LTR TO NRC (12/18/92)	Dec 92	C	NQA-1 GENERAL NOTE
E	APP.4A-1	OQA	OSC LTR TO NRC (12/18/92)	Dec 92	C	NQA-1 GENERAL NOTE
E	APP.7A-1	OQA	OSC LTR TO NRC (12/18/92)	Dec 92	C	NQA-1 GENERAL NOTE
E	APP.17A-1	OQA	OSC LTR TO NRC (12/18/92)	Dec 92	C	NQA-1 GENERAL NOTE
E	APP.18A-1	OQA	OSC LTR TO NRC (12/18/92)	Dec 92	C	NQA-1 GENERAL NOTE

DOE/RW-0333P QARD  
NQA-1  
NOTES

Section 2.0

NQA-1 Requires:

NQA-1 Note 2.1

"The program shall be established at the earliest time consistent with the schedule for accomplishing the activities."

The program has been previously established and prior to accomplishing activities.

Section 6.0

NQA-1 Note 6.1

Rather than having the same organizations that reviewed the initial issue review a change, OCRWM has designated only those organizations affected by a change as reviewers.

Section 7.0

NQA-1 Note 7.1

OCRWM allows for the evaluation of suppliers' quality assurance programs either before or after contract placement. As required by Federal Acquisition Requirements, OCRWM requires that supplier's quality assurance programs be accepted by the purchaser before the supplier starts work subject to QARD requirements. This is consistent with the NRC Review Plan. (See QARD 7.2.3C. and 7.2.3D.).

Section 10.1

NQA-1 Note 10.1

Inservice Inspection, as required by NQA-1 requirements, is not applicable at this time since the scope of the QARD does not include operation of facilities.

Section 17.0

NQA 17S-1 Requires (2.1):

NQA-1 Note 17.1

"A records system(s) shall be established by the organization responsible at the earliest practicable time consistent with the schedule for accomplishing work activities and in compliance with the general requirements of this supplement."

The records system has been previously established.

NQA-1 17S-1 Requires:

NQA-1 Note 17.2

Paragraph 4.4.2 Alternate Single Facilities

This is not covered in the QARD since NQA-1 17S-1 Paragraph 4.4.1 will be used

Likewise with 4.4.4 ("Dual Facilities")

DOE/RW-0333P QARD  
NQA-1  
NOTES

General

NQA-1 General Note

The following NQA-1 documents are exempted from the OCRWM  
commitment to NQA-1:

III. Supplements: S-1 and 11S-2

IV. Appendices: 1A-1, 2A-2, 3A-1, 4A-1, 7A-1, 17A-1 and 18A-1

## DOE's Position on the Scheduling of External Audits

The following information is offered in support of DOE's position for scheduling audits of external affected organizations (suppliers, other DOE offices and other government agencies) on a triennial basis:

NQA-1 Requirements

NQA-1 requires that planned and scheduled audits be performed to verify compliance with all aspects of the quality assurance program and to determine its effectiveness.

NQA-1 also requires internal or external audits, or both, to be scheduled in a manner to provide coverage and coordination with ongoing quality assurance program activities. Audits shall be scheduled at a frequency commensurate with the status and importance of the activity. The frequency of regularly scheduled audits should be based upon an evaluation of all applicable and active elements of the quality assurance programs. The evaluation should include an assessment of the effectiveness of the applicable and active elements of the program based upon such information as previous audit results and corrective actions, nonconformance reports, and other information.

NQA-1 further requires the audit schedule to be reviewed periodically and revised as necessary to assure that coverage is maintained. Regularly scheduled audits shall be supplemented by additional audits when necessary to provide adequate coverage. Regularly scheduled audits should be supplemented by additional audits when:

- 1) it is necessary to determine the capability of a supplier's QA program prior to awarding a contract or purchase order,
- 2) after award of a contract, sufficient time has elapsed for implementing the QA program and it is appropriate to determine that the organization is performing the functions defined in the QA program description, codes, standards, and other contract documents,
- 3) significant changes are made in functional areas of the QA program such as significant reorganization or procedure revision,
- 4) it is suspected that the quality of an item is in jeopardy due to deficiencies in the QA program,
- 5) systematic, independent assessment of program effectiveness is considered desirable,

6) it is necessary to verify implementation of required corrective actions.

**It is DOE's position that the DOE/RW-0333P QARD meets the NQA-1 requirements and guidelines on audit scheduling.**

NRC Standard Review Plan, Revision 2, Requirements

The NRC Review Plan, Revision 2, item 18.1 requires that internal and external audits are carried out by DOE and its contractors to verify that procedures and activities comply with all aspects of the overall QA program and to determine the effectiveness of the program. DOE and its contractors should perform audits of the prime contractor and subcontractors, consultants, vendors, and laboratories.

The NRC Review Plan, Revision 2, item 18.2 requires that an audit plan be prepared identifying audits to be performed, their frequencies and schedules, taking into consideration the complexity, safety, importance, and degree of previous audits, inspections and surveillance. Audits are regularly scheduled, based on the status and safety importance of the activities being performed and are initiated early enough to assure effective QA during design, procurement, site characterization, manufacturing, construction, installation, inspection, and testing.

**It is DOE's position that the DOE/RW-0333P QARD meets the NRC Review Plan, Revision 2, requirements on audit scheduling.**

Regulatory Guide 1.28, Revision 3 Guidelines

Regulatory Guide 1.28, Revision 3 suggests that for internal audits, applicable elements of an organization's QA program should be audited at least once each year or at least once during the life of the activity, which ever is shorter. The audit scope should be based on an evaluation of the activity being audited. The evaluation should consider results of previous audits and significant changes in personnel, organization, or the QA program.

Regulatory Guide 1.28, Revision 3 suggests that for external organizations, audits should be performed at least on a triennial basis, provided there are annual evaluations. In addition, based on an evaluation conducted in accordance with NQA-1, Appendix 4A-1 Section 5.1, audits may not be necessary for procurement of items that are relatively simple in design, manufacturing and testing and are adaptable to standard or automated inspections or tests.

**DOE's position on audit scheduling provided in the DOE/RW-0333P QARD follows Regulatory Guide 1.28, Revision 3.**

DOE/RW-0214 versus DOE/RW-0333P

Under the existing DOE/RW-0214 QARD, internal audits are performed at least once a year or at least once during the life of the activity, whichever is shorter. These audits are adequacy/compliance audits that evaluate QA program effectiveness. The schedule and scope of each audit is based on an evaluation of the activities to be audited. The evaluation considers the results of previous surveillances and audits and significant changes in personnel, organization, or QA program. In addition to these audits, surveillances are performed on selected activities.

Under the DOE/RW-0333P QARD, internal audits will be performed with the same frequency. This means that OCRWM will audit itself at least annually, and each affected-organization will also audit itself at least annually. In addition to these audits, surveillances will be performed on selected activities.

Under the existing DOE/RW-0214 QARD, external audits of major participants are performed at least once a year. External audits of suppliers of items and services are performed triennially (except if the item is relatively simple or standard in design, manufacture and test and is adaptable to standard or automated inspection or test, in which case, no audits are required). The triennial audits are adequacy/compliance audits that evaluate QA program effectiveness. In addition to triennial audits, annual evaluations, performance based audits, and surveillances on selected activities are performed.

Neither NQA-1, Regulatory Guide 1.28, nor the Standard Review Plan distinguish between "major participant" and any other supplier. The QARD has been revised such that it also does not make this distinction. All affected organizations will be treated the same with respect to external auditing requirements. The glossary provides definitions of "affected organization" and "supplier".

Under the DOE/RW-0333P QARD, external audits will be performed with the same frequency except for the major participants. This means that OCRWM will audit all other affected organizations for compliance at least triennially and will perform annual evaluations of these organizations. These annual evaluations and triennial compliance audits will be supplemented, as necessary, by performance based audits. In addition, each affected organization will perform its own triennial external audit and will perform annual evaluations. OCRWM will continue to observe selected audits and surveillances of affected organizations.

Requiring that compliance audits be performed triennially allows for an increased emphasis in critical activities by performing surveillances and supplemental performance based audits.

#### Summary

In summary, the DOE/RW-0333P QARD meets the requirements of NQA-1 and the NRC Standard Review Plan, Revision 2, on the scheduling of audits. Also, the QARD follows the guidance provided in Regulatory Guideline, 1.28, Revision 3.

Audits of affected organizations will be performed triennially and will focus only on compliance. In addition, annual evaluations of affected organizations will be performed. The compliance audits and annual evaluations will be supplemented, as necessary, by in depth surveillances of critical activities and performance based audits. In addition, OCRWM will continue to observe selected audits and surveillances of affected organizations.

OCRWM feels that requiring compliance audits to be performed triennially allows for an increased emphasis in critical activities. OCRWM also believes that the best approach in obtaining a higher confidence level that the QA requirements are being met at the participant/supplier level is to increase the number of performance based audits and surveillances. The combination of triennial compliance audits, annual evaluations, selected observations and supplemental performance based audits and surveillances will provide a more comprehensive and accurate assessment of the effectiveness of the participants' QA programs with emphasis on adequacy of technical processes and work products than is possible using the current approach.

## QARD SECTION 19

### 19.0 Application of Requirements

(a) A computer software development and control program shall be developed to meet the minimum requirements of this subsection and shall be consistent with the documentation guidance specified in NUREG-0856, Final Technical Position on Documentation of Computer Codes for High-Level Waste Management, June 1983. Computer programs developed and/or modified shall be documented in accordance with the applicable elements of NUREG-0856.

## SUPPLEMENT I

- I.2.6.E.7 A description of the models and numerical methods.
- I.2.6 Documentation
- I.2.6.B User information
- I.2.2 Software Verification and Validation
- I.2.7 Software Configuration Management

## COMMENTS

Supplement I addresses various aspects of NUREG-0856 but not the detail outlined in the NUREG.

Also Section 3 and Supplement III contains the requirements for model validation which covers aspect of NUREG-0856.

**SECTION 19.0**

**Supplement I**

**Comments**

(b) Affected organizations implementing computer software development activities shall adhere to a computer software life cycle model. The relative emphasis placed on each phase of the computer software life cycle will depend on the nature and complexity of the computer software being developed.

I.2.1 Software Life Cycles, Baselines and Controls

Supplement I requires the definition of software life cycles but there is no requirement for "The relative emphasis placed on each phase of the computer software life cycle will depend on the nature, complexity, and importance of the computer software being developed". This requirement will be addressed in implementing procedures.

SECTION 19.0

SUPPLEMENT I

COMMENTS

(c) The documentation for each phase of the computer software life cycle shall be reviewed and approved as specified in each PROGRAM participant's computer software QA plan.

I.2.1.B

Reviews to be addressed in implementing procedures.

(d) An example of one computer software life cycle model is described below:

Not a requirement.

- (1) Requirements
- (2) Design
- (3) Implementation
- (4) Test
- (5) Installation and Checkout
- (6) Operation and Maintenance.

**Section 19**

**Supplement I**

**Comments**

o Provide criteria for application of the requirements of this Section based on the complexity and importance of the software used to perform analysis.

Supplement I does not address the grading of the different methods of using software, for example operating systems verses developed code but this will be addressed in implementing procedures.

**Section 19**

**Supplement I**

**Comments**

o Indicate the methods to be used to develop computer program requirements, to translate those requirements into a detailed design, and to implement that design in executable code.

No specific order or methods for the development of computer codes is required by Supplement I; this will be addressed in implementing procedures.

19.1 COMPUTER SOFTWARE  
QUALITY ASSURANCE PLAN

Supplement I

Comments

The application of the computer software life cycle to computer software development and use shall be as described in a computer SQAP. Each affected organization shall prepare a description of their computer software design, test and configuration management system in their SQAP and/or procedures (Software Quality Assurance Program), and submit it to the next higher program organizational level for review and approval (e.g., DOE Project Office approves the SQAP's for those affected organizations who perform work for the Project Office).

The requirement for a Software Quality Assurance Plan (SQAP) has been removed from Supplement I on the pretext that implementing procedures will be developed to meet the requirements of Supplement I.

SECTION 19.1

SUPPLEMENT I

COMMENTS

- o Identify the types of documentation to be prepared, reviewed, and maintained during computer software design, code implementation, test, and use.
- o Describe the methods for managing interfaces involving computer software documentation.
- o Identify the methodology for establishing computer software baselines and baseline updates (changes) and for tracking changes throughout the life of the computer software.
- o Specify the process to be used for verification of the computer software and validation of models developed or applied to analysis.
- o Identify the procedure for reporting and documenting computer software discrepancies, including sources, evaluating impacts of discrepancies on previous calculations, and determining appropriate corrective action.

I.2.5 and I.2.6

I.2.1, I.2.5, I.2.6 and I.2.7

I.2.7

Section 3.2.3, I.2.2, I.2.3, I.2.4, and Supplement III.2.6

I.2.10

**Section 19.1.1**

**Supplement I**

**Comment**

19.1.1 A computer SQAP shall be prepared for each computer software development or application effort at the start of the computer software life cycle. The plan may be prepared individually for each piece of computer software or may exist as a generic document to be applied to all computer software prepared within an organization.

The computer SQAP shall identify:

1. Computer software products to which it applies

2. Organizations responsible for computer software quality and their tasks and responsibilities

3. Required documentation.

4. Required computer software reviews.

Supplement I and implementing procedures meet this requirement.

**SECTION 19.1.1**

**Supplement I**

**Comments**

If the SQAP references any standards, conventions, techniques, or methodologies used during the computer software development the SQAP shall: identify those portions of the references to be followed; and describe methods to assure compliance to these documents.

This requirement not addressed in Supplement I but will be addressed in implementing procedures.

Section 19.1.2

Supplement I

Comments

Within the computer SQAP, computer software life-cycle management shall be described. Each affected organization shall present the specific computer software life-cycle controls for their organization in their computer software QA plan. The following life-cycle elements shall apply, as appropriate, for the specific life-cycle model defined, interpreted, and described in each PROGRAM participant's computer software QA plan.

Supplement I does not require a specific life cycle, nor does it require the life cycle elements described in Section 19.1.2 parts a-f.

Supplement I does require the identification of in Section I.2.1.A.1 "control points at which software baseline elements shall be documented". I.2.6 additionally requires documentation requirements. This requirement will be addressed by implementing procedures.

## (a) Requirements Phase

Requirements that pertain to functionality, performance, design constraints, attributes, and external interfaces of the completed computer software shall be specified, documented, and reviewed.

These requirements shall have the following characteristics:

- (1) Format and language understandable by the programming organization and the user
- (2) Sufficient detail to allow for objective verification
- (3) Adequate definition to provide for the response of the computer software to the identified input data
- (4) Information necessary to design the computer software without prescribing the computer software design.

## (b) Design Phase

A computer software design based on the requirements shall be specified, documented, and systematically reviewed. The design shall specify the overall structure (control and data flow) and the reduction of the overall structure into physical solutions (algorithms, equations, control logic, and data structures). The design may necessitate the modification of the requirements documentation.

Design-phase verification activities shall consist of:

- (1) Generation of design-based test cases
- (2) Review and analysis of the computer software design
- (3) Verification of the computer software design.

## (c) Implementation Phase

The design shall be translated into a programming language. Only minor, if any, design issues shall be resolved at this phase.

Implementation-phase verification activities shall consist of:

(1) Possible modification of test cases necessary due to design changes made during coding

(2) Examination of source code listings to assure adherence to coding standards and conventions.

(3) Test and inspection of the implemented computer software to remove errors in the coding i.e., debugging

## (d) Testing Phase

The design as implemented in code shall be exercised by executing the test cases. Failure to successfully execute the test cases may require the modification of the requirements, the design, the implementation, or the test plans and test cases. Testing-phase verification activities shall consist of:

(1) Evaluation of the completed computer software to assure adherence to the requirements

(2) Preparation of a report on the results of computer software verification.

Testing of computer software, including new or modified computer software, shall be performed for those inputs and conditions necessary to exercise the software, identify boundary conditions and to provide a suitable benchmark or sample problem for installation.

(e) Installation and  
Checkout Phase

Computer software becomes part of a system incorporating other computer software components, the hardware, and production data. The process of integrating the computer software with other components may consist of installing hardware, installing the program, reformatting or creating databases, and verifying that all components have been included.

Testing activities during the installation and checkout phase shall consist of executing test cases for installation and integration. Test cases from earlier phases shall be enhanced and used for installation testing.

**Section 19.1.2**

**(f) Operation and  
Maintenance Phase**

The computer software shall be approved for operational use. Further activity shall consist of computer software maintenance to remove latent errors (corrective maintenance), to respond to new or revised requirements (preventative maintenance), or to adapt the computer software to changes in the computer software environment (adaptive maintenance). Computer software modifications shall be approved, documented, tested (including regression testing, as appropriate), and controlled in accordance with Subsection 19.2.

Section 19.2

SUPPLEMENT I

COMMENTS

19.2 a. COMPUTER SOFTWARE  
VERIFICATION AND  
VALIDATION

Verification of computer software and model validation shall be performed prior to the use of such computer software to perform technical calculations in support of site characterization, performance assessment analyses, and the design, analysis, and operation of repository structures, systems, and components. In those cases where this requirement cannot be met, the portion or portions of computer software which have not been verified and those models which have not been validated shall be identified and controlled.

I.2.2, I.2.3, I.2.4,  
I.2.10, Section 3.2.3, and  
Supplement III.2.6, & 7

**Section 19.2**

**Supplement I**

**Comment**

A schedule indicating the date that such computer software will be verified and models validated, to the extent that the computer software has been used, shall be generated and maintained. This schedule shall be either included as part of the NUREG-0856 section III, D, Code Assessment and Support document or as a separate document.

There is no quality requirement for documenting a schedule.

In all cases, the verification and validation shall be completed prior to submittal of the license application to the extent that the software has been used to support the license application.

I.2.2, I.2.3, I.2.4, and I.2.10

Model validation shall be performed and documented to such a degree that the results obtained are justified for the specific process or system that the model is intended to represent.

Section 3.2.3 and Supplement III.6 & 7

**SECTION 19.2.C**

Verification and validation activities shall be planned and performed relative to specific hardware configurations. The degree of verification and validation activity shall be determined by the type and complexity of the computer software.

**Supplement I**

I.2.6 B.d

**Comments**

Supplement I does not address either that V&V activities be planned and performed relative to specific hardware configurations or that the degree of V&V be determined by the type and complexity of the computer software.

**SECTION 19.2.C**

**SUPPLEMENT I**

**Comments**

Prior to use for a licensing activity, verification and validation of the final version of the software product, with respect to its intended application, shall be accomplished by an independent individual or organization, one who did not work on the original software. The results of verification and validation activities shall be documented.

**I.2.2 C**

SECTION 19.2.C

Supplement I

Comment

Note: Verification of computer software and/or validation of the model, performed by the developer, should involve activities (that is, iterations of tests and runs) to arrive at a final product. It is not required to document all of the activities performed to satisfy the computer software developer.

Not a requirement.

**Section 19.3**

**Supplement I**

**Comments**

Verification activities shall be integrated into applicable phases of the computer software life cycle and shall be performed to an extent commensurate with the critical importance of the computer software. Computer software verification shall be performed to assure that the computer software requirements are implemented in the computer design and that the computer software design is correctly implemented in code.

Traceability of requirements through design into code is not required by Supplement I but will be addressed in implementing procedures.

19.4 VALIDATION

Supplement I

Comments

a) Model validation activities of computer software shall be documented.

I.2.2 C

Validation activities are performed to demonstrate that the model as embodied in the computer software is a correct representation of the process or system for which it is intended. This is accomplished by comparing computer software results against verified and traceable data obtained from laboratory experiments, field experiments, or observations or in situ testing. Where such comparison for model validation has been performed, specific sets of data used in the validation process shall be identified, and their use shall be justified.

Section 3.2.3 and Supplement III.2.6, 7

Section 19.4

Supplement I

Comments

(b) When data are not available from the sources mentioned above, alternative approaches shall be documented and used to validate models. Alternative approaches may include peer review and comparisons with the results of similar analyses performed with verified computer software. The results of model validation activities shall be documented.

See previous comment.

**Section 19.5**

**Supplement I**

**Comment**

19.5 Computer Software  
Configuration Management

I.2.7 A

A computer software configuration management system shall be established to assure positive identification of computer software and control of computer software baseline changes.

Section 19.5

Supplement I

Comment

(a) Configuration Identification

I.2.7 A

A configuration baseline shall be identified at the completion of each major phase of the computer software life cycle.

Approved changes to a baseline shall be added periodically to the baseline as updates.

A baseline plus updates shall specify the most recent computer software configuration.

Updates shall be incorporated into subsequent baselines. Both baselines and updates shall be defined by their composition of computer software configuration items.

SECTION 19.5 A

SUPPLEMENT I

Comments

A labeling system for configuration items shall be implemented that:

I.2.7 A

(1) Uniquely identifies each configuration item or version number, including identification of software version numbers in the output, when feasible.

(2) Identifies changes to configuration items by revision

3) Places the configuration item in a relationship with other configuration items.

(4) Directly relates each code version with its associated documentation.

SECTION 19.5

SUPPLEMENT I

Comment

(b) Configuration Control Changes to baselined computer software configuration items shall be formally documented.

This documentation shall contain a description of the change(s), the identification of the originating organization, the rationale for the change(s), and the identification of affected baselines and computer software configuration items.

The change should be formally evaluated by a qualified individual or organization with the ability to approve or disapprove proposed changes.

Assurance shall be provided that only authorized changes are made to computer software baselines and computer software configuration items.

I.2.7 B

SECTION 19.5.B

SUPPLEMENT I

COMMENTS

Changes to computer software shall be systematically evaluated, coordinated, and approved to assure that the impact of a change is carefully assessed prior to updating the baseline, required action is documented, and the information concerning approved changes is transmitted to all affected organizations.

I.2.7 B

Changes to computer software shall be subject to the same level of approval, verification, and validation as the original computer software.

Section 19.5 c)

Supplement I

Comment

Configuration      Status  
Accounting

I.2.7 C

The information that is needed to manage computer software configuration items shall be recorded and reported.

This information shall include a listing of the approved configuration identification,

the status of proposed changes to the configuration, the implementation status of approved changes,

a brief chronology of the computer software versions, including descriptions of the changes made between versions, listings of the computer software, and information to support the functions of configuration identification and configuration control.

**SECTION 19.6**

**SUPPLEMENT I**

**COMMENTS**

Existing computer software shall be qualified for use. This qualification shall be based on the computer software to provide acceptable results for specific applications and compliance with the requirements of this Section.

I.2.5

**SECTION 19.6**

**SUPPLEMENT I**

**COMMENTS**

Existing computer software shall be qualified for use. This qualification shall be based on the computer software to provide acceptable results for specific applications and compliance with the requirements of this Section.

I.2.5

**Section 19.6**

Computer software that has not been developed in accordance with this Section may be qualified for use provided the computer software is verified and validated, a computer software baseline established, and applicable documentation prepared to support the software in accordance with the provisions of this Section.

Where commercial auxiliary computer software is used, all available documentation from the supplier shall be obtained. It is recognized that source code is generally not available and controls are limited to unique version identification and user-related manuals.

**Supplement I**

**I.2.5 Acquired Software**

**Comments**

Though the requirements are not the same Supplement I they are clearer on exactly what is required.

The comment on commercial auxiliary computer software is the same as above.

**Section 19.6**

Computer software that has not been developed in accordance with this Section may be qualified for use provided the computer software is verified and validated, a computer software baseline established, and applicable documentation prepared to support the software in accordance with the provisions of this Section.

Where commercial auxiliary computer software is used, all available documentation from the supplier shall be obtained. It is recognized that source code is generally not available and controls are limited to unique version identification and user-related manuals.

**Supplement I**

**I.2.5 Acquired Software**

**Comments**

Though the requirements are not the same Supplement I they are clearer on exactly what is required.

The comment on commercial auxiliary computer software is the same as above.

Section 19.7

Minimum acceptable life-cycle documentation of computer software that has been developed or modified shall be specified in each PROGRAM participant's computer software QA plan. The documentation provided shall meet the requirements of Subsections 19.7.a through 19.7.e, as applicable. Life cycle documentation for scientific and engineering computer software shall include the following, as a minimum:

- o Computer software requirements specification
- o Computer software design and change documentation
- o Computer software verification and model validation documentation
- o User documentation and the following, as a minimum, as described in NUREG-0856:
  - o Description of mathematical models and numerical methods
  - o Code assessment and support
  - o continuing documentation and code listings
  - o Software summary

Supplement I  
I.2.1, I.2.5, and I.2.6

Comment

**Section 19.7**

Minimum acceptable life-cycle documentation of computer software that has been developed or modified shall be specified in each PROGRAM participant's computer software QA plan. The documentation provided shall meet the requirements of Subsections 19.7.a through 19.7.e, as applicable. Life cycle documentation for scientific and engineering computer software shall include the following, as a minimum:

- o Computer software requirements specification
- o Computer software design and change documentation
- o Computer software verification and model validation documentation
- o User documentation

and the following, as a minimum, as described in NUREG-0856:

- o Description of mathematical models and numerical methods
- o Code assessment and support
- o continuing documentation and code listings
- o Software summary

**Supplement I**  
I.2.1, I.2.5, and I.2.6

**Comment**

SECTION 19.7

SUPPLEMENT I

COMMENTS

(a) Computer Software Requirements Specification  
Computer software requirements documentation shall outline the requirements that the proposed computer software must fulfill.

I.2.6

A requirement specification is not required but will be identified in implementing procedures.

The requirements shall address the following:

- (1) Functionality - functions the computer software are to perform
- (2) Performance - time-related issues of computer software operation such as speed, recovery time, response time, etc.
- (3) Design constraints imposed on implementation - any elements that will restrict design options
- 4) Attributes - non-time-related issues of computer software operations such as portability, correctness, security, maintainability, etc.
- (5) External Interfaces - interactions with other participants, hardware, and other computer software.

SECTION 19.7

SUPPLEMENT I

COMMENTS

(b) Computer Software Design Documentation  
Computer software design documents or series of documents shall contain:  
(1) A description of the major components of the computer software design as they relate to the requirements in the computer software requirements specification  
2) A technical description of the computer software with respect to control flow, data flow, control logic, and data structure  
3) A description of the allowable and tolerable ranges for inputs and outputs  
(4) The design described in a manner that is easily traceable to the computer software requirements  
(5) Code assessment and support documentation and descriptions of mathematical models and numerical methods as required by NUREG-0856

I.2.6

A design specification is not required but will be identified in implementing procedures.

**SECTION 19.7**

**SUPPLEMENT I**

**COMMENTS**

c) Computer Software  
Implementation  
Documentation

I.2.6 and I.2.7

Design changes made to the requirements and design phase documents shall be assessed as to the impact on the design.

The revised requirements and design phase documents shall be reviewed to the same level of review as the original documents.

The results should be the basis for the computer software verification and validation plans.

SECTION 19.7

SUPPLEMENT I

COMMENTS

(d) Computer Software  
Verification and Model  
Validation Documentation  
(TEST)

Section 3.2.3, I.2.2,  
I.2.4, and Supplement  
III.2.6, & 7.

Computer software  
verification and model  
validation documentation  
shall include a plan that  
describes tasks and  
criteria for accomplishing  
the verification of the  
computer software in each  
phase and any plans for  
model validation.

The documentation shall  
also specify the hardware  
and system computer  
software configuration  
pertinent to the computer  
software.

The documentation shall be  
organized in a manner that  
allows traceability to  
both the computer software  
requirements and the  
computer software design.

This documentation shall  
also include a report on  
the results of the  
execution of the  
verification and  
validation activities.

This report shall include  
the results of reviews,  
audits, tests, and a  
summary of the status of  
the computer software.

SECTION 19.7

SUPPLEMENT I

COMMENTS

(d) Computer Software  
Verification and Model  
Validation Documentation  
(TEST)

Section 3.2.3, I.2.2,  
I.2.4, and Supplement  
III.2.6, & 7.

Computer software  
verification and model  
validation documentation  
shall include a plan that  
describes tasks and  
criteria for accomplishing  
the verification of the  
computer software in each  
phase and any plans for  
model validation.

The documentation shall  
also specify the hardware  
and system computer  
software configuration  
pertinent to the computer  
software.

The documentation shall be  
organized in a manner that  
allows traceability to  
both the computer software  
requirements and the  
computer software design.

This documentation shall  
also include a report on  
the results of the  
execution of the  
verification and  
validation activities.  
This report shall include  
the results of reviews,  
audits, tests, and a  
summary of the status of  
the computer software.

SECTION 19.7

(e) User Documentation  
User documentation shall be prepared in accordance with NUREG-0856 and shall include a description of:

- (1) Program considerations, options, and initialization procedures.
- (2) Anticipated error situations and how the user can correct them
- (3) Internal and external data files, their input sequence, structures, units, and ranges
- (4) Input and output options, defaults, and formats
- (5) System interface features and limitations
- (6) Information for obtaining user and maintenance support
- (7) Sample problems.

Supplement I  
I.2.6

Comment

SECTION 19.7

(e) User Documentation  
User documentation shall be prepared in accordance with NUREG-0856 and shall include a description of:

- (1) Program considerations, options, and initialization procedures.
- (2) Anticipated error situations and how the user can correct them
- (3) Internal and external data files, their input sequence, structures, units, and ranges
- (4) Input and output options, defaults, and formats
- (5) System interface features and limitations
- (6) Information for obtaining user and maintenance support
- (7) Sample problems.

Supplement I  
I.2.6

Comment

SECTION 19.7

SUPPLEMENT I

COMMENTS

(a) Computer Software Requirements Specification  
Computer software requirements documentation shall outline the requirements that the proposed computer software must fulfill.

I.2.6

A requirement specification is not required but will be identified in implementing procedures.

The requirements shall address the following:

(1) Functionality - functions the computer software are to perform

(2) Performance - time-related issues of computer software operation such as speed, recovery time, response time, etc.

(3) Design constraints imposed on implementation - any elements that will restrict design options

4) Attributes - non-time-related issues of computer software operations such as portability, correctness, security, maintainability, etc.

(5) External Interfaces - interactions with other participants, hardware, and other computer software.

SECTION 19.7

SUPPLEMENT I

COMMENTS

(b) Computer Software Design Documentation  
Computer software design documents or series of documents shall contain:  
(1) A description of the major components of the computer software design as they relate to the requirements in the computer software requirements specification  
(2) A technical description of the computer software with respect to control flow, data flow, control logic, and data structure  
(3) A description of the allowable and tolerable ranges for inputs and outputs  
(4) The design described in a manner that is easily traceable to the computer software requirements  
(5) Code assessment and support documentation and descriptions of mathematical models and numerical methods as required by NUREG-0856

I.2.6

A design specification is not required but will be identified in implementing procedures.

SECTION 19.7

SUPPLEMENT I

COMMENTS

c) Computer Software  
Implementation  
Documentation

I.2.6 and I.2.7

Design changes made to the requirements and design phase documents shall be assessed as to the impact on the design.

The revised requirements and design phase documents shall be reviewed to the same level of review as the original documents. The results should be the basis for the computer software verification and validation plans.

**Section 19.10**

**Supplement I**

**Comments**

Media Control and Security

I.2.9

Physical media containing the images of computer software shall be physically protected to prevent their inadvertent damage or degradation.

Section 19.11

Supplement I

Comments

Acquired Computer Software

(a) Procedures shall be established for controlling the transfer of computer software from an outside source to a user organization and from a user organization to an outside requesting organization. Computer software transfer requests of the organization (or purchases) from an outside source shall include appropriate criteria to enable the computer software received to comply, as much as possible, with the requirements of this Section and the needs of the affected organization's computer system. Those requirements not met by the computer software received shall be completed by the organization in the relative phase of the computer software life cycle that is incomplete or, if that is not possible, the reason shall be documented and maintained with the computer software and distributed to the users.

I.2.7 B.1

Section 19.11

Supplement I

Comments

(b) Configuration management change controls shall be established for documenting the conversion of computer software to be used on a computer system, or peripheral hardware, other than that for which it was designed. Conversion includes all modifications and tests made to the input, output, source code, or additional computer software written to run the original computer software on the new system.

I.2.7 B

(c) Computer software conversion shall be documented and maintained for the specific version of the computer software and the computer system on which it is installed. Computer software conversion changes shall be evaluated and activities performed in accordance with the appropriate configuration management system elements.

I.2.7 B

**Section 19.12**

**Supplement I**

**Comments**

**Computer Software Application**

Section 3.2.3, I.2.8 A  
and Supplement  
III.2.6, & 7

(a) Technical calculations using computer software shall be performed with computer codes and with computer software operating procedures defined sufficiently to allow independent repetition of the entire computation. If any technical calculations fall outside the range of tests performed to validate the model, model validation shall be performed for those specific technical calculations. If model validation has not been performed previously, the model shall be validated and documented to the degree discussed in 19.2.

**Section 19.12**

(b) Affected organizations shall establish procedures for controlling the application of verified computer software and/or validated models to technical calculations generating primary data.

**Supplement I**

Section 3.2.3 and Supplement III.2.6, & 7.

**Comments**

**Section 19.12**

(c) Affected organizations shall establish procedures for documenting and reviewing computer software application and analyses and for assuring that results are accurate and reproducible. Requirements shall be established for identifying or otherwise marking record copies of analyses and supporting documentation. Supporting documentation includes computer output (results), code input data including databases and original sources or references of and assumptions used to obtain such data, code design, user's or operation manuals, verification or validation test results, and hand calculations.

**Supplement I**

Section 3.2.3 and Supplement III.2.6, & 7.

**Comments**

**Section 19.12**

**Supplement I**

**Comment**

(d) Controls shall be established for generating and documenting computer software used to perform technical calculations. Auxiliary computer software used shall be included in documentation of technical calculations performed and shall be included in independent review as part of the calculations. Auxiliary computer software used to support primary analysis computer software shall be controlled at a level commensurate with the complexity of that computer software.

Section 3.2.3 and Supplement III.2.6, & 7

(e) Applications of computer software shall be independently reviewed and approved to assure that the computer software selected is applicable to the problem being solved and that input and assumptions are valid and traceable.

I.2.10 A