

Traceability Matrix Phase 1

Traceability Matrix - Phase 1

Appendix A Category				Sect 1 - Current Infrastructure	Baseline Needs	Sect 3 - Future Requirements	Sect 4 - Baseline Requirements and Performance Standards
1.0 TECHNICAL	1.1 Technology	1.1.1 Narrowband Radio Equipment		1.3.1 1.6.4.6	2.1.1 2.2.1.2 Exh 2.1 2.2.4.6	3.1.2 3.1.2.5 Exh 3.2 31 TB Exh 3.3	4.3.1.3 Table 4.1 TB-2
		1.1.2 APCO Project 25	1.1.2.1 P25 Phase I	1.4	2.1.2.1 2.2.1.1 2.2.4.3.1 2.2.4.3.2	3.8.2 3.9.2.1 Exh 3.2 32 Exh 3.3 TB	Table 4.1 TB-3 Exhibit 4.5 4.4.5
			1.1.2.2 P25 Phase II	1.4	2.1.2.1	3.2.1	4.4.5
			1.1.2.3 High-speed			3.1.2.2 3.3.2 3.2.1	

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		1.1.3 Analog/Digital Capability		1.1.3.1 1.2.6.1 1.3.1 1.4 1.5.1.3 1.6.4.1 1.6.4.5	2.1.1 2.2.1.2 2.2.4.3 2.2.4.3.1 2.2.4.3.2 2.2.4.3.3 2.2.4.3.4 2.2.4.3.5 2.2.4.3.6 2.2.4.6 2.6	3.2 3.6.3 3.6.6 Exh 3.2 10 Exh 3.3 TB 3.9.1.1 3.9.2.1	Table 4.1 TB-1
	1.2 Site Infrastructure	1.2.1 Procedures		1.5.5.2	2.2.1 Exh 2.4/17 2.2.4.6 2.6	3.6.4 3.6.5 3.8.5	
		1.2.2 Power	1.2.2.1 Generators	1.1.3.1 1.2 1.4 1.5.1.4	2.1.2.1 2.2.1.5 2.2.1.7 2.2.1.7.1 2.2.1.7.2	Exh 3.2 18 Exh 3.3 TB 3.8.5	Table 4.1 TB-6 4.4.4.4.1
			1.2.2.2 Fuel Capacity	1.1.3.1 1.2	2.2.1.7.1	Exh 3.2 19 Exh 3.3 TO	Table 4.1 TO-4
			1.2.2.3 UPS	1.1.3.1 1.2 1.4	2.2.1.7.2 2.6	Exh 3.2 5 Exh 3.3 TB	4.4.4.4.5 Table 4.1 TB-7

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	1.2.3 Physical Structures	1.2.3.1 Towers	1.1.3.3 1.2 1.4	2.1.2.1 2.2.1.4 2.2.1.6 2.2.4.3.6 2.2.5.2.1	3.5.1 Exh 3.2 14 Exh 3.3 TO 3.8.5	4.4.4.3 Exhibit 4.5 TO-1	
		1.2.3.2 Grounding	1.2 1.4	2.2.1.4	Exh 3.2 16 Exh 3.3 TO	Table 4.1 TO-2 4.4.4.3	
		1.2.3.3 Shelters	1.1.3.1 1.2 1.4	2.1.2.1 2.2.1.5 2.2.5.2.1 2.2.5.2.2	Exh 3.2 6, 15 Exh 3.3 TO 3.8.5	4.1.2 Table 4.1 TO-3, TB-4 4.4.4.3 4.4.4.6	
	1.2.4 Physical Security	1.2.4.1 Building Security	1.2 1.4	2.1.2.1 2.2.1.6 2.2.5.2.1 2.2.5.2.2	Exh 3.2 21 Exh 3.3 TO	Table 4.1 TO-5	
		1.2.4.2 Site Security	1.2 1.4	2.2.5.2.1 2.2.5.2.3	Exh 3.2 20 Exh 3.3 TE	4.4.4.3 Table 4.1 TE-2	
	1.2.5 Environmental		1.2 1.4	2.1.2.1 2.2.1.5	3.8.5 Exh 3.2 17 Exh 3.3 TE	4.4.3 4.4.3.1.3 Table 4.1 TE-1 Exhibit 4.5	

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	1.3 Systemwide Reliability	1.3.1 Backbone Network Reliability		1.1.3.1 1.2 1.2.5 1.2.7 1.3.5 Exh 1.2 Exh 1.3 1.5.1.4 1.5.1.5	2.1.2 2.1.2.1 2.1.2.5 2.2.1.8 2.2.5.1 2.2.5.6 2.6	3.1.2.5 3.8.5 3.9.2.1 Exh 3.2 7 Exh 3.3 TB	4.1.2 4.3.1.2 4.4 4,4,1 4.4.1.3 4.4.3.1.2 4.4.4.2 4.4.4.4 4.4.4.4.1 4.4.4.5 Table 4.1 TB-5
		1.3 2 Network Control Reliability		1.1.3.1 1.1.3.5 1.2.1 1.5.5.2 1.6.3.2	2.1.2.1 2.2.1.1 2.2.4.5 2.4 2.6	3..1 3.6.2 3.6.4 3.8.1 3.8.3 3.8.5 Exh 3.2 34 Exh 3.3 OB	Table 4.1 OB-4 4.4.3.2.2 4.4.3.1.2
2.0 FUNCTIONAL	2.1 Low-speed Applications	2.1.1 Text Messaging				Exh 3.1 3.3.5	4.3.1.1 4.3.2.7
		2.1.2 Voice Mail				Exh 3.1 Exh 3.2 42 Exh 3.3 FE 3.3.5	Table 4.1 FE-3

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Appendix A Category				Sect 1 - Current Infrastructure	Sect 2 - Baseline Needs	Sect 3 - Future Requirements	Sect 4 - Baseline Requirements and Performance Standards
		2.1.3 Database Queries			2.6	3.1.2.2 3.3.1 3.3.2 3.3.4 3.3.5 3.6.1 3.6.2 3.9.1.2 Exh 3.2 38 Exh 3.3 FO, FB	4.3.2.6 Table 4.1 FO-5, FB-2
		2.1.4 Casual Use				3.9.1.2 Exh 3.2 22 Exh 3.3 FO	Table 4.1 FO-1
		2.1.5 Emergency Button				Exh 3.2 45 Exh 3.3 OO	Table 4.1 OO-1 Exhibit 4.3
		2.1.6 Paging		1.6.1.2 1.6.3.2	2.2.1.1	3.3.5 3.9.1.2 Exh 3.1 Exh 3.2 35 Exh 3.3 FO	4.3.2.7 Table 4.1 FO-2
	2.2 High-Speed Data	2.2.1 Mobile Video			2.6	3.3.5 Exh 3.1 Exh 3.2 40 Exh 3.3 FE	Table 4.1 FE-1

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Appendix A Category				Sect 1 - Current Infrastructure	Sect 2 - Baseline Needs	Sect 3 - Future Requirements	Sect 4 - Baseline Requirements and Performance Standards
		2.2.2 Intranet/Internet Access			2.2.5.2.1	Exh 3.2 39 Exh 3.3 FO	Table 4.1 FO-5
	2.3 Transmission Security	2.3.1 Encryption		1.1.3.2 1.5.2.2 1.5.5.3 1.6.1.2	2.2.2.2 2.2.4.1 Scenario 4 Exh 2.4/13, 15, 16 2.5.4 2.6	3.1.2.2 3.3.3 3.3.4 3.9.1.2 Exh 3.2 13 Exh 3.3 FB	Table 4.1 FB-1 4.3.2.2 Exhibit 4.3
		2.3.2 User Identification			2.6	3.1.2.2 3.3.5 Exh 3.1 Exh 3.2 37 Exh 3.3 FO	Table 4.1 FO-4
	2.4 Computer Interfaces	2.4.1 AVL				3.1.2.2 3.3.4 3.8.2 3.9.1.2 Exh 3.1 Exh 3.2 36 Exh 3.3 FO	4.3.2.6 Table 4.1 FO-3
		2.4.2 Card Inputs				3.3.5 Exh 3.1 Exh 3.2 43 Exh 3.3 FE	Table 4.1 FE-4

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Appendix A Category				Sect 1 - Current Infrastructure	Sect 2 - Baseline Needs	Sect 3 - Future Requirements	Sect 4 - Baseline Requirements and Performance Standards
		2.4.3 Printing				3.3.5 Exh 3.1 Exh 3.2 44 Exh 3.3 FE	Table 4.1 FE-5
3.0 COVERAGE	3.1 Mobile Coverage			1.1.1 1.1.2 1.1.3 1.1.3.3 1.2.1 1.2.2 1.2.3 1.2.4 1.2.5 1.4 1.5.1.1 1.5.3 1.5.5.2 1.6 1.6.1.3 App F	2.1.2.3 2.2.3.1 Exh 2.4 12, 13, 14, 17 2.2.4.6 2.3 2.4 2.5.1 2.5.4 2.6	3.1.1 3.3.1 3.3.4 3.4 3.6.5 3.7 3.8.3 3.8.4 3.9.1.3 3.9.3.3 3.9.4.3 Exh 3.1 Exh 3.2 1 Exh 3.3 CB	4.3.2.4 4.3 4.3.3 4.4.4.5.2 4.4.3.2.1 4.4.3.2.2 4.4.4 4.4.4.7 4.4.4.7.2 4.4.4.7.3 4.4.4.7.3.2 4.4.4.7.3.3 Table 4.1 CB-1

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Appendix A Category			Sect 1 - Current Infrastructure	Sect 2 - Baseline Needs	Sect 3 - Future Requirements	Sect 4 - Baseline Requirements and Performance Standards
	3.2 Portable Coverage	3.2.1 Limited Area Portable Coverage	1.1.3.3 1.5.3	2.2.3.12.1. 2.3 2.2.3.2 Exh 2.4/10, 15, 16 2.2.4.6 2.3 2.4 2.5.1 2.5.4	3.1.2.3 3.3.4 3.7 3.8.4 Exh 3.1 Exh 3.2 3 Exh 3.3 CB	Table 4.1 CB-2 4.3.3 4.4.3.2.1 4.4.4.7.2 4.4.4.7.3.4
		3.2.2 Statewide Portable Coverage	1.1.3.3 1.5.3 1.5.5.3	2.1.2.3 2.2.3.1 2.2.3.2 Exh 2.4/15 2.2.4.6 2.3 2.4 2.5.1 2.5.4	3.1.2.3 3.3.4 3.7 3.8.4 Exh 3.1 Exh 3.2 2 Exh 3.3 CO	Table 4.1 CO-1 4.3 4.3.3 4.4.3.2.1 4.4.4.7.2 4.4.4.7.3.4
		3.2.3 In- Building Portable Coverage	1.5.5.2	2.2.3.1 2.2.3.3 2.2.4.6 2.3 2.4 2.5.1 2.5.4	3.1.2.3 3.3.4 3.7 3.8.4 Exh 3.1 Exh 3.2 4 Exh 3.3 CO	Table 4.1 CO-2

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	3.3 Roaming			1.1.3.3	2.1.2.3 2.2.3.3	3.4 3.9.3.3 Exh 3.2 33 Exh 3.3 CB	4.3.2.3 Table 4.1 CB-3
4.0 INTEROPERABILITY	4.1 Intrastate Interoperability	4.1.1 Day-to- Day Interoperability	4.1.1.1 Statewide Interoperability	1.1.3 1.1.3.4 1.2.6.3 1.5.1.3 1.5.4 Exh 1.4 1.6.1.4 1.6.3.4 1.6.4.4	2.1.1 2.1.2.4 2.2.4.1 2.2.4.4 2.2.4.5 2.2.4.6 Exh 2.4 3, 4, 6, 7, 8, 9, 12, 14, 17 2.2.5.5 2.3 2.4 2.5.1 2.5.4 2.6	3.1.1 3.1.2 3.1.2.4 3.2.2 3.2.3 3.3.4 3.5 3.5.1 3.6.5 3.7 3.8.6 3.9.1.4 3.9.2.4 3.9.4.1 3.9.4.4 Exh 3.2 25 Exh 3.3 IB	4.3.4 4.3.4.1 4.4.4 4.4.5 Table 4.1 IB-1

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Appendix A Category				Sect 1 - Current Infrastructure	Sect 2 - Baseline Needs	Sect 3 - Future Requirements	Sect 4 - Baseline Requirements and Performance Standards
			4.1.1.2 Local Interoperability	1.1.3.4 1.2.6.3 1.5.1.3 1.5.4 Exh 1.4 1.6.1.4 1.6.3.4 1.6.4.4	2.1.2.4 2.2.1.2 2.2.4.1 2.2.4.2 2.2.4.4 2.2.4.5 2.2.4.6 Exh 2.3 Exh 2.4 Exh 2.4/1, 2, 6, 7, 8, 9, 13, 14, 15, 17 2.2.5.5 2.3 2.4 2.5.1 2.5.4 2.6	3.1.1 3.1.2 3.1.2.4 3.2.2 3.2.3 3.3.4 3.5 3.5.1 3.6.5 3.7 3.8.6 3.9.1.4 3.9.2.4 3.9.4.1 3.9.4.4 Exh 3.2 23 Exh 3.3 IB	Table 4.1 IB-2

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Appendix A Category				Sect 1 - Current Infrastructure	Sect 2 - Baseline Needs	Sect 3 - Future Requirements	Sect 4 - Baseline Requirements and Performance Standards
			4.1.1.3 Regional Interoperability	1.1.3.4 1.2.6.3 1.5.1.3 1.5.4 Exh 1.4 1.6.1.4 1.6.3.4 1.6.4.4	2.1.2.4 2.2.4.1 2.2.4.4 2.2.4.5 2.2.4.6 Exh 2.4/6, 7, 8, 9, 14 2.2.5.5 2.3 2.4 2.5.1 2.5.4 2.6	3.1.1 3.1.2 3.1.2.4 3.2.2 3.2.3 3.3.4 3.5 3.5.1 3.6.5 3.7 3.8.6 3.9.1.4 3.9.2.4 3.9.4.1 3.9.4.4 Exh 3.2 24 Exh 3.3 IB	Table 4.1 IB-3 4.4.4 4.4.4.7.2

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Appendix A Category				Sect 1 - Current Infrastructure	Sect 2 - Baseline Needs	Sect 3 - Future Requirements	Sect 4 - Baseline Requirements and Performance Standards
			4.1.1.4 State Interoperability	1.1.3.4 1.2.6.3 1.5.1.3 1.5.4 Exh 1.4 1.6.1.4 1.6.3.4 1.6.4.4	2.1.2.4 2.2.4.1 2.2.4.4 2.2.4.5 2.2.4.6 2.2.5.5 2.3 2.4 2.5.1 2.5.4 2.6	3.1.1 3.1.2 3.1.2.4 3.2.2 3.2.3 3.3.4 3.5 3.5.1 3.6.5 3.7 3.8.6 3.9.1.4 3.9.2.4 3.9.4.1 3.9.4.4 Exh 3.2 26, 27 Exh 3.3 IB, IE	Table 4.1 IB4-, IE-1 4.3.4.2

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Appendix A Category				Sect 1 - Current Infrastructure	Sect 2 - Baseline Needs	Sect 3 - Future Requirements	Sect 4 - Baseline Requirements and Performance Standards
		4.1.1.5 Federal Interoperability		1.1.3.4 1.2.6.3 1.5.1.3 1.5.4 Exh 1.4 1.6.3.4	2.1.2.4 2.2.4.1 2.2.4.4 2.2.4.5 2.2.4.6 2.2.5.5 2.3 2.4 2.5.1 2.5.4 2.6	3.1.1 3.1.2 3.1.2.4 3.2.2 3.2.3 3.3.4 3.5 3.5.1 3.6.5 3.7 3.8.6 3.9.1.4 3.9.2.4 3.9.4.1 3.9.4.4 Exh 3.2 30 Exh 3.3 IB	Table 4.1 IB-5 4.3.4.2
		4.1.2 Exclusivity					
	4.2 Interstate Interoperability	4.2.1 State Networks			2.2.5.5 2.3 2.4 2.5.1 2.5.4 2.6 Exh 2.4/16	3.5.1 Exh 3.2 28 Exh 3.3 IO	Table 4.1 IO-1 4.3.4.2

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		4.2.2 Local Networks			2.2.5.5 2.3 2.4 2.5.1 2.5.4 2.6 Exh 2.4/16	Exh 3.2 29 Exh 3.3 IO	Table 4.1 IO-2
5.0 OPERATIONAL	5.1 Improved Capacity	5.1.1 Additional Channels		1.1.3.5 1.2.1 1.2.2 1.2.3 1.2.4 1.2.5 1.2.6.3 1.2.6.4 1.2.7 1.3.4 1.4 1.5.1.2 1.5.1.4 1.5.4 1.5.5.1 1.5.5.2 1.6.4.5	2.1.2.1 2.1.2.4 2.2.1.2 Scen 5 2.2.5.6 Exh 2.4 1, 2, 3, 4, 5, 6, 162.5.4 2.5.5 2.6 2.1.2.5 2.2.5.4	3.1.2 3.1.2.5 3.6.1 3.6.2 3.7 3.8.1 3.8.4 3.9.1.5 3.9.4.5 Exh 3.2 8 Exh 3.3 OB	Table 4.1 OB-1 4.3.2.5

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Appendix A Category				Sect 1 - Current Infrastructure	Sect 2 - Baseline Needs	Sect 3 - Future Requirements	Sect 4 - Baseline Requirements and Performance Standards
		5.1.2 Channel Efficiency		1.1.3.5 1.5.1.2 1.5.5.5 1.6.4.6	2.1.2.5 2.2.1.2 2.2.5.4	3.6.2 3.6.5 3.8.1 Exh 3.2 9 Exh 3.3 OB	Table 4.1 OB-2
	5.2 Upgrade Philosophy	5.2.1 During System Upgrades		1.1.3.1 1.2 1.2.7	2.1.2.1 2.2.1 1 2.2.1.2 2.2.1.3 2.2.1.5 2.2.4.5 2.2.5.3 2.2.5.5	3.6 3.6.3 3.6.6 3.8.5 Exh 3.2 12 Exh 3.3 OB	Table 4.1 OB-3 4.3.4.3
		5.2.2 Short- term		1.1.3.1 1.2 1.2.7	2.1.2.1 2.2.1 1 2.2.1.1 2.2.1.3 2.2.5.6 2.3 2.2.4.5	3.6 3.6.6 3.8.5 Exh 3.2 11 Exh 3.3 OE	Table 4.1 OE-1