

Office of the chief information officer

State of Nebraska 700 MHz Narrowband Spectrum (769-775/799-805 MHz)

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SUPPLEMENT TO SCHEDULE K, FCC FORM 601

INTERIM SUBSTANTIAL SERVICE EXPLANATION

Introduction

The State of Nebraska has filed this additional response to Schedule K to demonstrate Federal Communication Commission substantial service requirements regarding state license channels in the 700 MHz narrowband spectrum.

The state believes it has met the requirement of substantial service prior to the June 2014 interim benchmark that the state is providing substantial service to more than one third of its population and territory. The use described herein is on systems and facilities that were constructed and in operation on the state channels prior to the deadline date. This meets the definition of "sound, favorable, and substantially above a level of mediocre service which just might minimally warrant renewal."

The state licensed channels are integrated into the most populated urban area public safety communications systems, and the Nebraska Statewide Radio System.

1. Nebraska Background and Status

The state coordinated with counties in the most populated urban area of the state to designate state license channels in support of their public safety communications systems. This included 700 MHz frequency designations for mobile data infrastructure build out, subscriber radios and vehicle repeater operation. The jurisdictions involved in these build outs include the Omaha metropolitan area, Douglas County, Sarpy County and Washington County, Nebraska and Pottawattamie County, IA. This represents significant investment in 700 MHz mobile data infrastructure and subscriber radio programming in the tri-county urban area.

The State of Nebraska began the build out of its P25 VHF statewide radio system infrastructure in October 2008 and completed in December 2012. The state uses 700 MHz vehicle repeaters for hundreds of its state radio users to operate in the statewide radio system across the state. Vehicle repeater operation is integral to access the state's VHF mobile radio coverage over approximately 97% of the state from our state users' 700 MHz portable radios, in addition to supporting multijurisdictional operations between state and local agencies.

2. State License Use and Service Provided

a. Based on Population

Population use is comprised of several counties in the state's most populated areas. The Omaha metro area, Douglas County, Sarpy County, and Washington County, Nebraska comprise a population of 726,810 (April 1, 2013 estimate), or 38.9% of the state population. Pottawattamie County, IA is connected to the Douglas County system to share these resources, although for the purpose of this letter Pottawattamie County, IA figures are not included.

b. Based on Territory

The State of Nebraska provides state license 700 MHz frequencies to hundreds of its state users operating vehicle repeaters to access the Nebraska statewide radio system over approximately 97% of the state's 77,421 square miles. These vehicle repeaters are integral to the statewide radio system and its users. The state also uses state license 700 MHz frequencies in support of state special law enforcement operations, and support to several local agencies, which are not detailed in this letter. **Exhibit A** shows the frequency designations used in the Nebraska state license, call sign WPTZ786. **Exhibit B** shows the coverage provided in the statewide radio system.

3. Channels Used in the State Licensee System

The state has designated 45 channels for use as described in this letter, with the specific frequency designations shown in **Exhibit A**. The channel designations were coordinated between the state and local jurisdictions including Pottawattamie County, IA to accommodate combiner specifications for the fixed mobile data system, subscriber radios and vehicle repeater operation statewide. State users operate their trunked radio talkgroups through the vehicle repeater to maintain communications with the VHF statewide radio system and with dispatch across the state. Multiple agencies are able to operate through the 700 MHz vehicle repeaters anywhere in the state.

4. Whether the State Licensee is making its showing based upon population or territory

The State of Nebraska showing is based on both population and territory.

5. The percentage of territory or population that is served in Nebraska

The coverage map labeled **Exhibit B** shows the statewide coverage footprint, which covers approximately 97% or the state area. Urban based mobile data systems and subscriber radios accounts for 38.9% of the state population, as listed numerically in **Exhibit C**.

6. Nebraska System Footprint Based on the 40 dBuV/m F(50,50) Service Contour or an Alternate Signal Level Value

The Nebraska statewide coverage footprint is based on 2.2% bit error rate (BER) measurements collected from extensive drive testing across the entire state. The coverage map is derived from the Motorola Hydra software used to model BER field measurements and subsequent validation from drive testing with state user vehicles. The Tri-County urban area mobile data system uses the 40 dBuV/m F(50,50) service contour as shown in **Exhibit D** and site locations are shown in **Exhibit E**.

7. If any portion of a State Licensee's showing is based upon unconstructed facilities, information showing that the licensee has received funding approval for that portion of the system.

The Nebraska statewide radio system and Tri-County mobile data system are fully constructed and operational.

Respectfully Submitted,

Mike Jeffres

Public Safety Systems Manager

Exhibit A

Nebraska Channel Designations for Narrowband Segments of the 769-775 MHz and 799-805 MHz Bands

25 769.15625 State license 985 78 26 State license 986 986 27 769.16875 State license 987 78 28 State license 988 988 29 769.18125 State license 989 76 30 State license 990 990 990 31 769.19375 State license 991 78 32 State license 992 993 78 34 State license 994 995 78 35 769.21875 State license 995 78 36 State license 996 996 65 769.40625 State license 1025 78 66 State license 1026 1026	Narr	owband Base	Channels	Narro	wban
26 State license 986 27 769.16875 State license 987 76 28 State license 988 76 29 769.18125 State license 989 76 30 State license 990 76 31 769.19375 State license 991 78 32 State license 992 78 34 State license 993 78 34 State license 994 99 35 769.21875 State license 995 78 36 State license 995 78 36 State license 1025 78 66 State license 1026 1027 78 68 State license 1027 78 78 69 769.43125 State license 1030 1031 78 70 State license 1031 78 1032 1031 78 <td< th=""><th>1</th><th>12.5 kHz</th><th>Allocation</th><th>l l</th><th>1:</th></td<>	1	12.5 kHz	Allocation	l l	1:
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		769,66875			70

Narrowband Mobile Channels			
Channel Number			Channel Designation
985	799.15625	State license	State DVRS
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986		license	
987	799.16875	State license	
		State	
988		license State	
989	799.18125	license	State DVRS
990		State	
990		license State	
991	799.19375	license	
992		State license	
002		State	
993	799.20625	license	State DVRS
994		State license	
001		State	
995	799.21875	license	
996		State license	
000		State	
1025	799.40625	license	State DVRS
1026		State license	
1020		State	
1027	799.41875	license	
1028		State license	
		State	
1029	799.43125	license State	
1030		license	
		State	
1031	799.44375	license State	
1032		license -	
1022	799.45625	State license	State DVRS
1033	199.40025	State	State DVNS
1034		license	
1035	799.46875	State license	
1000	100.40010	State	
1036		license	
1065	799.65625	State license	State DVRS
		State	
1066		license	
1067	799.66875	State license	
		State	
1068		license	

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109	769.68125	State license
110		State license
111	769.69375	State license
112		State license
113	769.70625	State license
114		State license
115	769.71875	State license
116		State license
145	769.90625	State license
146		State license
147	769.91875	State license
148		State license
149	769.93125	State license
150		State license
151	769.94375	State license
152		State license
153	769.95625	State license
154		State license
155	769.96875	State license
156		State license
185	770.15625	State license
186		State license
187	770.16875	State license
188		State license
189	770.18125	State license
190		State license
191	770.19375	State license
192		State license
193	770.20625	State license
194		State license
195	770.21875	State license
196		State license
225	770.40625	State license
226		State license

1		State	
1069	799.68125	license	Washington County MO3
1070		State license	
1071	799.69375	State license	
1072		State license	
1073	799.70625	State license	State DVRS
1074		State license	
1075	799.71875	State license	
1076		State license	
1105	799.90625	State license	
1106		State license	
1107	799.91875	State license	
1108		State license	
1109	799.93125	State license	
1110		State license	
1111	799.94375	State license	
1112		State license	
1113	799.95625	State license	NPPD MO3
1114		State license	
1115	799.96875	State license	
1116	III is a supposite to the	State license	
1145	800.15625	State license	State LE
1146		State license	
1147	800.16875	State license	
1148		State license	
1149	800.18125	State license	State LE
1150		State license State	
1151	800.19375	license State	
1152		license State	
1153	800.20625	license State	State LE
1154		license State	
1155	800.21875	license State	
1156		license State	
1185	800.40625	license State	
1186		license	

227	770.41875	State license
228		State license
229	770.43125	State license
230		State license
231	770.44375	State license
232		State license
233	770.45625	State license
234		State license
235	770.46875	State license
236		State license
265	770.65625	State license
266		State license
267	770.66875	State license
268		State license
269	770.68125	State license
270		State license
271	770.69375	State license
272		State license
273	770.70625	State license
274		State license
275	770.71875	State license
276		State license
305	770.90625	State license
306		State license
307	770.91875	State license
308		State license
309	770.93125	State license
310		State license
311	770.94375	State license
312		State license
313	770.95625	State license
314		State license
315	770.96875	State license
316		State license

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1187	800.41875	State license
1188		State license
1189	800.43125	State license
1190		State license
1191	800.44375	State license
1192		State license
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1193	800.45625	State
1194		license State
1195	800.46875	license State
1196		license State
1225	800.65625	license State
1226		license State
1227	800.66875	license
1228		State license
1229	800.68125	State license
1230		State license
1231	800.69375	State license
1232		State license
1233	800.70625	State license
1234	00000	State license
1235	800.71875	State
	000.71075	license State
1236		license State
1265	800.90625	license State
1266		license State
1267	800.91875	license State
1268		license State
1269	800.93125	license State
1270		license
1271	800.94375	State license
1272		State license
1273	800.95625	State license
1274		State license
1275	800.96875	State license
1276		State license
1210		IICETISE

Washington County MO3

645	773.03125	State license
646		State license
647	773.04375	State license
648		State license
649	773.05625	State license
650		State license
651	773.06875	State license
652		State license
653	773.08125	State license
654		State license
655	773.09375	State license
656	Yes San	State license
685	773.28125	State license
686		State license
687	773.29375	State license
688		State license
689	773.30625	State license
690	321 (2010 mg) (1010 mg)	State license
691	773.31875	State license
692	10 (1 mm) (200 (1 h) (State license
693	773.33125	State license
694		State license
695	773.34375	State license
696		State license
725	773.53125	State license
726		State license
727	773.54375	State license
728		State license
729	773.55625	State license
730		State license
731	773.56875	State license
732		State license
733	773.58125	State license
734		State license

1605	803.03125	State license	Pottawattamie County HPD
1606	11	State license	Pottawattamie County HPD
		State	Pottawattamie County
1607	803.04375	license State	HPD Pottawattamie County
1608		license State	HPD
1609	803.05625	license State	Sarpy County HPD
1610	100000000000000000000000000000000000000	license	Sarpy County HPD
1611	803,06875	State license	Sarpy County HPD
1612		State license	Sarpy County HPD
1613	803.08125	State license	Douglas County HPD
1614		State license	Douglas County HPD
1615	803.09375	State license	Douglas County HPD
	803.09373	State	
1616		license State	Douglas County HPD Pottawattamie County
1645	803.28125	license	HPD
1646		State license	Pottawattamie County HPD
1647	803.29375	State license	Pottawattamie County HPD
1648		State license	Pottawattamie County HPD
1649	803.30625	State license	Sarpy County HPD
1650		State license	Sarpy County HPD
	803.31875	State license	
1651	003.31073	State	Sarpy County HPD
1652		license State	Sarpy County HPD
1653	803.33125	license State	Douglas County HPD
1654		license State	Douglas County HPD
1655	803.34375	license State	Douglas County HPD
1656		license	Douglas County HPD
1685	803.53125	State license	Sarpy County HPD
1686		State license	Sarpy County HPD
1687	803.54375	State license	Sarpy County HPD
1688		State license	Sarpy County HPD
1689	803.55625	State license	
1690		State license	
1691	803.56875	State license	
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1692		license State	Pottawattamie County
1693	803.58125	license State	HPD Pottawattamie County
1694		license	HPD

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735	773.59375	State license
736		State license
765	773.78125	State license
766		State license
767	773.79375	State license
768		State license
769	773.80625	State license
770		State license
771	773.81875	State license
772		State license
773	773.83125	State license
774		State license
775	773.84375	State license
776		State license
805	774.03125	State license
806		State license
807	774.04375	State license
808		State license
809	774.05625	State license
810		State license
811	774.06875	State license
812		State license
813	774.08125	State license
814		State license
815	774.09375	State license
816		State license
845	774.28125	State license
846		State license
847	774.29375	State license
848		State license
849	774.30625	State license
850		State license
851	774.31875	State license
852		State license

1695	803.59375	State license	Pottawattamie County HPD	
1696		State license	Pottawattamie County HPD	
1725	803.78125	State license	Pottawattamie County HPD	
1726		State license	Pottawattamie County HPD	
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 1727	803.79375	license State	HPD Pottawattamie County	NPPD MO3
1728		license State	HPD	l
 1729	803.80625	license State		
1730		license State		
 1731	803.81875	license		
1732		State license		
1733	803.83125	State license	Douglas County HPD	
1734		State license	Douglas County HPD	
1735	803.84375	State license	Douglas County HPD	
1736		State license	Douglas County HPD	
1765	804.03125	State license		ı
	004.03123	State		
 1766		license State		
1767	804.04375	license State		
1768		license State		
1769	804.05625	license State		
1770		license		
1771	804.06875	State license		
1772		State license		
1773	804.08125	State license	Douglas County HPD	
1774		State license	Douglas County HPD	
1775	804.09375	State license	Douglas County HPD	
1776		State license	Douglas County HPD	
	004 00405	State	Douglas County III D	I
 1805	804.28125	license State		
1806		license State		
1807	804.29375	license State		
1808		license State		
1809	804.30625	license		
1810		State license		
1811	804.31875	State license		
1812		State license		

853	774.33125	State license	1813	804.33125	State license	Douglas County HPD	
854		State license	1814		State license	Douglas County HPD	
855	774.34375	State license	1815	804.34375	State license	Douglas County HPD	
856		State license	1816		State license	Douglas County HPD	
885	774.53125	State license	1845	804.53125	State license	Douglas County HPD	
886		State license	1846		State license	Douglas County HPD	
887	774.54375	State license	1847	804.54375	State license	Douglas County HPD	
888		State license	1848		State license	Douglas County HPD	
889	774.55625	State license	1849	804.55625	State license		
890		State license	1850		State license		
891	774.56875	State license	1851	804.56875	State license		
892		State license	1852		State license		٦
893	774.58125	State license	1853	804.58125	State license	Douglas County HPD	
894		State license	1854		State license	Douglas County HPD	
895	774.59375	State license	1855	804.59375	State license	Douglas County HPD	
896		State license	1856		State license	Douglas County HPD	_
925	774.78125	State license	1885	804.78125	State license	Douglas County HPD	
926		State license	1886		State license	Douglas County HPD	Coundara
927	774.79375	State license	1887	804.79375	State license	Douglas County HPD	Saunders County Jail MO
928	774.79373	State license	1888	804.79373	State	Douglas County HPD Douglas County HPD	IVIO
929	774.80625	State license	1889	804.80625	State	Douglas County FIFD	
930	774.00023	State license	1890	004.00023	State		
931	774.81875	State license	1891	804.81875	State license		
932	174.01073	State license	1892	004.01070	State		
933	774.83125	State license	1893	804.83125	State	Douglas County HPD	
934	774.00120	State license	1894	201.00120	State license	Douglas County HPD	
935	774.84375	State license	1895	804.84375	State	Douglas County HPD	OPPD Ft Calhoun MO
936		State license	1896		State license	Douglas County HPD	

Exhibit B Nebraska Statewide Radio System Coverage

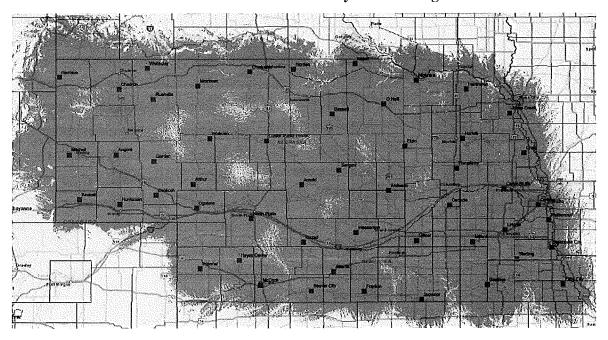


Exhibit C
Nebraska 700 MHz Use by Population*

State Population	1,868,516
Douglas County Population	537,256
Sarpy County Population	169,331
Washington County Population	20,223
Tri-County Population Total	726,810
Tri-County Percent of State Population	38.90%

^{*} Estimate April 1, 2013

Exhibit D
Tri-County 700 MHz Mobile Data Service Contours

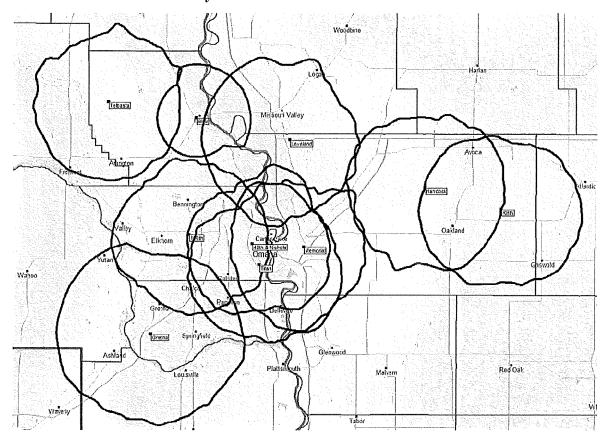


Exhibit E

Tri-County 700 MHz Mobile Data Sites

Tower	Latitude	Longitude	AMSL (m, ft)	AAT (m, ft)
156th	41 17 25 N	96 9 20 W	384, 1259.9	27, 88.6
	ERP (dBm, W)	Antenna	Ant HT (m, ft)	HAAT (m, ft)
	51.8, 149.7	101-83B-09-0-03N-745.adf	91.4, 300	118.5, 388.6
40th & Nich	41 16 13 N	95 58 21 W	377, 1236.9	44.4, 145.7
	ERP (dBm, W)	Antenna	Ant HT (m, ft)	HAAT (m, ft)
	52.3, 170.3	101-83B-09-0-03N-745.adf	56.4, 185	100.8, 330.7
Blair	41 32 25 N	96 8 7.1 W	331, 1086	-14.1, -46.3
	ERP (dBm, W)	Antenna	Ant HT (m, ft)	HAAT (m, ft)
	51.8, 149.6	101-83B-09-0-03N-745.adf	30.5, 100	53.8, 176.5
Gretna	41 4 35 N	96 15 48.1 W	393, 1289.4	46.4, 152.4
	ERP (dBm, W)	Antenna	Ant HT (m, ft)	HAAT (m, ft)
	50.9, 123.8	101-83B-09-0-03N-745.adf	115.8, 380	162.3, 532.4
Hancock	41 23 26.8 N	95 28 32.8 W	381, 1250.1	9.9, 32.3
	ERP (dBm, W)	Antenna	Ant HT (m, ft)	HAAT (m, ft)
	52, 160.3	101-83B-09-0-03N-745.adf	106.7, 350	116.5, 382.4
KHIN	41 20 40.9 N	95 15 21 W	405, 1328.8	33.5, 109.9
	ERP (dBm, W)	Antenna	Ant HT (m, ft)	HAAT (m, ft)
	52.5, 176.1	101-83B-09-0-03N-745.adf	91.4, 300	124.9, 409.9
Loveland	41 29 35.87 N	95 51 58.03 W	403, 1322.2	70.5, 231.3
	ERP (dBm, W)	Antenna	Ant HT (m, ft)	HAAT (m, ft)
	52.8, 191.2	101-83B-09-0-03N-745.adf	53.3, 175	123.8, 406.3
Memorial O TO THE STREET OF THE PERSON SEED TO	41 15 48.1 N	95 49 29 W	378, 1240.2	42.7, 140.2
	ERP (dBm, W)	Antenna	Ant HT (m, ft)	HAAT (m, ft)
	52.2, 167.4	101-83B-09-0-03N-745.adf	59.4, 195	102.2, 335.3
Telbasta	41 34 28.9 N	96 23 14 W	406, 1332.1	23.3, 76.5
	ERP (dBm, W)	Antenna	Ant HT (m, ft)	HAAT (m, ft)
	51.8, 149.6	101-83B-09-0-03N-745.adf	91.4, 300	114.8, 376.5
Titan	41 13 29 N	95 57 10.6 W	362, 1187.7	35.1, 115.2
	ERP (dBm, W)	Antenna	Ant HT (m, ft)	HAAT (m, ft)
	52.2, 166.1	101-83B-09-0-03N-745.adf	78, 256	113.1, 371.2