Prepared by the North Dakota Legislative Council
staff for the Public Safety Committee
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INFORMATION REGARDING PUBLIC SAFETY ANSWERING POINTS AND DIVISION OF STATE RADIO CONTRACT COUNTIES

BACKGROUND

At the Public Safety Committee's April 29-30, 2008, meeting, the committee requested the Legislative Council staff prepare information regarding public safety answering point (PSAP) revenue and expenditures, full-time equivalent (FTE) positions, call volumes, infrastructure, and radio coverage maps. In response to the committee's request, the Legislative Council staff surveyed each of the PSAPs and the counties that contract with the Department of Emergency Services Division of State Radio for 911 services. This memorandum provides a summary of PSAP revenue and expenditures, FTE positions, call volumes, infrastructure, and radio coverage maps and Division of State Radio contract counties' infrastructure as reported by the entities on the Legislative Council survey.

PUBLIC SAFETY ANSWERING POINTS

Revenue and Expenditures

A summary of PSAP revenue and expenditures for calendar year 2007 is attached as Appendix A.

Full-Time Equivalent Positions

The following is a summary of FTE positions employed by PSAPs:

PSAP	FTE Positions
Bottineau/Renville	3.00
Bismarck/Burleigh	21.00
Cavalier County	5.00
Grand Forks County	16.00
Lake Region E-911	5.50
McKenzie County	4.00
McLean County	6.00
Mercer/Oliver E-911	1.00[2]
Minot/Ward	13.00
Morton County	12.00
Mountrail County	[1]
Pembina County	7.00
Pierce County	[1]
Red River Regional Dispatch Center	30.00
Richland County	10.00
Rolette County	[1]
Stark/Dunn	11.00
Stutsman County	7.75
Traill/Steele	4.00
Valley City/Barnes	6.00
Walsh County	7.25
Williston/Williams	6.00

[1]The PSAP did not respond to the Legislative Council survey.

[2]In addition to the one 911 coordinator FTE position, there are 11 dispatchers/jailers that are employed by the Mercer County Sheriff's Office.

Call Volumes

The following is a summary of PSAP emergency (911) and nonemergency calls for calendar year 2007:

PSAP	Emergency (911) Calls	Nonemergency Calls
Bottineau/Renville	1,519	Unknown
Bismarck/Burleigh	21,433	78,641
Cavalier County	975	17,270
Grand Forks County	19,191	155,625
Lake Region E-911	4,114	9,541
McKenzie County	1,300	23,000
McLean County	1,615	17,228
Mercer/Oliver E-911	1,788	Unknown
Minot/Ward	11,896	96,218
Morton County	14,379	164,640
Mountrail County	[1]	[1]
Pembina County	1,187	36,500 - 54,750
Pierce County	[1]	[1]
Red River Regional Dispatch Center	52,846[2]	
Richland County	4,311	13,171
Rolette County	[1]	[1]
Stark/Dunn	7,305	32,500
Stutsman County	4,313	100,590
Traill/Steele	1,638	43,521
Valley City/Barnes	2,975	68,255
Walsh County	3,581	41,288
Williston/Williams	8,224	27,000

[1]The PSAP did not respond to the Legislative Council survey.

[2]The PSAP does not differentiate between emergency and nonemergency calls.

Infrastructure

The following is a summary of towers and antennas that exist in the each of the PSAPs' geographic area that support the PSAP's operation:

PSAP	Number of Towers and Antennas	General Location (Latitude and Longitude Coordinates)
Bottineau/Renville	2	Bottineau ESN tower is six miles northeast of Bottineau on a butte in the Turtle Mountains. Renville ESN tower is eight miles west of Mohall on a 350-foot tower.
Bismarck/Burleigh	6	1020 East Central Avenue, Bismarck (ASR 1234757) (46°49'31" N. 100°46'33.5" W.) 16th Street and Divide Avenue, Bismarck (ASR 1233983) (46°49'32" N. 100°46'6.5" W.) 2301 University Drive, Bismarck (ASR 1236184) (46°46'20.5" N. 100°45'38.1" W.) Century/Clydesdale water tower, Bismarck (46°50'13" N. 100°48'43.5" W.) Wing (47°10'24" N. 100°20'10.4" W.) St. Anthony (46°36'17" N. 100°48'31.5" W.)
Cavalier County	9	No location descriptions were provided.
Grand Forks County	5	Leased tower space (47°57'43" N. 97°02'39" W.) Larimore water tower (47°54'40.6" N. 97°37'48.2" W.) Grand Forks Police Department (47°55'19.5" N. 97°01'50.7" W.) Leased space - Located at the Ralph Engelstad Arena (47°55'27" N. 97°04'03" W.) Leased tower space (47°52'30" N. 97°02'55" W.)
Lake Region E-911	6	Petersburg (47°52'38" N. 97°59'34" W.) New Rockford (47°40'57" N. 99°08'31" W.) Egeland (48°37'05" N. 99°06'00.5" W.) Maddock (48°01'00.6" N. 99°28'00" W.) Fort Totten (47°59'28" N. 98°56'56" W.) Edmore (48°24'30" N. 98°27'29" W.)

PSAP	Number of Towers and Antennas	General Location (Latitude and Longitude Coordinates)
McKenzie County	4	911 Base radio - Located at Watford City (47°49'12" N. 103°17'24" W.) 911 Repeater - Located at Keene (47°58'47.9" N. 102°56'23.9" W.) 911 Repeater - Located at Sather (47°40'47.9" N. 103°46'48" W.) 911 Repeater - Located at Grassy Butte (47°26'23.9" N. 103°25'48" W.) (The PSAP is waiting on final approval from the Federal Communications Commission for this location.)
McLean County	6	Tower - Located on the south side of Underwood Tower - Located on the east side of Underwood Tower - Located at Riverdale Tower - Located at Garrison Tower - Located on the west side of Butte Antenna - Located on the McLean County Courthouse (Washburn)
Mercer/Oliver E-911	4	914 North Avenue, Stanton (47°19'26.1" N. 101°22'43.3" W.) 411 County Road 27, Hazen (47°21'20.8" N. 101°38'05.5" W.) 760 58½ Avenue SW, Beulah (47°18'15.5" N. 101°43'36.6" W.) 1351 County Road 7, Golden Valley (47°13'10.3" N. 102°07'32.6" W.)
Minot/Ward	8	Ward County tower - Located at Donnybrook (48°30'40" N. 101°54'00.01" W.) Ward County tower - Located at Kenmare (48°40'52" N. 102°04'51" W.) Ward County tower - Located at Ryder (47°56'28" N. 101°34'15" W.) Ward County tower - Located at Sawyer (48°05'15.7" N. 101°03'42.1" W.) Ward County tower - Located at Berthold (48°18.5'02.5" N. 101°47'22.8" W.) Minot Police Department tower - Located at 2312 Highway 2 and 52 Bypass West, Minot (48°12'50.5" N. 101°19'25.1" W.) Minot Rural Fire Department tower - Located at 400 31st Avenue SW, Minot (48°12'10" N. 101°17'59.5" W.) Minot water tower located at 3rd Street SE and 10th Avenue SE, Minot
Morton County	23	Tower - Located at Crying Hill, Mandan Tower - Located at The Best Western - Seven Seas, Mandan Tower - Located at the Mandan Rural Fire Department Tower - Located at Huff Tower - Located at Flasher Tower - Located at New Salem Tower - Located at Hebron 16 antennas at various locations
Mountrail County	[1]	
Pembina County	8	Paging tower - Located near Akra (48°46'18.1" N. 97°44'39.1" W.) Paging tower - Located at Walhalla (48°54'56.8" N. 97°55'37.9" W.) Paging tower - Located near Olga (48°45'15.1" N. 97°57'29.8" W.) County repeater - Located at Crystal (48°35'50" N. 97°40'09" W.) County repeater - Located at Cavalier (48°50'55" N. 97°30'57" W.) County repeater - Located at Drayton (48°33'37" N. 97°10'42" W.) County repeater - Located at Pembina (48°58'05' N. 97°14'31" W.) County repeater - Located near Walhalla (48°54'53" N. 97°55'32" W.)
Pierce County	[1]	
Red River Regional Dispatch Center	16	Towers are in various locations. No specific locations were provided.
Richland County	5	Tower - Located at Hankinson (46°03'59.8" N. 96°54'10.2" W.) Tower - Located at Lidgerwood (46°04'31" N. 97°09'09" W.) Tower - Located at Colfax (46°29'04" N. 96°53'06" W.) Wahpeton Police Department (46°15'54.9" N. 96°36'22.3" W.) Wahpeton Fire Department (46°15'45.9" N. 96°36'22.3" W.)
Rolette County	[1]	
Stark/Dunn	5	Radar Base Hill tower (46°55'24" N. 102°42'36" W.) Repeater - Located at Gladstone (46°52'51" N. 102°34'37.7" W.) Repeater - Located at Richardton (46°53'50" N. 102°19'11.6" W.) Repeater - Located at Belfield (46°53'11" N. 103°12'10.6" W.) Repeater - Located at the Law Enforcement Center (46°53'42" N. 102°47'51.6" W.)

PSAP	Number of Towers and Antennas	General Location (Latitude and Longitude Coordinates)
Stutsman County	13	The PSAP utilizes 13 antennas in the following locations: County tower (46°56'48.6" N. 99°06'31" W.) Law Enforcement Center (46°54'13.3" N. 98°42'13.4" W.) Feton Park water tower (46°54'55" N. 98°42'13.4" W.) Jamestown College water tower (46°55'00.1" N. 98°41'31.9" W.) Buffalo Road water tower (46°53'30.1" N. 98°42'47.3" W.) Jamestown City Hall (46°54'30.2" N. 98°42'21" W.)
Traill/Steele	3	Base station - Located at Hillsboro (47°24'13" N. 97°03'51.1" W.) Repeater - Located at Portland (47°29'57.1" N. 97°22'37.1" W.) Repeater - Located at Finley (47°30'35.9" N. 97°49'11.9" W.)
Valley City/Barnes	6	County maintenance facility Valley City Police Department Highway Patrol district office National Guard armory Corp of Engineers at Baldhill Dam Rogers elevator
Walsh County	12	The PSAP utilizes 12 antennas in the following locations: Tower (6 antennas) - Located at Grafton (48°25'4.5" N. 97°24'17.1" W.) Tower (3 antennas) - Located at Lankin (48°20'47" N. 98°00'48.9" W.) Grafton water tower (1 antenna) (48°25'16.4" N. 97°24'38.9" W.) Edinburg Fire Department (1 paging antenna) Fairdale Fire Department (1 paging antenna)
Williston/Williams	7	Williston Grenora Tioga Epping Wheelock Northern Williams County (Highway 42) Near Williston (Highway 1804)

[1]The PSAP did not respond to the Legislative Council survey.

Radio Coverage Areas

The following is a summary of PSAP radio coverage areas:

PSAP	Radio Coverage Map
Bottineau/Renville	Bottineau and Renville Counties
Bismarck/Burleigh	Generally, the differing radio systems cover different areas based upon the agency or jurisdictional responsibilities. The two countywide channels in use offer reasonable "talkout" mobile coverage with some degradation on "talkback." Portable coverage from a countywide perspective is lacking.
Cavalier County	The Pembina Gorge covers approximately one-fourth of the county and has almost no radio coverage. The coverage is poor in the northwest corner of the county for the 50-watt mobile radios in use by fire and emergency medical services jurisdictions. A copy of a county map is attached as Appendix B.
Grand Forks County	A copy of the coverage maps is attached as Appendix C.
Lake Region E-911	Ramsey, Benson, Nelson, Eddy, and Towner Counties
McKenzie County	A copy of a coverage map is attached as Appendix D.
McLean County	McLean County
Mercer/Oliver E-911	Mercer and Oliver Counties
Minot/Ward	A copy of a coverage map is attached as Appendix E.
Morton County	Radio coverage is provided for all of Morton County and portions of neighboring counties.
Mountrail County	[1]
Pembina County	A copy of a coverage map is attached as Appendix F.
Pierce County	[1]

Red River Regional Dispatch Center	Radio coverage is provided for the Fargo metropolitan area and Cass County.
Richland County	There is no coverage in the Wyndmere and Fairmont areas.
Rolette County	[1]
Stark/Dunn	A copy of a coverage map is attached as Appendix G.
Stutsman County	Radio coverage is provided for the city of Jamestown and Stutsman County.
Traill/Steele	Traill and Steele Counties
Valley City/Barnes	Radio coverage is provided for all of Barnes County. The digital law enforcement center channel reaches approximately 30 miles beyond county line.
Walsh County	Radio coverage is provided for all of Walsh County and portions of neighboring counties.
Williston/Williams	Williams County

[1]The PSAP did not respond to the Legislative Council survey.

DIVISION OF STATE RADIO CONTRACT COUNTIES

Infrastructure

The following is a summary of towers and antennas that exist in the counties' geographic area that support local government radio systems:

County	Number of Towers and Antennas	General Location (Latitude and Longitude Coordinates)
Adams	[1]	
Billings	3	Tower - Located at Sentinel Butte Tower - Located at Medora Tower - Located at Gorham
Bowman	14	LGR repeater - Located at Marmarth (46°16'42.9" N. 103°57'18.7" W.) Base station - Located at the Rhame Fire Hall (46°14'00.2" N. 103°39'14" W.) State Radio extender (black box) - Located at Rhame (46°13'53" N. 103°38'55.6" W.) Base station - Located at the Bowman Fire Department (46°11'00.2" N. 103°23'37.3" W.) Base station - Located at the Bowman Hospital (46°10'54.8" N. 103°24'16.9" W.) Base stations - Located at the Bowman Courthouse Emergency Operations Center (46°11'02" N. 103°23'50.2" W.) Base station - Located at the Bowman Police Department (46°11'00.2" N. 103°23'32.2" W.) LGR repeater - Located on Twin Butte (46°12'15.1" N. 103°23'33.7" W.) Police digital repeater - Located on Twin Butte (46°12'15.1" N. 103°23'33.7" W.) Hospital digital repeater - Located on Twin Butte (46°12'15.1" N. 103°23'33.7" W.) State Radio extender (black box) - Located at Bowman (46°12'15.1" N. 103°23'33.7" W.) Base station - Located at the Scranton Fire Hall (46°08'50.6" N. 103°08'38.4" W.) Base station - Located at the Scranton City Hall (46°08'51.7" N. 103°08'42.7" W.) State Radio extender (black box) - Located at Scranton (46°10'55.9" N. 103°02'56.7" W.)
Burke	1	Tower (48°43'52" N. 102°28'39" W.)
Dickey	3	Repeater tower - Located at Forbes Repeater tower - Located at Guelph Public information radio system tower - Located at Ellendale
Divide	2	Tower - Located along Highway 85 (48°50'12.6" N. 103°37'17.2" W.) Tower - Located on the Crosby water tower
Emmons	1	SE1/4 sec. 18, T. 133 N., 76 W.
Foster	1	Tower (47°31'50" N. 98°51'47" W.)
Golden Valley	3	Golden Valley County Courthouse (46°54'48.2" N. 104°00'14" W.) Sentinel Butte Billings County (46°52'36.4" N. 103°50'28.3" W.)
Grant	1	Tower (46°25' N. 101°33' W.)

County	Number of Towers and Antennas	General Location (Latitude and Longitude Coordinates)
Griggs	4	Jamestown communications tower - Located 1 mile northwest of Cooperstown (47°28'41.7" N. 98°08'23.7" W.) Cooperstown City water tower (47°26'54.6" N. 98°07'34.5" W.) Griggs County Courthouse (2 towers)
Hettinger	1	Tower (46°24'18" N. 102°33'50.6" W.)
Kidder	5	120 First Street West, Steele (46°51'14" N. 99°54'59.7" W.) 116 North Main Street, Tappen (46°52'32.5" N. 99°38'06.5" W.) 303 Main Street North, Tuttle (47°08'37.8" N. 99°59'40.8" W.) 204 Main Street, Robinson (47°08'31.9" N. 99°46'52.4" W.) 200 Main Street North, Pettibone (47°07'10.3" N. 99°31'08.6" W.)
LaMoure	5	County repeater - Located on tower space rented from Great River Energy approximately 2.5 miles west of Grand Rapids along County Road 34 (46°26'27.4" N. 98°25'21" W.) LaMoure paging repeater for the LaMoure Fire Department and Community Volunteer EMS of LaMoure - Located on a county tower approximately 2.5 miles west of LaMoure along Highway 13 (46°21'27.4" N. 98°21'30.7" W.) LaMoure city repeater for the LaMoure Fire Department and LaMoure schoolbuses - Located on the city water tower (46°21'59.2" N. 98°17'42.9" W.) Marion paging repeater for the Marion Fire Department - Located on a tower on the west side of the Marion Fire Hall (46°36'26.8" N. 98°20'00.3" W.) Verona paging repeater for the Verona Fire Department (46°21'56.9" N. 98°04'14" W.)
Logan	2	Tower - Located at 3140 65th Street SE, Napoleon (46°28.257' N. 99°46.018' W.) Antenna - Located at the Gackle Fire Hall (111 Cedar Street East, Gackle)
McHenry	2	Granville and Towner
McIntosh	1	No location descriptions were provided.
Ransom	[1]	
Sargent	1	Tower - Located near the county highway shop on the east side of Forman
Sheridan	0	
Slope	6	Base station - Located at the Slope County Courthouse (46°28'54.8" N. 103°19'23.1" W.) Base station - Located at the Amidon Fire Department (46°28'58" N. 103°19'09.8" W.) State Radio extender (black box) - Located at Amidon (46°28'54.8" N. 103°19'23.1" W.) Base station - Located at the Marmarth Fire Hall (46°17'35.8" N. 103°55'17" W.) LGR repeater - Located on Rainy Butte (46°27'39.5" N. 102°58'50.8" W.) State Radio extender (black box) - Located on Rainy Butte (46°27'39.5" N. 102°58'50.8" W.)
Wells	12	Wells County Department of Transportation Field Office (Fessenden) Wells County Courthouse (Fessenden) Rural Wells County (near Game Refuge Hill) Bowdon Fire Hall Cathay Fire Hall Fessenden City Hall Fessenden Public School Harvey Fire Hall St. Aloisius Medical Center, Harvey Harvey Public School Harvey Public School bus barn Sykeston Fire Hall

[1]The county did not respond to the Legislative Council survey.

ATTACH:7