

Finance Committee

“Committee of the Whole”

Laura Stanek - Chairman

Ed Boettcher – Alternate

Minutes

November 7, 2016

Members: Ed Boettcher, Karen Bargy, Dave Heeres, Chuck Johnson, Christian Marcus, Bryan Smith, Bob Wilson
Members absent: Laura Stanek, Mike Crawford
Others: Pete Garwood, Deb Haydell, Janet Koch, Sheryl Guy, Sherry Comben, Sheriff Dan Bean, Mark Kooyers, Jessica Spindler

1. The meeting was called to order at 9:00 a.m. by Alternate Chair Ed Boettcher.

2. Public Comment

None.

3. Claims and Accounts

Motion by Karen Bargy, seconded by Chuck Johnson, to recommend the Board of Commissioners approve the Claims and Accounts in the amount of \$310,936.52.

Motion carried - unanimous.

4. MPSCS (Michigan Public Safety Communications System) Presentation

Dave Hayhurst, Infrastructure Services Manager with MPSCS, introduced himself and Jeff Kelly, Console Programmer. Mr. Hayhurst distributed hard copies of information about their system, an 800 MHz radio system (see attached pgs. 6-13). Mr. Hayhurst said the State of Michigan’s system is a reliable public communications system. He added that the State owns only 10% of the radios that are on the system.

Mr. Hayhurst said the State’s communications system was developed for 97% coverage with 800 MHz. He told the Committee the system had been designed around a number of things including expected traffic and the distances between towers. Mr. Hayhurst said the State tower network had been built to meet a certain set of specifications; any towers built beyond that would not be the responsibility of the State.

7500 consoles connect directly to the core of the MPSCS system to provide connectivity and redundancy, Mr. Hayhurst told the Committee. Dispatch centers with 7500s provide additional features and allow other counties to provide dispatch backup. Mr. Hayhurst said 7500s are system-connected consoles based on internet protocols (IP). He noted that MCC7500s are the second generation of this type of system.

Mr. Hayhurst said the State has 7 core systems that service the 7500 consoles; the core system Antrim County would use was located in the Gaylord area. The cores are systems that control a group of towers and perform as a “traffic manager” for radio traffic. Cores talk to their towers, dispatch consoles talk to their cores, and the 7 cores talk to each other. He said cores cost approximately \$1.5 million each. He added that a system-connected console would have no limitation on the number of control stations or the number of channels used. Mr. Hayhurst said the MPSCS system has been used as a model for systems in other states.

If increased 800 MHz coverage was desired by the County, a new tower would need to be built to State specifications. The tower could then be leased out to others and some credit would be provided to the County by the State for the 800 MHz radio fees.

Mr. Hayhurst said the 5500 dispatch consoles that the County currently uses are stand-alone consoles, that there is no connection to the State's 800 MHz system other than direct radio signals to the State's towers. He said purchasing the new MCC7500 consoles would not improve VHF communications. He also noted that Grand Traverse County didn't upgrade their simulcasting capabilities, but instead chose to pay for County-wide 800 MHz radios.

Ms. Bargy asked what the significant gain would be to move to the 7500s. Mr. Hayhurst said 7500s would be maintained and serviced by the State. The State would upgrade the central processing units of the 7500 and the software. This is not done for the 5500s. He added that that 7500s have more interoperability and more features.

Mr. Hayhurst said if the County installs a tower to connect to the State's system, the State would perform the tower maintenance for time and materials. Annual costs for this ranged from roughly \$5,000 to more than \$17,000.

Mark Kooyers of TeleRad said, in the future, the County will likely be considering the construction of towers at Orchard Hill and in Central Lake. These towers, if part of the State's 800 MHz system, would cost between \$1 million and \$1.5 million.

Mr. Smith asked about the possibility of using satellites instead of towers. Mr. Hayhurst said there was only a certain amount of capacity available on satellites, and there wasn't enough for a State-wide system to function. Also, satellite signals cannot penetrate foliage.

Ms. Bargy asked about the life span of the previous dispatch consoles used by MPSCS, the Gold Elite consoles. Mr. Hayhurst said the first one had been installed in 1982 and that production had stopped in the mid-2000s. The last Gold Elite at MPSCS was disconnected the previous spring. He added that the 7500 consoles had first been released in the mid-2000s.

5. Recommendations from Other Committees

Health & Public Safety

911 Dispatch Consoles

The Health & Public Safety Committee had approved the following motion at their meeting of October 24, 2016; "to recommend the Finance Committee explore the purchase of the MC 7500 consoles at an estimated cost of \$345,000 with the purchase of a service agreement estimated at \$14,000 annually, with additional information from the MPSCS regarding the 7500 consoles to be presented at the November 7 Finance Committee meeting with the 911 Board to be invited to the meeting."

Deb Haydell, Finance Director, noted the console purchase needed to be a 2017 project as it wouldn't be completed in 2016. Mr. Wilson advocated for purchasing the 7500 consoles with Gas and Oil funds.

Mr. Marcus advocated moving ahead with the 7500s, saying the County would have to buy them at some point. Ms. Bargy said the problem is the County doesn't have 800 MHz radios across the board, and that the County needed to address that first and to work within the 911 budget. She said \$345,000 could be spent without gaining significant improvements. Mr. Johnson said the 7500 did offer improvements; particularly with officer safety.

DRAFT

Motion by Karen Bargy, seconded by Christian Marcus, to recommend the Board of Commissioners authorize the upgrade the MCC 5500 consoles with 4 computers and the advanced replacement contract with the intent to upgrade to 7500s within the next five years, with the funding to come from the 911 millage and the necessary 2017 budget amendments be made. Yes votes – Karen Bargy; No votes – Ed Boettcher, Dave Heeres, Chuck Johnson, Christian Marcus, Bryan Smith, Bob Wilson. Motion failed.

The matter was directed back to the Health & Public Safety Committee.

Buildings, Lands & Infrastructure

Trust Fund Grant Application

Mr. Johnson said an appraisal was desired to move forward with a trust fund grant application.

Motion by Chuck Johnson, seconded by Bryan Smith, to recommend the Board of Commissioners approve an appraisal for the East 1/2 of the Southwest fractional 1/4 of Section 31, Town 31 North, Range 7 West, with the intent that the appraisal be completed before the next Buildings, Lands, & Infrastructure Committee meeting, with the funding to come from Forestry Fund 230 with the work to be completed in 2016, and the corresponding 2016 budget amendments made. Motion carried - unanimous.

Elk Rapids Day Park

Mr. Johnson said the asphalt walkway at the Park was in need of repair. The proposed quote was to replace the asphalt with Afton stone, which would be easier for park staff to maintain.

Motion by Chuck Johnson, seconded by Bryan Smith, to recommend the Board of Commissioners approve a not-to-exceed amount of \$8,150 for the quoted improvements at the Elk Rapids Day Park, with the funding to come from the Barnes Park Fund 756, with the work to be completed in 2016, and the corresponding 2016 budget amendments made when necessary, and the Finance Director be authorized to complete the corresponding 2016 budget amendment transfers between General Fund Departments 756 and 757 for 2016 year end when the total costs are completed. Motion carried – unanimous.

Operator of Dams Update

Motion by Chuck Johnson, seconded by Bryan Smith, to recommend the Board of Commissioners approve a \$5,000 budget amendment for Fund 582, capital outlay, and a \$328.02 budget amendment for Fund 582, contractual services, for work at the Elk Rapids Hydrodam to be completed in 2016. Motion carried – unanimous.

Administration & County Services

Paging System

Motion by Ed Boettcher, seconded by Bryan Johnson, to recommend the Board of Commissioners authorize the 2016 purchase and installation of the paging software from General Fund, I.T. Department #101000-228-802.238 (Software Licensing) at a cost of \$4,900.94. Yes votes – Ed Boettcher, Dave Heeres, Chuck Johnson, Christian Marcus, Bryan Smith, Bob Wilson; No votes – Karen Bargy. Motion carried.

6. Accountant's Financial Information

Revenue and Expenditure Report – October 31, 2016

Deb Haydell, Finance Director, had included the report in the agenda packets. Ms. Haydell also distributed a document that detailed the monetary recommendations of the various Committees (see attached pgs. 14-18).

7. 2017 Appropriations

Motion by Chuck Johnson, seconded by Bryan Smith, to recommend the Board of Commissioners authorize the Board Chairman to execute contracts for services for the 2017 appropriations with the Antrim County Fair, Conservation Resource Alliance, Traverse Area District Library, The Watershed Center Grand Traverse Bay and the 2017 fiduciary services agreement with Goodwill Industries of Northern Michigan, Inc. for the Antrim County Community Collaborative. Motion carried – unanimous.

8. Ellsworth Downtown Development Authority (DDA)

Mr. Garwood, County Administrator, said the Village of Ellsworth was moving forward with the creation of a DDA, but it appeared the statutory requirements had not been fulfilled. However, to ensure that the Board of Commissioners followed their Tax Sharing Policy of opting out until the DDA plan was completed, he advised the Committee to recommend that the BOC opt out at this point (see attached pg. 19).

Motion by Karen Bargy, seconded by Christian Marcus, to recommend the Board of Commissioners approve the attached resolution to exempt Antrim County tax levy from capture by the Village of Ellsworth DDA. Yes votes – Ed Boettcher, Chuck Johnson, Christian Marcus, Bryan Smith; No votes – Dave Heeres, Bob Wilson. Motion carried – unanimous.

Mr. Boettcher asked for a list of the tax captures in which the County was participating. Sherry Comben, Treasurer, said she could provide that information at the next Finance Committee meeting.

9. Various Matters

Glacial Hills Timber Sale

Mr. Garwood said Mike Meriwether, County Forester, had asked for final approval of the contract at the Committee meeting due to timing issues with the contractor. He added that the contractor had been chosen due to the specialty equipment required and that the project was not a big money maker for the vendors as it was a small project and a salvage cut.

Mr. Garwood read the revised pricing structure, which follows:

An initial \$1,500 at contract signing and \$5,000 prior to cutting any timber. If the cut results in more income than \$5,000 the following price structure applies.

- Sugar Maple #1 @ \$600.00 #2 @ \$400.00 #3 @ \$300.00 per 1 thousand bd. ft.
- Other mixed hardwood #1 @ \$200.00 #2, 3's @ \$50.00 per 1 thousand bd. ft.
- Beech tie cuts @ \$35.00 per cord
- Other boltwood all species @ \$20.00 per cord
- All hardwood pulp @ \$5.00 per cord
- Veneer products @ 66 percent of market price

Ms. Haydell said she would create an additional line item for Glacial Hills in the forestry fund, noting that the forestry fund has line items for other parks.

Motion by Bryan Smith, seconded by Chuck Johnson, to authorize the Chairman to execute a timber sale agreement with Fahl Forest Products, under the authority of Forestry Policy Section VI (4), on a portion of the County-owned property known as the “Glacial Hills Pathway and Natural Area” with the revised pricing structure, and that any proceeds from the sale be placed into Forestry Fund #230, line item Glacial Hills. Motion carried – unanimous.

Change Order Policy

Mr. Marcus asked about the change order policy. Mr. Garwood said the policy was instituted to allow progress on a project to continue between Board of Commissioner meetings. It requires that he contact the Chair of the appropriate standing committee and the Chair of the Board of Commissioners regarding any given change order and obtain their approval before moving forward with the work. The change order must get formal approval at the next Board of Commissioners’ meeting through recommendation by the appropriate standing committee. The Finance Committee is not involved in change orders unless the change order would result in a payment over the total amount of the contract.

Dispatch Consoles

Ms. Bargy said since the Finance Committee had rejected the 911 Board’s recommendation to purchase 5500 consoles that the 911 Board’s and the Health & Public Safety Committee’s only choice was to recommend purchase of the 7500 consoles or to do nothing.

Mr. Wilson said the County should use the gas and oil fund to pay for the 7500 consoles. He said the 5500s were obsolete 2 years ago; paying for the 7500 consoles from oil and gas fund would make 911 funds available for other projects. Ms. Bargy said the oil and gas funds were intended to be used for park improvements. Mr. Marcus said park improvements haven’t recently been funded from the oil and gas funds, and that 911 improvements would be a benefit for all. Mr. Boettcher said he’d like to see a revised 5-year and 10-year capital improvement plans that dealt with future 911 projects.

Mr. Kooyers said the County has received a proposal to upgrade the 5500 computers, which included computer boxes and an update in software. He added that 911 still has monitors and back room equipment that is 7-10 years old, which will likely incur maintenance costs. Ms. Bargy noted that direct line to the core would also incur connectivity costs, which would be a cost to the County. The Committee and Ms. Haydell discussed the revenues to the gas and oil fund.

Motion by Bob Wilson, seconded by Christian Marcus, to recommend the Board of Commissioners approve \$345,000 for the 2017 purchase and installation of MCC7500 consoles with the funding to come from Fund 144, Gas & Oil Royalties Reserve. Yes votes – Dave Heeres, Chuck Johnson, Christian Marcus, Bob Wilson; No votes – Karen Bargy, Ed Boettcher, Bryan Smith. Motion carried.

10. Public Comment

None.

The meeting was adjourned at 11:15 a.m.



Michigan's Public Safety Communications System

It's not just a radio. It's a partnership.

FACT SHEET

Importance of the MPSCS

The Michigan's Public Safety Communications System (MPSCS) is not just a radio. **It's a partnership.**

Highlights of the Michigan's Public Safety Communications System:

- » Spans 59,415 square miles
- » Serves 1,542 state, local, federal, tribal, and private public safety agencies
- » Includes 247 tower sites with over 50 state and local public safety dispatch centers.
- » Network communication center that serves 79,017 radios
- » P25 compliant Motorola Smartzone 7.15 trunked communication system
- » Operates on the 800/700 MHz frequency range.
- » Provides additional interoperability and backup to the trunked system with a 800 MHz Mutual Aid system at 181 of 247 sites across Michigan.
- » Border interoperability with Indiana, Ohio, and Wisconsin
- » Network Communications Center (NCC) staffed 24/7/365 provides technical support for first responders, system monitoring, prompt response to failures, and assignment and activation of interoperable talkgroups.

System Security

- » Member agencies control the use of their proprietary talkgroups. Sharing between agencies requires approval of the agency that controls the talkgroup.
- » MPSCS insures that no unauthorized radio can use the system. Strict control of the system key has been established; a key is required to program radios for use on the system.
- » System is compatible with DES-XL, DES-OFB, AES and ADP radio encryption. Over the Air Rekeying (OTAR) is available for most encryption schemes.

Emergency Communication

- » The system is designed to provide multiple levels of disaster recovery in the event of a connection or hardware failure.
- » If individual sites lose connectivity to the system, sites revert to "site trunking." During site trunking, subscriber units look for adjacent sites with acceptable signal levels that have wide area connectivity. Localized operations are maintained by the site with site trunking if a unit is unable to find a candidate.
- » Simulcast systems (multiple tower sites acting in unison) that lose connectivity to the wide area system will enter into site trunking mode that continues to provide trunking operations for all sites in the simulcast system.
- » Deployable emergency resources are available including a six channel trunked portable site, various gateways and convention resources for cross-system and cross-band interoperability, and satellite platforms for phone and data connections.

MPSCS BY THE NUMBERS

Numbers current as of October 2016

79,017

Mobile & Portable Radios
on the System

59,415

Square Miles

1,542

State, Local, Federal, Tribal & Private
Public Safety Agencies Served

247

Tower Sites

(65 sites locally owned but integrated into MPSCS)

68

911 Dispatch Centers with
293 console positions

13

Million/month Push-to-Talks

CONTACT MPSCS

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FACT SHEET

Emergency Communication, continued:

- » Emergency caches of radios are strategically positioned across Michigan for emergency deployment.
- » MPSCS staff includes COMTs, radio technicians, and radio engineers that are available to assist any member agency with emergency deployments.

Interoperability

- » MPSCS provides interoperability between local, state, federal and private first responders.
- » We support interoperability with legacy and non-standards based systems through gateways and patches.
- » System radios contain event talkgroups which can be reserved and activated when required. Event talkgroups provide common talkgroups between all MPSCS radios.
- » All system radios have 800MHz national channels for "off-system" interoperability.
- » Agencies responding to emergencies or chases that span jurisdictions can easily coordinate on statewide or event talkgroups by switching talkgroups on their radio or via dispatchers through a console patch.
- » MPSCS, in partnership with the MSP EMHSD, hosts the annual Michigan Statewide Interoperable Communication Training Conference.

Dispatch Services

- » MCC 7500 dispatch consoles can be programmed to support agency specific needs. This includes control of conventional resources, traditional two tone fire and 800 alert paging, and console resource patching — all of which simplify operations and enhance efficiency.
- » In the event of overflow or dispatch center evacuation, member agencies can have dispatch redundancy at another member's location in as little as 30 seconds. By simply loading a console configuration, a backup dispatch location can have full dispatch capabilities.
- » The MPSCS 800 alert paging solution for fire station alerting is available to provide a single system solution.
- » Console aliasing is available allowing local control of radio ID naming for display on dispatch consoles. Instead of radio IDs being displayed when a unit transmits, aliasing allows linking usernames or unit IDs to the radio ID. This allows dispatchers to quickly see who is calling — saving time when it counts.

Financial Overview

- » One common question: *Who owns the infrastructure?* The State of Michigan owns 182 of the MPSCS sites. The remaining 65 sites are property of the municipality, county or agency that purchased it. Agencies providing infrastructure when joining the system receive credit but retain ownership of infrastructure.
- » MIC fees, subscriber fees and user fees all refer to the same thing – the MPSCS fee structure. More info on our current fee structure can be found under policies and procedures at michigan.gov/MPSCS.
- » Users are provided with newer technology without the aggravation of securing additional funds. MPSCS biannually performs system upgrades if a system component – the magic black box – is no longer supported or doesn't meet specifications. Upgrades incur no charge to our members.

MPSCS Remediation (Lifecycle) Project

- » The Lifecycle Remediation Project will span 10 years and focus on remediating infrastructure equipment that is no longer supported across all 247 MPSCS sites. This effort will include microwave and 800/700 MHz RF equipment. This multiphase effort will be implemented with no additional cost to users.

Future

- » MPSCS is currently deploying an automatic vehicle location and automatic resource location system for State of Michigan agencies. This will allow dispatch and command users to track mobile and portable units. MPSCS designed the system to support local users and plans to offer this service to customers in the future.
- » Advanced text messaging will allow users to efficiently send and receive free-form or canned text messages to and from subscribers radios or dispatch operators.
- » MPSCS is leading the effort to build a Michigan data exchange hub for public safety. The system will allow for efficient and secure sharing of CAD data between systems. The goal is to reduce incident response times and improved service to citizens. This system could save dispatch centers the costs of creating individual CAD interfaces for partner agencies.



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OVERVIEW

Executive Summary

The Department of Technology, Management and Budget (DTMB) is the responsible agent of the Office of Michigan's Public Safety Communications System (MPSCS) within the Bureau of Center for Shared Solutions (CSS). The MPSCS has a focused mission of providing statewide public safety communications solutions for state, local, federal, tribal, and private public safety agencies. The mission critical communications services were established over eighteen years ago and have seen steady growth through those years with an increased level of trust with the member partners. The MPSCS has developed additional integrated toolsets for enhanced options for current and prospective members to increase efficiency for public safety personnel. The MPSCS is based in Lansing yet has staff geographically located around the state to efficiently support the system and customer needs in all 83 counties. The use of traditional and social media outreach mediums are used to promote information sharing to the member and potential member community. The MPSCS has been nationally and internationally recognized as the standard for land mobile radio systems to be modeled. From the coverage capabilities to the number of agencies utilizing the MPSCS and the span of agencies using the single statewide system, interoperability is recognizably enhanced as each new member joins the MPSCS.

Services Plan

Mission critical integrated voice and data solution:

- » The MPSCS is currently providing solutions to 1,542 local, state, federal, tribal and private public safety agencies.

Related Radio Support functions:

- » The MPSCS provides all of the support services to bring an agency onto the MPSCS as a member or partner easing the burden to public safety agencies without expertise on hand to develop locally integrated solutions.

Integrated Public Safety Communications Tools:

- » The MPSCS anticipates expansion of the integrated toolsets following the same methodology that has been successfully developed for mission critical radio communications. Once the toolsets mature at the state level, the toolsets will be offered to local agencies for use.

Marketing

The MPSCS marketing and outreach strategy rests on the belief that its services and offerings represent a value-added approach to public safety communications statewide. To implement this strategy, the MPSCS intends to continue efforts of outreach and collaboration that demonstrate a partnership with the State is the best fiscal and technological approach to replace failing or interoperable solutions in place across the state. Even if systems are not replaced, identifying ways to increase membership is a direct correlation to increasing interoperability. Co-location opportunities are expected to increase as law changes open the capabilities for all parties interested across the state. With the impending developments of the FirstNet the State expects to position all of the state assets, including the MPSCS.

Management

MPSCS staff has extensive knowledge of public safety communications and share a common mission of ensuring the system's reliability and broad availability. Expertise ranges from tower crew specialists supporting equipment and the physical plants to radio technicians maintaining the entire RF infrastructure from site to the user. Additionally, MPSCS engineers provide analysis, planning, and maneuvering through the federal policies and laws directing the network. The management team supports the needs of the MPSCS team and that of the customers by ensuring service is an equal priority for mission critical communications.

Financials

DTMB has been successful in identifying long term Lifecycle Remediation funds and additional operations and maintenance appropriations to ensure existing investments in statewide public safety communications continue to provide reliable services for years to come. Major initiatives will be undertaken over the next decade to ensure current and future users of the MPSCS continue to leverage the reliability of the system that has garnered national recognition.





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Mission

The mission of DTMB's Michigan's Public Safety Communications System is to provide public safety agencies of all disciplines a standard's based statewide interoperable communications system and a suite of connected tool sets from voice to data communications.

Keys to Success

- » Internationally recognized statewide interoperable communications system
- » Effective management and technical leadership
High quality service and support
- » Partnerships and shared solutions

MPSCS Summary

DTMB's Office of MPSCS has been in operation since 2001 when IT was consolidated into a single state agency. Prior to the migration of the MPSCS to DTMB, the Michigan State Police was the responsible agent to develop a statewide MPSCS solution. The ideas and strategy for the MPSCS were initiated in the mid-1980s and were based on replacing a 40 year-old system that was nationally recognized. The contract was awarded in 1995 and system construction continued for the next seven years with the completion of each phase seeing users migrated from a legacy system to the MPSCS. By 2002 the project was completed and, 152 agencies across the state were users of the system. Since MPSCS was the first statewide standards-based solution in the nation, funding for long-term operations, maintenance and technology lifecycle replacement was not funded in the same passion as the system experienced during the construction phases. At this time, DTMB leadership in concert with the Department of Military and Veterans Affairs, Michigan State Police and the majority of the public safety fraternal organizations presented justification for such funding to the administration and legislature.

Over the next decade, DTMB will oversee the lifecycle remediation of key system equipment. In parallel to the lifecycle effort, the MPSCS has established a suite of applications that are closely integrated with the successful mission critical voice system that will expand capabilities, options and efficiencies for public safety agencies across the state.

MPSCS History

The implementation process of MPSCS began in 1984 when the Michigan State Police formed a committee to evaluate its 1940's era two-way radio system. The committee consisted of several state departments including State Police, Natural Resources, Transportation, Management and Budget, Military Affairs and representatives of the state House and Senate Fiscal Agencies.

The committee recommended building a new system. They further decided the new network would be large and flexible enough to support all state and local public safety agencies. In 1992, after several years of system design, planning and cost studies, specifications for a Request for Proposal were finalized and sent to potential vendors. In June 1994, the Michigan Legislature approved the funding for the new system and Motorola was awarded the contract to build the MPSCS.

Milestones

In September 1995, Michigan celebrated the achievement of the system's first major milestone when the state broke ground on Phase One construction. Phase One, which constitutes all of southeast Michigan, including the Detroit, Jackson and Lansing areas, was officially completed in 1997. In 1998, the second major milestone was reached when Phase Two, which includes all of southwest lower Michigan, was brought online. The completion of Phase Three, the northern Lower Peninsula followed in 2000. In the fall of 2002, the original construction of the system was completed by providing 800 MHz digital radio coverage to the entire Upper Peninsula.



Michigan's Public Safety Communications System

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OVERVIEW

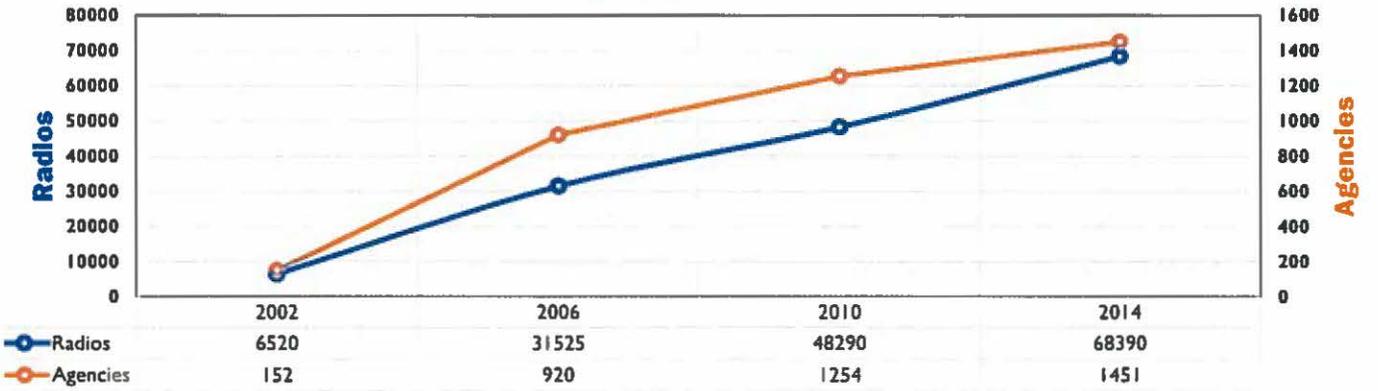
Serving Michigan First Responders

The attack on the Twin Towers on September 11, 2001 brought to the forefront the need for interoperable communications. MPSCS is reacting to this need by providing a state-of-the-art statewide communications system. Today, local first responders are integrating simulcast sub-systems into the MPSCS system. This is a win-win for the new local users who experience the benefits of MPSCS system interoperability and core system management as well as current MPSCS subscribers who receive enhanced radio coverage.

The August 2003 blackout, which was the largest in United States history, proved the value of MPSCS. While commercial wireless carriers were failing due to overuse and lack of emergency power systems at their tower sites, MPSCS continued to provide dependable, uninterrupted communications to its users. MPSCS also played a role to State of Michigan Emergency Management through the Network Communications Center by identifying the blackout area through its alarm and control capabilities. Recently, MPSCS has provided interoperable communications for multiple agencies for large scale events like the 2005 All-Star Game, 2006 Super Bowl, NCAA events, forest fires, searches for lost children, apprehension of escaped criminals, and recently the flooding in Detroit.

- » MPSCS is a 700/800 MHz radio network that utilizes state-of-the-art trunked technology to provide statewide interoperability in digital clarity to its members throughout Michigan. It is one of the largest two-way radio systems in North America.
- » MPSCS is APCO (Association of Public-Safety Communications Officials) Project 25 standard-compliant. APCO 25 is a set of universal standards created by public safety officials for communications equipment. The objective is to enhance interoperability by assuring that a variety of radio equipment vendors manufacture a product that will be compatible with any other APCO 25-compliant system. This ensures that any APCO Project 25 compliant mobile or portable radio meeting the standard and the MPSCS validation, will work on the statewide infrastructure. Currently 7 of the major manufacturers have 28 different models approved for use on the MPSCS.
- » MPSCS guarantees 97% all-weather mobile radio coverage and has found the level of portable coverage usually surpasses conventional analog systems.
- » Local public safety agencies maintain control of their own communications management functions.
- » Currently, there are 1,542 federal, state, local, tribal, and private public safety agencies with 79,017 radios on the system. See Table 1: Agency and Radio Growth

Table 1: Agency & Radio Growth





Michigan's Public Safety Communications System

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OVERVIEW

Products and Services

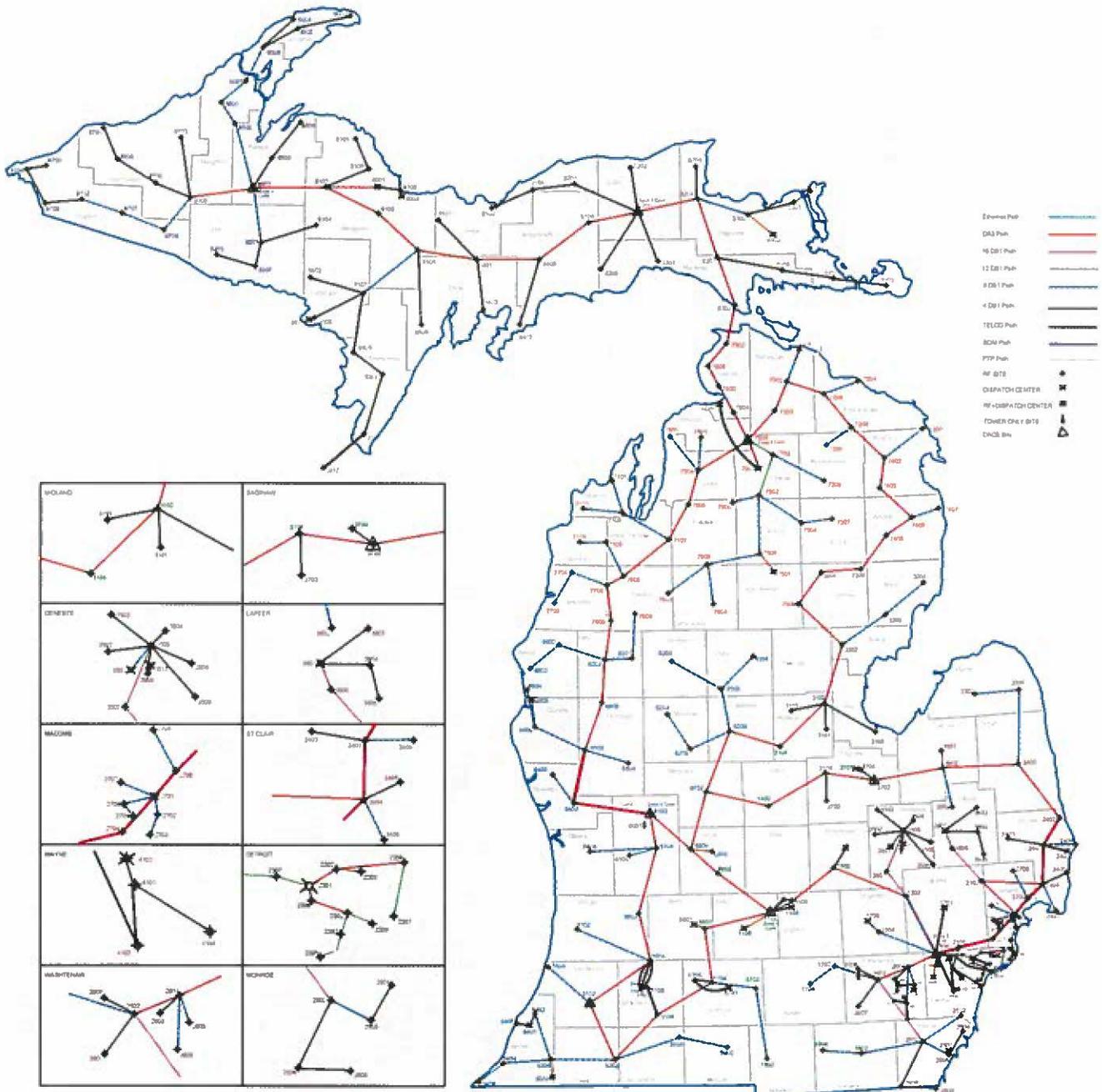
MPSCS is an established statewide interoperable integrated voice and data land mobile radio system (LMR). Other Public Safety toolsets have been added to provide state agencies with more efficiencies and increased benefits statewide. As the services become established and mature, MPSCS expects to expand the offerings for additional public safety toolsets to non-state agencies.

The following is a list of products and services offered by DTMB's MPSCS:

1. **Land Mobile Radio.** DTMB offers mission critical voice communications via the statewide land mobile radio network for public safety agencies. This is a service that is available 24/7/365 for agencies that use the MPSCS as a primary communications system and also for those agencies that use it as secondary or when their respective systems are not available for interoperable communications.
2. **Land Mobile Radio Template Design and Radio Programming.** The MPSCS will work with the member to develop the template for their radios to include designing a communications plan for the agency/jurisdiction while assessing Grade of Service probability for the member service area. The effort will also identify optional items within a template consistent with MPSCS standard operating practices and assist with radio programming and ongoing template maintenance.
3. **Network Communications Center (NCC), Network Monitoring.** The MPSCS will monitor 24/7/365 all MPSCS and integrated MPSCS sub-systems and sites for member agencies. The NCC also provides a single access point for emergency provisioning of system access and talkgroup grooming on the system based on member need(s).
4. **Co-location.** A public safety organization, either a MPSCS member or non-member, is allowed to place antennas and equipment on MPSCS towers and property to expand the communications capabilities without having to construct a new tower site.
5. **RF Engineering Services.** MPSCS engineering staff can aide in sub-system design or other communications additions to the MPSCS for expanded communications capabilities within member service areas. Analysis for grade of service and other system anomalies are supported by the engineering team to meet member and partner interoperability solutions.
6. **Computer Aided Dispatch (CAD) for state agencies.** CAD is a suite of software used to initiate public safety calls for service, dispatch, and maintain the status of responding resources in the field. It is generally used by state agency emergency communications dispatchers, call-takers, and 911 operators in centralized, public-safety call centers, as well as by field personnel utilizing mobile data computers (MDCs). The solution is a model that streamlines public safety technology at the state level to a single secured solutions and is used by multiple public safety state agencies.
7. **In-Car CAD for state agencies.** The integrated solution that connects the vehicle or mobile office to the dispatch center that enables silent dispatching and integration of other agency or discipline specific applications for greater in-field public safety agency efficiencies.
8. **Automatic Resource Locator (ARL)/Automatic Vehicle Locator (AVL) for state agencies.** The solution that allows the geographic locating of a vehicle and public safety professional with a connected portable radio or portable GPS enabled device. The solution integrates into CAD for a full featured use or can be used as a stand-alone solution for agencies that may not require CAD.
9. **MPSCS Site Maintenance for Local Sites.** Maintains the MPSCS sites and any integrated local sites or sub-systems to the MPSCS. The team supports all non-RF aspects of the sites such as physical plant, tower lighting, generators, HVAC, and grounds.



Michigan's Public Safety Communications System



REVENUE AND EXPENDITURE REPORT FOR ANTRIM COUNTY

PERIOD ENDING 10/31/2016
 % Fiscal Year Completed: 83.33

GL NUMBER	DESCRIPTION	2016		ACTIVITY FOR MONTH 10/31/16	YTD BALANCE 10/31/2016	AVAILABLE BALANCE	% BDGT USEC
		ORIGINAL BUDGET	2016 AMENDED BUDGET				
Fund 230000 - FORESTRY							
Revenues							
230000-000-644.010	SALE OF TIMBER	44,000.00	44,000.00	0.00	7,400.00	36,600.00	16.82
230000-000-665.000	INTEREST EARNED INVEST & CDS	400.00	400.00	(0.94)	635.76	(235.76)	158.94
230000-000-698.001	UNREALIZED GAIN/LOSS	0.00	0.00	0.00	52.61	(52.61)	100.00
TOTAL Revenues		44,400.00	44,400.00	(0.94)	8,088.37	36,311.63	18.22
Expenditures							
230000-285-741.000	OPERATING SUPPLIES	500.00	500.00	0.00	89.04	410.96	17.81
230000-285-802.000	CONTRACTUAL SERVICES	2,000.00	2,000.00	0.00	375.00	1,625.00	18.75
230000-285-802.007	CONT. SERV. - SURVEY	1,250.00	1,250.00	0.00	1,280.68	(30.68)	102.45
230000-285-901.000	PRINTING AND PUBLISHING	0.00	0.00	0.00	120.75	(120.75)	100.00
230000-285-971.000	PROPERTY PURCHASE	0.00	911.17	0.00	1,014.80	(103.63)	111.37
230000-758-741.000	OPERATING SUPPLIES	2,000.00	2,000.00	0.00	0.00	2,000.00	0.00
TOTAL Expenditures		5,750.00	6,661.17	0.00	2,880.27	3,780.90	43.24
Fund 230000 - FORESTRY:							
TOTAL REVENUES		44,400.00	44,400.00	(0.94)	8,088.37	36,311.63	18.22
TOTAL EXPENDITURES		5,750.00	6,661.17	0.00	2,880.27	3,780.90	43.24
NET OF REVENUES & EXPENDITURES		38,650.00	37,738.83	(0.94)	5,208.10	32,530.73	13.80
BEG. FUND BALANCE		278,638.59	278,638.59		278,638.59		
END FUND BALANCE		317,288.59	316,377.42		283,846.69		

REVENUE AND EXPENDITURE REPORT FOR ANTRIM COUNTY
 PERIOD ENDING 10/31/2016
 % Fiscal Year Completed: 83.33

GL NUMBER	DESCRIPTION	2016		ACTIVITY FOR MONTH 10/31/16	YTD BALANCE 10/31/2016	AVAILABLE BALANCE	% BDGT USEC
		ORIGINAL BUDGET	2016 AMENDED BUDGET				
Fund 582000 - ELK RAPIDS HYDRO UTILITY SYSTEM							
Revenues							
582000-000-655.000	SALE OF ELECTRICITY	25,000.00	25,000.00	1,006.29	15,840.40	9,159.60	63.36
582000-000-665.000	INTEREST EARNED INVEST & CDS	600.00	600.00	(1.21)	812.12	(212.12)	135.35
582000-000-698.001	UNREALIZED GAIN/LOSS	14.00	14.00	0.00	67.42	(53.42)	481.57
TOTAL Revenues		25,614.00	25,614.00	1,005.08	16,719.94	8,894.06	65.28
Expenditures							
582000-443-802.000	CONTRACTUAL SERVICES	5,000.00	5,545.00	0.00	5,545.00	0.00	100.00
582000-443-934.000	GROUNDS MAINT.	0.00	25.00	0.00	25.00	0.00	100.00
582000-901-980.000	CAPITAL OUTLAY-ELK RAPIDS HYDRO	0.00	165,000.00	0.00	1,960.98	163,039.02	1.19
TOTAL Expenditures		5,000.00	170,570.00	0.00	7,530.98	163,039.02	4.42
Fund 582000 - ELK RAPIDS HYDRO UTILITY SYSTEM:							
TOTAL REVENUES		25,614.00	25,614.00	1,005.08	16,719.94	8,894.06	65.28
TOTAL EXPENDITURES		5,000.00	170,570.00	0.00	7,530.98	163,039.02	4.42
NET OF REVENUES & EXPENDITURES		20,614.00	(144,956.00)	1,005.08	9,188.96	(154,144.96)	6.34
BEG. FUND BALANCE		429,751.08	429,751.08		429,751.08		
END FUND BALANCE		450,365.08	284,795.08		438,940.04		

REVENUE AND EXPENDITURE REPORT FOR ANTRIM COUNTY
 PERIOD ENDING 10/31/2016
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GL NUMBER	DESCRIPTION	2016		ACTIVITY FOR MONTH 10/31/16	YTD BALANCE 10/31/2016	AVAILABLE BALANCE	% BDGT USEC
		ORIGINAL BUDGET	2016 AMENDED BUDGET				
Fund 101000 - GENERAL							
Expenditures							
101000-756-702.000	SALARY - DEPT. HEAD	29,843.00	31,353.00	3,016.00	25,070.50	6,282.50	79.96
101000-756-708.000	WAGES - PART TIME	82,712.00	87,446.00	7,107.26	66,265.33	21,180.67	75.78
101000-756-709.000	OVERTIME AND HOLIDAY	8,976.00	10,000.00	1,328.93	13,508.43	(3,508.43)	135.08
101000-756-714.002	1:1 RATIO ANNUITY BENEFIT	154.00	200.00	0.00	188.50	11.50	94.25
101000-756-715.000	FICA - COUNTY SHARE	9,525.00	10,175.00	876.10	8,035.03	2,139.97	78.97
101000-756-716.000	HEALTH INSURANCE	5,885.00	5,992.00	592.21	5,585.81	406.19	93.22
101000-756-716.008	DELTA DENTAL INSURANCE	440.00	440.00	33.33	387.93	52.07	88.17
101000-756-718.000	RETIREMENT - COUNTY SHARE	4,748.00	6,000.00	700.84	5,903.13	96.87	98.39
101000-756-719.000	OTHER FINGE - AD&D ETC.	70.00	86.00	7.15	78.65	7.35	91.45
101000-756-722.000	UNEMPLOYMENT	30,100.00	30,100.00	0.00	0.00	30,100.00	0.00
101000-756-724.000	WORKERS' COMPENSATION	8,649.00	9,000.00	1,989.00	7,956.00	1,044.00	88.40
101000-756-727.000	OFFICE - SUPPLIES	600.00	600.00	0.00	661.96	(61.96)	110.33
101000-756-741.000	OPERATING SUPPLIES	21,000.00	19,182.00	504.66	18,682.54	499.46	97.40
101000-756-741.756	PARK WATER TESTING	1,500.00	1,768.00	181.00	871.00	897.00	49.26
101000-756-742.000	UNIFORMS	650.00	650.00	0.00	198.50	451.50	30.54
101000-756-802.000	CONTRACTUAL SERVICES	5,000.00	5,000.00	0.00	0.00	5,000.00	0.00
101000-756-855.000	TELEPHONE	2,000.00	2,000.00	148.14	2,055.62	(55.62)	102.78
101000-756-861.000	TRAVEL	800.00	800.00	0.00	104.16	695.84	13.02
101000-756-864.000	VEHICLE MAINTENANCE	1,300.00	1,300.00	0.00	1,494.24	(194.24)	114.94
101000-756-865.000	GAS AND OIL	3,300.00	3,300.00	252.15	1,665.14	1,634.86	50.46
101000-756-901.000	PRINTING AND PUBLISHING	2,200.00	2,200.00	47.40	47.40	2,152.60	2.15
101000-756-921.000	ELECTRIC	9,500.00	9,500.00	887.80	9,055.39	444.61	95.32
101000-756-932.000	BUILDING MAINTENANCE	5,000.00	2,951.00	0.00	162.00	2,789.00	5.49
101000-756-933.001	EQUIPMENT MAINTENANCE	1,700.00	3,250.00	0.00	3,419.16	(169.16)	105.20
101000-756-934.000	GROUNDS MAINT.	2,500.00	2,500.00	0.00	0.00	2,500.00	0.00
101000-756-935.000	TRASH REMOVAL	950.00	950.00	0.00	940.00	10.00	98.95
101000-756-980.000	EQUIP.	0.00	2,049.00	0.00	2,891.80	(842.80)	141.13
TOTAL Expenditures		239,102.00	248,792.00	17,671.97	175,228.22	73,563.78	70.43
Fund 101000 - GENERAL:							
TOTAL REVENUES		0.00	0.00	0.00	0.00	0.00	0.00
TOTAL EXPENDITURES		239,102.00	248,792.00	17,671.97	175,228.22	73,563.78	70.43
NET OF REVENUES & EXPENDITURES		(239,102.00)	(248,792.00)	(17,671.97)	(175,228.22)	(73,563.78)	70.43

REVENUE AND EXPENDITURE REPORT FOR ANTRIM COUNTY
 PERIOD ENDING 10/31/2016
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GL NUMBER	DESCRIPTION	2016		ACTIVITY FOR MONTH 10/31/16	YTD BALANCE 10/31/2016	AVAILABLE BALANCE	% BDGT USEC
		ORIGINAL BUDGET	2016 AMENDED BUDGET				
Fund 101000 - GENERAL							
Expenditures							
101000-757-708.000	WAGES - PART TIME	7,247.00	7,396.00	1,527.11	9,754.48	(2,358.48)	131.89
101000-757-715.000	FICA - COUNTY SHARE	621.00	621.00	116.82	746.22	(125.22)	120.16
101000-757-724.000	WORKERS' COMPENSATION	264.00	264.00	0.00	0.00	264.00	0.00
101000-757-741.000	OPERATING SUPPLIES	600.00	600.00	0.00	361.57	238.43	60.26
101000-757-742.000	UNIFORMS	225.00	225.00	0.00	0.00	225.00	0.00
101000-757-802.000	CONTRACTUAL SERVICES	3,000.00	3,000.00	0.00	0.00	3,000.00	0.00
101000-757-921.000	ELECTRIC	420.00	420.00	28.93	226.45	193.55	53.92
101000-757-923.000	WATER	650.00	650.00	67.15	605.58	44.42	93.17
101000-757-932.000	BUILDING MAINTENANCE	1,000.00	1,000.00	0.00	0.00	1,000.00	0.00
101000-757-933.001	EQUIPMENT MAINTENANCE	500.00	500.00	0.00	235.57	264.43	47.11
101000-757-934.000	GROUNDS MAINT.	1,500.00	1,500.00	0.00	0.00	1,500.00	0.00
101000-757-935.000	TRASH REMOVAL	200.00	200.00	0.00	290.00	(90.00)	145.00
TOTAL Expenditures		16,227.00	16,376.00	1,740.01	12,219.87	4,156.13	74.62
Fund 101000 - GENERAL:							
TOTAL REVENUES		0.00	0.00	0.00	0.00	0.00	0.00
TOTAL EXPENDITURES		16,227.00	16,376.00	1,740.01	12,219.87	4,156.13	74.62
NET OF REVENUES & EXPENDITURES		(16,227.00)	(16,376.00)	(1,740.01)	(12,219.87)	(4,156.13)	74.62

RESOLUTION #

in accordance with Act 197, Public Acts of Michigan 1975, as amended,

**A Resolution to Exempt Antrim County Tax Levy from
Capture by the Village of Ellsworth
Downtown Development Authority (DDA)**

WHEREAS, the Village of Ellsworth has sent the County of Antrim notice of a public hearing held on August 8, 2016 to consider adoption by the Village Council of an ordinance to create a DDA, and

WHEREAS, Act 197, Public Acts of Michigan 1975, as amended, requires the notice be sent, by certified mail not less than 20 days before the public hearing, to the governing body of each taxing jurisdiction levying taxes that would be subject to tax capture if the authority is established and a tax increment financing plan is approved, and

WHEREAS, as an affected taxing jurisdiction, Antrim County received a notice of the public hearing on September 21, 2016 by regular first class mail and a second notice of the public hearing on October 13, 2016 by certified mail, neither of which appear to have met the statutory requirements, and

WHEREAS, if it is determined that the Village of Ellsworth is free to continue the current process to create a DDA, the adoption of a DDA will enable the capture of County tax revenue, and

WHEREAS, on October 8, 2009 the Antrim County Board of Commissioners approved a Tax Sharing Policy which provides conditions under which Antrim County may participate in a tax sharing agreement with the local unit of government considering the establishment of a DDA, and

WHEREAS, the tax sharing agreement discussion is to begin after the County takes the appropriate action to exempt the County tax levy from capture by the local unit of government with the intention that if and when an agreement can be reached the County will allow some tax capture under specific conditions, and

NOW, THEREFORE, BE IT RESOLVED, the Antrim County Board of Commissioners hereby exempts the Antrim County tax levy from capture by the proposed Village of Ellsworth DDA.