

Radio Time Line of Events.

Date Description of Events

2002 Late 2002 City of Milwaukee looking to upgrade communications system. Exhibit 1 and 3.

2003 Feb/March - Deputy Chief Moore assigned to TSS and is looking into upgrading system with MPD and others.

July 29, 2003 City of Milwaukee and M/A Com enter into agreement. Original contract 14,995,935.00 (14.9 million dollars)

2004 Not sure: Are towers and infrastructure being built???

2005 January - Chief Jerry Dillard assigned to TSS. Looking to purchase 2,799,387.75 (2.8 million dollars) worth of radio equipment compatible with new M/A Com system. Order includes 139 mobile radios, 37 V-TAC, 435 Portable radios, and various options for these radios. **Note: Quote from MA/COM does not state radios are intrinsically safe. (12/21/04)** Exhibit 2

After confirmation of pricing, quotes and purchase orders go through city purchasing chain, and order is placed. Exhibit 4

This equipment is to be delivered in June and August of 2005. Sometime during the fall of that year, the police radio shop receives this equipment. This equipment is sitting in the police radio shop warehouse. To the best of my knowledge nobody opens all the boxes and inspects equipment to ascertain if shipment of equipment matches order that was placed.

2006 1/31/06 - Tyco Electronics/MA Com invoice City for 1,482 million dollars worth of equipment. Exhibit 6

2/24/06 - Tyco Electronics/MA Com invoice City for 673,646 & 307,447 worth of equipment. Exhibit 7

City of Milwaukee pays Tyco Electronics. Exhibit 41

3/3/08 - Battalion Chief Julio Rivera is assigned to TSS. Looking to purchase Ruggedized Microphones, Headsets, Exhibit 12

Vehicle chargers and 38 additional portable radios. Cost is: 239,926.50

Total City Contract at this point is \$17,795,322.75 (Basically 17.8 million dollars) Exhibit 13

All equipment has been shipped and paid for. Not sure when all towers are built or when they are operating.

		2007
2007	1/3/07. Temporary notice T# 2007-003 goes out department wide explaining that MFD will receive new radio system. Jan-April meetings occur at Bureau of Instructions and Training on how to set up profiles and talkgroups in order to utilize new radio system. Exhibit 15	
April	Discussions and meetings at school to develop profiles and channels. Goal is to train officers on new radio system. Exhibit 28 pg. 2	
May	Train officers off-duty. Time and 1/2. Radios only have 2 Profiles programmed. Exhibit 16	
	Cancel department-wide training scheduled for June because portables are not ready. Determined all radios need to go back to MA/COM for code/operating system installation. Meet with Sam Steffen and are given an	
	August 30, 2007 date that radios will be ready, to go live. Reschedule department wide training for July/August. Exhibit 19	
June	Continue to develop and refine profiles. Incorporate suggestions from officer radio training.	
July	July 16th. Pick up 22 hand held radios from shop. With antennas and some microphones. Obtain 4 battery chargers. July/Aug. Train entire department on radios. Bring three people from the field. Discover we have the wrong chargers. Train department on MABAS. Set a target date for September 7th.	
Aug	Somehow we discover we have the wrong batteries. Secure correct batteries.	
	MFD originally ordered 62 battery chargers that condition and analyze. Chargers shipped did not perform this function. See Quotation Dated 12/21/04. See documents dated. Exhibits 20, 24, 25.	
	Training ends on August 15th. Waiting for P 7200 radios to be returned from MA COM for code/operating system installation.	
Sept	Meet with dispatch office on September 4th and September 10th to discuss roll out of new radio system & procedures.	
	9/11/07 - Chief Jones speaks with Paul Crow, Project Manager for MA/COM. Conference call. Informed by Paul Crow that radios will not be back from programming until mid-October.	
	MFD completely misses deadline for MABAS activation and roll out of new system.	
	9/19/07 - Temp. Notice #241 is sent department wide, explains delays and missed target date. Exhibit 27	
	Department misses target date for implementation of MABAS. Division 107 is informed of delays.	
	9/21/07 - Radio meeting at McCabe Hall. Chief Holton presides over meeting. See attachment for persons at the meeting.	
	Mid to late November target date set for portable radios. Discussions on mobile radio installation. See notes. Waiting for radios to be returned from MA/COM. Code installation issues are sited as cause for delay. Exhibit 28	
	9/26/07 - Meeting at BIT. Chief Romas, Captain Berendt, Dan Schubring. Conference call with John Royball - Itech - battery charger company. Setting up battery maintenance program. Conference call with Ben Jones - MA/COM technical assistance.	
	Setting up battery maintenance program. Informed by Ben Jones that batteries and radios in our possession are NOT intrinsically safe.	
	9/27/07 - Chief Jones begins investigation. First Timelines are created to document events. Exhibits 29, 30	
	9/28/07 - Portable P7200 radios are verified to be NOT intrinsically safe.	

[illegible]

	2008
Jan	Waiting for intrinsically safe radios to arrive from MACOM. Go live with MABAS on 1/28/08. See temporary notice # 2008-024
	We end up over 4 months late in implementing MABAS as division 109. Exhibit 35
Feb	Waiting for intrinsically safe radios to arrive from MACOM
Mar	Waiting for intrinsically safe radios to arrive from MACOM. Told by MACOM Paul Crow that P 7200 radios will not be out of FM
April	until the end of April. 5 months have passed. Radios should ship by the end of May. See Burel Lane email dated 4/10/08
	MA COM may meet 6 month deadline.
May	Waiting for intrinsically safe radios to arrive from MACOM
	Informed by MA COM that radios did not pass FM for being intrinsically safe radio. See Lane email dated 5/2/08
	MA COM sets a delivery date of late August. This is approximately 11 months not 3 to 6 months.
June	Waiting for intrinsically safe radios to arrive from MACOM. MA COM decides to loan department 125 P7100 VHF radios
	to augment old VHF handheld equipment that is in need of repair. Department views this as a short term solution. Exhibit 39
July	Receive 125 radios and 250 batteries and antennas from MA COM to augment old radio system.
	We deliver 125 P7100 VHF radios with Ruggedized Microphones to the field. This project and allocation of resources
	takes approximately two weeks.
Aug	Waiting for intrinsically safe radios to arrive from MACOM. We believe we have a short term solution in place with the
	P7100 VHF radios. We immediately start to receive reports from the field concerning these radios.
	We receive numerous phone calls and some written documentation from the field concerning feedback and unintelligible
	audio from new P7100 radios.
	8/28/08 - Captain Berendt speaks with Mark from MACOM concerning feedback issues. Service #101290.
	Set up a meeting with John Tramburg Technical Manager of General Communications. These persons are the technical
	people that service the MA COM products in the Milwaukee area. The P7100 VHF radio is tested with a lapel microphone
	at General Communications and is found to have severe feed back issues. This feed back completely disrupts
	communications at an emergency. Captain Berendt witnesses this at a 3-alarm fire on August 31st while serving in the
	position of Incident Safety Officer.
	August 29, 2008 - State of New York issue a letter of default to MA COM concerning State Wide Network system that utilizes
	some of the same technology that Milwaukee plans to use. Exhibit 40

2008	2008
	John Tramburg travels to Ozaukee County and tests the P7100 with MA COM microphones and also with Stone Mountain microphones. Stone Mountain microphone work but are not intrinsically safe.
	General Communications cannot solve the feedback issue.
Sept	Recommendation is that we remove all microphones. Department allocates resources to collect all microphones off P7100 radios. Feedback issue is resolved, however volume on P7100 is too low.
	Waiting for intrinsically safe radios to arrive from MACOM. It has now been one year. Have not received any answer on how microphones can be made to work with the P 7100 VHF radios on loan.
	September 23, 2008 - Berendt and Schubring meet with Sam Steffen to discuss radio roll out in January 2009 when P7200 handheld radios arrive. See Meeting Notes. Exhibit #47
	September 24, 2008 - Buell Lange, Paul Crow, and Jim Anderson call Chief Jones. They have no answer for microphone problems and are unable to give a date of when the original P7200 intrinsically safe radios will be available.
Oct	Waiting for intrinsically safe radios to arrive from MACOM
	10/6/08 - Meet with Jim Anderson and Joh Tramburg of General Communications concerning the feedback of the ruggedized microphones that were issued with the P7100 radios. They stated that MA COM installed a new resistor in the microphone to stop some of the feedback. We ask them to do the same to 6 more microphones so that we can test them. We then ask if modifying the ruggedized microphone will affect the way these will work on the P7200 radios that we are still waiting for. They think that it will not be a problem but cannot say for sure.
	At this meeting Michael Jones asks Jim Anderson where are the P7200 radios. Jim states that they are in Virginia waiting for FM approval.
Nov	November 17 & 18, 2009. MA/COM in town to discuss radios system. The following issues are discussed with Dirk Young Improperly working Lapel Microphones. Training Issues. VTAC. Battery delivery that has not occurred. Delivery of Intrinsically Safe P7200. Meeting is also held with Assist. Chief Glassel, Paul Crow, Dirk Young, Sam Steffan, Dan Berendt See notes. Exhibit #57
Dec	December 2008 - waiting for P7200. MA/COM cancels visit due to poor weather conditions on Dec. 23. Meeting set for January 2009.

2009	2009
Jan	January 8th. Dirk Young in town. Test Radios delivered to Police Radio Shop. Talks about delivery of all radios and batteries. We discuss the lapel microphone issues and he states that P7200 radios (the new ones) do not have any issues with the microphones. Seemed to work ok right out of the box. Does not recommend any modifications to the microphones until we test them on our radios.
	January 15, 2009. State of New York Cancels contract with MA/COM after spending approximately 50 million dollars. See New York Letter. Exhibit # 67
	January 15, 2009. MFD receives P7200 radios and batteries on time. However, there is a problem with the "Base File" and programming issues. MFD will not be able to train on these radios. MFD had scheduled a training session for February.
	January 27, 2009. Captain Berendt and Lieutenant BeVirt meet with Sam Steffan concerning radio personalities and identifications of the 25 test P7200 handheld radios. Captain Berendt and Lieutenant BeVirt are informed of coverage issues with the entire Open Sky system. Sam Steffan states that our primary dispatch Talkgroups will not be ready and additionally all of the "interoperability" talkgroups will not be ready. He states these are problems associated with the coverage issues concerning the entire Open Sky system. This news surprises us and is reported up the chain of command. As meeting ends, Sam Steffan tells us that he is retiring effective February 12, 2009. Exhibit # 69
Feb	February 2, 2009. Captain Berendt and Lt. Williamson go to police radio shop and pick up 25 "test" P7200 radios. Captain Berendt and Matt Williamson upon returning to the Bureau of Intruction and Training. Attach lapel microphones "non-modified" and discover that none of the microphone issues are resolved. That is: feedback, poor reception and poor audio quality persist. This is contrary to what Dirk Young stated when he was in town on January 8th. Exhibit # 70
	February 5, 2009. Conference call occurs with MA/COM representatives. Exhibit # 75
	At 1340 hours we had a conference call with Dirk Young, Paul Crow and Rebecca from MA/COM. Michael Jones, Matt Williamson and myself (Dan Berendt) we present in office. Following issues discussed.
	Poor system performance. Coverage issues. Antenna tower installation. Feedback on Lapel Microphones.
	Poor reception and transmission. Radios shipped without Base File. Questioned them about State of New York and other areas where their system was operating. Dirk Young asked if we could try the "modified microphones"
	After the conference call we tried the "modified microphones" they performed poorly. Radios and microphones not operating properly.
	February 11, 2009 Dirk Young in town to discuss radio implementation issues. Overall system readiness and Milwaukee Fire Department concerns. New P7200 radios are tested in front of Dirk Young, Paul Crowe, Jim Anderson, & Tom.
	Radios perform poorly without microphones and with microphones.
	They perform poorly with lapel microphone out of the box and lapel microphones that were modified.

2009	2009
Mar	March 2, 2009. Meet with David Go - acting Police Radio Mngr. Talked to him about fire department needs.
	Including Fire Department Dispatch channels and interoperability. See notes. Exhibit # 79