

### **Discussions and Activities**

**Lapel Microphones** – at the present time we were not satisfied with the up-graded microphone. Several proposals were discussed. Volume levels could be adjusted. Radios were to be identified as either with a microphone or without a microphone. Radios with microphones would have the maximum volume set at such a point that the volume control could be turned all the way up and it would not cause a feedback issue. Radios without microphone would have the maximum volume setting as loud as it can go. We need to pre-identify the radios so that they remain separate. All labeling would be done by Sam Steffen. The volume adjustment would also be made by Steffen at the time he was importing and programming the personalities into the radios. It will be our job to identify how many radios come with a microphones and how many come without. We need to determine that prior to the programming of the radios. We asked if they were going to take the microphones that we had in our possession and insert new resistors. Dirk stated that it was his preference to determine first in Lynchburg how the microphones work with a P7200 radio. Furthermore, it was his preference to supply us with “new” microphones and that they would take back the microphones that we now have in our possession.

**Training Personnel** – it was determined that training on the use and functions of the radio’s themselves and also on how the system operates was important. We asked Dirk Young for assistance in this area. He stated he would do the following: He would determine what on-line resources were available. He would determine if they had any DVD training available. We asked if they would be willing to commit to 18 days of training the department. He stated that he did not know if they could do that, but that when we were ready he would ask for the resources. We felt we needed at least 2 to 3 cycles of training next year. We may even need to address radio issues at every training session.

**V-Tacs** – It was determined that V-tacs would only be installed in one or maybe two “special department vehicles” so that at a later date we could determine the operational protocol for utilizing the V-Tac units. The one or two units that the V-Tac’s are installed in would be used for testing. We requested any “white papers” or any additional technical information available concerning the V-Tac’s.

**Batteries** – we expressed our displeasure that the original batteries that we ordered have not been delivered. MA-COM owes us over 1000 batteries and we would like to begin conditioning them and we also need them to augment the 250 batteries presently in use.

**Delivery of P7200** – at least two times from Dirk Young and one time from Paul Crowe they stated that they would meet or beat the January 15, 2009 deadline. We requested at least a dozen radios delivered at the earliest possible time in order for us to begin the process of programming the radios and testing the systems effectiveness. Dirk Young stated he was willing to send us these twelve radios ASAP.

**Installation of Mobile Radios** – the MPD will install mobile radios on MFD vehicles. MFD is to provide one shop person to assist. Sam Steffen stated that they could install possibly up to two radios per day. Sam Steffen stated that he was down 1 installer and 2 technicians in his radio department. Chief Glassel was to talk to DER and see if he could help expedite the hiring of the installer. If this is done, Sam stated that they could begin installing radios in January. It was noted at one install per day it would take approximately 5 months to install radios in the front line apparatus. This does not include installing radios in approximately 25 support vehicles.

**Training Lessons and Reporting of Problems from the MPD** - MPD felt that lack of adequate training was responsible for problems in operation of new radios. Specific training issues on the MPD surrounded the grant and deny tones. It was stated that it is no different than the Nextel phone we utilize. Additionally, what is the procedure that is set up to assist persons who are having a problem with the new radios? How do people report a problem? The following is basic information that is needed in order to address problems with the new radios or when implementing the new radios. Need facts: Exactly what happened, when and how? Constructive feedback is needed. Is the unit broken or is it operational error?

**Staffing** – Dirk Young stated that he would ask his superiors to hire an additional project director for the City of Milwaukee to assist the fire department in radio roll out.

**MABAS**- Sam appeared to not know that the IFERN patch had been turned off. Sam wanted to have a meeting and Chief Jones was to assist in setting it up. Persons who should probably be invited to this meeting include: Jones, Steffen, Satual, Rice, Mueller, Payne, Berendt, and representatives from MABAS #107.

Analysis of 800 MHz mobile radios and VTAC's ordered. 8/25/08 - Captain Berendt				
Type of Apparatus	Number of Units	Mobile Radios	139	
Engines	37	38 VTacs	37	Draft
Trucks	17	18		Draft
Med Units	12			
Battalion Chiefs	5			
Car 3	1			
ISO - Cair 1 and 2	3			
Recall - B6, B7, C3A	3			
Rescue 1, 2, 4 (E12)	3			
Haz Mat 1, Haz Mat 2	2			
Rescue 3, Dive 2 (E3)	2			
Fireboat - Trident	1			
CCU (E-9)	1			
Reserve Engines	12			
Reserve Ladders	6			
Reserve Med Units	4			
Total Mobile Installs	109	147		
Chief Officer Cars				
Bureau Cars				
Shop Cars				
VTAC Analysis				
Rescue 1 and 2 (Rescue 4 Tractor/Trailer)	2			
Haz Mat 1 and 2	1			
Rescue 3	1			
Fireboat Trident	1			
CCU	1			
Total Additional VTAC's	6			
Chief Officer Cars				
Bureau Cars				
Shop Cars				

Eng & Truck

# Analysis of the Time Frame for Installation of Mobile Radios in Milwaukee Fire Department Units. 11/17/08

Type of Apparatus	Number of Units	Draft
Engines	38	Draft
Trucks	17	Draft
Med Units	12	
Battalion Chiefs	5	
Car 3	1	
ISO	1	
Recall - B6, B7, C3A	3	
Hurt, Dive, Haz Mat	3	
Reserve Engines	12	
Reserve Ladders	6	
Reserve Med Units	4	
<b>Total Mobile Installs</b>	<b>102</b>	

## Three different time frame analysis.

	Units Install per day.	Number of Days
1. One Apparatus per day	1	102
2. One and 1/2 Apparatus per day	1.5	68
3. Two Apparatus per day	2	51

## Completion of Installations based on Absence Analysis Calendar and Starting Dates of January 1, 2009

Note these assumptions are made without knowing whether mobile radios need to return to Lynchburg for Code Installation.

### Start Dates

	January 1, 2009
1. One Apparatus per day - Done Date	May 28, 2009
2. 1.5 Apparatus per day-Done Date	April 8, 2009
3. Two Apparatus per day-Done Date	March 16, 2009

Note these assumptions are based on the availability of MFD reserve apparatus and any installation pace greater than one per day would require 2 switch overs of apparatus.

There are also a minimum of 25 Staff Vehicles and Special Equipment that need mobiles.

Month	Days
January	20
February	20
March	22
April	21
May	20
June	22
<b>Total Days</b>	<b>125</b>

This report was prepared by Captain Berendt - MFD - 11/17/08