



METROPOLITAN EMERGENCY SERVICES BOARD RADIO TECHNICAL OPERATIONS COMMITTEE AGENDA

November 17, 2021, 1:00 p.m.

This meeting will be conducted in-person at the MESB Office ONLY. Face masks will be required.

1. **Call to Order** – Committee Chair, Jake Thompson
2. **Approval of Agenda** – Thompson
3. **Approval of Minutes of October 27, 2021 Meeting** – Thompson
4. **Action Items**
 - A. COMU Recognitions/Renewals – Tracey Fredrick
 - i. Jake Thompson COML/COMT renewal
 - B. Minneapolis Backup Center Approval – Rod Olson
5. **Moves, Additions & Changes to the System**
6. **Committee Reports**
 - A. Metro Mobility System Usage Update – Chad LeVasseur/Clay Stenbeck
 - B. System Managers Group Update – Jansen
 - C. MnDOT ARMER System Update – John Anderson/Tim Lee/Dave Klema
 - D. SECB Committees
 - i. Steering – Jill Rohret/Fredrick
 - ii. LMR – Nate Timm
 - iii. WBBA – Rod Olson/Thompson
 - iv. IOC & Workgroups
 - a. IOC -Thompson/Timm
 - b. STR Workgroup - Curt Meyer/Mark VandenBerghe
 - c. COMU Workgroup - Timm/Dan Anderson
 - v. IPAWS – Scott Haas
 - vi. Finance/Grants Workgroup – Fredrick
7. **Other Business**
 - A. METAC Permission update – Fredrick
8. **Adjourn**

Reminder: Next meeting scheduled for December 22, 2021

Metropolitan Emergency Services Board

Radio Technical Operations Committee

October 27, 2021

Draft Meeting Minutes

Derek Baas, Sherburne County

Jeff Bjorklund, MSP Airport

Susan Bowler, Carver County

Cory DeMuth, Anoka County

Ron Jansen, Dakota County-Phone

Chad LeVasseur, Metro Transit

Curt Meyer, Hennepin County

Rod Olson, City of Minneapolis

Nick Schatz, Scott County

Chuck Steier, U of M PD

Jake Thompson, Chisago County

Nate Timm, Washington County

Victoria Vadnais, Allina EMS

Mark VandenBerghe, MN State Fire Chiefs

Guests: Marcus Bruning, ECN; Andrew LaVenture, Edina PD

MESB Staff: Tracey Fredrick, Jill Rohret, Martha Ziese

1. Call to Order

Jake Thompson, Radio Chair called the meeting to order at 1:00 p.m.

2. Approval of Agenda

Jake Thompson asked that 7B. BCA Security Discussion be added to the agenda.

Jeff Bjorklund moved to approve the amended agenda for October 27, 2021 meeting.

Susan Bowler seconded. Motion carried.

3. Approval of Minutes

Mark VandenBerghe moved to approve the minutes from the September 22, 2021 meeting.

Curt Meyer seconded. Motion carried.

Action Items

4A. COMU Recognitions/Renewals

i. Leticia Cardenas COML

Rod Olson moved to approve Leticia Cardenas COML certification renewal. Mark VandenBerghe seconded. Motion carried.

B. Acceptance of Operation Safety Net After Action Report

Jill Rohret said the final draft was approved by the 9-1-1 TOC last week. That draft was revised to correct 2 typos and change a specifically named channel to "a regional channel".

Motion made by Curt Meyer to accept Operation Safety Net After Action Report with recommended changes. Nick Schatz seconded. Motion carried.

C. Election of 2022 Radio TOC Chair and Vice-Chair

Motion made by Curt Meyer to approve Jake Thompson as 2022 Radio TOC Chair.

Cory DeMuth seconded Motion carried.

Motion made by Jeff Bjorklund to approve Ron Jansen as 2022 Radio TOC Vice-Chair.

Nick Schatz seconded Motion carried.

Metropolitan Emergency Services Board

D. Appointment to SECB Committees for 2022

Motion made by Rod Olson to appoint Nate Timm as Primary and Curt Meyer as Alternate to the Land Mobile Radio Committee. Mark VandenBerghe seconded. Motion carried.

Motion made by Cory DeMuth to appoint Rod Olson as Primary and Jake Thompson as Alternate to the Wireless Broadband and Applications Committee. Jeff Bjorklund seconded. Motion carried.

Motion made by Victoria Vadnais to appoint Jake Thompson as Primary and Nate Timm as Alternate to the Interoperability Committee. Mark VandenBerghe seconded. Motion carried.

Motion made by Cory DeMuth to appoint Curt Meyer as Primary and Nick Schatz as Alternate to the STR work group. Mark VandenBerghe seconded. Motion carried.

Motion made by Victoria Vadnais to appoint Dan Anderson as Primary and Nate Timm as Alternate to the COMU Work group. Curt Meyer seconded. Motion carried.

E. 2022 Meeting Dates

Tracey Fredrick said the 2022 Radio TOC meeting dates follow what has been standard, fourth Wednesday each month, except in November, which will be the third Wednesday. The April 2022 meeting has a potential conflict with the Public Safety Conference. That meeting date discussion will be discussed again when the date gets closer.

Motion made by Curt Meyer to approve 2022 Radio TOC meeting dates. Jeff Bjorklund seconded. Motion carried.

5. Moves, Additions & Changes to the System

Rod Olson said that the Minneapolis 9-1-1 back-up center is going forward but there is a change to use existing T1s instead of fiber. The concern is that there may not be a November Radio TOC meeting to approve this change. He will bring a schematic to the next Radio TOC meeting.

Rohret said to be prepared to get a waiver and/or a variance if this was to go forward before MESB and SECB approval and the 9-1-1 side will need to do a plan change.

Olson asked if he should write something up for the next LMR meeting saying all the necessary approval are not yet in place.

Rohret said the LMR can always take action pending MESB approval, but that will not be until the January 2022 meeting.

Curt Meyer said there are items that might cause outages on the north end of the Hennepin County. The Rogers tower site will be connected by fiber rather than microwave. County Board move forward on the patrol division replacement. There is a discussion on whether to leave a portion of the building or put a smaller building there. Leaving a portion of the building would minimize the outage. The patrol division will be joined to the county building on the northwest corner.

Olson said the state is doing a change out tomorrow to main site downtown.

6. Committee Reports

A. Metro Mobility System Usage Update

Chad LeVasseur said numbers remain low. Ridership is near 80% of pre-pandemic ridership.

Metropolitan Emergency Services Board

B. System Owners Group Update – no meeting

C. MnDOT ARMER System Update – no update

D. SECB Committees

i. Steering- no meeting

ii. LMR

Nate Timm said at the October 12 meeting. There were some ECN sponsored webinar series announced. Regional leadership meeting was discussed. Carver County CCGW plan was approved. Isanti County had a participation plan change approved. LaCrosse County was approved for more radio IDs. MnDOT was approved for Harris Radios that were tested. There was a discussion on SCIP goals.

iii. WBBA

Rod Olson said the WBBA met October 19. SCIP goals were discussed and voted to send the final draft to the Steering Committee. Dave Pike was voted in as the new Vice-Chair. An FCC 9-1-1 Strike Force report indicated there was not much written about cellular, so it does not affect the WBBA much. The committee had said there was a need for more documentation about where FirstNet is headed. There was a recorded speech from Jennifer Harder.

iv. IOC & Workgroups

a. IOC- no meeting

b. STR Workgroup – no meeting

c. COMU Workgroup

Nate Timm said the COMU work group met on October 19. Some renewals for COMU positions were processed.

v. IPAWS – no meeting

vi. Finance/Grants Workgroup

Tracey Fredrick said the Finance Committee discussed the FCC fee diversion report, and some regional governance and funding support. The Grants Work Group discussed some SECB grants for next year. The metro is currently allotted \$250,000.00 for January 2022 through June 2023.

Victoria Vadnais asked if there were any updates for PSAPs on fee diversion.

Fredrick said there is less concern now about how Minnesota will use the 9-1-1 fee. Fredrick will send Vadnais the FCC report.

7A. METAC Permission update

Fredrick said there were no new permissions requested last month.

Rod Olson said there had been talk of creating a new encrypted talk group.

Rohret said action was delayed until the 9-1-1 TOC gave their opinion. That item was included in questions for the MESB/9-1-1 consultant. Mike Mihelich can make that report available to you if you would want to form a work group.

B. BCA Security Discussion

Jake Thompson said Jon Eckel sent him the updated network security policy the BCA came up with. There is a statement in their policy that discusses radio traffic.

Metropolitan Emergency Services Board

Olson said this concerning because it greatly affects metro radio and there has been no discussion between the BCA and metro system administrators.

Susan Bowler clarified it would be AES encryption.

Rohret asked if this was an alert to be in compliance by a certain time? It would be appropriate that the SECB get some clarification on this topic.

After the conclusion of discussion, Jeff Bjorklund stated he has taken a new position at MAC and will be leaving the TOC when his replacement is hired.

8. Adjournment 1:46 p.m.

COMU Position Recognition Application

Application Type:

Initial Application Renewal Change of Status

Position:

COML COMT INCM
 INTD RADO AECS

Name

(Last, First Middle)

Certifying
Agency

County

ECB/ESB
Region

Agency Address

24/7
Telephone

Business
Telephone

Email Address

Signature

Date

Agency Certification (this section must be completed even if PTB Agency Certification form was completed)

The above named individual seeking state recognition for the above identified COMU position(s) is recognized by the above named agency in that COMU position. The person serves the agency as a paid employee or as a volunteer but, in either case, is recognized as an employee for the purposes of Workers Compensation, liability, and all other liability-related protections afforded employees of the agency, when activated for duty.

When the above named person serves in the COMU position(s), whether within the agency's jurisdiction, or outside, the person serves as an employee/representative of the agency providing the Agency Certification.

Name & Title

Agency

Signature

Date

Regional Recognition

The ECB/ESB region has reviewed the request for state recognition and supports state recognition of this person.

Name & Title

Region

Signature

Date

SECB Interoperability Committee & Statewide Interoperability Coordinator (SWIC) Recognition

The SECB Interoperability Committee and the SWIC have reviewed and approved this request for state recognition.

SWIC

Signature

Date

COMU Experience Record

Name
(Last, First Middle)

Agency

ECB/ESB
Region

Position:

COML
 INTD

COMT
 RADO

INCM
 AECS

Detail activities below and attach supporting documents (use multiple lines or pages, as necessary).

POINTS	DATE(S)	SUMMARY (location, activity, participants, who can verify, general summary)

I certify that the above information is an accurate portrayal of my participation in the activities.

Signature

Date:

MINNESOTA METRO REGION ICS205 INCIDENT, EVENT OR EXERCISE COMMUNICATIONS PLAN	INCIDENT/EVENT NAME	DATE/TIME PREPARED	OPERATIONAL PERIOD DATE/TIME
	2020 Civil Unrest (Revision 4)	6/5/2020 1030	6/4/2020 10:00 to 6/8/2020 04:00

Line	Function (NET) <small>(COMMAND, TACTICAL, SUPPORT, AIR)</small>	Talkgroup/Channel/Phone	Assignment <small>(LAW, FIRE, EMS, OTHER)</small>	RX Freq (N or W)	RX Tone/NAC	TX Freq (N or W)	TX Tone/NAC	Mode <small>(A, D or M)</small>	Remarks
1	Tactical	LTAC 3	Law	ARMER 800 MHz		ARMER 800 MHz		D	Ramsey County Expanding Events
2	Tactical	LTAC 4	Law	ARMER 800 MHz		ARMER 800 MHz		D	Ramsey County Protest Detail
3	Tactical	LTAC 6E	Law	ARMER 800 MHz		ARMER 800 MHz		D	SPPD SIU
4	Tactical	STAC 1	Law	ARMER 800 MHz		ARMER 800 MHz		D	MPD Strike Teams ; Memorial Event on 6/4 with precinct 1. If expands precinct 1 will move to ME TAC
5	Tactical	STAC 4	Law	ARMER 800 MHz		ARMER 800 MHz		D	UMPD / Transit / Other Agency MFF. Alternate for Anoka MFF
6	Tactical	STAC 5	Law	ARMER 800 MHz		ARMER 800 MHz		D	HCSO MFF
7	Tactical	STAC 6	Law	ARMER 800 MHz		ARMER 800 MHz		D	MSP MFF, Also Anoka MFF
8	Tactical	STAC 7	Law	ARMER 800 MHz		ARMER 800 MHz		D	MSP Command
9	Tactical	STAC 8	Law	ARMER 800 MHz		ARMER 800 MHz		D	MSP Capitol / Guard
10	Tactical	STAC 9	Law	ARMER 800 MHz		ARMER 800 MHz		D	MSP & Guard Air Operations
11	Tactical	ME TAC 3	Law	ARMER 800 MHz		ARMER 800 MHz		D	St. Paul PD, Ramsey Staging
13	Tactical	METAC 5	Law	ARMER 800 MHz		ARMER 800 MHz		D	Mpls Precinct 1 with National Guard
14	Tactical	METAC 6	Law	ARMER 800 MHz		ARMER 800 MHz		D	MACC Rapid Arrest Teams (RAT) / Transport Teams (Anoka/HC)
15	Tactical	METAC 7	EMS	ARMER 800 MHz		ARMER 800 MHz		D	EMS Mutual Aid (HEMS)
16									

SPECIAL INSTRUCTIONS

Please avoid using patches for extended periods of time. Please contact metro COML noted below with any change requests. Mpls 911 Center supervisor line is 612-348-7240.

COML: Jake Thompson (primary point of contact) , Anoka County AGENCY: Metro CRTF COMU PHONE: (763)486-3279 (cell) EMAIL: jake.thompson@co.anoka.mn.us	INCIDENT/EVENT LOCATION
	Twin Cities Metro Region

The convention calls for frequency lists to show four digits after the decimal place, followed by either an "N" or a "W", depending on whether the frequency is narrow or wide band. Mode refers to either "A" or "D" indicating analog or digital or "M" indicating mixed mode. All channels are shown as if programmed in a control station, mobile or portable radio. Repeater and base stations must be programmed with the Rx and Tx reversed. (MESB Version 1.0, 11/2015)

MINNESOTA METRO REGION ICS205 INCIDENT, EVENT OR EXERCISE COMMUNICATIONS PLAN	INCIDENT/EVENT NAME	DATE/TIME PREPARED	OPERATIONAL PERIOD DATE/TIME
	PGA Golf Tournament	06/25/2019 1045	07/01/2019 - 07/08/2019

Line	Function (NET) <small>(COMMAND, TACTICAL, SUPPORT, AIR)</small>	Talkgroup/Channel/Phone	Assignment <small>(LAW, FIRE, EMS, OTHER)</small>	RX Freq (N or W)	RX Tone/NAC	TX Freq (N or W)	TX Tone/NAC	Mode <small>(A, D or M)</small>	Remarks
1	Command Net	STAC12	Command	ARMER		ARMER		D	
2	Event LAW Dispatch	AN TG 5	LAW	ARMER		ARMER		D	Communicate with Dispatch
3	Event Fire Dispatch	CO FTAC D	Fire	ARMER		ARMER		D	
4	Event Roving Security	ME-TAC3	LAW	ARMER		ARMER		D	
5	Event Inner Perimeter	ME-TAC5	LAW	ARMER		ARMER		D	
6	Event Gate Security	STAC10	LAW	ARMER		ARMER		D	Needed STAC due to inability to use Repeater on Portable Tower
7	Event Law Traffic	County Common	LAW	ARMER		ARMER		D	
8	Law: Shuttle/Bus Traffic	EMER MGMT 2	LAW	ARMER		ARMER		D	Law Radios: Zone B, Channel 15
9	MPLS Bomb	LTAC5E	LAW	ARMER		ARMER		D	
10	Allina	AL-TAC 8	EMS	ARMER		ARMER		D	
11	PGA	AN SP EVENT 2							ACU-T Patch to Allina AL-TAC5. PGA Operations Loaned a Cache Radio on Sp Event 2 for emergency. PGA Operations Radio in Command Post
12	Busses	AN SP EVENT 3							Assigned Cache TG for Bus Supv
13	Postal								Cache Radio to Command Net
14	Anoka Co Emer Mgmt	AN EM Ops	Emergency Management	ARMER		ARMER		D	
15	Police Explorer	STAC9	LAW	ARMER		ARMER		D	Needed STAC due to inability to use Repeater on Portable Tower
16	Allina Dispatch Cell								
17	Anoka Dispatch								
18	Anoka Radio Service								

SPECIAL INSTRUCTIONS

COML: Jake Thompson | Vikki Vadnais
 AGENCY: Anoka County | Allina
 PHONE: 763-486-3279
 EMAIL: Jake.Thompson@co.anoka.mn.us

INCIDENT/EVENT LOCATION

City of Blaine Minnesota

The convention calls for frequency lists to show four digits after the decimal place, followed by either an "N" or a "W", depending on whether the frequency is narrow or wide band. Mode refers to either "A" or "D" indicating analog or digital or "M" indicating mixed mode. All channels are shown as if programmed in a control station, mobile or portable radio. Repeater and base stations must be programmed with the Rx and Tx reversed. (MESB Version 1.0, 11/2015)

MINNESOTA METRO REGION ICS205 INCIDENT, EVENT OR EXERCISE COMMUNICATIONS PLAN SECURITY DATA - L.E. SENSITIVE	INCIDENT/EVENT NAME	DATE/TIME PREPARED	OPERATIONAL PERIOD DATE/TIME
	Operation Safety Net Phase 3 West Metro Response	V.5: 04/13/2021 00:45	4/12/2021 - 5/31/2021

Line	Function (NET) <small>(COMMAND, TACTICAL, SUPPORT, AIR)</small>	Talkgroup/Channel/Phone	Assignment <small>(LAW, FIRE, EMS, OTHER)</small>	RX Freq (N or W)	RX Tone/NAC	TX Freq (N or W)	TX Tone/NAC	Mode <small>(A, D or M)</small>	Remarks
1	COMMAND	ME TAC 12E	PSAP	ARMER - 800Mhz		ARMER - 800Mhz		D	PSAP to PSAP hailing, PSAP to area commands
3	TACTICAL	LTAC 5E	LAW	ARMER - 800Mhz		ARMER - 800Mhz		D	Primary MFF/MRT in Minneapolis
3	TACTICAL	LTAC 6E	LAW	ARMER - 800Mhz		ARMER - 800Mhz		D	Secondary MFF/MRT in Minneapolis
4	TACTICAL	STAC 4	LAW	ARMER - 800Mhz		ARMER - 800Mhz		D	State Patrol/DNR - MRT
5	COMMAND	MP-SECCOM	LAW	ARMER - 800Mhz		ARMER - 800Mhz		D	MFF/MRT as needed for XO,IC, command level communication, patch for interoperability
6	COMMAND	LTAC 10E	LAW	ARMER - 800Mhz		ARMER - 800Mhz		D	
7	COMMAND	LTAC 4	LAW	ARMER - 800Mhz		ARMER - 800Mhz		D	Tactical Traffic Group (MPD C5) detail command net
8	TACTICAL	8-SOA-3	LAW	853.950 (N)	293	853.950 (N)	293	D	Tactical Traffic Group (MPD C15) detail tactical
9	TACTICAL	SIU-1E	LAW	ARMER - 800Mhz		ARMER - 800Mhz		D	Bomb Teams (MPD-E B10)
	TACTICAL	BCA-TAC7	LAW	ARMER - 800Mhz		ARMER - 800Mhz		D	Field Intelligence Teams (MPD-E B14)
10	TACTICAL	ME TAC 5	LAW	ARMER - 800Mhz		ARMER - 800Mhz		D	Property Protection Detail (PPD) (MPD A12)
11	TACTICAL	ME TAC	LAW	ARMER - 800Mhz		ARMER - 800Mhz		D	Expansion for PPD as needed first available METAC 1, 2 or 3
12	TACTICAL	MPPD 8	LAW	ARMER - 800Mhz		ARMER - 800Mhz		D	Booking Teams detail
13	TACTICAL	STAC 2	LAW	ARMER - 800Mhz		ARMER - 800Mhz		D	Reserved for expansion as needed to have interoperability with MPD
14	TACTICAL	MPPD 9	LAW	ARMER - 800Mhz		ARMER - 800Mhz		D	MPD Fire Security Detail
15	TACTICAL	MPFD-3	FIRE	ARMER - 800Mhz		ARMER - 800Mhz		D	MFD Tactical Task Force Channel Available for Fire Security Detail
16	COMMAND	MPLS COMMON	LAW & FIRE	ARMER - 800Mhz		ARMER - 800Mhz		D	MPD (A15) to MFD (A13) communications
17	TACTICAL	MP-ECCOM	LAW	ARMER - 800Mhz		ARMER - 800Mhz		D	MPD Encrypted
18	TACTICAL	MPPD-12	LAW	ARMER - 800Mhz		ARMER - 800Mhz		D	MPD Encrypted Teams Talk Around
19	TACTICAL	LTAC 8E	LAW	ARMER - 800Mhz		ARMER - 800Mhz		D	MFF in Champlin ; Champlin & Anoka Co combined teams
20	TACTICAL	STAC 5	LAW	ARMER - 800Mhz		ARMER - 800Mhz		D	Property Protection Detail (Brooklyn Cetner)
21	TACTICAL	ME TAC 6	LAW	ARMER - 800Mhz		ARMER - 800Mhz		D	MFF in Brooklyn Center with National Guard
22									

SPECIAL INSTRUCTIONS

Tactical nets for MFF teams will have an assigned dispatcher. Talk groups have been reserved for the operational period listed. MPD-E indicates MPD encrypted radio.

COML: Sara Boucher-Jackson (COMU Lead), Nate Timm, Greg Nelson
 AGENCY: Minneapolis 911 / Washington Co Sheriff / Hennepin County Sheriff

INCIDENT/EVENT LOCATION

Minneapolis Hennepin County Courthouse & Twin Cities Metro Wide

The convention calls for frequency lists to show four digits after the decimal place, followed by either an "N" or a "W", depending on whether the frequency is narrow or wide band. Mode refers to either "A" or "D" indicating analog or digital or "M" indicating mixed mode. All channels are shown as if programmed in a control station, mobile or portable radio. Repeater and base stations must be programmed with the Rx and Tx reversed. (MESB Version 1.0, 11/2015)



November 05, 2021

RE: Additional ARMER Console site and connection request

MESB Staff

Tracey Fredrick, Radio TOC

Mike Mihelich, 911 TOC

Tracey and Mike please add this request to the next Radio and 911 TOC meetings.

The City of Minneapolis would like to change our participation plan and request additional connections for a backup 911 center and we seek the approval of the MESB for this new backup PSAP. The City of Minneapolis was one of the first ARMER sub system and console owners on the system starting in 2001.

Radio TOC: At this time we would like to add a backup 911 dispatch site with 7 radio dispatch positions that will be IP based Motorola MCC 7500e consoles with "Cryptor" encryption modules. We hope to have this work completed this year. The City will continue to use local analog equipment for logging of radio talk groups and phones while looking for a long term logging solution in the future. This will use our backup radio consolettes for recording and will require two CCGW units with a total of 16 ports, 8 ports will be used at initial set up. The radio ID's to be used are within our current assignment so no new ID's are being requested. We have been in contact and discussion with MN DOT on this new site and until recently we thought this site would be one of the first console sites connected through ethernet. We have determined that the site will initially be set up as T1 connections. We are requesting to extend our current ARMER network connection point to new "Dark Fiber" connection through dedicated Single Mode Fiber to our new 911BU site at the Convention Center.

911 TOC: This new backup dispatch center includes twelve (12) VESTA 9-1-1 workstations which are part of Call Handling System 1 (CHS1). These 9-1-1 workstations are being relocated from the Third Precinct location to this new location. The 9-1-1 workstations will be integrated with the PSAP's CAD, Logging Recorder, and Radio systems. The new 9-1-1 workstations will be connected on customer-provided WAN facilities to each of the CHS1 Data Centers: Primary at the Sheriff's Office at Parkers Lake and Secondary at the Hennepin County Government Center Data Equipment Room.

Rod Olson

Manager of Radio Communications Electronics

ARMER Public Safety Radio System Administrator for

The City of Minneapolis, MN

661 5th Ave North

Minneapolis, MN 55405

**Metro Mobility Usage
(Hours:Mins:Secs)
2021**

Month	City Center	Anoka (Lino Lakes)	Dakota	Norwood	Hastings	North Branch	Hennepin West	Overall
January	63:54:47	31:25:26	21:23:55	11:11:37	32:59:25		21:56:38	182:51:48
February	57:56:13	24:20:30	18:36:36	10:21:59	31:51:11		16:53:24	159:59:53
March	53:34:46	27:26:49	26:20:11	9:52:27	35:08:45		16:49:47	169:12:45
April	55:00:15	30:54:14	24:06:32	9:09:14	40:40:15		16:44:56	176:35:26
May	61:13:57	34:33:12	27:57:47	10:11:48	43:15:14		8:07:13	185:19:11
June	64:33:25	36:47:51	29:58:21	10:01:23	46:05:57		25:22:17	212:49:14
July	64:48:30	35:23:54	27:00:54	10:33:19	47:38:19		27:56:06	213:21:02
August	61:38:04	32:04:47	30:09:48	11:48:08	41:07:40		17:19:09	194:07:36
September	47:52:38	25:12:44	20:25:05	11:01:06	31:24:40		17:26:06	153:22:19
October	49:50:03	24:15:39	26:04:50	9:42:58	35:54:03		15:18:51	161:06:24
November								
December								

Difference
since Jan. 12 656:57:50 385:58:45 298:06:15 222:53:22 265:34:15 0:26:46 152:56:51 1982:54:04

Target 150:00:00 75:00:00 75:00:00 75:00:00 75:00:00 0:00:00 75:00:00 525:00:00