

PAYNE, MICHAEL

From: ERTL, RICKY
Sent: Tuesday, February 23, 2010 8:54 AM
To: 'terry.self@harris.com'
Cc: PAYNE, MICHAEL; SNYDER, CHRISTOPHER; ERTL, RICKY; MUELLER, HEIDE
Subject: Milwaukee Fire Department fleet mapping

Terry,

Deputy Chief Payne asked that I email you our talk group ID's and names along with our profiles we would like programmed into our radios.

You had mentioned that we should take 5000 talk group ID's. I started with 10001 and used numbers up to 15000. This would leave room for us in the future to add additional talk groups if needed.

If you have any questions, please send us an email or call.

Lt. Ricky Ertl

Vehicle Operations Instructor
Milwaukee Fire Department
Bureau of Instruction and Training
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3/8/2010

TG Property

Developing Property Class Identification Numbers

TGID	TG NAME	DESCRIPTION	HANG TIMER	CALL CRITERIA	PSAP CRITERIA	SET-UP TIMER	COVERAGE CLASS
10001	<u>DISPACH</u>	<u>Dispatcher (joined) TG 1</u>	<u>0</u>	<u>none</u>	<u>none</u>	<u>0</u>	1 or 3
15000	<u>D1SPACH</u>	<u>Dispatcher (joined) TG 16</u>	_____	_____	_____	_____	_____
10102	<u>01 FRGD</u>	<u>Fire Ground Profile 1</u>	_____	_____	_____	_____	_____
10202	<u>02 FRGD</u>	<u>Fire Ground Profile 2</u>	_____	_____	_____	_____	_____
10302	<u>03 FRGD</u>	<u>Fire Ground Profile 3</u>	_____	_____	_____	_____	_____
10402	<u>04 FRGD</u>	<u>Fire Ground Profile 4</u>	_____	_____	_____	_____	_____
10502	<u>05 FRGD</u>	<u>Fire Ground Profile 5</u>	_____	_____	_____	_____	_____
10602	<u>06 FRGD</u>	<u>Fire Ground Profile 6</u>	_____	_____	_____	_____	_____
10702	<u>07 FRGD</u>	<u>Fire Ground Profile 7</u>	_____	_____	_____	_____	_____
10802	<u>08 FRGD</u>	<u>Fire Ground Profile 8</u>	_____	_____	_____	_____	_____
10902	<u>09 FRGD</u>	<u>Fire Ground Profile 9</u>	_____	_____	_____	_____	_____
11002	<u>10 FRGD</u>	<u>Fire Ground Profile 10</u>	_____	_____	_____	_____	_____
11102	<u>11 FRGD</u>	<u>Fire Ground Profile 11</u>	_____	_____	_____	_____	_____
11202	<u>12 FRGD</u>	<u>Fire Ground Profile 12</u>	_____	_____	_____	_____	_____
11302	<u>13 FRGD</u>	<u>Fire Ground Profile 13</u>	_____	_____	_____	_____	_____
10103	<u>01 RIT</u>	<u>R.I.T. Profile 1</u>	_____	_____	_____	_____	_____
10203	<u>02 RIT</u>	<u>R.I.T. Profile 2</u>	_____	_____	_____	_____	_____
10303	<u>03 RIT</u>	<u>R.I.T. Profile 3</u>	_____	_____	_____	_____	_____
10403	<u>04 RIT</u>	<u>R.I.T. Profile 4</u>	_____	_____	_____	_____	_____
10503	<u>05 RIT</u>	<u>R.I.T. Profile 5</u>	_____	_____	_____	_____	_____
10603	<u>06 RIT</u>	<u>R.I.T. Profile 6</u>	_____	_____	_____	_____	_____
10703	<u>07 RIT</u>	<u>R.I.T. Profile 7</u>	_____	_____	_____	_____	_____
10803	<u>08 RIT</u>	<u>R.I.T. Profile 8</u>	_____	_____	_____	_____	_____
10903	<u>09 RIT</u>	<u>R.I.T. Profile 9</u>	_____	_____	_____	_____	_____
11003	<u>10 RIT</u>	<u>R.I.T. Profile 10</u>	_____	_____	_____	_____	_____
11103	<u>11 RIT</u>	<u>R.I.T. Profile 11</u>	_____	_____	_____	_____	_____
11203	<u>12 RIT</u>	<u>R.I.T. Profile 12</u>	_____	_____	_____	_____	_____
11303	<u>13 RIT</u>	<u>R.I.T. Profile 13</u>	_____	_____	_____	_____	_____
10104	<u>01 EMS</u>	<u>Ems Profile 1</u>	_____	_____	_____	_____	_____
10204	<u>02 EMS</u>	<u>Ems Profile 2</u>	_____	_____	_____	_____	_____

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TGID	TG NAME	DESCRIPTION	HANG TIMER	CALL CRITERIA	PSAP CRITERIA	SET-UP TIMER	COVERAGE CLASS
10304	<u>03 EMS</u>	<u>Ems Profile 3</u>					
10404	<u>04 EMS</u>	<u>Ems Profile 4</u>					
10504	<u>05 EMS</u>	<u>Ems Profile 5</u>					
10604	<u>06 EMS</u>	<u>Ems Profile 6</u>					
10704	<u>07 EMS</u>	<u>Ems Profile 7</u>					
10804	<u>08 EMS</u>	<u>Ems Profile 8</u>					
10904	<u>09 EMS</u>	<u>Ems Profile 9</u>					
11004	<u>10 EMS</u>	<u>Ems Profile 10</u>					
11104	<u>11 EMS</u>	<u>Ems Profile 11</u>					
11204	<u>12 EMS</u>	<u>Ems Profile 12</u>					
11304	<u>13 EMS</u>	<u>Ems Profile 13</u>					
10105	<u>01 STAG</u>	<u>Staging Profile 1</u>					
10205	<u>02 STAG</u>	<u>Staging Profile 2</u>					
10305	<u>03 STAG</u>	<u>Staging Profile 3</u>					
10405	<u>04 STAG</u>	<u>Staging Profile 4</u>					
10505	<u>05 STAG</u>	<u>Staging Profile 5</u>					
10605	<u>06 STAG</u>	<u>Staging Profile 6</u>					
10705	<u>07 STAG</u>	<u>Staging Profile 7</u>					
10805	<u>08 STAG</u>	<u>Staging Profile 8</u>					
10905	<u>09 STAG</u>	<u>Staging Profile 9</u>					
11005	<u>10 STAG</u>	<u>Staging Profile 10</u>					
11105	<u>11 STAG</u>	<u>Staging Profile 11</u>					
11205	<u>12 STAG</u>	<u>Staging Profile 12</u>					
11305	<u>13 STAG</u>	<u>Staging Profile 13</u>					
10106	<u>01 RHAB</u>	<u>Rehab Profile 1</u>					
10206	<u>02 RHAB</u>	<u>Rehab Profile 2</u>					
10306	<u>03 RHAB</u>	<u>Rehab Profile 3</u>					
10406	<u>04 RHAB</u>	<u>Rehab Profile 4</u>					
10506	<u>05 RHAB</u>	<u>Rehab Profile 5</u>					
10606	<u>06 RHAB</u>	<u>Rehab Profile 6</u>					

TG Property

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TGID	TG NAME	DESCRIPTION	HANG TIMER	CALL CRITERIA	PSAP CRITERIA	SET-UP TIMER	COVERAGE CLASS
10706	<u>07 RHAB</u>	<u>Rehab Profile 7</u>					
10806	<u>08 RHAB</u>	<u>Rehab Profile 8</u>					
10906	<u>09 RHAB</u>	<u>Rehab Profile 9</u>					
11006	<u>10 RHAB</u>	<u>Rehab Profile 10</u>					
11106	<u>11 RHAB</u>	<u>Rehab Profile 11</u>					
11206	<u>12 RHAB</u>	<u>Rehab Profile 12</u>					
11306	<u>13 RHAB</u>	<u>Rehab Profile 13</u>					
10107	<u>01 WATR</u>	<u>Water Profile 1</u>					
10207	<u>02 WATR</u>	<u>Water Profile 2</u>					
10307	<u>03 WATR</u>	<u>Water Profile 3</u>					
10407	<u>04 WATR</u>	<u>Water Profile 4</u>					
10507	<u>05 WATR</u>	<u>Water Profile 5</u>					
10607	<u>06 WATR</u>	<u>Water Profile 6</u>					
10707	<u>07 WATR</u>	<u>Water Profile 7</u>					
10807	<u>08 WATR</u>	<u>Water Profile 8</u>					
10907	<u>09 WATR</u>	<u>Water Profile 9</u>					
11007	<u>10 WATR</u>	<u>Water Profile 10</u>					
11107	<u>11 WATR</u>	<u>Water Profile 11</u>					
11207	<u>12 WATR</u>	<u>Water Profile 12</u>					
11307	<u>13 WATR</u>	<u>Water Profile 13</u>					
10108	<u>01 TAC8</u>	<u>Tactical Profile 1</u>					
10208	<u>02 TAC8</u>	<u>Tactical Profile 2</u>					
10308	<u>03 TAC8</u>	<u>Tactical Profile 3</u>					
10408	<u>04 TAC8</u>	<u>Tactical Profile 4</u>					
10508	<u>05 TAC8</u>	<u>Tactical Profile 5</u>					
10608	<u>06 TAC8</u>	<u>Tactical Profile 6</u>					
10708	<u>07 TAC8</u>	<u>Tactical Profile 7</u>					
10808	<u>08 TAC8</u>	<u>Tactical Profile 8</u>					
10908	<u>09 TAC8</u>	<u>Tactical Profile 9</u>					
11008	<u>10 TAC8</u>	<u>Tactical Profile 10</u>					

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TGID	TG NAME	DESCRIPTION	HANG TIMER	CALL CRITERIA	PSAP CRITERIA	SET-UP TIMER	COVERAGE CLASS
11108	<u>11 TAC8</u>	<u>Tactical Profile 11</u>					
11208	<u>12 TAC8</u>	<u>Tactical Profile 12</u>					
11308	<u>13 TAC8</u>	<u>Tactical Profile 13</u>					
10109	<u>01 TAC9</u>	<u>Tactical Profile 1</u>					
10209	<u>02 TAC9</u>	<u>Tactical Profile 2</u>					
10309	<u>03 TAC9</u>	<u>Tactical Profile 3</u>					
10409	<u>04 TAC9</u>	<u>Tactical Profile 4</u>					
10509	<u>05 TAC9</u>	<u>Tactical Profile 5</u>					
10609	<u>06 TAC9</u>	<u>Tactical Profile 6</u>					
10709	<u>07 TAC9</u>	<u>Tactical Profile 7</u>					
10809	<u>08 TAC9</u>	<u>Tactical Profile 8</u>					
10909	<u>09 TAC9</u>	<u>Tactical Profile 9</u>					
11009	<u>10 TAC9</u>	<u>Tactical Profile 10</u>					
11109	<u>11 TAC9</u>	<u>Tactical Profile 11</u>					
11209	<u>12 TAC9</u>	<u>Tactical Profile 12</u>					
11309	<u>13 TAC9</u>	<u>Tactical Profile 13</u>					
10010	<u>DISP 10</u>	<u>Alternate Dispatch (TG 10)</u>					
10111	<u>01 TG11</u>	<u>EMS runs TG 11 Profile 1</u>					
10211	<u>02 TG11</u>	<u>EMS runs TG 11 Profile 2</u>					
10311	<u>03 TG11</u>	<u>EMS runs TG 11 Profile 3</u>					
10411	<u>04 TG11</u>	<u>EMS runs TG 11 Profile 4</u>					
10511	<u>05 TG11</u>	<u>EMS runs TG 11 Profile 5</u>					
10611	<u>06 TG11</u>	<u>EMS runs TG 11 Profile 6</u>					
10112	<u>01 TG12</u>	<u>EMS runs TG 12 Profile 1</u>					
10212	<u>02 TG12</u>	<u>EMS runs TG 12 Profile 2</u>					
10312	<u>03 TG12</u>	<u>EMS runs TG 12 Profile 3</u>					
10412	<u>04 TG12</u>	<u>EMS runs TG 12 Profile 4</u>					
10512	<u>05 TG12</u>	<u>EMS runs TG 12 Profile 5</u>					
10612	<u>06 TG12</u>	<u>EMS runs TG 12 Profile 6</u>					
10113	<u>01 TG13</u>	<u>EMS runs TG 13 Profile 1</u>					

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TGID	TG NAME	DESCRIPTION	HANG TIMER	CALL CRITERIA	PSAP CRITERIA	SET-UP TIMER	COVERAGE CLASS
10213	<u>02 TG13</u>	<u>EMS runs TG 13 Profile 2</u>					
10313	<u>03 TG13</u>	<u>EMS runs TG 13 Profile 3</u>					
10413	<u>04 TG13</u>	<u>EMS runs TG 13 Profile 4</u>					
10513	<u>05 TG13</u>	<u>EMS runs TG 13 Profile 5</u>					
10613	<u>06 TG13</u>	<u>EMS runs TG 13 Profile 6</u>					
10114	<u>01 TG14</u>	<u>EMS runs TG 14 Profile 1</u>					
10214	<u>02 TG14</u>	<u>EMS runs TG 14 Profile 2</u>					
10314	<u>03 TG14</u>	<u>EMS runs TG 14 Profile 3</u>					
10414	<u>04 TG14</u>	<u>EMS runs TG 14 Profile 4</u>					
10514	<u>05 TG14</u>	<u>EMS runs TG 14 Profile 5</u>					
10614	<u>06 TG14</u>	<u>EMS runs TG 14 Profile 6</u>					
10115	<u>01 TG15</u>	<u>EMS runs TG 15 Profile 1</u>					
10215	<u>02 TG15</u>	<u>EMS runs TG 15 Profile 2</u>					
10315	<u>03 TG15</u>	<u>EMS runs TG 15 Profile 3</u>					
10415	<u>04 TG15</u>	<u>EMS runs TG 15 Profile 4</u>					
10515	<u>05 TG15</u>	<u>EMS runs TG 15 Profile 5</u>					
10615	<u>06 TG15</u>	<u>EMS runs TG 15 Profile 6</u>					
10711	<u>CH 10</u>	<u>Marine Channel 10</u>					
10712	<u>CH 16</u>	<u>Marine Channel 16</u>					
10713	<u>CH 22</u>	<u>Marine Channel 22</u>					
10714	<u>CH 23</u>	<u>Marine Channel 23</u>					
10715	<u>CH 81</u>	<u>Marine Channel 81</u>					
10811	<u>HAZ 11</u>	<u>Haz-mat Team TG</u>					
10812	<u>HAZ 12</u>	<u>Haz-mat Team TG</u>					
10813	<u>HURT 13</u>	<u>H.U.R.T. TG</u>					
10814	<u>HURT 14</u>	<u>H.U.R.T. TG</u>					
10815	<u>HURT 15</u>	<u>H.U.R.T. TG</u>					
10911	<u>BIT 11</u>	<u>B.I.T. Training TG</u>					
10912	<u>BIT 12</u>	<u>B.I.T. Training TG</u>					
10913	<u>BIT 13</u>	<u>B.I.T. Training TG</u>					

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TGID	TG NAME	DESCRIPTION	HANG TIMER	CALL CRITERIA	PSAP CRITERIA	SET-UP TIMER	COVERAGE CLASS
10914	<u>BIT 14</u>	<u>B.I.T. Training TG</u>					
10915	<u>BIT 15</u>	<u>B.I.T. Training TG</u>					
11011	<u>BN1 11</u>	<u>Battalion 1 Training</u>					
11012	<u>BN1 12</u>	<u>Battalion 1 Training</u>					
11013	<u>BN2 13</u>	<u>Battalion 2 Training</u>					
11014	<u>BN2 14</u>	<u>Battalion 2 Training</u>					
11015	<u>OPEN 15</u>	<u>Battalion 1-2 Training</u>					
11111	<u>BN3 11</u>	<u>Battalion 3 Training</u>					
11112	<u>BN3 12</u>	<u>Battalion 3 Training</u>					
11113	<u>BN4 13</u>	<u>Battalion 4 Training</u>					
11114	<u>BN4 14</u>	<u>Battalion 4 Training</u>					
11115	<u>OPEN 15</u>	<u>Battalion 3-4 Training</u>					
11211	<u>BN5 11</u>	<u>Battalion 5 Training</u>					
11212	<u>BN5 12</u>	<u>Battalion 5 Training</u>					
11213	<u>EMS 13</u>	<u>EMS Training</u>					
11214	<u>EMS 14</u>	<u>EMS Training</u>					
11215	<u>OPEN 15</u>	<u>Battalion 5 / EMS Training</u>					
11311	<u>TRAIN11</u>	<u>Training TG Profile 13</u>					
11312	<u>TRAIN12</u>	<u>Training TG Profile 13</u>					
11313	<u>TRAIN13</u>	<u>Training TG Profile 13</u>					
11314	<u>TRAIN14</u>	<u>Training TG Profile 13</u>					
11315	<u>TRAIN15</u>	<u>Training TG Profile 13</u>					
11402	<u>P BASE</u>	<u>Paramedic Base</u>					
11403	<u>M_FREQ2</u>	<u>Paramedic Frequency 2</u>					
11404	<u>M_FREQ3</u>	<u>Paramedic Frequency 3</u>					
11405	<u>M_FREQ4</u>	<u>Paramedic Frequency 4</u>					
11406	<u>M_FREQ5</u>	<u>Paramedic Frequency 5</u>					
11407	<u>M_FREQ6</u>	<u>Paramedic Frequency 6</u>					
11408	<u>M_FREQ7</u>	<u>Paramedic Frequency 7</u>					
11409	<u>M_FREQ8</u>	<u>Paramedic Frequency 8</u>					

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TGID	TG NAME	DESCRIPTION	HANG TIMER	CALL CRITERIA	PSAP CRITERIA	SET-UP TIMER	COVERAGE CLASS
11411	<u>M_FREQ9</u>	<u>Paramedic Frequency 9</u>					
11412	<u>MC_EMS</u>	<u>Milwaukee County EMS</u>					
11413	<u>SHER_13</u>	<u>Sheriff Fregeuncy</u>					
11414	<u>SHER_14</u>	<u>Sheriff Fregeuncy</u>					
11415	<u>SHER_15</u>	<u>Sheriff Fregeuncy</u>					
11502	<u>IFERN</u>						
11503	<u>RED800</u>						
11504	<u>WHIT800</u>						
11505	<u>BLUE800</u>						
11506	<u>MPD_06</u>	<u>Milwaukee Police Dept.</u>					
11507	<u>MPD_07</u>	<u>Milwaukee Police Dept.</u>					
11508	<u>MPD_08</u>	<u>Milwaukee Police Dept.</u>					
11509	<u>MPD_09</u>	<u>Milwaukee Police Dept.</u>					
11511	<u>COMMON1</u>	<u>MABIS 107 Group</u>					
11512	<u>COMMON2</u>	<u>MABIS 107 Group</u>					
11513	<u>COMMON3</u>	<u>MABIS 107 Group</u>					
11514	<u>COMMON4</u>	<u>MABIS 107 Group</u>					
11515	<u>COMMON5</u>	<u>MABIS 107 Group</u>					
11602	<u>IFERN</u>						
11603	<u>REDVHF</u>						
11604	<u>WHITVHF</u>						
11605	<u>BLUEVHF</u>						
11606	<u>ICALL</u>						
11607	<u>ICALL_D</u>						
11608	<u>ITAC_1</u>						
11609	<u>ITAC_1D</u>						
11610	<u>ITAC_2</u>						
11611	<u>ITAC_2D</u>						
11612	<u>ITAC_3</u>						
11613	<u>ITAC_3D</u>						

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TGID	TG NAME	DESCRIPTION	HANG TIMER	CALL CRITERIA	PSAP CRITERIA	SET-UP TIMER	COVERAGE CLASS
11614	<u>ITAC 4</u>						
11615	<u>ITAC 4D</u>						

Profile 1 Firefighting

TGID	TG NAME	DESCRIPTION
10001	DISPATCH	<u>Dispatcher (joined) TG 1</u>
10102	01_FRGD	<u>Fire Ground Profile 1</u>
10103	01_RIT	<u>R.I.T. Profile 1</u>
10104	01_EMS	<u>Ems Profile 1</u>
10105	01_STAG	<u>Staging Profile 1</u>
10106	01_RHAB	<u>Rehab Profile 1</u>
10107	01_WATR	<u>Water Profile 1</u>
10108	01_TAC8	<u>Tactical Profile 1</u>
10109	01_TAC9	<u>Tactical Profile 1</u>
10010	DISP_10	<u>Alternate Dispatch (TG 10)</u>
10111	01_TG11	<u>EMS runs TG 11 Profile 1</u>
10112	01_TG12	<u>EMS runs TG 12 Profile 1</u>
10113	01_TG13	<u>EMS runs TG 13 Profile 1</u>
10114	01_TG14	<u>EMS runs TG 14 Profile 1</u>
10115	01_TG15	<u>EMS runs TG 15 Profile 1</u>
15000	D1SPACH	<u>Dispatcher (joined) TG 16</u>

Profile 2 Firefighting

TGID	TG NAME	DESCRIPTION
10001	DISPATCH	<u>Dispatcher (joined) TG 1</u>
10202	02_FRGD	<u>Fire Ground Profile 2</u>
10203	02_RIT	<u>R.I.T. Profile 2</u>
10204	02_EMS	<u>Ems Profile 2</u>
10205	02_STAG	<u>Staging Profile 2</u>
10206	02_RHAB	<u>Rehab Profile 2</u>
10207	02_WATR	<u>Water Profile 2</u>
10208	02_TAC8	<u>Tactical Profile 2</u>
10209	02_TAC9	<u>Tactical Profile 2</u>
10010	DISP_10	<u>Alternate Dispatch (TG 10)</u>
10211	02_TG11	<u>EMS runs TG 11 Profile 2</u>
10212	02_TG12	<u>EMS runs TG 12 Profile 2</u>
10213	02_TG13	<u>EMS runs TG 13 Profile 2</u>
10214	02_TG14	<u>EMS runs TG 14 Profile 2</u>
10215	02_TG15	<u>EMS runs TG 15 Profile 2</u>
15000	D1SPACH	<u>Dispatcher (joined) TG 16</u>

Profile 3 Firefighting

TGID	TG NAME	DESCRIPTION
10001	DISPATCH	<u>Dispatcher (joined) TG 1</u>
10302	03_FRGD	<u>Fire Ground Profile 3</u>
10303	03_RIT	<u>R.I.T. Profile 3</u>
10304	03_EMS	<u>Ems Profile 3</u>
10305	03_STAG	<u>Staging Profile 3</u>
10306	03_RHAB	<u>Rehab Profile 3</u>
10307	03_WATR	<u>Water Profile 3</u>
10308	03_TAC8	<u>Tactical Profile 3</u>
10309	03_TAC9	<u>Tactical Profile 3</u>
10010	DISP_10	<u>Alternate Dispatch (TG 10)</u>
10311	03_TG11	<u>EMS runs TG 11 Profile 3</u>
10312	03_TG12	<u>EMS runs TG 12 Profile 3</u>
10313	03_TG13	<u>EMS runs TG 13 Profile 3</u>
10314	03_TG14	<u>EMS runs TG 14 Profile 3</u>
10315	03_TG15	<u>EMS runs TG 15 Profile 3</u>
15000	D1SPACH	<u>Dispatcher (joined) TG 16</u>

Profile 4 Firefighting

TGID	TG NAME	DESCRIPTION
10001	DISPATCH	<u>Dispatcher (joined) TG 1</u>
10402	04_FRGD	<u>Fire Ground Profile 4</u>
10403	04_RIT	<u>R.I.T. Profile 4</u>
10404	04_EMS	<u>Ems Profile 4</u>
10405	04_STAG	<u>Staging Profile 4</u>
10406	04_RHAB	<u>Rehab Profile 4</u>
10407	04_WATR	<u>Water Profile 4</u>
10408	04_TAC8	<u>Tactical Profile 4</u>
10409	04_TAC9	<u>Tactical Profile 4</u>
10010	DISP_10	<u>Alternate Dispatch (TG 10)</u>
10411	04_TG11	<u>EMS runs TG 11 Profile 4</u>
10412	04_TG12	<u>EMS runs TG 12 Profile 4</u>
10413	04_TG13	<u>EMS runs TG 13 Profile 4</u>
10414	04_TG14	<u>EMS runs TG 14 Profile 4</u>
10415	04_TG15	<u>EMS runs TG 15 Profile 4</u>
15000	D1SPACH	<u>Dispatcher (joined) TG 16</u>

Profile 5
Firefighting

TGID	TG NAME	DESCRIPTION
10001	DISPACH	<u>Dispatcher (joined) TG 1</u>
10502	05_FRGD	<u>Fire Ground Profile 5</u>
10503	05_RIT	<u>R.I.T. Profile 5</u>
10504	05_EMS	<u>Ems Profile 5</u>
10505	05_STAG	<u>Staging Profile 5</u>
10506	05_RHAB	<u>Rehab Profile 5</u>
10507	05_WATR	<u>Water Profile 5</u>
10508	05_TAC8	<u>Tactical Profile 5</u>
10509	05_TAC9	<u>Tactical Profile 5</u>
10010	DISP_10	<u>Alternate Dispatch (TG 10)</u>
10511	05_TG11	<u>EMS runs TG 11 Profile 5</u>
10512	05_TG12	<u>EMS runs TG 12 Profile 5</u>
10513	05_TG13	<u>EMS runs TG 13 Profile 5</u>
10514	05_TG14	<u>EMS runs TG 14 Profile 5</u>
10515	05_TG15	<u>EMS runs TG 15 Profile 5</u>
15000	D1SPACH	<u>Dispatcher (joined) TG 16</u>

Profile 6
Firefighting

TGID	TG NAME	DESCRIPTION
10001	DISPACH	<u>Dispatcher (joined) TG 1</u>
10602	06_FRGD	<u>Fire Ground Profile 6</u>
10603	06_RIT	<u>R.I.T. Profile 6</u>
10604	06_EMS	<u>Ems Profile 6</u>
10605	06_STAG	<u>Staging Profile 6</u>
10606	06_RHAB	<u>Rehab Profile 6</u>
10607	06_WATR	<u>Water Profile 6</u>
10608	06_TAC8	<u>Tactical Profile 6</u>
10609	06_TAC9	<u>Tactical Profile 6</u>
10010	DISP_10	<u>Alternate Dispatch (TG 10)</u>
10611	06_TG11	<u>EMS runs TG 11 Profile 6</u>
10612	06_TG12	<u>EMS runs TG 12 Profile 6</u>
10613	06_TG13	<u>EMS runs TG 13 Profile 6</u>
10614	06_TG14	<u>EMS runs TG 14 Profile 6</u>
10615	06_TG15	<u>EMS runs TG 15 Profile 6</u>
15000	D1SPACH	<u>Dispatcher (joined) TG 16</u>

Profile 7
Water Rescue

TGID	TG NAME	DESCRIPTION
10001	DISPACH	<u>Dispatcher (joined) TG 1</u>
10702	07_FRGD	<u>Fire Ground Profile 7</u>
10703	07_RIT	<u>R.I.T. Profile 7</u>
10704	07_EMS	<u>Ems Profile 7</u>
10705	07_STAG	<u>Staging Profile 7</u>
10706	07_RHAB	<u>Rehab Profile 7</u>
10707	07_WATR	<u>Water Profile 7</u>
10708	07_TAC8	<u>Tactical Profile 7</u>
10709	07_TAC9	<u>Tactical Profile 7</u>
10010	DISP_10	<u>Alternate Dispatch (TG 10)</u>
10711	CH_10	<u>Marine Channel 10</u>
10712	CH_16	<u>Marine Channel 16</u>
10713	CH_22	<u>Marine Channel 22</u>
10714	CH_23	<u>Marine Channel 23</u>
10715	CH_81	<u>Marine Channel 81</u>
15000	D1SPACH	<u>Dispatcher (joined) TG 16</u>

Profile 8
Haz-mat/H.U.R.T.

TGID	TG NAME	DESCRIPTION
10001	DISPACH	<u>Dispatcher (joined) TG 1</u>
10802	08_FRGD	<u>Fire Ground Profile 8</u>
10803	08_RIT	<u>R.I.T. Profile 8</u>
10804	08_EMS	<u>Ems Profile 8</u>
10805	08_STAG	<u>Staging Profile 8</u>
10806	08_RHAB	<u>Rehab Profile 8</u>
10807	08_WATR	<u>Water Profile 8</u>
10808	08_TAC8	<u>Tactical Profile 8</u>
10809	08_TAC9	<u>Tactical Profile 8</u>
10010	DISP_10	<u>Alternate Dispatch (TG 10)</u>
10811	HAZ_11	<u>Haz-mat Team TG</u>
10812	HAZ_12	<u>Haz-mat Team TG</u>
10813	HURT 13	<u>H.U.R.T. TG</u>
10814	HURT 14	<u>H.U.R.T. TG</u>
10815	HURT 15	<u>H.U.R.T. TG</u>
15000	D1SPACH	<u>Dispatcher (joined) TG 16</u>

Profile 9

B.I.T. Training

TGID	TG NAME	DESCRIPTION
10001	DISPATCH	<u>Dispatcher (joined) TG 1</u>
10902	09_FRGD	<u>Fire Ground Profile 9</u>
10903	09_RIT	<u>R.I.T. Profile 9</u>
10904	09_EMS	<u>Ems Profile 9</u>
10905	09_STAG	<u>Staging Profile 9</u>
10906	09_RHAB	<u>Rehab Profile 9</u>
10907	09_WATR	<u>Water Profile 9</u>
10908	09_TAC8	<u>Tactical Profile 9</u>
10909	09_TAC9	<u>Tactical Profile 9</u>
10010	DISPATCH	<u>Alternate Dispatch (TG 10)</u>
10911	BIT_11	<u>B.I.T. Training TG</u>
10912	BIT_12	<u>B.I.T. Training TG</u>
10913	BIT_13	<u>B.I.T. Training TG</u>
10914	BIT_14	<u>B.I.T. Training TG</u>
10915	BIT_15	<u>B.I.T. Training TG</u>
15000	D1SPACH	<u>Dispatcher (joined) TG 16</u>

Profile 10

Battalion 1 and 2 Training

TGID	TG NAME	DESCRIPTION
10001	DISPATCH	<u>Dispatcher (joined) TG 1</u>
11002	10_FRGD	<u>Fire Ground Profile 10</u>
11003	10_RIT	<u>R.I.T. Profile 10</u>
11004	10_EMS	<u>Ems Profile 10</u>
11005	10_STAG	<u>Staging Profile 10</u>
11006	10_RHAB	<u>Rehab Profile 10</u>
11007	10_WATR	<u>Water Profile 10</u>
11008	10_TAC8	<u>Tactical Profile 10</u>
11009	10_TAC9	<u>Tactical Profile 10</u>
10010	DISPATCH	<u>Alternate Dispatch (TG 10)</u>
11011	BN1_11	<u>Battalion 1 Training</u>
11012	BN1_12	<u>Battalion 1 Training</u>
11013	BN2_13	<u>Battalion 2 Training</u>
11014	BN2_14	<u>Battalion 2 Training</u>
11015	OPEN_15	<u>Battalion 1-2 Training</u>
15000	D1SPACH	<u>Dispatcher (joined) TG 16</u>

Profile 11

Battalion 3 and 4 Training

TGID	TG NAME	DESCRIPTION
10001	DISPATCH	<u>Dispatcher (joined) TG 1</u>
11102	11_FRGD	<u>Fire Ground Profile 11</u>
11103	11_RIT	<u>R.I.T. Profile 11</u>
11104	11_EMS	<u>Ems Profile 11</u>
11105	11_STAG	<u>Staging Profile 11</u>
11106	11_RHAB	<u>Rehab Profile 11</u>
11107	11_WATR	<u>Water Profile 11</u>
11108	11_TAC8	<u>Tactical Profile 11</u>
11109	11_TAC9	<u>Tactical Profile 11</u>
10010	DISPATCH	<u>Alternate Dispatch (TG 10)</u>
11111	BN3_11	<u>Battalion 3 Training</u>
11112	BN3_12	<u>Battalion 3 Training</u>
11113	BN4_13	<u>Battalion 4 Training</u>
11114	BN4_14	<u>Battalion 4 Training</u>
11115	OPEN_15	<u>Battalion 3-4 Training</u>
15000	D1SPACH	<u>Dispatcher (joined) TG 16</u>

Profile 12

Battalion 5 and EMS Training

TGID	TG NAME	DESCRIPTION
10001	DISPATCH	<u>Dispatcher (joined) TG 1</u>
11202	12_FRGD	<u>Fire Ground Profile 12</u>
11203	12_RIT	<u>R.I.T. Profile 12</u>
11204	12_EMS	<u>Ems Profile 12</u>
11205	12_STAG	<u>Staging Profile 12</u>
11206	12_RHAB	<u>Rehab Profile 12</u>
11207	12_WATR	<u>Water Profile 12</u>
11208	12_TAC8	<u>Tactical Profile 12</u>
11209	12_TAC9	<u>Tactical Profile 12</u>
10010	DISPATCH	<u>Alternate Dispatch (TG 10)</u>
11211	BN5_11	<u>Battalion 5 Training</u>
11212	BN5_12	<u>Battalion 5 Training</u>
11213	EMS_13	<u>EMS Training</u>
11214	EMS_14	<u>EMS Training</u>
11215	OPEN_15	<u>Battalion 5 / EMS Training</u>
15000	D1SPACH	<u>Dispatcher (joined) TG 16</u>

Profile 13

Open Training

Profile 14

Paramedics

Profile 15

Un-named

Profile 16

Un-named

TGID	TG NAME	DESCRIPTION	TGID	TG NAME	DESCRIPTION	TGID	TG NAME	DESCRIPTION	TGID	TG NAME	DESCRIPTION
10001	DISPACH	<u>Dispatcher (joined) TG 1</u>	10001	DISPACH	<u>Dispatcher (joined) TG 1</u>	10001	DISPACH	<u>Dispatcher (joined) TG 1</u>	10001	DISPACH	<u>Dispatcher (joined) TG 1</u>
11302	13_FRGD	<u>Fire Ground Profile 13</u>	11402	P_BASE	<u>Paramedic Base</u>	11502	IFERN		11602	IFERN	
11303	13_RIT	<u>R.I.T. Profile 13</u>	11403	M_FREQ2	<u>Paramedic Frequency 2</u>	11503	RED800		11603	REDVHF	
11304	13_EMS	<u>Ems Profile 13</u>	11404	M_FREQ3	<u>Paramedic Frequency 3</u>	11504	WHIT800		11604	WHITVHF	
11305	13_STAG	<u>Staging Profile 13</u>	11405	M_FREQ4	<u>Paramedic Frequency 4</u>	11505	BLUE800		11605	BLUEVHF	
11306	13_RHAB	<u>Rehab Profile 13</u>	11406	M_FREQ5	<u>Paramedic Frequency 5</u>	11506	MPD_06	<u>Milwaukee Police Dept.</u>	11606	ICALL	
11307	13_WATR	<u>Water Profile 13</u>	11407	M_FREQ6	<u>Paramedic Frequency 6</u>	11507	MPD_07	<u>Milwaukee Police Dept.</u>	11607	ICALL_D	
11308	13_TAC8	<u>Tactical Profile 13</u>	11408	M_FREQ7	<u>Paramedic Frequency 7</u>	11508	MPD_08	<u>Milwaukee Police Dept.</u>	11608	ITAC_1	
11309	13_TAC9	<u>Tactical Profile 13</u>	11409	M_FREQ8	<u>Paramedic Frequency 8</u>	11509	MPD_09	<u>Milwaukee Police Dept.</u>	11609	ITAC_1D	
10010	DISP_10	<u>Alternate Dispatch (TG 10)</u>	10010	DISP_10	<u>Alternate Dispatch (TG 10)</u>	10010	DISP_10	<u>Alternate Dispatch (TG 10)</u>	11610	ITAC_2	
11311	TRAIN11	<u>Training TG Profile 13</u>	11411	M_FREQ9	<u>Paramedic Frequency 9</u>	11511	COMMON1	<u>MABIS 107 Group</u>	11611	ITAC_2D	
11312	TRAIN12	<u>Training TG Profile 13</u>	11412	MC_EMS	<u>Milwaukee County EMS</u>	11512	COMMON2	<u>MABIS 107 Group</u>	11612	ITAC_3	
11313	TRAIN13	<u>Training TG Profile 13</u>	11413	SHER_13	<u>Sheriff Fredeuncy</u>	11513	COMMON3	<u>MABIS 107 Group</u>	11613	ITAC_3D	
11314	TRAIN14	<u>Training TG Profile 13</u>	11414	SHER_14	<u>Sheriff Fredeuncy</u>	11514	COMMON4	<u>MABIS 107 Group</u>	11614	ITAC_4	
11315	TRAIN15	<u>Training TG Profile 13</u>	11415	SHER_15	<u>Sheriff Fredeuncy</u>	11515	COMMON5	<u>MABIS 107 Group</u>	11615	ITAC_4D	
15000	D1SPACH	<u>Dispatcher (joined) TG 16</u>	15000	D1SPACH	<u>Dispatcher (joined) TG 16</u>	15000	D1SPACH	<u>Dispatcher (joined) TG 16</u>	15000	D1SPACH	<u>Dispatcher (joined) TG 16</u>

	PROFILE 1	PROFILE 2	PROFILE 3	PROFILE 4	PROFILE 5	PROFILE 6	PROFILE 7	PROFILE 8	PROFILE 9	PROFILE 10
TG/CH 1	DISP 1	DISP 1	DISP 1	DISP 1	DISP 1	DISP 1	DISP 1	DISP 1	DISP 1	DISP 1
TG/CH 2	DISP 2	DISP 2	DISP 2	DISP 2	DISP 2	DISP 2	DISP 2	DISP 2	DISP 2	DISP 2
TG/CH 3	FG 3	FG 3	FG 3	FG 3	FG 3	FG 3	FG 3	FG 3	FG 3	FG 3
TG/CH 4	RIT 4	RIT 4	RIT 4	RIT 4	RIT 4	RIT 4	RIT 4	RIT 4	RIT 4	RIT 4
TG/CH 5	EMS 5	EMS 5	EMS 5	EMS 5	EMS 5	EMS 5	EMS 5	EMS 5	EMS 5	EMS 5
TG/CH 6	STAG 6	STAG 6	STAG 6	STAG 6	STAG 6	STAG 6	STAG 6	STAG 6	STAG 6	STAG 6
TG/CH 7	REHAB 7	REHAB 7	REHAB 7	REHAB 7	REHAB 7	REHAB 7	REHAB 7	REHAB 7	REHAB 7	REHAB 7
TG/CH 8	FG 8	FG 8	FG 8	FG 8	FG 8	FG 8	FG 8	FG 8	FG 8	FG 8
TG/CH 9	FG 9	FG 9	FG 9	FG 9	FG 9	FG 9	FG 9	FG 9	FG 9	FG 9
TG/CH 10	DISP 10	DISP 10	DISP 10	DISP 10	DISP 10	DISP 10	DISP 10	DISP 10	DISP 10	DISP 10
TG/CH 11	TG 11	TG 11	TG 11	TG 11	TG 11	TG 11	CH 10	Haz 11	EMS 11	Train11
TG/CH 12	TG 12	TG 12	TG 12	TG 12	TG 12	TG 12	CH 16	Haz 12	EMS 12	Train12
TG/CH 13	TG 13	TG 13	TG 13	TG 13	TG 13	TG 13	CH 21A	HURT 13	EMS 13	Train13
TG/CH 14	TG 14	TG 14	TG 14	TG 14	TG 14	TG 14	CH 22	HURT 14	EMS 14	Train14
TG/CH 15	TG 15	TG 15	TG 15	TG 15	TG 15	TG 15	CH 23 A	HURT 15	EMS 15	Train15
TG/CH 16	DISP 1	DISP 1	DISP 1	DISP 1	DISP 1	DISP 1	DISP 1	DISP 1	DISP 1	DISP 1

Dispatch will use CH 1 for events using two or less units. Channel 16 for emergency use by personnel only. Will be able to be heard City Wide. All profiles linked together.

Dispatch will use CH 2 for events using three or more units. Dispatch transmissions only will be heard City Wide. All profiles linked together.

Emergency medical responses will be dispatched on Profile 3, 4, 5 and 6. Remember CH 1 will be used to dispatch two or less units.

Dispatch will monitor and possibly record TG-3 but only units in the talk group will hear. All profiles remain separate.

City Wide Dispatch 3 (Channel 10) will be available for use in extreme cases (i.e. Ch 1 & 2 are overwhelmed) Will be able to be heard City Wide. All profiles linked together.

Dispatch will use CH 12 in Profile 15 for Mutual Box Alarm incidents 800 MHz.

Dispatch will use CH 12 in Profile 16 for Mutual Box Alarm incidents VHF MHz.

DO NOT PROGRAM PROFILE NUMBER AFTER THE TALK GROUP NUMBER - TOO CONFUSING FOR PERSONNEL

All programs are unique unto themselves with the exception of: (TG-1 and T-G 16: All 16 Profiles together)

All programs are unique unto themselves with the exception of: (TG- 2 and T-G 10: Profiles 1-13 together)

1/28/2009

PROFILE 11	PROFILE 12	PROFILE 13	PROFILE 14	PROFILE 15	PROFILE 16
DISP 1	DISP 1	DISP 1	DISP 1	DISP 1	DISP 1
DISP 2	DISP 2	DISP 2	P Base	COMMON1	ICALL
FG 3	FG 3	FG 3	M Freq 2	COMMON2	ICALL D
RIT 4	RIT 4	RIT 4	M Freq 3	COMMON3	ITAC 1
EMS 5	EMS 5	EMS 5	M Freq 4	COMMON4	ITAC 1D
STAG 6	STAG 6	STAG 6	M Freq 5	COMMON5	ITAC 2
REHAB 7	REHAB 7	REHAB 7	M Freq 6		ITAC 2D
FG 8	FG 8	REHAB 7	M Freq 7		ITAC 3
FG 9	FG 9	FG 8	M Freq 8	MPD 8	ITAC 3D
DISP 10	DISP 10	FG 9	M Freq 9	MPD 9	ITAC 4
Train11	DISP 10	DISP 10	MC EMS	MPD 10	ITAC 4D
Train12				IFERN	IFERN
Train13				RED800	REDVHF
Train14				WHIT800	WHITVHF
Train15				BLUE800	BLUEVHF
DISP 1	DISP 1	DISP 1	DISP 1	DISP 1	DISP 1
					TG/CH 1
					TG/CH 2
					TG/CH 3
					TG/CH 4
					TG/CH 5
					TG/CH 6
					TG/CH 7
					TG/CH 8
					TG/CH 9
					TG/CH 10
					TG/CH 11
					TG/CH 12
					TG/CH 13
					TG/CH 14
					TG/CH 15
					TG/CH 16

1/28/2009

HARRIS/FEDERAL TASK LIST



MONTH/ YEAR	NAME	ASSIGNMENT	DATE TASK ASSIGNED	COMMENTS
OCTOBER 2009	Paul Crowe	Completion of T's and C's of contract amendments to MPD.	10/20/09	
	Paul Crowe	Contact Maestro to dispatch test consoles.	10/20/09	
	Paul Crowe	Attempt to get Positron dispatch consoles up and running on Open Sky. Harris will provide qualified person on the ground at Radio Shop to continue work on Positron consoles to remove testing responsibilities from current Radio Shop staff.	10/20/09	11/20/09 - Two Maestro consoles have been installed. (Radio Shop & CDC) 11/10/09 - Positron was contacted regarding working consoles brought up on. Open Sky configuration for next test.
	Fred Fitte	Terry Self needs to come back to Milwaukee to assist in completion of fleet map. Completion date will be given of fleet mapping overview.	10/20/09	11/10/09 - Terry Self and Lindsay Bromage are working on fleet map. 11/20/09 - Detailed coverage map and references for Maestro console given to Chief of Staff Judy Pal.
NOVEMBER 2009	Fred Fitte	Agreed to gen an RMA for suspect card to be shipped back to Positron for testing.	11/10/09	Done
	Fred Fitte	Provide MPD with another spare RMA.	11/10/09	
	Fred Fitte & Paul Crowe	Have someone work with DPW when they come out to work on MFD's fleet map. (Assisted by MPD Mitch Ross & Ed Ciano)	11/10/09	11/10/09 - Assigned by Dir. Deborah Lewis. 11/21/0 - Lindsay Bromage has been working on fleet map for MFD.
	Debbie Wilichowski	Asked for references to check for working Maestros.	11/10/09	
	Paul Crowe	Follow up on Montreal patch writing to handle high volume of PTT's.	11/19/09	
	Paul Crowe	Find out whether Positron has agreed to check on a way to indicate a restricted channel on console screen.	11/19/09	
	Gary Kleiman	Provide summary of problems reported on portable Radio Trouble forms for MPD to share with end users.	11/19/09	11/19/09 - Assigned by Paul Crowe. 11/22/2009 - Written reports not yet received - Fred will follow up
DECEMBER 2009	Debbie Wilichowski	Review proposal for Two Site Expansion.	11/19/09	Task for everyone involved; need to schedule discussion with Chief Payne (MFD).
	Paul Crowe	Check on changing site to IP connect base vs. T-1	11/19/09	
	Chris Snyder	Asked for beta version of new version of software to see if it will work with their face-masks (SCBA).	11/19/09	11/19/10 - Paul Crowe will see if he can get a demo version for MFD.
	Ben Ramsey & Gary Kleiman	Work on hardware problem (M830's) and resolve issue.	12/03/09	12/08/09 - Worked on M830's for DPW (software problem). New software and configurations turned over to Sara (Radio Shop) to be used on new mobiles.
	Jim Anderson	Contact Rhonda Kelsey regarding T's & C's.	12/03/09	
	Jim Anderson	Contact Rhonda Kelsey regarding contract extension.	12/03/09	
	Paul Crowe & Fred Fitte	Obtain pricing on BDA's for in-building coverage.	12/03/09	



MONTH/ YEAR	NAME	ASSIGNMENT	DATE TASK ASSIGNED	COMMENTS
JANUARY	*Informal Task	MPD requests a minimum of 7 consoles for the 7-day burn-in to cover all 7 Districts.	1/05/10	Scheduled with next 7-day test.
	Fred Fitte & Positron	Requested explanation of December 15, 2009 tests.	1/05/10	Requested by Federal Engineering.
	Sara	Adjust some settings (volume, etc.) on M-803 mobiles being prepared for DPW installations.	1/05/10	Requested by David Go.
	David Go	Add DVU ties to MFD (-6) and DPW.	1/05/10	
	Positron	Agreed to convert all 7 active consoles to Open Sky during next 7-day burn-in.	1/12/10	
	Fred Fitte	Discuss user access to engineering screens with Paul Crowe.	1/12/10	Tom Fisteral agreed that the Engineering Screen will be provided. Staff will be trained to install this on the radios.
	Paul Crowe	Working towards a final report on outage - 1/09/10.	1/19/10	Done
	Paul Crowe	Report of PA failures on portables.	1/19/10	Several per week are failing.
	Terry Shelf & Lindsay Bromage	Go over everything on the fleet map and as MFD comes in, go over the same thing with them.	1/19/10	

****ASSIGNMENTS BELOW WERE GIVEN TO HARRIS FROM FEDERAL ENGINEERING****

ITEM	DELIVER TO FE	COMMENTS
All customer call records logged as "CR's" from the beginning of the project and the action taken to resolve the issue or the actions being taken to resolve the issue and by what date the issue will be resolved.	1/20/10	
Change control Processes and documentation.	TBD	
Purchasing history, including change orders with reasons and authorizations for each change over.	1/20/10	
Detailed project plan identifying dates for completion.	1/20/10	
Implementation history a. Milestone sign-offs	1/15/10	
Propagation studies with detailed parameters a. Mobile coverage b. Portable coverage on-street c. Portable Coverage in-building	1/22/10	
Coverage Test plan and results for on-street and in-building testing a. Signal strength b. DAQ c. BER	1/22/10	
Records of equipment returned for repairs, reason for the return, and action taken to repair.	1/22/10	



HARRIS/FEDERAL TASK LIST



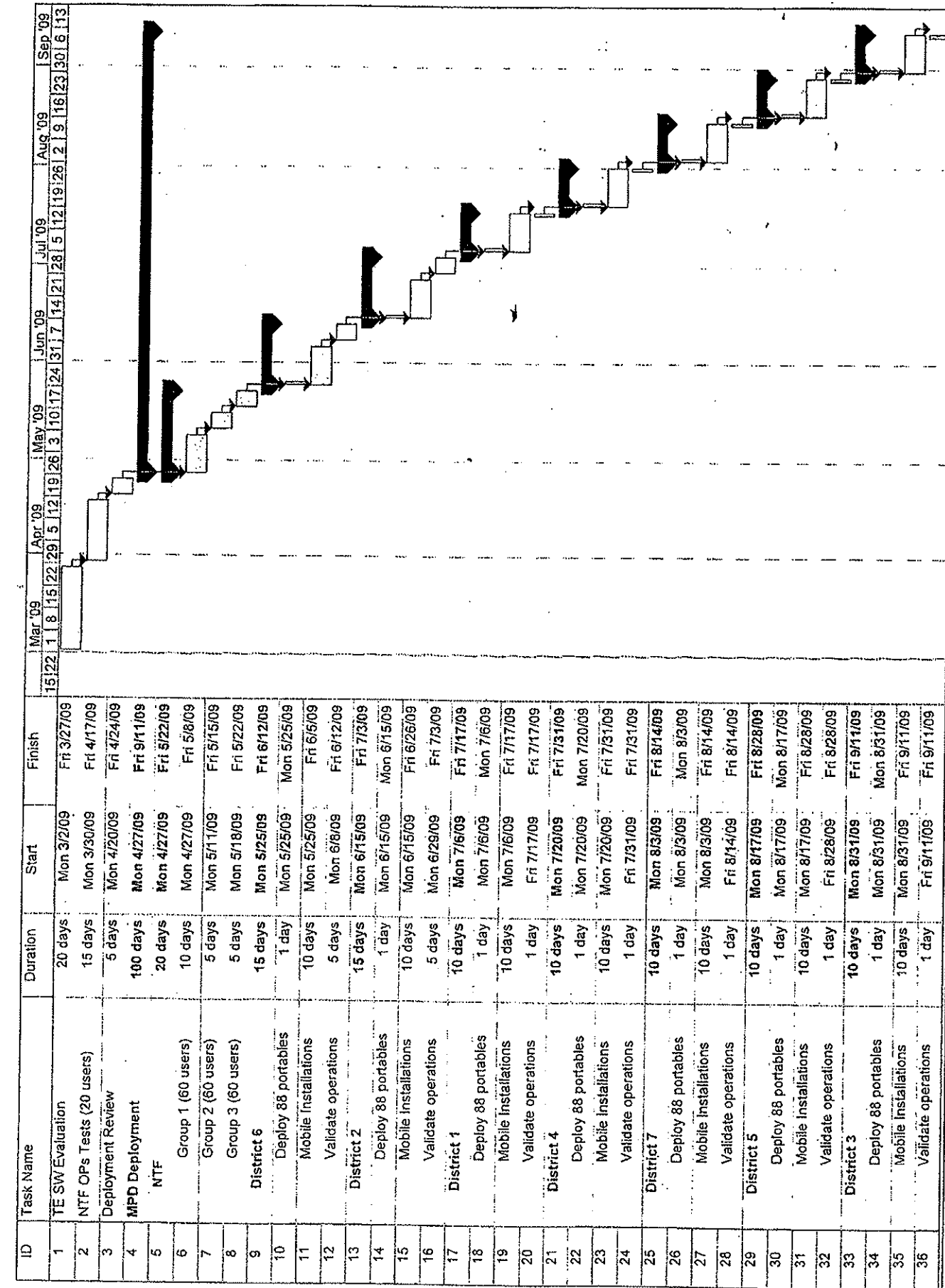
ITEM	DELIVER TO FE	COMMENTS
Records of equipment repaired or modified in the field.	1/22/10	
Records of software patches or updates that have occurred since the equipment was originally installed.	1/22/10	
Console Acceptance Test Plans and acceptance test results.	Console ATP by 1/20/10 for review; results after testing is complete	
Documentation processes and records, including as-built drawings with interconnection detail.	1/20/10	
Customer interface and escalation processes.	1/20/10	
Quality Assurance/Control processes and documentation.	Please clarify this request	
Records of software regression testing.	TBD	
Records indicating stability of hardware and software.	TBD	
Detailed warranty information with start and end dates of coverage for all equipment procured as part of this project.	1/22/10	
Please provide a detailed action plan with dates and milestones showing how Harris will fulfill its contractual obligations with the City of Milwaukee.	1/20/10	
During FE's visit to the City of Milwaukee radio repair shop located on Viet Street on December 15, 2009, Ben Ramsey of Harris Corporation, Roy Aoun of Positron, and John Tramburg of General Communications were observed on-site. The Harris Program Manager, Fred Fitte, indicated they were troubleshooting the console system. Please provide all troubleshooting documents used, details as to all tests conducted and detailed test data as a result of these individuals' efforts in its original format as well as a format that is easily understood and reviewable. This information was originally requested during the City's project status meeting held December 15, 2009. The Harris Program Manager, Fred Fitte, said he would provide the information late Wednesday, December 16, 2009. This information has not been received as of the date of this letter.	1/20/10	
During the City's weekly OpenSky project status meeting held on December 15, 2009, recent console testing was discussed. We understand that over the past two months, no less than five tests have taken place with the ORBACOM T5 console system. It is also our understanding that none of these tests have passes. Please outline the test procedure, the metrics used to establish pass or fail criteria for the console test and the detailed test measurements and test results for our review.	1/20/10	
During the City's weekly OpenSky project status meeting held on December 15, 2009, a discussion took place between Harris and the City of Milwaukee regarding a recent test of the console UCC cards that was interrupted by Harris due to unexpected time delays. Harris states the test did not fail. Please provide written answers to the following questions: a. What is the function of the UCC cards? b. How will the UCC cards resolve the console issues? c. What is meant by time delays as related to the interruption of the test in question? d. Why does Harris indicate this test was not a failure if was indeed interrupted by Harris?	1/15/10	



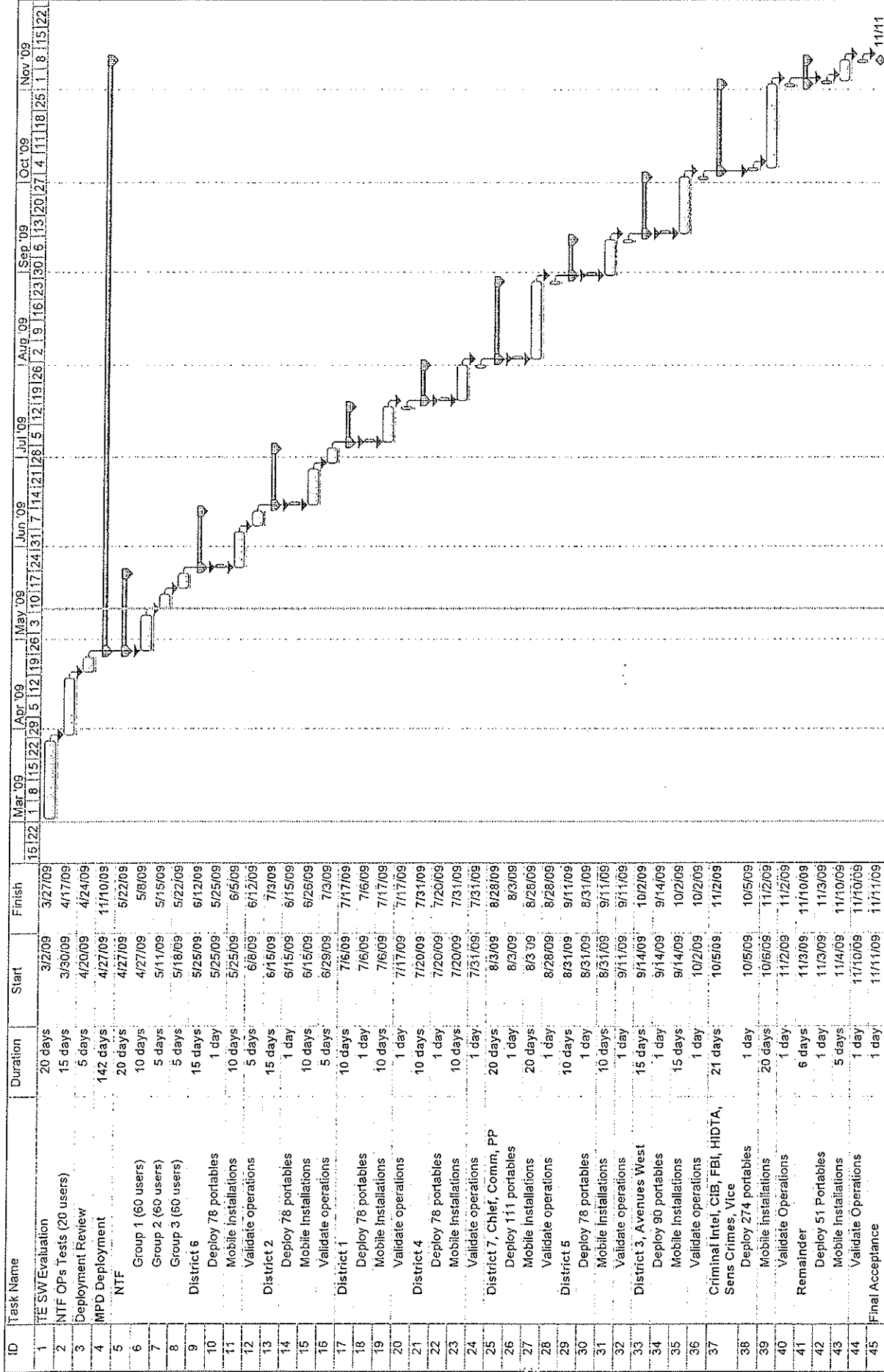
HARRIS/FEDERAL TASK LIST



ITEM	DELIVER TO FE	COMMENTS
<p>During the City's weekly project status meeting on December 15, 2009, Harris requested the City disconnect the analog PD users from the system as soon as possible. Please provide written answers to the following questions:</p> <ul style="list-style-type: none">a. Why is this urgent?b. What impact will this have on the implementation?c. What benefit will be realized by this action?d. How will the operation of the remaining analog Fire and DPW radios impact the system?	1/20/10	
<p>During the FE review of project documentation, the original design shows there were two T5 ORBACOM Central Processor Package locations. The locations specified are the District 3 station and the radio shop at Villet Street. Please provide written answers to the following questions:</p> <ul style="list-style-type: none">a. Why has the T5 Cabinet at the District 3 station essentially been stripped of all interface cards?b. Why has the ORBA-Net Functionality not been installed?c. How is redundancy achieved without two operational T5 locations connected via ORBA-Net?	1/22/10	
<p>Please explain, in writing, the purpose of the multiple control stations in a rack near the ORBACOM T5 cabinet at District 3 since they do not appear to be connected or in service?</p>	1/15/10	
<p>An email originally sent to Sara Gunderson of the City of Milwaukee from the Harris Corporation Technical Assistance Center (TAC) related to the closing of CR 108138 includes the following:</p> <p>"The Harris Corporation Technical Assistance Center (TAC) is currently undergoing an effort to reduce number of aging and inactive customer calls which are logged as "CR's". As part of this effort we will be closing all CR's that have been inactive for longer than 180 days. There are a number of reasons why a CR can stay open for an extended period, more often than not, they are already resolved or no longer a customer priority."</p> <p>This is unacceptable. How does Harris intend to track unresolved items older than 180 days for the City of Milwaukee?</p>	1/15/10	
<p>A proposal for Maestro Dispatch Consoles was presented to the City of Milwaukee PD on December 2, 2009. Please provide a detailed explanation regarding the origination of this proposal and the expected outcome.</p>	1/22/10	
<p>Harris provided a proposal in November 2009 to the City of Milwaukee for two additional RF sites. Please provide a detailed explanation regarding the origination of this proposal and the expected outcome.</p>	1/20/10	



11/30/09



PAYNE, MICHAEL

From: Fitte, Frederick E [frederick.fitte@tycoelectronics.com]
Sent: Wednesday, June 24, 2009 9:23 PM
To: PAYNE, MICHAEL
Cc: Crowe, Paul
Subject: Summary of our meeting today - 6-24-09

Chief Payne,

Thanks for taking the time to meet with me this afternoon. I am glad we got a chance to meet and I look forward to working with you. The following items are what I took away from our meeting. Please let me know if there is anything I may have missed.

1. Will the Fire Department be getting the ESD fix on portables? If so when and how long will it take? (Time Line)
2. Please provide an update on the portable low volume issue. Is there to be a software fix and if so, when?
3. Please explain the F1 , F2 bridge between dispatch channels. Will Open Sky be able to replicate the current F1 / F2 operation?
4. VTACS- MFD would like a VTAC planning session. MFD has questions regarding operation of VTACs under various operational situations.
5. MFD would like to engage in Fleet map planning sessions that will include VTAC operation.
6. Could Harris provide other municipalities who are satisfied Open Sky users?

Hopefully I captured a summary of our conversation. Please let me know if there are any corrections or additions.

Best regards,

Fred

Frederick E. Fitte

Sr. Program Manager
Harris Corporation, RF Communications
221 Jefferson Ridge Parkway
Lynchburg, VA 24501
T: +1-518-421-8837

E: ffitte@harris.com

3/8/2010

PAYNE, MICHAEL

From: Crowe, Paul [crowep@tycoelectronics.com]
Sent: Friday, July 24, 2009 2:42 PM
To: JONES, MICHAEL; Wenzel, David R - OJA
Cc: Young, Dirk; Engle, Greg - OJA; Fitte, Frederick E; PAYNE, MICHAEL; SNYDER, CHRISTOPHER; Holton, Doug; DeWitt-Rickards, Tom; Fiesthumel, Tom
Subject: RE: Weekly Update

Chief Jones,

The upgraded software is ready to demonstrate for you. Our team is available to work with you the week of August 3rd, preferably that Wednesday, the 5th. We will work with your staff at the Academy to test the software and discuss how our radios will be used within your Operations. We will then prepare the final software for your August rollout. Please let us know if your team is available that day or suggest an alternate.

The upgraded radios are in factory assembly today, and we will ship them to Milwaukee in early August in preparation for your rollout.

In regard to the console software discussed below, the upgrade is scheduled for the week of August 3rd. Because of wiring changes it will require up to two weeks to complete. As David mentioned below, this upgrade will allow full digital dispatch and eliminate the need for the patch to the conventional system.

If you have questions, please don't hesitate to call.

Best regards,
 Paul Crowe

From: JONES, MICHAEL [mailto:MLJONES@milwaukee.gov]
Sent: Thursday, July 16, 2009 11:40 AM
To: Crowe, Paul; Wenzel, David R - OJA
Cc: Young, Dirk; Engle, Greg - OJA; Fitte, Frederick E; PAYNE, MICHAEL; SNYDER, CHRISTOPHER; Holton, Doug; DeWitt-Rickards, Tom; Fiesthumel, Tom
Subject: RE: Weekly Update

Paul,

The portable radios are not ready to deploy at this time. The agreement from our last meeting (May 6, 2009 1300 hour – Bureau of Instruction and Training) is the following:

1. Harris Corporation would provide the upgraded software for the portable radios without microphones that would provide the same volume as radios with microphones. All parties involved in the meeting agreed the volume of portables without the microphones lacked the needed volume to operate efficiently at an emergency incident with moderate sound levels.
2. Upgraded beta software would be available for testing mid June 2009. This would allow time for testing and with MFD personnel and Harris technical staff.

This timeline has not been met nor has the software been delivered to the Milwaukee Fire Department. In addition the Milwaukee Police Department radio shop states the following concerning the software needed to connect the analog to digital converters has failed on several attempts. This has affected their communication abilities and will also affect ours. I emailed David Go, Electronic Technician Supervisor Communication Systems Section Milwaukee Police Department and asked him the following question concerning the software upgrade:

From: JONES, MICHAEL

Sent: Sat 7/11/2009 1:11 PM

To: Go, David

Cc: Williams, Andra; PAYNE, MICHAEL; SNYDER, CHRISTOPHER; HOLTON, DANIEL; Holton, Doug

Subject: RE: IPC 6.3 Upgrade

David,

1. *Has the inability to install the new software version 6.3 hampered your progress with portable and mobile installation?*
2. *Has this hampered your ability to connect your dispatch consoles and talk directly to the OpenSky talk groups with the MPD?*
3. *What is the software upgrade in relationship to Macom? (Is this their software?)*

Chief Jones,

1. *Has the inability to install the new software version 6.3 hampered your progress with portable and mobile installation?*
 - A. *It has not hampered our deployment of our mobiles and portables as of yet, but if we do not resolve the upgrade issue with the IPC dispatch consoles, we will not be able to disconnect the analog to digital converters (the device responsible for the majority of our audio complaints).*
2. *Has this hampered your ability to connect your dispatch consoles and talk directly to the OpenSky talk groups with the MPD?*
 - A. *We are not yet able to talk directly with OpenSky because the UCC cards (the cards that talk to Opensky directly) are not stable and we are also not able to log audio of any talk group that is not presently connected to an analog channel.*
3. *What is the software upgrade in relationship to Macom? (Is this their software?)*
 - A. *The software is not Macom's, but Macom has contracted IPC to provide MPD and MFD with a working console that would meet our requirements to talk directly to their OpenSky system and log the talk groups via an IP logger.*

David Go

3/8/2010

Electronic Technician Supervisor
Communication Systems Section
Milwaukee Police Department
414-935-7475
dsgo@milwaukee.gov

Paul, there's no misunderstanding on our part as to the timeline or expected performance of equipment. To date, not one MFD M/A-COM radio functions in any operational capacity for operational use.

Regards,

Michael L. Jones

Acting Assistant Chief
Milwaukee Fire Department
Bureau of Instruction and Training
6680 N. Teutonia Ave.
Milwaukee, WI. 53209
414-286-8971 (office)
414-397-9530 (cell)
mjljones@milwaukee.gov

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Sent: Wednesday, July 15, 2009 9:23 AM
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Cc: Young, Dirk; JONES, MICHAEL; Engle, Greg - OJA; Fitte, Frederick E; PAYNE, MICHAEL; SNYDER, CHRISTOPHER; Holton, Doug; DeWitt-Rickards, Tom; Fiesthumel, Tom
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Mr. Wenzel,

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The timeline we've agreed to is to have the updated software ready for the MFD deployment in August. Mobile radios (those installed in Fire vehicles) are in Milwaukee's inventory and will be installed by the City's radio shop. The schedule for those installations should follow the MFD deployment plan.

Best regards,

Paul Crowe
Program Manager
Harris Corporation, RF Communications
T: +1-434-455-9356
C: +1-434-851-4408

3/8/2010

F: +1-434-455-6815
E: paul.crowe@harris.com
www.rfcomm.harris.com

From: Wenzel, David R - OJA [<mailto:david.wenzel@wisconsin.gov>]
Sent: Thursday, July 09, 2009 6:39 PM
To: Young, Dirk; JONES, MICHAEL; Engle, Greg - OJA
Cc: Crowe, Paul; Fitte, Frederick E; PAYNE, MICHAEL; SNYDER, CHRISTOPHER; Douglas A. Holton (doug.holton@milwaukee.gov); DeWitt-Rickards, Tom; Fiesthumel, Tom
Subject: RE: Weekly Update

DC Jones

Thank you for getting some clarification to the questions we discussed earlier this week. I had a meeting today with the rest of our field representatives and our supervisor Greg Engle. What we need is a guaranteed time frame on completion of this project or we may have to seek return of funds. This grant was just short of \$2 million and has been going on for over 2 years. I have an email stating all equipment would be installed, deployed and running by the end of May 2007. This can not continue to be dragged out any longer.

Dirk if your the guy with the answers then I need a time frame and I don't mean months, please give me an honest realistic time when all radios will be installed, deployed and working for all agencies in the city.

Dave Wenzel
OJA - Homeland Security

From: Young, Dirk [dirk.young@tycoelectronics.com]
Sent: Thursday, July 09, 2009 4:10 PM
To: JONES, MICHAEL
Cc: Crowe, Paul; Fitte, Frederick E; PAYNE, MICHAEL; SNYDER, CHRISTOPHER; Wenzel, David R - OJA; Douglas A. Holton (doug.holton@milwaukee.gov); DeWitt-Rickards, Tom; Fiesthumel, Tom
Subject: RE: Weekly Update

Chief,

I have just gotten off a conference call regarding the software update and was getting ready to send all of you an update when this email landed in my inbox. My intent was to send an update as soon as that call was complete so that all of you are kept informed of the latest updates as soon as we have them.

For ease of reference I have add the answers next to the question below. As always feel free to reach out to Fred, Paul or myself as often as you need to.

Sincerely,

Dirk Young
Manager, National Public Safety Markets
Harris Corporation
RF Communications Division
Office - (251) 300-2911
Fax - (251) 650-1365
dirk.young@tycoelectronics.com
dirk.young@harris.com
<http://www.rfcomm.harris.com/publicsafety/>

3/8/2010

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From: JONES, MICHAEL [mailto:MLJONES@milwaukee.gov]

Sent: Thursday, July 09, 2009 4:24 PM

To: Young, Dirk

Cc: Crowe, Paul; Fitte, Frederick E; PAYNE, MICHAEL; SNYDER, CHRISTOPHER; david.wenzel@wisconsin.gov

Subject: RE: Weekly Update

Dirk,

We haven't heard anything since our last report.

- 1. What's going to happen concerning Electro Static Discharge?[Dirk Young] Chief to date we have had NO failure of an IS P7200. With that said you could deploy what you have in place today. However our intent is to replace them with radios that have the new modification that makes the units even more rugged.*
- 2. What's the timeline for replacement of radios? [Dirk Young] We are currently tracking the production of the new radios that will replace your current radios in time for your deployment in August. Again, while we prefer to have the radios that are currently at the radio shop unused, you could still deploy with them if you needed to do so.*
- 3. Where are we with the software upgrades that were suppose to be available mid July?[Dirk Young] The new Vocoder software is currently in our lab for testing. We will then do some field testing in Lynchburg with the update. Our plan, if you guys can accommodate us, is to be onsite and do field testing with you on the week of August 3rd. This again would still keep things in line for your August deployment.*

I received a call yesterday from David Wenzel from the Office of Justice Assistance concerning the status of the M/A-COM radios system. The information that I provided to him concerning our present status and unknown timelines was a major point of discussion. He expressed OJA may seek action for non-compliance at some point. I continue to express to all parties involved we need to move forward and complete this project.

I also expressed the need for additional VHF radios (25-30) if we don't bring the P7200's into operations within the next couple of months. I informed all parties of this concern and I don't expect it to go unanswered.[Dirk Young]

If for some unknown reason, and we do not expect any, the IS P7200's are not ready for deployment then Harris will work to provide the additional radios needed. Please understand that we will continue to be as cooperative with Milwaukee Fire Department as we have in the past and work hard to keep things moving forward.

Regards,

Michael L. Jones

Deputy Chief
Milwaukee Fire Department
Bureau of Instruction and Training
6680 N. Teutonia Ave.
Milwaukee, WI. 53209
414-286-8971 (office)
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mljones@milwaukee.gov

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From: Young, Dirk [<mailto:dirk.young@tycoelectronics.com>]
Sent: Friday, June 12, 2009 6:56 AM
To: Holton, Doug; JONES, MICHAEL
Cc: Reid, Jim; Axford, Mike; Wilson, Alan
Subject: Weekly Update

Chief,

There is nothing new to report this week but things are still on track for the July testing.

I am also keeping your guys who responded to the incident with the officer shooting in my thoughts and prayers. It is altogether a different situation and impact when we respond to help our brothers in uniform who desperately need our help.

I will be out of pocket next week but will catch up with you in Edmonton and give you an update there.

Sincerely,

Dirk Young
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Harris Corporation
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David Go

3/8/2010

Electronic Technician Supervisor
Communication Systems Section
Milwaukee Police Department
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dsgo@milwaukee.gov

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E: paul.crowe@harris.com
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Sent: Thursday, July 09, 2009 4:24 PM

To: Young, Dirk

Cc: Crowe, Paul; Fitte, Frederick E; PAYNE, MICHAEL; SNYDER, CHRISTOPHER; david.wenzel@wisconsin.gov

Subject: RE: Weekly Update

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There is nothing new to report this week but things are still on track for the July testing.

I am also keeping your guys who responded to the incident with the officer shooting in my thoughts and prayers. It is altogether a different situation and impact when we respond to help our brothers in uniform who desperately need our help.

I will be out of pocket next week but will catch up with you in Edmonton and give you and update there.

Sincerely,

Dirk Young

Manager, National Public Safety Markets
Harris Corporation
RF Communications Division
Office - (251) 300-2911
Fax - (251) 650-1365
dirk.young@tycoelectronics.com
dirk.young@harris.com
<http://www.rfcomm.harris.com/publicsafety/>

3/8/2010

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3/8/2010

County radio: Over, & out

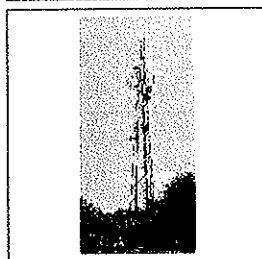
In market again, nine years after signing on for a new emergency system that didn't come together.

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By HELEN COLWELL ADAMS, Staff Writer

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The tower in the Williamson Park area of Lancaster County Central

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They call it "the wow factor."

More than a decade ago, when Lancaster County officials saw presentations of a new statewide emergency radio system in Harrisburg, they were bowled over by the technology.

But nine years after the county signed a contract to build its own OpenSky network, Lancaster County-Wide Communications is about to swap "wow" for workable.

By the end of August, the agency overseeing the radio project hopes to start the process of choosing contractors to replace OpenSky with something different.

Exactly what that might be is open for discussion. County emergency officials are looking at several options, including use of a communications band vacated by the much-ballyhooed switch from analog to digital television signals last month.

Mike Weaver, director of countywide communications, said that as work progressed — slowly — on OpenSky, project managers found problems with the way the system operated. Those concerns culminated in the county commissioners' March 2008 vote to terminate its contract with supplier M/A-Com.

For three police departments and one fire company, that means M/A-Com radios bought for the new system are obsolete already. Lancaster city's police bureau is trying to find another agency to buy its useless equipment.

County government already has spent more than \$13.8 million on OpenSky radio towers, a microwave system and other equipment. But county Commissioner Scott Martin said last week that it might be possible to finish the long-delayed radio project for less than the \$35 million originally budgeted in 1999.

"First and foremost, the system's got to work for the people using it," Martin said. "We can't have doubts in the most desperate times that it's going to work."

Form and function

When the county went shopping for a new emergency radio network in 1996 to replace an overburdened 1950s-era system, state government was in the market, too.

The state offered county governments the chance to piggyback on its contracts for OpenSky, an 800-megahertz network that used voice-over-Internet-protocol technology — the same kind that allows phone calls to be placed over an Internet connection.

M/A-Com then was part of a Pennsylvania firm, AMP Inc. (sold to Tyco Electronics in 1999). The state pitched OpenSky as a way to allow emergency agencies across Pennsylvania to talk to each other and to send voice and data transmissions on the same channels.

After Lancaster County signed its own deal in 2000, problems cropped up, including the bankruptcy of the contractor hired to build the towers. The number of towers was pared from 54 to 32, with coverage amplified by mobile "repeater" units stationed in emergency vehicles. Weaver said coverage was fine, but "functionality" problems turned up in tests of OpenSky equipment. Field radios required codes to be punched into a keypad, for instance.

"When the building's on fire or you're trying to get the bad guy, you just want to push the button and talk to who you need to talk to," Weaver said.

Testers also noticed that emergency vehicles couldn't park too closely to each other without causing interference, said Timothy Baldwin, deputy director of countywide communications. There were fears about whether digital radios might not work when firefighters entered modern buildings, with their own array of digital technology.

And the radios were expensive, especially portable units.

Plus, said Les Houck, chairman of the radio project committee, the technology originally presented a decade ago never quite came to pass as originally pitched.

"The emergency services said, 'This just isn't going to work,'" Weaver said.

Because OpenSky is software-based, it would have required frequent upgrades and maintenance contracts that county officials determined would run millions of dollars annually, Weaver said.

New York state, which signed a \$2 billion contract with M/A-Com in 2004 to build OpenSky there, subsequently canceled the deal. Cumberland County, which also piggybacked on Pennsylvania's contracts, has run into problems with loss of radio signals in some areas.

Pennsylvania still does not have OpenSky working as planned, 13 years after announcing the system. The state Office of Public Safety Radio Services reported in June that PA-STARNet, as it's called, has cost \$368 million so far.

Tyco sold M/A-Com to Harris Corp. in May.

Changing direction

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In March 2008, a new board of county commissioners pushed the reset button. Reversing two previous boards, Dennis Stuckey, Martin and Craig Lehman canceled the M/A-Com contract.

In the 10 years since the OpenSky proposal, new and attractive options have become available, Weaver said. One of those is "T-band," or television band, frequencies.

With television broadcasters having migrated from analog to digital signals, chunks of the airwaves have been freed up; the Federal Communications Commission said early in the digital transition process that it would consider allocating some of that spectrum to public safety uses.

The county has applied for FCC permission to use UHF channel 15, now held by a television station in Arlington, Va. Weaver said the application is being reviewed in the FCC's broadcast division, but there is no timetable for the agency to make its decision.

Weaver said Lebanon, Dauphin and York counties use UHF frequencies. The UHF signals get better penetration than 800 MHz, and while they're not as good as the VHF range, they don't get as much interference, so that part of the spectrum is "probably the best of all worlds for radio."

Because the FCC could deny the application, the county also is readying "Plan B." One option is using the 800 MHz frequencies that would have been part of the OpenSky network, but not with the Internet-type technology.

The project committee got five responses to a request in February for ideas on developing a radio system using the existing towers and microwave equipment. Now the committee hopes to issue a formal request for proposals from suppliers by the end of August.

OpenSky had been budgeted around \$35 million in 1999. Martin said it's possible that the county could bring in a new network for around \$27 million in current dollars. The \$13.8 million already spent won't be wasted: "It's not only a safety-conscious but a cost-conscious decision."

But saving money at the county level won't necessarily help four emergency agencies that already bought OpenSky equipment.

One of those was the Lancaster Bureau of Police. In 2005, when the county expected OpenSky to be finished soon, the city bought 107 M/A-Com portable radios and accessories with a \$297,000 grant from the U.S. Department of Justice, according to police Capt. Stephen A. Skiles.

"Those radios are currently in storage waiting to be sold, if we can find a buyer," he said.

Patrick Hopkins, the city's director of administrative services, said \$800,000 has been authorized in Lancaster's capital improvement budget for police and fire radios, but that doesn't mean the money is actually available. Pat Brogan, chief of staff to Mayor Rick Gray, said the city is hoping to find other funding sources, possibly from federal economic stimulus money.

The county plans to reuse some of its M/A-Com equipment to communicate with state agencies via PA-STARNet.

In the meantime, the county continues to rely on its old radio network. The biggest problem, Weaver said, is that it's overloaded and has no room for growth.

The new system will be built with the input of emergency agencies, county officials pledged. The network may not have all the bells and whistles of OpenSky, but it will be workable in the field. And the radios will be cheaper.

"They want something reliable and dependable," Weaver said.

The wrong way?

So did the county waste 10 years and \$13.8 million, especially considering some first responders were voicing concerns about OpenSky all along?

The project committee and the commissioners don't think so.

When OpenSky was first proposed, "everybody in the safety industry agreed it was a great concept," Les Houck said. The vision for a fully connected network of emergency agencies was exciting, Weaver added: "This was too good not to take advantage of."

"We were trying to be team players," Stuckey said. But when problems turned up, something had to be done.

"A lot of people never expected the county to take that kind of step," Weaver said. "It was a gutsy move to say, 'You know what? This just isn't working for us.'"

Stuckey said the most important factor in the radio project isn't money, but whether police officers and firefighters can talk when they most need to talk.

"We don't want one bit of doubt in their minds that if they need to call for help ... the signal's not going to go out and be received."

Helen Colwell Adams is a Sunday News staff writer. E-mail her at hcolwell@lnpnews.com.

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REQ #9634

HARRIS CORPORATION
RF COMMUNICATIONS

Harris
N910 Ridge Lane
Watertown WI

Company Name **Milwaukee Fire Department**
Communications Division
Contact **Deputy Chief Payne**
Email: mpayne@milwaukee.gov
Phone: **414-286-8971**
Fax:

Bid Date: **30-Aug-09**
QUOTE TYPE: **A**
Install by: **Harris**
Delivery: **8-12 weeks**
Ship Via: **Best Way**
This Quote Expires: **2-Sep-09**
Submitted by: **Jim Anderson**

Qty.	Model	Description	Unit Price	Ext'd Price
14	P7200	MAPT-Y7H2X: Portable,HiVis P7270,764-870MHz,NiMH,IS	10 \$ 3,968.26	\$55,555.64
		MAPT-PL3R: Feature,Max(1024+) System/Groups	10	
		MAPT-CA: Feature,P25 CAI Conventional Digital	10	
		MAPT-OS: Feature,OpenSky Trunking	10	
		MAPT-MR: Option,Immersible Radio Operation	10	
		MAPT-NC5X: Antenna,764-870MHz,1/4 Wave Whip	10	
		MAPT-PA7Y: Battery,NiMH 2400 mAh,FM/CSA<IS>	10	
		MAPT-NHC8Y: Case,Std,Leather,w/ Shoulder Strap Kit	10	
		MAPT-NAE9H: Speaker Mic,Coiled Cord,Rugged	10	
TOTAL:				\$55,555.64

QUOTE TERMS AND CONDITIONS:

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- Title will pass upon shipment, risk of loss will pass upon delivery to purchaser's facility.
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- These terms will prevail over any inconsistent or additional terms on any purchase order submitted by the purchaser.

REQ #9634 HARRIS CORPORATION RF COMMUNICATIONS

Harris
N910 Ridge Lane
Watertown WI

Company Name **Milwaukee Fire Department** Bid Date: **30-Aug-09**
Communications Division QUOTE TYPE: **A**
 Contact **Deputy Chief Payne** Install by: **Harris**
 Email: mpayne@milwaukee.gov Delivery: **8-12 weeks**
 Phone: **414-286-8971** Ship Via: **Best Way**
 Fax: This Quote Expires: **30-Aug-10**
 Submitted by: **Jim Anderson**

Qty.	Model	Description	Unit Price	Ext'd Price
17	M7200	Over-the-air Rekeying P25, Common Air Interface Noise-cancelling palm microphone head Microphone cable Speaker (indoor), 10W M7200, remote-mount with integrated GPS, 15W System Control unit kit (mic, spkr, cabling and mounting brackets) System Control unit kit (mic, spkr, cabling and mounting brackets) M7200 System Control Unit Antenna, 800 MHz, unity gain, roof mount GPS antenna Full-duplex mobile data capability RS-232 serial cable, 6 ft	\$5,040.01	\$85,680.15
TOTAL:				\$85,680.15

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**HARRIS CORPORATION
RF COMMUNICATIONS**

Harris
N910 Ridge Lane
Watertown WI
414-403-5932

Company Name **Milwaukee Fire Department**
Communications Division
Contact **Deputy Chief Payne**
Email: mpayne@milwaukee.gov
Phone: **414-286-8971**
Fax:

Bid Date: **30-Aug-09**
QUOTE TYPE: **A**
Install by: **Harris**
Delivery: **8-12 weeks**
Ship Via: **Best Way**
This Quote Expires: **30-Aug-10**
Submitted by: **Jim Anderson**

Qty.	Model	Description	Unit Price	Ext'd Price
10	P7200	MAPT-Y7H2X Portable,HiVis P7270,764-870MHz,NiMH,IS	10 \$ 3,968.26	\$39,682.00
		MAPT-PL3R System/Groups	10	
		MAPT-CA P25 Conventional	10	
		MAPT-OS Opensky	10	
		MAPT-MR Immersible	10	
		MAPT-NC5X Antenna,764-870MHz,1/4 Wave Whip	10	
		MAPT-PA7Y Battery,NiMH 2400 mAh,FM/CSA<IS>	10	
		MAPT-NHC9Y Case,Std,Leather,w/ Shoulder Strap Kit	10	
		MAPT-NAE9H Speaker Mic,Coiled Cord,Rugged	10	
TOTAL:				\$39,682.00

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**HARRIS CORPORATION
RF COMMUNICATIONS**

Harris
N910 Ridge Lane
Watertown WI
414-403-5832

Company Name **Milwaukee Fire Department
Communications Division**

Contact **Deputy Chief Payne**

Email: mpayne@milwaukee.gov

Phone: **414-286-8971**

Fax:

Bid Date: **30-Aug-09**

QUOTE TYPE: **A**

Install by: **Harris**

Delivery: **8-12 weeks**

Ship Via: **Best Way**

This Quote Expires: **30-Aug-10**

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		MAPT-NHC9Y Case,Std,Leather,w/ Shoulder Strap Kit	10	
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TOTAL: \$39,682.00

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Harris
N910 Ridge Lane
Watertown, WI

Company Name: **Milwaukee Fire Department** Bid Date: **30-Aug-09**
Communications Division QUOTE TYPE: **A**
 Contact: **Deputy Chief Payne** Install by: **Harris**
 Email: mpayne@milwaukee.gov Delivery: **8-12 weeks**
 Phone: **414-286-8971** Ship Via: **Best Way**
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Qty.	Model	Description	Unit Price	Ext'd Price
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TOTAL: \$85,680.15

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 Fax: This Quote Expires: **2-Sep-09**
 Submitted by: **Jim Anderson**

Qty.	Model	Description	Unit Price	Ext'd Price
14	P7200	MAPT-Y7H2X Portable, 10	\$ 3,968.26	\$55,555.64
		MAPT-PL3R Feature, 10		
		MAPT-CA Feature,P2 10		
		MAPT-OS Feature, 10		
		MAPT-MR Option,Ir 10		
		MAPT-NC5X Antenna 10		
		MAPT-PA7Y Battery, 10		
		MAPT-NHC9Y Case,Str 10		
		MAPT-NAE9H Speaker 10		
TOTAL:				\$55,555.64

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5. Prices quoted are valid for the duration as noted above.
6. Net 30 days after invoice
7. M/A-Com's standard equipment warranty (which will be furnished upon request) applies to all ordered equipment M/A Com DISCLAIMS ALL OTHER WARRANTIES WITH RESPECT TO THE ORDERED PRODUCTS, EXPRESS OR IMPLIED INCLUDING THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.
8. M/A-Com's TOTAL LIABILITY ARISING FROM THE ORDERED PRODUCTS WILL BE LIMITED TO THE PURCHASE PRICE OF THE PRODUCTS WITH RESPECT TO WHICH LOSSES OR DAMAGES ARE CLAIMED, IN NO EVENT WILL ERICSSON BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES.
9. These terms will prevail over any inconsistent or additional terms on any purchase order submitted by the purchaser.

HARRIS CORPORATION
RF COMMUNICATIONS

Harris
N910 Ridge Lane
Watertown WI

Company Name **Milwaukee Fire Department
Communications Division**
Contact **Deputy Chief Payne**
Email: mpayne@milwaukee.gov
Phone **414-286-8971**
Fax:

Bid Date: **30-Aug-09**
QUOTE TYPE: **A**
Install by: **Harris**
Delivery: **8-12 weeks**
Ship Via: **Best Way**
This Quote Expires: **2-Sep-09**
Submitted by: **Jim Anderson**

Qty.	Model	Description	Unit Price	Ext'd Price
14	P7200	MAPT-Y7H2X Portable, HiVis P7270, 764-870MHz, NiMH, IS	10 \$ 3,968.26	\$55,555.64
		MAPT-PL3R Feature, Max(1024+) System/Groups	10	
		MAPT-CA Feature, P25 CAI Conventional Digital	10	
		MAPT-OS Feature, OpenSky Trunking	10	
		MAPT-MR Option, Immersible Radio Operation	10	
		MAPT-NC5X Antenna, 764-870MHz, 1/4 Wave Whip	10	
		MAPT-PA7Y Battery, NiMH 2400 mAh, FM/CSA<IS>	10	
		MAPT-NHC9Y Case, Std, Leather, w/ Shoulder Strap Kit	10	
		MAPT-NAE9H Speaker Mic, Coiled Cord, Rugged	10	
TOTAL:				\$55,555.64

QUOTE TERMS AND CONDITIONS:

- Quotes are exclusive of all installation and programming charges unless expressly stated and all applicable taxes.
- M/A-COM will pay shipping costs.
- Title will pass upon shipment, risk of loss will pass upon delivery to purchaser's facility.
- Ordered equipment may be returned for a full refund, less a 20% restocking fee, if the equipment is returned unused and undamaged in its original packaging within six months after shipment.
- Prices quoted are valid for the duration as noted above.
- Net 30 days after invoice
- M/A-Com's standard equipment warranty (which will be furnished upon request) applies to all ordered equipment. M/A Com DISCLAIMS ALL OTHER WARRANTIES WITH RESPECT TO THE ORDERED PRODUCTS, EXPRESS OR IMPLIED INCLUDING THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.
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**CITY OF MILWAUKEE - DOA – PROCUREMENT SERVICES SECTION
REQUEST FOR EXCEPTION TO BIDDING / EBE PARTICIPATION ANALYSIS FORM**

PART A: User department to complete Part A. then contact the EBEP Office at Ext. 5553 to determine EBE participation requirements, and forward this form to the EBEP Office, Room 606 of City Hall..

Requester Name and Title: Deputy Chief Michael A. Payne

City Agency Name: Milwaukee Fire Department Date: September 2, 2009

Contact Person Phone: 286-8971 FAX: 286-5279 Email: mpayne@milwaukee.gov

Commodity or Service Dollar Value \$142,000.81 Requisition No. _____

Suggested EBE Vendor, if known _____

Brief description of item or service to be purchased, the purpose of the request, and the requested vendor name:

The items that will be purchased are 14 portable handheld radios and 17 mobile vehicle radios. The 14 portable radios will be used in the Incident Command vehicle for large emergency situations. The mobile radios will also be used to provide back-up to companies at large emergency scenes and also provide radios for MABAS calls in or out of the City of Milwaukee. The requested vendor name is the Harris Corporation formally the MACOM/Tyco

Time of Performance* _____

*If time of performance for the requested contract is to be retroactive to a date prior to this submission of request for approval, please indicate why services have already commenced.

PART B: If a change in EBE subcontractor is being requested, attach a new Form A and/or letter requesting the change. After EBE analysis and sign off, the EBEP Analyst will forward the form to Procurement Services Section.

EBE PROGRAM ANALYSIS

Emerging Business Enterprise percentage requirements _____% If none, please explain: _____

EBE Vendor Name(s): _____

Is there an EBE certified in this area? ☐ Yes ☐ No

Note: EBEP staff must sign on last page.

PART C: User department to check the appropriate box(es) and explain reasons for the ETB request below:

- ☐ Professional, artistic, scientific or creative services. RFP requested.
- ☐ Impossible or impracticable to develop bidding specifications. RFP requested.
- ☐ Experimental purpose. RFP requested.
- ☐ Experimental purpose - Can't be done by bid or RFP. Sole or single source requested. (Check appropriate box below)
 - ☐ **Sole Source**** (Check appropriate box and see note below**.)
 - ☐ No comparable competitive product or service available--there is only one supplier.
 - ☐ Patented product only available from the manufacturer.
 - ☐ Proprietary software.
 - ☐ Public utility service which has a monopoly.
 - ☐ Component or replacement part(s) available from only one source.

☐ Other: (Explain) _____

☒ **Single Source**** (Check appropriate box and see note below**.)

- ☐ Only local authorized/licensed distributor.
- ☐ Compatibility is the overriding consideration and the item is available from only one source.
- ☐ Used item that is immediately available, is not usually available, and is subject to prior sale.
- ☐ Product is needed for trial or testing.
- ☒ Additional needs discovered in the midst of a project—e.g., change orders.
- ☐ No other supplier can meet the required delivery date.
- ☐ No other supplier can make on-call repairs at a particular location.
- ☐ Vendor has specific insight from previous knowledge of service or commodity. *** See note below.
- ☐ Vendor has been specified by terms of grant (federal or state) or by City Resolution.
- ☐ Other: _____

Please explain reasons below for this request or provide in a separate document and attach to the form.

We are using these fund to complete the grant funding projects for Milwaukee Fire Department radios.

**If this is a Sole or Single Source Request, you must include the details of market research conducted (i.e., Request For Information) including number of vendors considered for this procurement and why they did not meet the needs of the department.

***If the requested vendor has specific insight from previous knowledge of the service or commodity being requested, you must state why a competitive process to determine if this remains the best firm qualified to perform this work should not be conducted. Additionally, a summary of how the previous contract was procured and the dollar value of the previous contract should also be included.

***** **Additional Fair Trade Note:** If this contract relates to the purchase of food or beverages, the contractor is urged to make Fair Trade products available in accordance with Common Council Resolution Number 070280 declaring the City of Milwaukee a Fair Trade City effective 7/18/07. *****

PART D: REQUIRED SIGNATURES

Department Head

Date

EBE Business Analyst

Date

Purchasing Agent

☐

Approved

☐

Denied

Date

**CITY OF MILWAUKEE - DOA – PROCUREMENT SERVICES SECTION
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City Agency Name: Milwaukee Fire Department Date: September 2, 2009

Contact Person Phone: 286-8971 FAX: 286-5270 Email: mpayne@milwaukee.gov

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PART D: REQUIRED SIGNATURES

Michael A. Payne
Department Head

8-2-09
Date

EBE Business Analyst

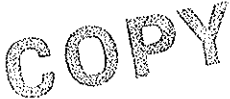
Date

Purchasing Agent ☐ Approved ☐ Denied

Date

Requisition

Ship To: FIRE-BUREAU OF INSTR/TRAIN 328-BIT
6680 N TEUTONIA AVE
MILWAUKEE WI 53209

Business Unit:	CIMIL	APPROVED
Req ID:	Date	Page
0000009634	09/03/2009	1
Requester		Currency
Michael Payne		USD
Requester Signature		

Line-Schd	Item	Description	Mfg ID	Quantity	UOM	Price	Extended Amt	Due Date
1- 1		RADIO, HAND HELD		14.0000	EA	3,968.26	55,555.64	

RADIOS, PORTABLE HAND HELD PER QUOTE ATTACHED DATED 08/30/2009 HARRIS CORP % JIM ANDERSON.

Line Total: 55,555.64

2- 1		RADIO, MOBILE		17.0000	EA	5,040.01	85,680.17	
------	--	---------------	--	---------	----	----------	-----------	--

RADIOS, MOBILE VEHICLE PER QUOTE ATTACHED DATED 08/30/2009 HARRIS CORP % JIM ANDERSON.

Line Total: 85,680.17

Total Requisition Amount: 141,235.81

EXCEPTION TO BID & quotes TO PURCHASING 09/04/2009
VENDOR: HARRIS CORP (formerly the MACOM/Tyco)

BILL - ADMIN (FR130050200)

Approval Signature	Approval Signature	Approval Signature
--------------------	--------------------	--------------------

**CITY OF MILWAUKEE - DOA - PROCUREMENT SERVICES SECTION
REQUEST FOR EXCEPTION TO BIDDING / EBE PARTICIPATION ANALYSIS FORM**

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Requester Name and Title: Deputy Chief Michael A. Payne

City Agency Name: Milwaukee Fire Department Date: September 2, 2009

Contact Person Phone: 286-8971 FAX: 286-5279 Email: mpayne@milwaukee.gov

Commodity or Service Dollar Value \$141,235.81 Requisition No. 9634

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EBE Vendor Name(s): _____

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- ☐ Patented product only available from the manufacturer.
- ☐ Proprietary software.
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City of Milwaukee, Wisconsin
Wireless Communications System
October 20, 2009

STATEMENT OF WORK

FOR A

TWO SITE EXPANSION

TO THE

***CITY OF MILWAUKEE WIRELESS
COMMUNICATIONS SYSTEM***

HARRIS



INTRODUCTION

The Harris OpenSky radio system has been constructed and the Milwaukee Police Department has been migrated to the new system. The original tower sites were chosen to optimally utilize the frequencies that were licensed to the City at that time. Based on user reports, additional tower sites are desired to improve the coverage in certain areas of the City. This Statement of Work (SOW) describes Harris' proposal to implement two additional sites at District 2 and District 7.

DESCRIPTION

Two additional sites are proposed for this SOW, to be installed on existing towers at District 2 and District 7. Harris will provide the necessary site equipment, antennas, and RF devices to provide a 2 channel, 8 talkpath site at each location. These sites were chosen because of their location and their existing infrastructure.

Harris General Responsibilities:

- Harris will provide all as-built drawings for the new system and system interfaces.
- Harris will provide a one-year written warranty on all parts, material, workmanship, and labor related to system.
- Harris will measure site grounding system to verify actual ground resistivity.

Harris Specific Site Responsibilities:

Site	Name	Site Specific Equipment/Effort
D2	District 2 245 W. Lincoln Av.	<ul style="list-style-type: none">• Furnish and install two OpenSky based stations into customer racks.• Furnish and install 4-channel transmit combiner.• Furnish and install 4-channel receiver multicoupler.• Furnish and install alarm concentrator.• Furnish and install antenna system and tower top amp.• Furnish and install one site access server with T1 output.
D7	District 7 3626 W. Fond du Lac Av.	<ul style="list-style-type: none">• Furnish and install two OpenSky based stations into customer racks.• Furnish and install 4-channel transmit combiner.• Furnish and install 4-channel receiver multicoupler.• Furnish and install alarm concentrator.• Furnish and install antenna system and tower top amp.♦ Furnish and install one site access server with T1 output.



City of Milwaukee Responsibilities:

Towers:

- All towers or antenna structures are provided by Milwaukee and will have space available at the desired location for Harris to hang the new antennas and feed line as required by the proposed system design.
- The towers or antenna structures will have adequate cable ladders and bridges.
- The towers will have the structural integrity to support the proposed antenna systems. The City will obtain the required structural analysis.

Equipment Rooms:

- All equipment rooms are provided by the MPD and will have adequate floor space to house additional equipment.
- All equipment rooms will have adequate climate control.
- The equipment rooms will have overhead cable trays or ductwork to allow for professional installation of all control and RF cables.
- The equipment rooms will have adequate cable entry ports with appropriate grounding plate for transmission and control line access.

Grounding:

- The site grounding system will measure 5ohms or less.
- The towers will be grounded as per industry standards.
- A halo ground with a single point ground will be provided inside of each equipment room.
- A copper grounding plate will be provided at the entry port of each equipment room.

Electrical Power and T1 Interface:

- The electrical feed at each equipment room will be sized to accommodate the power requirements of the Harris equipment.
- The City will provide all necessary equipment to allow for direct T1 interface from the Harris Site Access Servers to the City SONET system.

Miscellaneous:

- The City will file all needed FAA and FCC documents, as required, to obtain radio licenses. Harris will assist with this effort.





- The City will be responsible for all coordination and application fees associated with obtaining radio licenses.

INSTALLATION

Harris will install, implement, and provide warranty support for the additional sites with the support of General Communications, Inc., a Harris Authorized Service Center located in Milwaukee. Harris will provide Project Management and System Engineering services.

ACCEPTANCE TESTS

Harris will provide predicted coverage for each site, and will measure actual coverage via a drive test specific to the new two new sites. The test data will be collected using a calibrated multi-channel receiver.

Harris will provide and execute a functional acceptance test with the appropriate feature demonstrations specific to each site.

PROJECT SCHEDULE

Harris will provide and install the site equipment within 3 months of the approval of this SOW via amendment to the Contract, and subsequent administrative, legal, and engineering approval of the towers and equipment rooms. Operation will commence after the acceptance test and required license approvals.

PRICING

Price with the standard discount for Milwaukee is \$231,587. To work within the existing contracted amount, Harris proposes a sales price of \$160,000. This will use \$96,000 of unallocated ~~MED money and \$64,000~~ of estimated credit for unused MPD mobile installations. This will not increase the price of the current contract as amended.



P7200 System Model Portable Radio

Operating Fundamentals



HARRIS

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ECP-3125-M04 page 1

Analog vs. Digital

Analog Voice

Sent in natural state
Further away = quality will decrease and noise will increase
Easily monitored by most scanners

Digital Voice

Voice converted to data bits
– 1's and 0's
– Packets or bytes
When distance threshold is met, signal will diminish rapidly, but remains good until that distance is reached

Analog



Digital



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ECP-3125-M04 page 2

What is Trunking ?

Trunking means that several connections in a network may be established simultaneously

Many users share a few connections

Connections are established only when users request them

RF resources (channels) are assigned only as needed

Setup of connections proceeds automatically using the RF channels available at the time in question

If the number of connections is increased, the capacity of the network is increased more than proportionally

Users no longer select an RF channel – they now select a Talk Group, which is assigned an RF resource only when needed

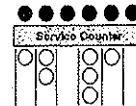
HARRIS

assuredcommunications

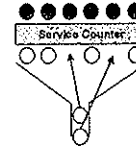
ECP-3125-M04 page 3

Conventional vs. Trunked

Conventional



Trunked



● Service Employee

○ Customer

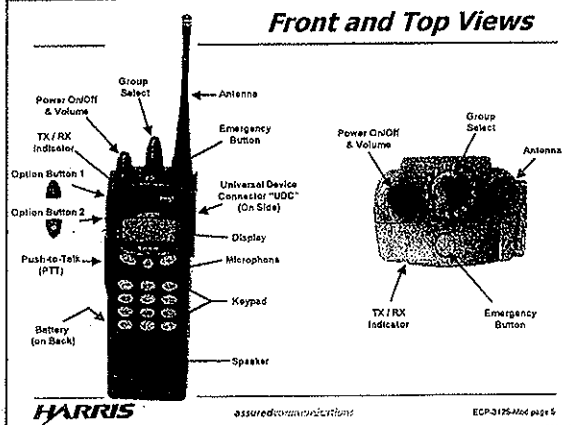
Computerized Assignment of Channels

HARRIS

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ECP-3125-M04 page 4

Front and Top Views

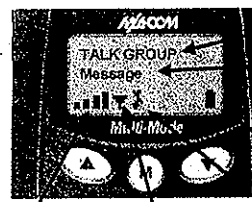


HARRIS

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ECP-3125-M04 page 5

Portable Radio Display Indicators



Selected Talk Group Name

Other text messages, such as login prompt, caller ID (No calls), emergency status, and radio status messages are on Line 2

Battery Status Indicator icon (example: fully charged)

Signal Strength Indicator Icon (up to 4 bars)

Network Connection Indicator Icon (the antenna icon **must** be present before the radio will transmit calls or receive audio on the network)

Stealth Mode ON Indicator icon (not visible when Stealth Mode is off)

HARRIS

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ECP-3125-M04 page 6

Audible Tones – page 1

One of the most difficult concepts for many radio users to grasp is the required "waiting period" before being able to transmit

This is a normal aspect of *all* digital communications

After pressing the PTT, the radio user **MUST** wait for the "Okay to Talk" signal before actually transmitting (*anything the radio user says before hearing the "Grant Tone" is not transmitted over the air – regardless of importance!*)



Grant Tone (Go ahead and talk)

Typically heard when the PTT has been pressed and the site has determined a talk path is available (usually heard within 1/2-second of pressing the PTT)

HARRIS

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ECP-3125-Mod page 7

Audible Tones – page 2

A common tone heard frequently while transitioning to digital communications is the dreaded "Deny Tone"

This is due to the long history of being able to talk over someone else who is using the channel – something that cannot be done with digital communications

The tone will also be heard if a radio user attempts to PTT when there is no radio coverage



Deny Tone (Forget it)

Typically heard when the PTT is pressed and there is no RF coverage available (no antenna icon displayed), or if someone else is already using the selected talk group (the network will not allow you to talk over someone else)

HARRIS

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ECP-3125-Mod page 8

Audible Tones – page 3

Occasionally, a radio user may attempt to transmit when no RF channel is available (*all are in use by other Talk Groups*)

The computerized "system" will acknowledge the attempt and will automatically assign the radio to the next RF channel when it becomes available

The audible acknowledgement is the "Queued Tone"



Queued Tone (Wait in line)

Typically heard when other radios are occupying all of the available RF resources (RF channel) – the network recognizes your need to communicate and will automatically assign you the next available RF resource as soon as it becomes available

HARRIS

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ECP-3125-Mod page 9

Audible Tones – page 4



Emergency Alert

This alert tone will be heard when a radio has declared an emergency (*the tone will be heard on all talk groups in the profile – not just the talk group that declared the emergency*)



Remove Tone

This tone is heard when a declared emergency has been cleared

The same tone may also – *although rarely* – be heard when RF coverage is lost during a voice transmission while the PTT is being held down, and even more rarely, if an on-going voice transmission is pre-empted by a higher-priority voice call

HARRIS

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ECP-3125-Mod page 10

Other Alert Tones

Lost Signal Alert – sometimes called the "Roam Tone", this alert notifies the user that the radio has lost network coverage and is attempting to locate another tower signal

This tone will sound periodically until the radio locates another tower signal

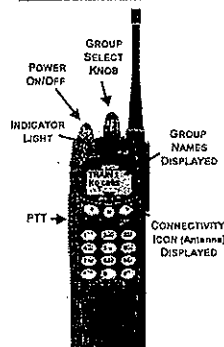
Low Battery Alert – only heard on portable radios, this alert is one low-pitched and one mid-pitched tone to notify the user that battery power is low

HARRIS

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ECP-3125-Mod page 11

Making A Call



Turn on the radio

Verify the antenna icon is displayed

Select the Talk Group you want to reach with the Group Select knob (the group names appear on the top line of the display)

Push-to-Talk (PTT)

After hearing the "Grant Tone", speak into the microphone in a normal voice

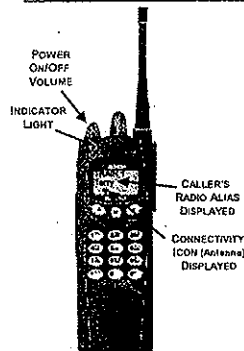
LED Indicator will flash red while you are transmitting

HARRIS

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ECP-3125-Mod page 12

Receiving A Call



Adjust the volume control to the desired level

Verify the antenna (Connectivity Icon) is displayed

The caller's User Alias appears on Line 2

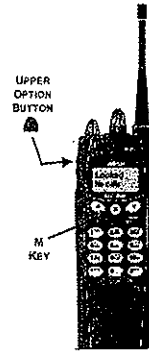
LED Indicator will flash green while receiving

HARRIS

assuredcommunications

ECP-3125-Mod page 13

Locking / Unlocking The Keypad



To lock the keypad,

Press and hold the M key

Press the upper OPTION button on the side of the radio

Release both keys

All keys on the front of the radio will be locked except the M key

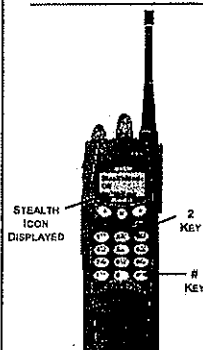
To unlock the keypad, use the same key presses

HARRIS

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ECP-3125-Mod page 14

Stealth Mode



The Stealth Mode will disable the LED, the radio back-light, and all tones, although the display will still be visible

Press the 2 key

Press the # key

The Stealth Mode Icon will be displayed



To disable Stealth Mode, use the same key presses –

Press the 2 key

Press the # key

The icon will disappear

NOTE – The radio may be pre-configured to save the Stealth Mode setting when power is cycled to the radio

HARRIS

assuredcommunications

ECP-3125-Mod page 15

Status LED Mode



The Status LED Mode will disable the LED and the radio back-light, but all tones will still be heard

Press the 4 key

Press the # key

To disable Status LED Mode, use the same key presses –

Press the 4 key

Press the # key

NOTE – The radio may be pre-configured to save the Status LED Mode setting when power is cycled to the radio

HARRIS

assuredcommunications

ECP-3125-Mod page 16

Enabling Scan Mode



If your radio is enabled to use the "Scan Mode", scanning can be turned on or off using the following keys:

Press the 3 key

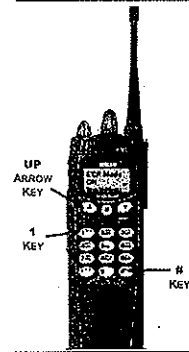
Press the # key

HARRIS

assuredcommunications

ECP-3125-Mod page 17

Off-Network Mode



If your radio has been pre-configured to allow you to interoperate with non-OPENSky radio systems, you will have to exit the network –

Press the 1 key

Press the # key

Your radio will automatically attach to the non-OPENSky radio system that has been pre-programmed (it will take few seconds to attach)

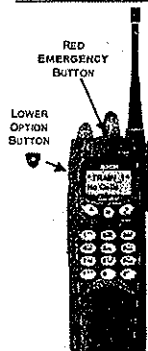
To return to the OPENSky network, press the UP Arrow key until "OpenSky" is displayed on the top line (after a few seconds, the radio will re-attach to the OPENSky network)

HARRIS

assuredcommunications

ECP-3125-Mod page 18

Declaring / Clearing Emergencies



Press and hold the red **EMERGENCY** button on the top of the radio until the emergency tones sound

Your radio will automatically enable the microphone for a few seconds (in case you cannot PTT)

TALK GROUP(S) IN EMERGENCY STATE WILL BE IDENTIFIED BY ASTERISKS

If your radio has been enabled to clear an emergency, the emergency can be cleared by the following:

Press and hold the lower **OPTION** button on the side of the radio

Press the red **EMERGENCY** button until the "remove tone" sounds

Release both buttons

HARRIS

assured communications

ECP-3125-Mod page 19

Harris Project Team Meeting

Minutes

Location/Date/Time	Director Lewis' Conference room/ November 3, 2009
Attendees	Director Deborah Lewis Lieutenant Claudia J. Morris Electronic Technician Supervisor David Go Telecommunications Supervisor Debbie Wilichowski Captain Andra Williams (Excused) Milwaukee Fire Department Chris Snyder (Excused) Dispatch Operator/User Group Shirley Glover (Guest) Harris Project Manager Fred Fitte Harris Program Manager Paul Crowe Harris Engineer Gary Kleiman
Recorder	Director Deborah Lewis
Materials for Meeting	
Purpose	Open Sky Updates
Agenda Items	No agenda available

The meeting started at 2:15 pm. Director Deborah Lewis opened the meeting by announcing all participating individuals in the room. Introductions were done of Milwaukee Police Department Dispatcher Shirley Glover. Minutes were not reviewed but were provided to the team after the last meeting.

Deborah Lewis:

- The Director made the consoles update request. Six consoles have been put on the Open Sky system in production. Six Console numbers 5, 6, 7, 9, 13, 14 and the time was 13:30 PM. Paul Crowe will be providing Director Lewis with a letter informing us that their 7-day soak period will begin. The soak period is defined as a period of time where no changes will occur to the consoles and they remain up and running with no software/hardware changes by Positron or Harris. Positron will be available on site during this soak period. During, this agreement Paul Crowe is requesting that the Milwaukee Police Department not make any changes to our network or equipment. It was orally stated that the 7-day soak period might start November 4, 2009. Furthermore, discussion occurred regarding configuration changes maybe needed during the 7-Day soak period by the Radio shop staff. It was decided that if a configuration (restricted memo configuration) is needed and can be done, it is allowed during this period. It was discussed whether or not the 7-day soak period will start over or not if the configuration change brings down the consoles. No decision was agreed upon. Without the configuration changes being done, a manual procedure for Communication's Management is necessary. Lt Claudia Morris will develop a temporary procedure for Communication to follow during the 7-day soak period. It was agreed that with the return of MPD staff, Sara Gunderson, the configuration changes would be made to the consoles.



City of Milwaukee, Wisconsin
Wireless Communications System
Rev. A, November 9, 2009

STATEMENT OF WORK
FOR A
TWO SITE EXPANSION
TO THE
CITY OF MILWAUKEE WIRELESS
COMMUNICATIONS SYSTEM
REV. A, NOVEMBER 9, 2009





INTRODUCTION

The Harris OpenSky radio system has been constructed and the Milwaukee Police Department has been migrated to the new system. The original tower sites were chosen to optimally utilize the frequencies that were licensed to the City, and the coverage has been demonstrated to meet the original predictions. Harris proposes that two additional sites would be beneficial to the City if additional frequencies can be obtained. They would provide improved in-building coverage in Districts 2 and 7. This Statement of Work (SOW) describes Harris' proposal to implement two additional sites at District 2 and District 7.

DESCRIPTION

Current Coverage

Figures 1 and 2 show the coverage as implemented. Blue is used to indicate low signal strength areas, and also shows the City/County border. The central area of the City is generally covered well as built, since no blue areas are evident.

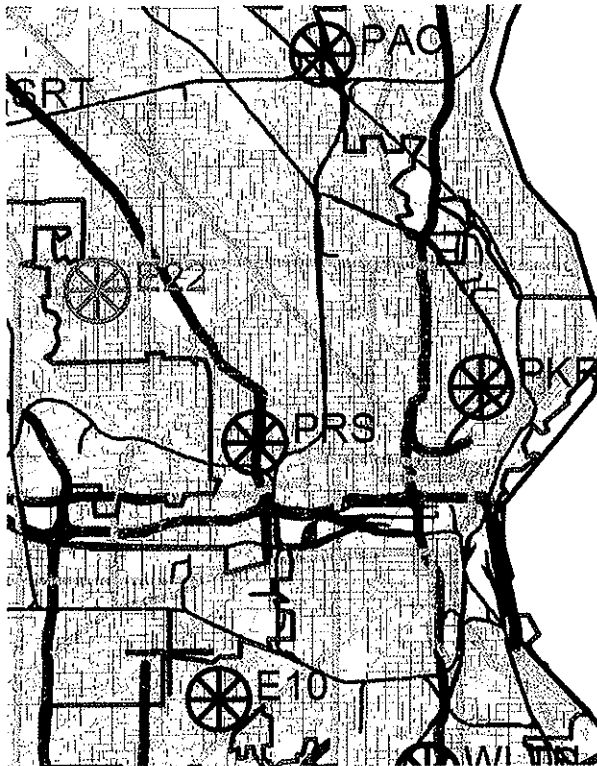


Figure 1. Mobile Outdoor Coverage, As Built
Mobile coverage is good throughout the City.

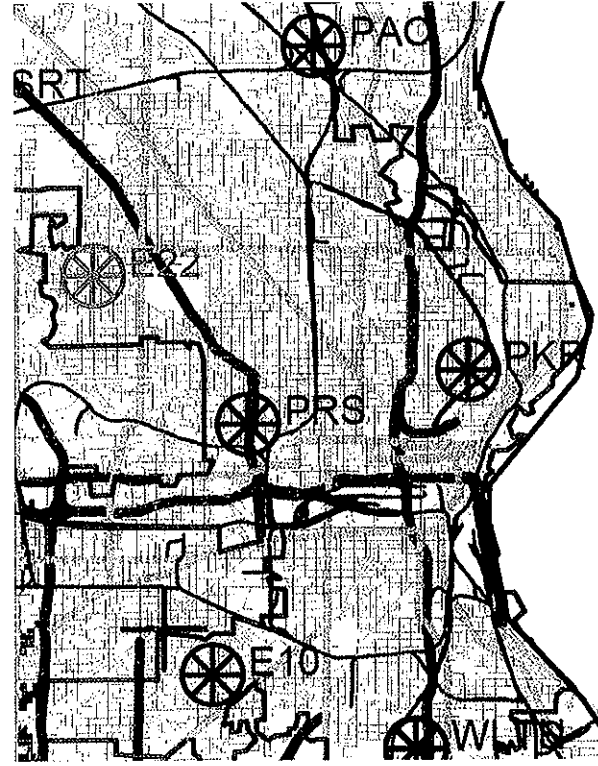


Figure 2. Portable Outdoor Coverage, As Built
Outdoor portable coverage reaches most areas of the City.



Proposed Coverage

Harris utilizes the RAPTR tool to predict and verify coverage. Portable indoor coverage is based on residential/light commercial structures. Figure 3 shows predictions for portable indoor coverage for the system as implemented, and Figure 4 shows the predicted coverage if two additional sites are added at Districts 2 and 7. Note the blue areas in District 7 are largely gone with the District 7 site. The District 2 improvement is less obvious, but since it is a low area far from the existing sites it would benefit from a new site.

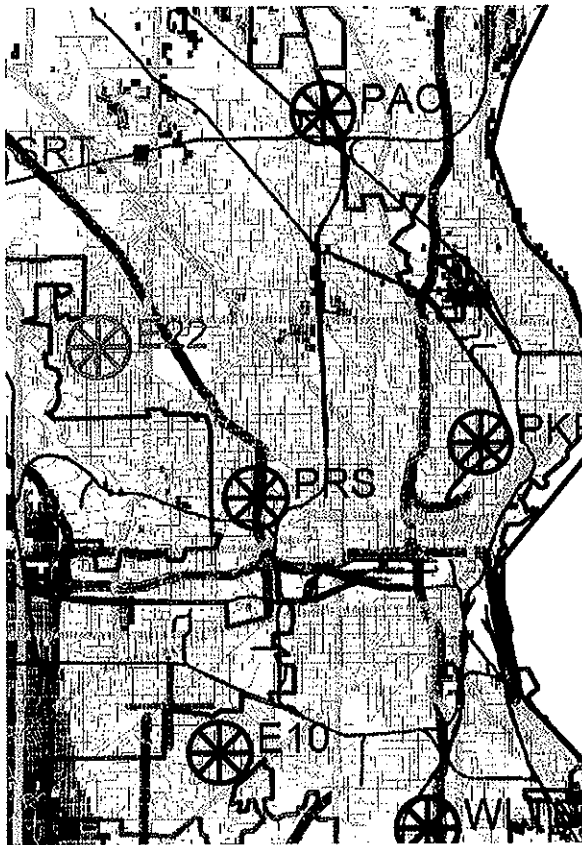


Figure 3. Portable Indoor Coverage, As Built
Portable indoor coverage for the City depends on distance from towers and topography.

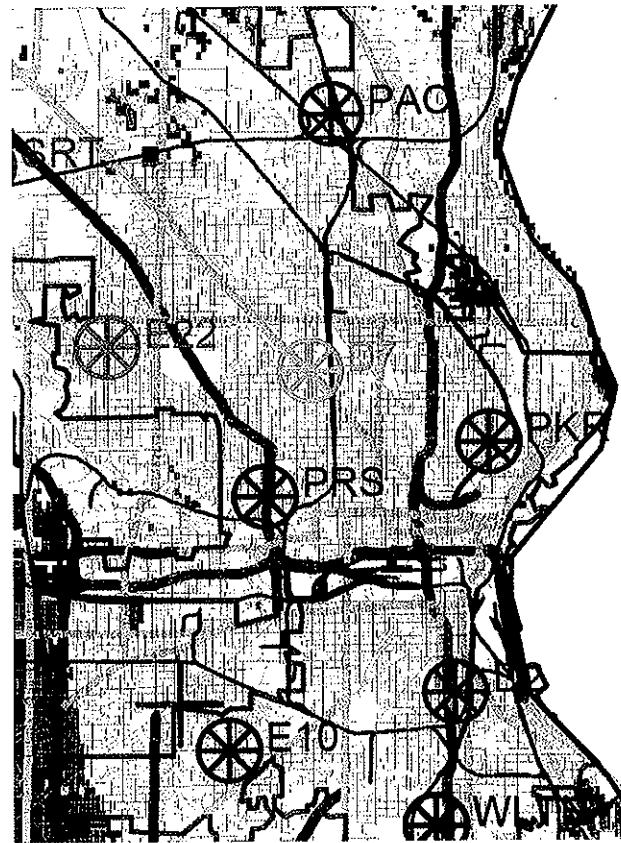


Figure 4. Portable Indoor Coverage, Predicted, with added Sites at Districts 2 and 7

Adding sites at these two locations provides added indoor coverage for these two Districts.

IMPLEMENTATION

Two additional sites are proposed for this SOW, to be installed on existing towers at District 2 and District 7. Harris will provide the necessary site equipment, antennas, and RF devices to provide a 2 channel, 8 talkpath site at each location. These sites were chosen because of their location and their existing infrastructure.



City of Milwaukee, Wisconsin
Wireless Communications System
Rev. A, November 9, 2009

Harris General Responsibilities:

- Harris will provide all as-built drawings for the new system and system interfaces.
- Harris will provide a one-year written warranty on all parts, material, workmanship, and labor related to system.
- Harris will measure site grounding system to verify actual ground resistivity.

Harris Site Specific Responsibilities:

Site	Name	Site Specific Equipment/Effort
D2	District 2 245 W. Lincoln Av.	<ul style="list-style-type: none">• Furnish and install two OpenSky based stations into customer racks.• Furnish and install 4-channel transmit combiner.• Furnish and install 4-channel receiver multicoupler.• Furnish and install alarm concentrator.• Furnish and install antenna system and tower top amp.• Furnish and install one site access server with T1 output.
D7	District 7 3626 W. Fond du Lac Av.	<ul style="list-style-type: none">• Furnish and install two OpenSky based stations into customer racks.• Furnish and install 4-channel transmit combiner.• Furnish and install 4-channel receiver multicoupler.• Furnish and install alarm concentrator.• Furnish and install antenna system and tower top amp.• Furnish and install one site access server with T1 output.

City of Milwaukee Responsibilities:

Towers:

- All towers or antenna structures are provided by Milwaukee and will have space available at the desired location for Harris to hang the new antennas and feed line as required by the proposed system design.
- The towers or antenna structures will have adequate cable ladders and bridges.
- The towers will have the structural integrity to support the proposed antenna systems. The City will obtain an approved structural analysis signed by a licensed Professional Engineer that shows the suitability of the tower for the new antennas and cables.

Equipment Rooms:

- All equipment rooms are provided by the MPD and will have adequate floor space to house additional equipment.
- All equipment rooms will have adequate climate control.
- The equipment rooms will have overhead cable trays or ductwork to allow for professional installation of all control and RF cables.





- The equipment rooms will have adequate cable entry ports with appropriate grounding plate for transmission and control line access.

Grounding:

- The site grounding system will measure 5ohms or less.
- The towers will be grounded as per industry standards.
- A halo ground with a single point ground will be provided inside of each equipment room.
- A copper grounding plate will be provided at the entry port of each equipment room.

Electrical Power and T1 Interface:

- The electrical feed at each equipment room will be sized to accommodate the power requirements of the Harris equipment.
- The City will provide all necessary equipment to allow for direct T1 interface from the Harris Site Access Servers to the City SONET system.

Miscellaneous:

- The City will file all needed FAA and FCC documents, as required, to obtain radio licenses, including associated application fees. If requested, Harris may provide engineering assistance as appropriate.

INSTALLATION

Harris will install, implement, and provide warranty support for the additional sites with the support of General Communications, Inc., a Harris Authorized Service Center located in Milwaukee. Harris will provide Project Management and System Engineering services.

ACCEPTANCE TESTS

Harris will provide predicted coverage for each site, and will measure actual coverage via a drive test specific to the new two new sites. The test data will be collected using a calibrated multi-channel receiver.

Harris will provide and execute a functional acceptance test with the appropriate feature demonstrations specific to each site.

PROJECT SCHEDULE

Harris will provide and install the site equipment within 3 months of the approval of this SOW via amendment to the Contract, and subsequent administrative, legal, and engineering approval



City of Milwaukee, Wisconsin
Wireless Communications System
Rev. A, November 9, 2009

of the towers and equipment rooms, assuming no weather-related delays. Operation will commence after the acceptance test and required license approvals.

PRICING

Price with the standard discount for Milwaukee is \$231,587. To work within the existing contracted amount, Harris proposes a sales price of \$160,000. This will use \$96,000 of unallocated MFD money, and \$64,000 of estimated credit for unused MPD mobile installations. This will not increase the price of the current contract as amended.

*DO WE
AGREE?*



Lewis, Deborah

From: Crowe, Paul [pcrowe01@harris.com]
Sent: Monday, November 09, 2009 12:40 PM
To: Lewis, Deborah
Subject: RE: Proposal for Two Site Addition

Deborah,

Please review this revised SOW for the two towers and let me know if you have questions.

Thanks,
Paul

From: Lewis, Deborah [mailto:delewi@milwaukee.gov]
Sent: Friday, October 30, 2009 12:32 PM
To: Crowe, Paul
Cc: Williams, Andra; Wilichowski, Debbie; Go, David; Fitte, Fred; Ray, Monica; Hoerig, Mary; Kleiman, Gary (Contractor)
Subject: RE: Proposal for Two Site Addition

Based on our conversation today.

1. You will rework the two site proposal to include a more technical justification for the sites 2 and 7.
2. What is the expected result and what will improve by the additional towers. The technical solution.
3. An update to the language in the proposal regarding what is expected of the MPD and the deliverable expected.
4. I called you back to find out how long does it take for delivery of radios after you receive a purchase order.
5. You will get a copy of Sara's punch list from David Go and review it for comparison to your most current punch list to ensure we are all ready for acceptance of the equipment.
6. We have delivered the Fleet Mapping to Fred Fitte.

You asked me to:

1. Find out if staff is available to work overtime Saturday and Sunday October 31 (8-4), November 1 (noon-4) or (1-5 pm). We are checking and I will call you with a response. They will be assisting the engineers while testing the consoles.

Deborah E. Lewis

Director, Office of Police Information Systems | Office 414-935-7205 | Cellular 414-559-1456

From: Crowe, Paul [mailto:pcrowe01@harris.com]
Sent: Thursday, October 29, 2009 5:12 PM
To: Lewis, Deborah
Cc: Williams, Andra; Wilichowski, Debbie; Go, David; Fitte, Fred; Ray, Monica; Hoerig, Mary; Kleiman, Gary (Contractor)
Subject: RE: Proposal for Two Site Addition

11/19/2009

PAYNE, MICHAEL

From: Lewis, Deborah
Sent: Thursday, November 19, 2009 2:51 PM
To: PAYNE, MICHAEL
Subject: FW: Proposal for Two Site Addition

for your information Please review. This is what the extra money in the contract will be used for.

Deborah E. Lewis

Director, Office of Police Information Systems | Office 414-935-7205 | Cellular 414-559-1456

From: Crowe, Paul [mailto:pcrowe01@harris.com]
Sent: Monday, November 09, 2009 12:40 PM
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Paul

From: Lewis, Deborah [mailto:delewi@milwaukee.gov]
Sent: Friday, October 30, 2009 12:32 PM
To: Crowe, Paul
Cc: Williams, Andra; Wilichowski, Debbie; Go, David; Fitte, Fred; Ray, Monica; Hoerig, Mary; Kleiman, Gary (Contractor)
Subject: RE: Proposal for Two Site Addition

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1. Find out if staff is available to work overtime Saturday and Sunday October 31 (8-4), November 1 (noon-4) or (1-5 pm). We are checking and I will call you with a response. They will be assisting the engineers while testing the consoles.

3/8/2010

Deborah E. Lewis

Director, Office of Police Information Systems | Office 414-935-7205 | Cellular 414-559-1456

From: Crowe, Paul [mailto:pcrowe01@harris.com]

Sent: Thursday, October 29, 2009 5:12 PM

To: Lewis, Deborah

Cc: Williams, Andra; Wilichowski, Debbie; Go, David; Fitte, Fred; Ray, Monica; Hoerig, Mary; Kleiman, Gary (Contractor)

Subject: RE: Proposal for Two Site Addition

Deborah,

Let me know if you need more information before Tuesday, or we can just talk about it then. The responsibilities language was taken from the original proposal, and is meant to eliminate confusion once the work gets started.

Best regards,
Paul

From: Lewis, Deborah [mailto:delewi@milwaukee.gov]

Sent: Thursday, October 29, 2009 2:09 PM

To: Crowe, Paul

Cc: Williams, Andra; Wilichowski, Debbie; Go, David; Fitte, Fred; Ray, Monica; Hoerig, Mary; Kleiman, Gary (Contractor)

Subject: RE: Proposal for Two Site Addition

In light of the new information shared with us (10/27/2009) regarding the solution to add two additional sites and the attached proposals, we at MPD are not comfortable with this solution and the tone in the proposal. We will need more information before supporting the additional towers. Let's plan to discuss this tomorrow or at our next scheduled status meeting. The entire team should participate in this discussion.

Deborah E. Lewis

Director, Office of Police Information Systems | Office 414-935-7205 | Cellular 414-559-1456

From: Crowe, Paul [mailto:pcrowe01@harris.com]

Sent: Tuesday, October 20, 2009 1:52 PM

To: Lewis, Deborah

Cc: Williams, Andra; Wilichowski, Debbie; Go, David; Fitte, Fred

Subject: Proposal for Two Site Addition

Deborah,

Please find attached our proposed two site addition. As discussed, it will not increase the contract value but instead use unallocated funds.

Best regards,
Paul

Paul Crowe

Program Manager

Harris Corporation, RF Communications

T: +1-434-455-9356

3/8/2010

C: +1-434-851-4408
F: +1-434-455-6815
E: paul.crowe@harris.com
www.rfcomm.harris.com
<<Two Site Proposal SOW.pdf>>

PAYNE, MICHAEL

From: SNYDER, CHRISTOPHER
Sent: Tuesday, November 10, 2009 11:28 AM
To: PAYNE, MICHAEL
Subject: Emailing: problems-with-opensky-digital-trunked-radio-systems

Daryl Jones' Weblog

Commentary on Public-Safety Technology — and other things



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Problems with OpenSky digital trunked radio systems

Posted on July 12th, 2009

by daryl in [Interoperability](#), [Public-Safety Radio](#), [Technology in Government](#)

Problems with digital trunked radio systems are not limited to P25 products sold by Motorola. More than a decade ago, Lancaster County Pennsylvania officials saw presentations of a new statewide emergency radio system and were driven to sign a contract with M/A-Com for an OpenSky county-wide system. The County commissioners voted in March 2008 to terminate its contract with M/A-Com for the OpenSky system after they concluded that it was unlikely that the radio system would meet minimum acceptable levels of performance and reliability. [Lancaster County hopes to begin work on an alternative radio system soon.](#)

The Lancaster County government spent more than \$13.8 million on the OpenSky digital radio system, even though the system never progressed beyond the testing phase.

[The State of New York canceled its \\$2 billion contract for OpenSky products earlier this year.](#) Pennsylvania reports similar problems with its failed attempt to deploy an OpenSky digital trunked radio system.

11/10/2009

The State of Pennsylvania still does not have its OpenSky system working as planned, 13 years after commencing work on the project. The State Office of Public Safety reported in June that it has cost \$368 million so far.

In December 2005, the Sacramento Municipal Utility District (SMUD) contracted for one of the first OpenSky radio systems at an estimated cost of more than \$6 million. The system was intended to provide service over 900 square miles in the California counties of Sacramento and Placer, however it is not sufficiently reliable to handle routine radio traffic even though SMUD has already spent several million dollars. SMUD has not accepted the OpenSky system and is still using its old analog trunked radio system.

==

Lancaster Online article by Helen Colwell Adams, 07/12/2009

==

No user commented in " Problems with OpenSky digital trunked radio systems "

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November 2009

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PAYNE, MICHAEL

From: Crowe, Paul [pcrowe01@harris.com]
Sent: Monday, November 23, 2009 1:40 PM
To: PAYNE, MICHAEL
Cc: JONES, MICHAEL; Stamps, Emma
Subject: RE: Milwaukee Fire Unused Funds

Chief Payne,

I've looked over the records of your purchase and do not believe that you paid us more than the grant value for the radios in question; therefore you would not owe the federal government a refund. However you did issue a PO for the additional \$96K, and I will work with our finance administrator to get the line by line detail and clarify this so we can resolve it.

Best regards,
Paul

From: PAYNE, MICHAEL [mailto:MPAYNE@milwaukee.gov]
Sent: Friday, November 20, 2009 1:03 PM
To: Crowe, Paul
Cc: JONES, MICHAEL; Stamps, Emma
Subject: FW: Milwaukee Fire Unused Funds

Paul,

Regarding the unused balance of \$96,000.03 left over from the radio purchase, the Milwaukee Fire Department has decided to ask for a refund of these monies. Our reason for this request is simple; the unused money is part of an OJA grant that is now closed. The Milwaukee Fire Department must refund whatever money not spent from that grant back to the Federal Government. Our intention is to return that money. I would appreciate a date as to when that money can be returned to us so that we can fulfill our obligation. You may contact me with any questions; I will be in my office most of the day. Thank You.

Michael A. Payne
Deputy Chief
Milwaukee Fire Department
414 286-8971 work, 397-9157 cell
mpayne@milwaukee.gov

From: JONES, MICHAEL
Sent: Friday, November 20, 2009 9:38 AM
To: PAYNE, MICHAEL
Subject: FW: Milwaukee Fire Unused Funds

Michael L. Jones
Assistant Chief
Milwaukee Fire Department
Bureau of Administration
711 W. Wells Street
Milwaukee, WI. 53233
414-286-8946 (office)
414-397-9530 (cell)
mljones@milwaukee.gov

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From: Crowe, Paul [mailto:pcrowe01@harris.com]
Sent: Thursday, November 19, 2009 1:54 PM
To: JONES, MICHAEL
Subject: Milwaukee Fire Unused Funds

Chief,

Your original radio equipment purchase was for \$2,799,387.75. As part of the purchase agreement, Harris gave the MFD a one time credit of \$335,926.53. Another MFD equipment purchase used \$239,926.50 of the credit, leaving an unused balance of \$96,000.03. This is the amount I referenced to you yesterday as possibly available for addition sites.

If you have questions, please let me know.

Best regards,
Paul

Paul Crowe
Program Manager
Harris Corporation, RF Communications
T: +1-434-455-9356
C: +1-434-851-4408
F: +1-434-455-6815
E: paul.crowe@harris.com
www.rfcomm.harris.com

The City of Milwaukee is subject to Wisconsin Statutes related to public records. Unless otherwise exempted from the public records law, se

11/30/2009

PAYNE, MICHAEL

From: Lewis, Deborah
Sent: Monday, November 30, 2009 4:42 PM
To: Ray, Monica; Jones, Michael
Cc: Hoerig, Mary; PAYNE, MICHAEL; Wilichowski, Debbie; Williams, Andra
Subject: FW: New 7-day test for Intrado

Based on this information we will resume the seven day test on Wednesday, December 2, 2009. If you have additional input. We are meeting with Harris on Tuesday at 2pm in my office.

Deborah E. Lewis

Director, Office of Police Information Systems | Office 414-935-7205 | Cellular 414-559-1456

From: Wilichowski, Debbie
Sent: Monday, November 30, 2009 4:16 PM
To: 'Crowe, Paul'; Lewis, Deborah; Williams, Andra; Go, David
Cc: Gunderson, Sara; Fitte, Fred; Kleiman, Gary (Contractor); Ramsey, Bennett; Bromage, Lindsay
Subject: RE: New 7-day test for Intrado

Paul,
 Thanks for the update. Has any troubleshooting been done to determine where the excessive PTTs are coming from on our equipment?

Thanks,
 Debbie

From: Crowe, Paul [mailto:pcrowe01@harris.com]
Sent: Monday, November 30, 2009 4:14 PM
To: Wilichowski, Debbie; Lewis, Deborah; Williams, Andra; Go, David
Cc: Gunderson, Sara; Fitte, Fred; Kleiman, Gary (Contractor); Ramsey, Bennett; Bromage, Lindsay
Subject: New 7-day test for Intrado

Everyone,

Intrado will be back on site Wednesday morning to insert the revised UCC cards and prepare for a new 7-day test. Roy Aoun, Serge, and Bill Toth will be traveling to Milwaukee Wednesday night to perform this work, and Roy will stay throughout the 7-day test. Ben Ramsey and Lindsay Bromage will each cover a portion of the 7-day period for Harris.

Intrado is confident that they've improved the robustness of their software on the UCC cards. It ran error-free for four days with a heavy traffic load.

Best regards,
 Paul

Paul Crowe

Program Manager

Harris Corporation, RF Communications

T: +1-434-455-9356

C: +1-434-851-4408

F: +1-434-455-6815

E: paul.crowe@harris.com

www.rfcomm.harris.com

3/8/2010

PAYNE, MICHAEL

From: Wilichowski, Debbie
Sent: Monday, November 30, 2009 11:15 AM
To: PAYNE, MICHAEL; SNYDER, CHRISTOPHER; HOGUE, GARY; MUELLER, HEIDE; SLOWEY, SEAN
Cc: Lewis, Deborah; Williams, Andra; Ziolkowski, Iris
Subject: Maestro demo

To All,

There will be a demonstration of Harris Corporation's Maestro consoles this Thursday, December 3, 2009 starting at 8 AM. There will be 2 meetings.

1. Overview of Maestro Consoles. Audience should include MPD and MFD call center personnel. Start time: 8 AM. Duration: 1 hour.
2. Maestro demonstration using test talkgroups simulating real work environment. Audience should include dispatchers, training office, radio shop and a limited number of others. Start time 9:15 AM. Duration: 2 hours.

The meetings will be held in

Please let me know how many of your members will be attending as we have limited space. The EOC was already reserved for this date so we will be meeting in the District 3 Captain's conference room.

Thanks,
 Debbie

Debb's Phone #

→
 ↘ HEY MAN

~~BRUNNEN~~ 7605-511

7677 DEB

7th Floor PAB - LEFT. MAESTRO
 / /

1st Floor DISTRICT

PAYNE, MICHAEL

From: Fitte, Fred [ffitte@harris.com]
Sent: Wednesday, December 02, 2009 4:05 PM
To: Fitte, Fred
Subject: Seven Day Console Test

The "Seven Day Test" commenced today at 11:30 AM Central. Three updated UCC cards installed. Console #s 6,7,8,13 and 14 have

been migrated over to OpenSky. During the test, Positron/Intrado will again have an engineer in town to monitor the test to completion.

Should there be any console failures during this test, we ask that the following e contact in the order listed.

Roy Aoun -	Positron/Intrado	514-449-2755
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Also available are:

Ben Ramsey	Harris Engineering	434-386-1288	Through Friday
Lindsay Bromage	Harris Engineering	518-817-8093	Friday through
Sunday			

Fred Fitte	Harris Project Management	518-421-8837	Thursday through Sunday
			8 AM through 9 PM at this number

I will provide my personal home phone number to David Go, Roy and
Lindsay should
contact be required after 9 PM

Please be advised that Paul has had to alter his plans to be in Milwaukee due to family illness. Please feel free to contact me through the weekend.

We would ask that all Milwaukee PD radio shop personnel be advised of the ongoing test and the request to let us know if any

Console changes are to be made.

Thanks very much,

Fred

12/3/2009

Harris Project Team Meeting

Minutes

Location/Date/Time Comm/Data Center Conference Room, December 3
2009/2:00 PM

Attendees Director Deborah Lewis
Lieutenant Claudia J. Morris (Excused)
Electronic Technician Supervisor David Go
Tele Supervisor Debbie Wilichowski
Captain Andra Williams
Milwaukee Fire Department Chris Snyder (Excused)
Milwaukee Fire department Chief Michael Payne(Excused)
Harris Project Manager Fred Fitte
Harris Program Manager Paul Crowe
Harris Engineer Gary Kleiman (Excused)

Recorder Deborah Lewis

Materials for Meeting

Purpose Open Sky Updates

Agenda Items Round Robin

Joe Garrison (Sanitation)

- Problems with M803s – Joe would like to know if this a hardware problem with individual mobiles or a software issue. Ben Ramsey and Gary Kleiman will work on and hopefully resolve this issue this coming week.
- Price of an individual M803 - \$1975
- Type of console to be used by Sanitation – virtual consoles are available and MPD has purchased licenses for them. Paul Crowe and Fred Fitte recommend a control station (mini base station) – similar to a fixed mobile; approximate cost \$5000.

Paul Crowe:

- Thursday meeting with the Chief and Harris Management is still on. Fred will contact Chief Jones at MFD about the uninvite to the meeting.
- Console testing set to resume on Wednesday, assuming the new UCC cards are stable. This will probably start after lunch and Captain Williams will make the “go” or “no go” decision.
- It seems that the excessive PTTs only occur during an OpenSky test period. They may be related to patching. Ben Ramsey will be monitoring the system for the PTTs during the test.
- David was trying to configure a “restrict” indication on the consoles but agreed to hold off on any configuration changes during the burn-in.
- Maestro demos will occur on Friday morning starting at 8 AM and running until approximately 11 AM. Captain Williams will not authorize over-time for the demos so only day shift dispatchers will attend.
- Jim Anderson from Harris will be contacting Rhonda Kelsey about the Ts&Cs and the contract extension.

- Paul will check about the IP connect base vs. the T-1 connect base for the two new bases that will be installed. MPD staff needs to read the SOW for the bases.
- Punch list will be done between after the 7 day burn-in and before the 14 day test.
- Paul and Fred will get average pricing on the BDAs for in-building coverage.

Fleet Mapping

- Terry Self will be back in town the week of December 15th to work with MFD on their Fleet Map.
- DPW would like to attend discussions to become familiar with fleet mapping concerns.
- Terry Self would like to meet with Captain Williams on one of the days he is here to discuss some final issues with MPD fleet map.

PAYNE, MICHAEL

From: Fitte, Fred [ffitte@harris.com]
Sent: Thursday, December 03, 2009 2:07 PM
To: Fitte, Fred
Subject: RE: Seven Day Console Test - UPDATE

All,

I would like to clarify my email last night regarding the halting of the "Seven Day Test". The test did not fail. There was a voluntary

agreement by MPD, Positron and Harris to halt the test in the interest of officer safety until the MPD radio shop could investigate

the anomaly that was observed. They, along with Harris and Positron are working at this time to look into the issue.

There was NO failure of the UCC cards that were being tested. During any controlled test, one cannot be positive that a test

is totally successful if there are mitigating factors that may or not affect that test. That is being looked at right now.

At the weekly project meeting, it was agreed to by the collective team that officer safety was foremost above a test.

The decision to suspend testing was done with that in mind.

Thanks very much,

Fred

Frederick E. Fitte

Sr. Program Manager
Harris Corporation, RF Communications
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Lynchburg, VA 24501
T: +1-518-421-8837

E: ffitte@harris.com

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12/3/2009

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<<Fitte, Frederick E.vcf>>

From: Fitte, Fred
Sent: Wednesday, December 02, 2009 11:37 PM
To: Fitte, Fred
Subject: RE: Seven Day Console Test

All,

The "Seven Day Console Test" was halted at 9:30 Pm this evening. There appears to be a possible issue with how the audio is routed back and forth between OpenSky and Legacy. It was agreed by the field team and Deb W. that the test would be stopped until configurations could be verified first thing in the morning when the appropriate resources are present

at the radio shop. We will provide updates as we proceed.

Thanks,

Fred

Frederick E. Fitte

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E: ffitte@harris.com

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<< File: Fitte, Frederick E.vcf >>

From: Fitte, Fred
Sent: Wednesday, December 02, 2009 5:05 PM
To: Fitte, Fred
Subject: Seven Day Console Test

12/3/2009

The "Seven Day Test" commenced today at 11:30 AM Central. Three updated UCC cards installed. Console #s 6,7,8,13 and 14 have

been migrated over to OpenSky. During the test, Positron/Intrado will again have an engineer in town to monitor the test to completion.

Should there be any console failures during this test, we ask that the following e contact in the order listed.

Roy Aoun - Positron/Intrado 514-449-2755

Also available are:

Ben Ramsey	Harris Engineering	434-386-1288	Through Friday
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Sunday			

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8 AM through 9 PM at this number

Lindsay should I will provide my personal home phone number to David Go, Roy and
contact be required after 9 PM

Please be advised that Paul has had to alter his plans to be in Milwaukee due to family illness. Please feel free to contact me through the weekend.

We would ask that all Milwaukee PD radio shop personnel be advised of the ongoing test and the request to let us know if any

Console changes are to be made.

Thanks very much,

Fred

Frederick E. Fitte

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12/3/2009

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<< File: Fitte, Frederick E.vcf >>

12/3/2009

PAYNE, MICHAEL

From: JONES, MICHAEL
Sent: Saturday, December 05, 2009 10:02 AM
To: 'Wenzel, David R - OJA'
Cc: PAYNE, MICHAEL
Subject: RE: Radio Grant

Hello Dave,

I will forward your request to Chief Payne and he will provide a report to you by early next week. Always feel free to contact me concerning the Harris project or any concerns you have.

Thanks,

Michael L. Jones
Acting Chief
Milwaukee Fire Department
Bureau of Administration
711 W. Wells Street
Milwaukee, WI. 53233
414-286-8947 (office)
414-397-9530 (cell)
mljones@milwaukee.gov

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-----Original Message-----

From: Wenzel, David R - OJA [mailto:david.wenzel@wisconsin.gov]
Sent: Friday, December 04, 2009 7:59 AM
To: JONES, MICHAEL
Subject: Radio Grant

Chief Jones

Sorry to bother you but I do not have Mike Paynes email address and have not received any updates sine the end of August. I did see the article in the Journal and it does not look good. Can you or Chief Payne please fill me in as to where we currently stand and where we expect to go with this project.

In the news article it sounded like the project was already outdated and may be scrapped.

Dave Wenzel
OJA - Homeland Security

3/8/2010

PAYNE, MICHAEL

From: Fitte, Fred [ffitte@harris.com]
Sent: Tuesday, December 08, 2009 7:55 AM
To: PAYNE, MICHAEL; SNYDER, CHRISTOPHER
Cc: JONES, MICHAEL
Subject: Fleet Mapping Meetings

Chief,

Terry will be arriving in Milwaukee on Monday, December 14. We would like to commence the fleet mapping process at 1 PM on Monday. It is

Important that the same individual(s) attend all of the session through Thursday noon. I need to know by today how many of your staff will

be attending and who they are. Terry has prepared documentation and will be overnighting it to you for next weeks efforts.

Thanks,

Fred

Frederick E. Fitte

Sr. Program Manager
Harris Corporation, RF Communications
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Lynchburg, VA 24501
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<<Fitte, Frederick E.vcf>>

12/8/2009

PAYNE, MICHAEL

From: Crowe, Paul [pcrowe01@harris.com]
Sent: Monday, December 14, 2009 10:44 AM
To: Lewis, Deborah; Wilichowski, Debbie; Williams, Andra; Go, David
Cc: Fitte, Fred; Fiesthumel, Thomas; PAYNE, MICHAEL; PAYNE, MICHAEL; Morris, Claudia
Subject: RE: Plans for Next Week

Deborah,

Please have Federal coordinate all requests through your office and Fred so we maintain a single communications path.

Thanks,
Paul

From: Lewis, Deborah [mailto:delewi@milwaukee.gov]
Sent: Monday, December 14, 2009 10:57 AM
To: Crowe, Paul; Wilichowski, Debbie; Williams, Andra; Go, David
Cc: Fitte, Fred; Fiesthumel, Thomas; PAYNE, MICHAEL; PAYNE, MICHAEL; Morris, Claudia
Subject: RE: Plans for Next Week

I have Federal Engineering in Milwaukee today. They will be requesting your time and staff time to complete a review of our Harris project this week. Please give them your cooperation and encourage your team to assist us in the process. If you have any question please don't hesitate letting me know. Thanks.

They will be attending the project Team Meeting This Tuesday.

Deborah E. Lewis

Director, Office of Police Information Systems | Office 414-935-7205 | Cellular 414-559-1456

From: Crowe, Paul [mailto:pcrowe01@harris.com]
Sent: Friday, December 04, 2009 2:13 PM
To: Lewis, Deborah; Wilichowski, Debbie; Williams, Andra; Go, David
Cc: Fitte, Fred; Fiesthumel, Thomas
Subject: Plans for Next Week

Everyone,

As you know, there are remaining analog/digital issues related to patching UHF repeaters to the OpenSky system. John Denoon, Ben Ramsey, and Fred Fitte will be back on site Monday to resolve it. We request support from you to accomplish this: first, we'd like assistance from Jim in regard to the conventional repeaters; second, we wish to test at least two analog channels in a patch and therefore need to coordinate tests with Dispatch. We would do the testing only under a live "go" from Dispatch so there would be no surprises.

Fred can arrange a meeting with the appropriate people to coordinate this when everyone arrives.

It's unfortunate that this has delayed our test, but as you know there were no problems with the UCC cards themselves.

12/14/2009

PAYNE, MICHAEL

From: Young, Dirk [jyoung30@harris.com]
Sent: Tuesday, December 15, 2009 6:28 PM
To: JONES, MICHAEL
Cc: PAYNE, MICHAEL; Crowe, Paul; Fitte, Fred
Subject: System Update

Chief Jones,

I hope that all is well with you as your responsibilities continue to increase at MFD! I wanted to give you a brief update of what is going on with the radio system and where things stand.

As you are aware of we have had some problems with the Intrado consoles. The console vendor, Intrado, made significant improvements to the stability of the consoles with heavy call volume. While the test was started successfully it was halted so concerns regarding patching could be resolved. The City-Wide patches are working properly when either all digital or all analog but when the two technologies are mixed is when some issues arise. Both Harris and Intrado have people on the ground working to get the issue resolved.

Chief Payne and his team are meeting with Fred Fitte and Terry Self to work on the fleet map this week. We would appreciate your team's feedback on the session.

As you have requested we will be sending you bi-weekly updates on the project status. As always please reach out to me if you have any questions. I hope to be back in the City shortly after the first of the year and hope that we can catch-up over dinner.

Sincerely,

Dirk Young

Manager, National Public Safety Markets
Harris RFCD
PS&PC Division
Office - (251) 300-2911
Fax - (251) 650-1365
dirk.young@harris.com
<http://www.rfcomm.harris.com/publicsafety/>

12/16/2009