



MIEMSS Narrowbanding Status and Radio Grant Program (Updated 12/4/12)

***** The FCC mandate to convert certain radio equipment to Narrowband Operation is rapidly approaching. The Maryland Emergency Medical Service (EMS) communications system is affected by this mandate. All EMS UHF communications equipment – portables, mobiles, and base stations – must be converted to narrowband operation by the January 1, 2013. Counties/companies operating non-narrowband compliant equipment after January 1, 2013 will be in violation of FCC regulations and subject to FCC penalties*****

For the past several years, MIEMSS has been working to modify the statewide EMS communications system to ensure compliance with FCC mandates for public safety systems to migrate to narrowband technology. **Replacement of Maryland's non-narrowband-capable infrastructure to accommodate the mandate has been completed and all MIEMSS Regions switched to narrowband operations.**

The Radio Grant Program, which was used to fund the replacement of non-narrowband-capable mobile and portable radios for jurisdictional EMS Operating Programs, closed June 30, 2012. However, if you still need narrowband-capable equipment, please contact your [MIEMSS Regional Administrator](#) about your needs and to discuss your options. See details below for how you may be able to replace non-narrowband-capable equipment with compliant equipment. As noted above, any jurisdiction/company/agency operating non-narrowband equipment after January 1, 2013, is subject to FCC sanction.

Narrowbanding Plan (Follow-up)

MIEMSS began migrating to narrowband operations on April 4, 2012. **On November 16, 2012 MIEMSS Communications Engineering Services completed the statewide transition to narrowband operations.** MIEMSS thanks all those in the state who supported this effort! Below is a timeline summarizing when each MIEMSS Region was transitioned to narrowband operation.

- April 4, 2012: Somerset, Worcester and Wicomico Counties were successfully incorporated into the Region IV EMRC and are operating in narrowband mode.
- June 7, 2012: the MIEMSS Communications Department converted Dorchester, Talbot, Queen Anne's, Caroline, and Kent Counties to narrowband operation.
- September 6-7, 2012: the MIEMSS Communications Department converted Garrett, Allegany, and Washington Counties to narrowband operation.
- October 3, 2012: the MIEMSS Communications Department converted Region V to narrowband operation. Counties affected were Frederick, Montgomery, Prince George's, Charles, Calvert, and St. Mary's.
- November 14, 2012: the MIEMSS Communications Department converted Region III to narrowband operation. Jurisdictions affected were Baltimore City and Anne Arundel, Baltimore, Carroll, Cecil, Harford, and Howard Counties.

Note: Once an EMSOP is moved over to narrowband mode, units operating non-narrowband capable radios will disrupt EMS radio communications. Counties/companies operating non-narrowband compliant equipment after January 1, 2013 will

be in violation of FCC regulations and subject to FCC penalties.

Acquiring Compliant Radio Equipment

The guidelines below are for counties or individual companies that still need narrowband-capable equipment. Although the original Radio Grant Program closed in June 2012, you may still be eligible for radio equipment. If you have already spoken with your Regional Administrator, and have been asked to submit a radio request, please read below for further information. If you have not been given prior approval from your Regional Administrator to request narrowband-capable equipment from MIEMSS, please contact that Administrator to discuss your options.

If replacement narrowband-capable equipment is available from MIEMSS, this will be offered first. If funds become available for reimbursement, the same provisions from the Radio Grant Program will apply:

- Participants will be required to sign a “MIEMSS Radio Cost Reimbursement Grant Agreement.” Participants may be either a county, or individual company within a county, depending on how the various jurisdictions wish to proceed.
- **MIEMSS will reimburse county, and /or volunteer companies in the county, up to a \$1,300 for the purchase, and installation where appropriate, of new narrowband mobile and portable radios** that meet MIEMSS specifications.
- The Motorola Model CDM 1550 mobile radio and the Kenwood TK 390 portable radio and mobile charger are the only radio equipment that will be reimbursed. These radios are compliant with FCC requirements and meet the operational needs of the Maryland EMS communications system. Both the portable and mobile radios are available on the state contract. (Please refer to the Two-Way Radio Equipment and Services contract through the Department of Information Technology, 060B9800015, Functional Area I as follows:
<http://doit.maryland.gov/contracts/Pages/TwoWayRadioFunctionalAreas.aspx>.)
- These radios **must be programmed with the [MIEMSS approved channel template](#).**

MIEMSS Radio Grant Program Documents

[Radio Grants for EMS Operation Programs and/or EMS Companies Procedures](#)

[MIEMSS Radio Grant Program Flowchart](#)

[MIEMSS Radio Cost Reimbursement Grant Agreement - EMS Company](#)

[MIEMSS Radio Cost Reimbursement Grant Agreement - County](#)

[MIEMSS Application for Radio Grant Funds](#)

[MIEMSS Radio Template](#)

[Narrowbanding FAQs](#)

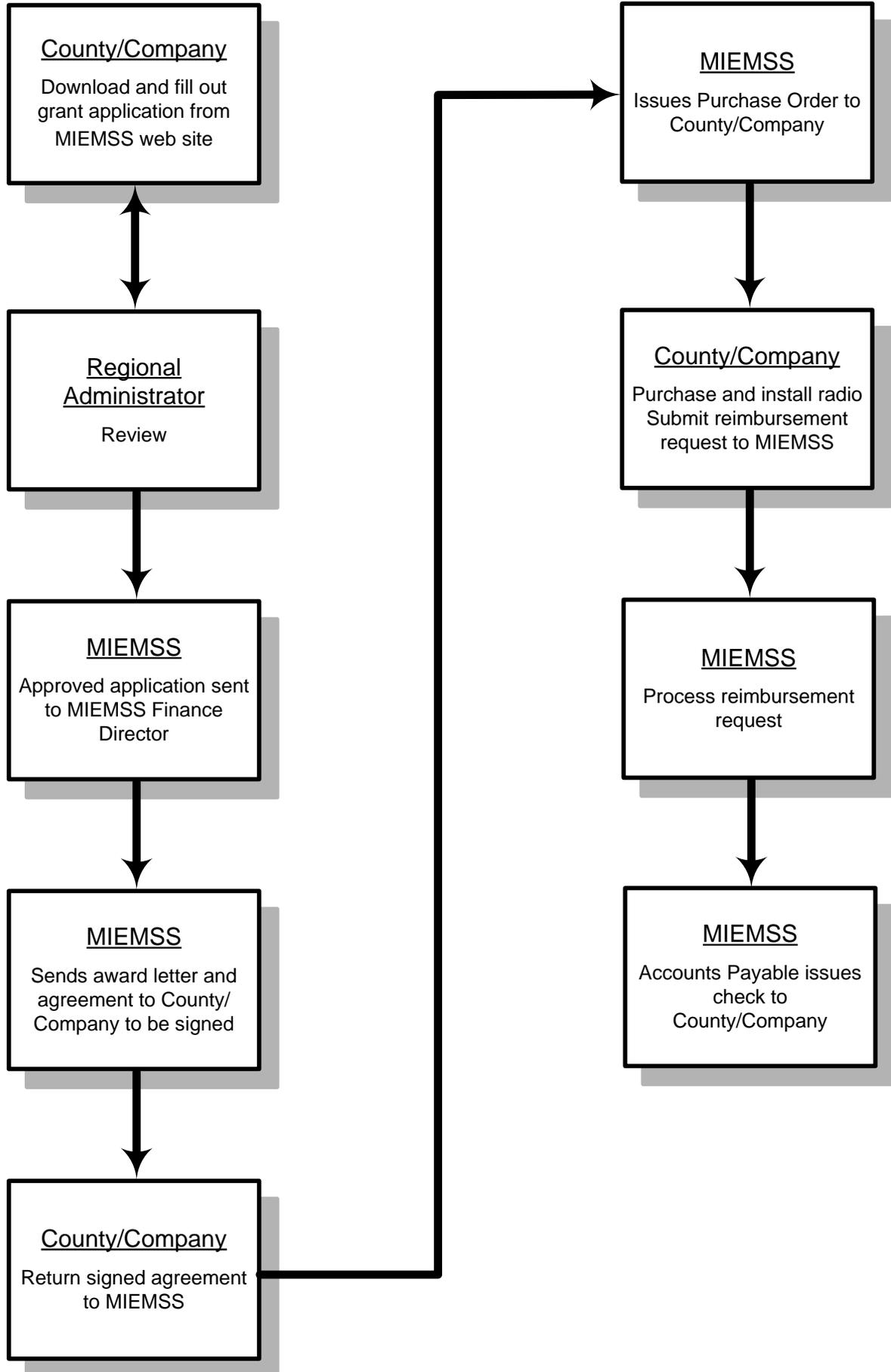
MIEMSS Radio Template							
	Group Number	Channel Number	Channel Name	Tx Frequency (mobile)	Rx Frequency (mobile)	Tone Frequency	Tone Code
1 2 . 5 k H Z N a r r o w B a n d C h a n n	1	1	MED 1A NEW	468.000 Mhz	463.000 Mhz	127.3	A
	1	2	MED 2A NEW	468.025 Mhz	463.025 Mhz	127.3	A
	1	3	MED 3A NEW	468.050 Mhz	463.050 Mhz	127.3	A
	1	4	MED 4A NEW	468.075 Mhz	463.075 Mhz	127.3	A
	1	5	MED 5A NEW	468.100 Mhz	463.100 Mhz	127.3	A
	1	6	MED 6A NEW	468.125 Mhz	463.125 Mhz	127.3	A
	1	7	MED 7A NEW	468.150 Mhz	463.150 Mhz	127.3	A
	1	8	MED 8A NEW	468.175 Mhz	463.175 Mhz	127.3	A
	1	9	CALL 1A NEW	467.950 Mhz	462.950 Mhz	127.3	A
	1	10	CALL 2A NEW	467.975 Mhz	462.975 Mhz	127.3	A
	2	11	MED 1B NEW	468.000 Mhz	463.000 Mhz	146.2	B
	2	12	MED 2B NEW	468.025 Mhz	463.025 Mhz	146.2	B
	2	13	MED 3B NEW	468.050 Mhz	463.050 Mhz	146.2	B
	2	14	MED 4B NEW	468.075 Mhz	463.075 Mhz	146.2	B
	2	15	MED 5B NEW	468.100 Mhz	463.100 Mhz	146.2	B
	2	16	MED 6B NEW	468.125 Mhz	463.125 Mhz	146.2	B
	2	17	MED 7B NEW	468.150 Mhz	463.150 Mhz	146.2	B
	2	18	MED 8B NEW	468.175 Mhz	463.175 Mhz	146.2	B
	2	19	CALL 1B NEW	467.950 Mhz	462.950 Mhz	146.2	B
	2	20	CALL 2B NEW	467.975 Mhz	462.975 Mhz	146.2	B
	3	21	MED 1C NEW	468.000 Mhz	463.000 Mhz	167.9	C
	3	22	MED 2C NEW	468.025 Mhz	463.025 Mhz	167.9	C
	3	23	MED 3C NEW	468.050 Mhz	463.050 Mhz	167.9	C
	3	24	MED 4C NEW	468.075 Mhz	463.075 Mhz	167.9	C
	3	25	MED 5C NEW	468.100 Mhz	463.100 Mhz	167.9	C
	3	26	MED 6C NEW	468.125 Mhz	463.125 Mhz	167.9	C
	3	27	MED 7C NEW	468.150 Mhz	463.150 Mhz	167.9	C
	3	28	MED 8C NEW	468.175 Mhz	463.175 Mhz	167.9	C
	3	29	CALL 1C NEW	467.950 Mhz	462.950 Mhz	167.9	C
	3	30	CALL 2C NEW	467.975 Mhz	462.975 Mhz	167.9	C
	4	31	MED 1D NEW	468.000 Mhz	463.000 Mhz	192.8	D
	4	32	MED 2D NEW	468.025 Mhz	463.025 Mhz	192.8	D
	4	33	MED 3D NEW	468.050 Mhz	463.050 Mhz	192.8	D
	4	34	MED 4D NEW	468.075 Mhz	463.075 Mhz	192.8	D
	4	35	MED 5D NEW	468.100 Mhz	463.100 Mhz	192.8	D
	4	36	MED 6D NEW	468.125 Mhz	463.125 Mhz	192.8	D
	4	37	MED 7D NEW	468.150 Mhz	463.150 Mhz	192.8	D
	4	38	MED 8D NEW	468.175 Mhz	463.175 Mhz	192.8	D
	4	39	CALL 1D NEW	467.950 Mhz	462.950 Mhz	192.8	D
	4	40	CALL 2D NEW	467.975 Mhz	462.975 Mhz	192.8	D
	5	41	UCALL 40	458.2125 Mhz	453.2125 Mhz	156.7	
	5	42	UTAC 41	458.4625 Mhz	453.4625 Mhz	156.7	
	5	43	UTAC 42	458.7125 Mhz	453.7125 Mhz	156.7	

MIEMSS Radio Template							
	Group Number	Channel Number	Channel Name	Tx Frequency (mobile)	Rx Frequency (mobile)	Tone Frequency	Tone Code
e s	5	44	UTAC 43	458.8625 Mhz	453.8625 Mhz	156.7	
	5	45	UCALL 40D	453.2125 Mhz	453.2125 Mhz	156.7	
	5	46	UTAC1 41D	453.4625 Mhz	453.4625 Mhz	156.7	
	5	47	UTAC2 42D	453.7125 Mhz	453.7125 Mhz	156.7	
	5	48	UTAC3 43D	453.8625 Mhz	453.8625 Mhz	156.7	
	5						

Radio Grants for EMS Operational Programs and/or EMS Companies Procedures

- Obtain application from MIEMSS web site or the Regional Offices and complete as per the instructions.
- The application will be reviewed and recommended for approval by the Regional Administrator.
- No Kenwood TK 890 mobile or TK 390 portable radios will be replaced.
- Upon approval of the radio reimbursement grant, MIEMSS will notify the EMS Operational Program and/or company and provide a grant agreement which should be completed and signed.
- Signed and witnessed grant agreements must be returned to MIEMSS, attention Sherry Alban, 653 W. Pratt Street, Baltimore, MD. 21201. When the agreement is received, MIEMSS will create a purchase order for the grant amount. The grantee will receive a copy of the purchase order. No purchases should be made prior to receiving an executed grant agreement.
- Purchase of radios and installation services are the responsibility of the grantee through a contract directly between the vendor and the grantee.
- Purchase of radios and installation services should be under the guidance of the jurisdiction's procurement procedures.
- Should there be any questions regarding terms or radio specifications please contact Sherry Alban, MIEMSS' Finance Director at 410-706-3145.
- Financial responsibility for the purchase of the Radios and Installation Services rests with the grantee. The grantee will be responsible for the full purchase price, and upon completion of procedures listed below, will receive the appropriate grant reimbursement from MIEMSS.
- The grantee must provide MIEMSS with a copy of the invoice for the purchase of the Radio and Installation services and a letter on letterhead requesting reimbursement. The letter should include the Federal I.D. number and the correct address. Please mail to Sherry Alban, Maryland Institute for Emergency Medical Services Systems, 653 West Pratt Street, Baltimore, Maryland 21201.
- Reimbursement will be through MIEMSS' accounts payable process. Once the reimbursement request or invoice is received, a check will be issued within seven to ten days. State agencies may be reimbursed through the RSTARS system.
- Please note that paragraph eight (8) of the Agreement requires written certification of the proper expenditure of grant funds by September 1, 2012.

MIEMSS Radio Grant Program



MIEMSS RADIO COST REIMBURSEMENT GRANT AGREEMENT

EMS COMPANY

This Agreement, entered into effective the date of the last signature, between the Maryland Institute for Emergency Medical Services Systems (“MIEMSS”) located at The Murphy Building, 653 West Pratt Street, Baltimore, Maryland 21201 and [NAME OF EMS COMPANY HERE] (the “Association”) located at _____ is subject to the terms and conditions set forth below.

- 1 Effective on the date of this agreement, MIEMSS is extending to the Association a grant (the “Grant”) as follows:
 - A. [\$1300 x number of ambulances/support vehicles] which shall be used to reimburse the Association for the purchase and installation of [number of radios] mobile radios and supporting materials which meet the following specifications [and which replace a MIEMSS provided Standard Gx3000, Midland or Kenwood TK 830. This grant cannot be used to replace a Kenwood TK 890.] Each mobile radio must be programmed with the MIEMSS approved channel template and installed in a public safety ambulance or support vehicle by a qualified two-way radio dealer in accordance with industry standards without modification and in a manner which affords easy access for maintenance, testing, and repair:
 - i Motorola AAM25RKF9DP6AN CDM1550 UHF Mobile Radio Package, Assembled, Programmed with 80 MED channels and delivered;
 - ii RSN4001A External 13 Watt Speaker;
 - iii HKN9327BR Ignition Switch Cable;
 - iv HLN9242A Connector 16 pin; and
 - v Accessory Kit
 - B. [\$1300 x number of ambulances/support vehicles] which shall be used to reimburse the Association for the purchase and installation of [number of radios] portable radios and supporting materials which meet the following specifications [and which replace a MIEMSS provided Motorola MT 1000 or a Kenwood TK 330. This grant cannot be used to replace a Kenwood TK 390 portable.] Each portable radio must be programmed with the MIEMSS approved channel template:
 - i Kenwood TK-390K portable radio;
 - ii KRA-15 antenna;
 - iii KNB-17A battery; and
 - iv KVC-5A Vehicular DC charger

2. In order to receive payment of the grant amount, the Association must provide MIEMSS with a copy of the invoice for the purchase of _____ and a letter on Association letterhead requesting reimbursement. The letter shall include the Association's Federal I.D. number and correct address, and shall be mailed to Sherry Alban, Director of Finance, Maryland Institute for Emergency Medical Services Systems, 653 West Pratt Street, Baltimore, Maryland 21201. All purchases from the FY 2012 Radio Grant Program must be completed by May 15, 2012. All invoices for MIEMSS reimbursements must be received by May 22, 2012.
3. Any expenditure of Grant funds that is not consistent with the purposes stated in paragraph 1, may, in the unfettered judgment of MIEMSS, be disqualified. Should any expenditure be disqualified or should the Association violate any of the terms of this Agreement, MIEMSS may require repayment to the Maryland Emergency Medical System Operations Fund (the "EMS Fund"), an offset from any State grant to the Association in the current or succeeding fiscal year, and/or take other appropriate action. The Association shall repay to the EMS Fund any part of the Grant which is not used for the purposes stated in paragraph 1 within 2 years after the effective date of this Agreement.
4. Radios purchased in whole or in part with this Grant shall be maintained by the Association to FCC standards and shall not be modified in any fashion from the original manufacture. The radio shall be programmed using the MIEMSS communications frequency template. If such a radio requires repair and has not been abused or modified, it is eligible to be swapped for a radio of similar value from the MIEMSS Communications Department.
5. The Association may not sell, lease, exchange give away or otherwise transfer or dispose of real or personal property or any part of or interest in real or personal property acquired with Grant funds without the prior written consent of MIEMSS. The Association shall give MIEMSS written notice at least 30 days before any such proposed transfer or disposition. Any proceeds from a permitted transfer or disposition shall be applied to repay to the EMS Fund a percentage of that portion of the Grant attributable to the particular real or personal property transferred or disposed of, unless MIEMSS and the Association agree to other terms and conditions. The percentage shall be equal to the percentage of the unadjusted basis of the property that would remain if the property had been recovery property and if all allowable deductions had been taken up to the time of disposition under the Accelerated Cost Recovery System (ACRS) specified in the United States Internal Revenue Code, Section 168(b)(1). MIEMSS shall have the right to make any elections available in connection with that computation.
6. The Association may not discriminate against any employee or applicant for employment because of race, color, religion, sex, national origin or any other

characteristic forbidden as a basis for discrimination by applicable laws. The Association hereby certifies that its Constitution or By-Laws contains a non-discrimination clause consistent with the Governor's Code of Fair Practices.

7. The person executing this Agreement on behalf of the Association certifies, to the best of that person's knowledge and belief, that:
 - A. Neither the Association, nor any of its officers or directors, nor any employee of the Association involved in obtaining contracts with or grants from the State or any subdivision of the State, has engaged in collusion with respect to the Association's application for the Grant or this Agreement or has been convicted of bribery, attempted bribery, or conspiracy under the laws of the United States or any state;
 - B. The Association has not employed or retained any person, partnership, corporation, or other entity, other than a bona fide employee or agent working for the Association, to solicit or secure this Grant or this Agreement, and the Association has not paid or agreed to pay any such entity any fee or other consideration contingent on the making of the Grant or this Agreement;
 - C. The Association, if incorporated, is registered or qualified in accordance with the Maryland Code, Corporations and Associations Article, is in good standing, has filed all required annual reports and filing fees with the Department of Assessments and Taxation and all required tax returns and reports with the Comptroller of the Treasury, the Department of Assessments and Taxation, and the Employment Security Administration, and has paid or arranged for the payment of all taxes due the State;
 - D. No money has been paid to or promised to be paid to any legislative agent, attorney, or lobbyist for any services rendered in securing the passage of legislation establishing or appropriating funds for the Grant; and
 - E. Neither the Association, nor any of its officers or directors, nor any person substantially involved in the contracting or fund raising activities of the Association, is currently suspended or debarred from contracting with the State or any other public entity or subject to debarment under Regulation 21.08.04.04 of the Code of Maryland Regulations.
8. On or before September 1, 2012, the Association shall provide to MIEMSS an itemized statement of expenditures, showing how the funds under this agreement were expended verified by an officer of the Association. The Association shall

retain bills of sale, records and other satisfactory evidence of the acquisition, maintenance and retention of any real or personal property for at least 3 years after the date of this Agreement. MIEMSS, the Maryland Department of Budget and Management, the State Comptroller, and the Legislative Auditor, or any of them, may examine and audit this evidence, on request, at any reasonable time within the retention period. The Association shall notify MIEMSS within 30 days if for any reason the Association is unable to use all or part of the funds extended under Item 1 above so that the funds may be allocated to other EMS providers requesting funds for the purchase of radios or returned to the EMS Fund.

9. The law of Maryland shall govern this Agreement.
10. This Agreement shall bind the respective successors and assigns of the parties.
11. The Association may not sell, transfer, or otherwise assign any of its obligations under this Agreement, or its rights, title, or interest in this Agreement, without the prior written consent of MIEMSS.
12. No amendment to this agreement is binding unless it is in writing and signed by the parties.
13. Unless otherwise terminated hereunder, this Agreement shall terminate twenty years from the effective date or when the radio which is the subject of this Agreement and all swapped replacements are taken out of service.
14. MIEMSS obligations under this Agreement are subject to, limited by, and contingent upon the appropriation, availability, and budgeting of funds to support the MIEMSS Radio Cost Reimbursement Grant program and this Agreement.
15. The provisions of this Agreement which by their nature extend beyond termination of this Agreement shall survive termination of this Agreement.
16. The individual executing this agreement on behalf of the Association represents that he or she is authorized by the Association to do so.

IN TESTIMONY WHEREOF, WITNESS the hands and seals of the parties.

Witness or Attest:

The [NAME OF EMS COMPANY
HERE]

Signature

By: _____
Signature

Printed Name

By: _____
Printed Name

Title: _____

Title: _____

The Maryland Institute for Emergency
Medical Services
Systems

By: _____
Robert R. Bass, M.D.
Executive Director

Approved as to form and legal sufficiency this _____ day of _____, 200_

Assistant Attorney General

MIEMSS RADIO COST REIMBURSEMENT GRANT AGREEMENT
for
COUNTY

This Agreement, entered into effective the date of the last signature, between the Maryland Institute for Emergency Medical Services Systems (“MIEMSS”) located at The Murphy Building, 653 West Pratt Street, Baltimore, Maryland 21201 and _____ (the “County”) located at _____ is subject to the terms and conditions set forth below.

1 Effective on the date of this agreement, MIEMSS is extending to the County a grant (the “Grant”) as follows:

A. [\$1300 x number of ambulances/support vehicles] which shall be used to reimburse the County for the purchase and installation of [number of radios] mobile radios and supporting materials which meet the following specifications [and which replace a MIEMSS provided Standard Gx3000, Midland or Kenwood TK 830. This grant cannot be used to replace a Kenwood TK 890.] Each mobile radio must be programmed with the MIEMSS approved channel template and installed in a public safety ambulance or support vehicle by a qualified two-way radio dealer in accordance with industry standards without modification and in a manner which affords easy access for maintenance, testing, and repair:

- i Motorola AAM25RKF9DP6AN CDM1550 UHF Mobile Radio Package, Assembled, Programmed with 80 MED channels and delivered;
- ii RSN4001A External 13 Watt Speaker;
- iii HKN9327BR Ignition Switch Cable;
- iv HLN9242A Connector 16 pin; and
- v Accessory Kit

B. [\$1300 x number of ambulances/support vehicles] which shall be used to reimburse the County for the purchase and installation of [number of radios] portable radios and supporting materials which meet the following specifications [and which replace a MIEMSS provided Motorola MT 1000 or a Kenwood TK 330. This grant cannot be used to replace a Kenwood TK 390 portable.] Each portable radio must be programmed with the MIEMSS approved channel template:

- i Kenwood TK-390K portable radio;
- ii KRA-15 antenna;
- iii KNB-17A battery; and
- iv KVC-5A Vehicular DC charger

- 2 In order to receive payment of the grant amount, the County must provide MIEMSS with a copy of the invoice for the purchase of _____ and a letter on County letterhead requesting reimbursement. The letter shall include the County's Federal I.D. number and correct address, and shall be mailed to Sherry Alban, Director of Finance, Maryland Institute for Emergency Medical Services Systems, 653 West Pratt Street, Baltimore, Maryland 21201. All purchases from the FY 2012 Radio Grant Program must be completed by May 15, 2012. All invoices for MIEMSS reimbursements must be received by May 22, 2012.
- 3 Any expenditure of Grant funds that is not consistent with the purposes stated in paragraph 1, may, in the unfettered judgment of MIEMSS, be disqualified. Should any expenditure be disqualified or should the County violate any of the terms of this Agreement, MIEMSS may require repayment to the Maryland Emergency Medical System Operations Fund (the "EMS Fund"), an offset from any State grant to the County in the current or succeeding fiscal year, and/or take other appropriate action. The County shall repay to the EMS Fund any part of the Grant which is not used for the purposes stated in paragraph 1 within 2 years after the effective date of this Agreement.
- 4 Radios purchased in whole or in part with this Grant shall be maintained by the County to FCC standards and shall not be modified in any fashion from the original manufacture. The radio shall be programmed using the MIEMSS communications frequency template. If such a radio requires repair and has not been abused or modified, it is eligible to be swapped for a radio of similar value from the MIEMSS Communications Department.
- 5 The County may not sell, lease, exchange give away or otherwise transfer or dispose of real or personal property or any part of or interest in real or personal property acquired with Grant funds without the prior written consent of MIEMSS. The County shall give MIEMSS written notice at least 30 days before any such proposed transfer or disposition. Any proceeds from a permitted transfer or disposition shall be applied to repay to the EMS Fund a percentage of that portion of the Grant attributable to the particular real or personal property transferred or disposed of, unless MIEMSS and the County agree to other terms and conditions. The percentage shall be equal to the percentage of the unadjusted basis of the property that would remain if the property had been recovery property and if all allowable deductions had been taken up to the time of disposition under the Accelerated Cost Recovery System (ACRS) specified in the United States Internal Revenue Code, Section 168(b)(1). MIEMSS shall have the right to make any elections available in connection with that computation.
- 6 The County may not discriminate against any employee or applicant for employment because of race, color, religion, sex, national origin or any other characteristic forbidden as a basis for discrimination by applicable laws. The County hereby certifies that its Constitution or By-Laws contains a non-discrimination clause consistent with the Governor's Code of Fair Practices.

- 7 The person executing this Agreement on behalf of the County certifies, to the best of that person's knowledge and belief, that:
- A. Neither the County, nor any of its officers or directors, nor any employee of the County involved in obtaining contracts with or grants from the State or any subdivision of the State, has engaged in collusion with respect to the County's application for the Grant or this Agreement or has been convicted of bribery, attempted bribery, or conspiracy under the laws of the United States or any state;
 - B. The County has not employed or retained any person, partnership, corporation, or other entity, other than a bona fide employee or agent working for the County, to solicit or secure this Grant or this Agreement, and the County has not paid or agreed to pay any such entity any fee or other consideration contingent on the making of the Grant or this Agreement;
 - C. No money has been paid to or promised to be paid to any legislative agent, attorney, or lobbyist for any services rendered in securing the passage of legislation establishing or appropriating funds for the Grant; and
 - D. Neither the County, nor any of its officers or directors, nor any person substantially involved in the contracting or fund raising activities of the County, is currently suspended or debarred from contracting with the State or any other public entity or subject to debarment under Regulation 21.08.04.04 of the Code of Maryland Regulations.
8. On or before September 1, 2012, the County shall provide to MIEMSS an itemized statement of expenditures, showing how the funds under this agreement were expended verified by an officer of the County. The County shall retain bills of sale, records and other satisfactory evidence of the acquisition, maintenance and retention of any real or personal property for at least 3 years after the date of this Agreement. MIEMSS, the Maryland Department of Budget and Management, the State Comptroller, and the Legislative Auditor, or any of them, may examine and audit this evidence, on request, at any reasonable time within the retention period. The County shall notify MIEMSS within 30 days if for any reason the County is unable to use all or part of the funds extended under Item 1 above so that the funds may be allocated to other EMS providers requesting funds for the purchase of radios or returned to the EMS Fund.
9. The law of Maryland shall govern this Agreement.
10. This Agreement shall bind the respective successors and assigns of the parties.

11. The County may not sell, transfer, or otherwise assign any of its obligations under this Agreement, or its rights, title, or interest in this Agreement, without the prior written consent of MIEMSS.
12. No amendment to this agreement is binding unless it is in writing and signed by the parties.
13. Unless otherwise terminated hereunder, this Agreement shall terminate twenty years from the effective date or when the radio which is the subject of this Agreement and all swapped replacements are taken out of service.
14. MIEMSS obligations under this Agreement are subject to, limited by, and contingent upon the appropriation, availability, and budgeting of funds to support the MIEMSS Radio Cost Reimbursement Grant program and this Agreement.
15. The provisions of this Agreement which by their nature extend beyond termination of this Agreement shall survive termination of this Agreement.
16. The individual executing this agreement on behalf of the County represents that he or she is authorized by the County to do so.

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IN TESTIMONY WHEREOF, WITNESS the hands and seals of the parties.

Witness or Attest:

The [name of County Here]

Signature

By: _____
Signature

Printed Name

By: _____
Printed Name

Title: _____

Title: _____

The Maryland Institute for Emergency
Medical Services
Systems

By: _____
Robert R. Bass, M.D.
Executive Director

Approved as to form and legal sufficiency this _____ day of _____, 200_

Assistant Attorney General

MIEMSS Radio Template

Group Number	Channel Number	Mobile Channel Name	Tx Frequency (mobile)	Rx Frequency (mobile)	Tone Frequency	Tone Code	Portable Channel Name
Channels 1-100 Reserved							
1 2 5 k H z N a r r o w B a n d C h a n n e l s	5	101	101 MED 1A NEW	468.000 Mhz	463.000 Mhz	127.3	A MED1A N
	5	102	102 MED 2A NEW	468.025 Mhz	463.025 Mhz	127.3	A MED2A N
	5	103	103 MED 3A NEW	468.050 Mhz	463.050 Mhz	127.3	A MED3A N
	5	104	104 MED 4A NEW	468.075 Mhz	463.075 Mhz	127.3	A MED4A N
	5	105	105 MED 5A NEW	468.100 Mhz	463.100 Mhz	127.3	A MED5A N
	5	106	106 MED 6A NEW	468.125 Mhz	463.125 Mhz	127.3	A MED6A N
	5	107	107 MED 7A NEW	468.150 Mhz	463.150 Mhz	127.3	A MED7A N
	5	108	108 MED 8A NEW	468.175 Mhz	463.175 Mhz	127.3	A MED8A N
	5	109	109 CALL 1A NEW	467.950 Mhz	462.950 Mhz	127.3	A CAL1A N
	5	110	110 CALL 2A NEW	467.975 Mhz	462.975 Mhz	127.3	A CAL2A N
	6	111	111 MED 1B NEW	468.000 Mhz	463.000 Mhz	146.2	B MED1B N
	6	112	112 MED 2B NEW	468.025 Mhz	463.025 Mhz	146.2	B MED2B N
	6	113	113 MED 3B NEW	468.050 Mhz	463.050 Mhz	146.2	B MED3B N
	6	114	114 MED 4B NEW	468.075 Mhz	463.075 Mhz	146.2	B MED4B N
	6	115	115 MED 5B NEW	468.100 Mhz	463.100 Mhz	146.2	B MED5B N
	6	116	116 MED 6B NEW	468.125 Mhz	463.125 Mhz	146.2	B MED6B N
	6	117	117 MED 7B NEW	468.150 Mhz	463.150 Mhz	146.2	B MED7B N
	6	118	118 MED 8B NEW	468.175 Mhz	463.175 Mhz	146.2	B MED8B N
	6	119	119 CALL 1B NEW	467.950 Mhz	462.950 Mhz	146.2	B CAL1B N
	6	120	120 CALL 2B NEW	467.975 Mhz	462.975 Mhz	146.2	B CAL2B N
	7	121	121 MED 1C NEW	468.000 Mhz	463.000 Mhz	167.9	C MED1C N
	7	122	122 MED 2C NEW	468.025 Mhz	463.025 Mhz	167.9	C MED2C N
	7	123	123 MED 3C NEW	468.050 Mhz	463.050 Mhz	167.9	C MED3C N
	7	124	124 MED 4C NEW	468.075 Mhz	463.075 Mhz	167.9	C MED4C N
	7	125	125 MED 5C NEW	468.100 Mhz	463.100 Mhz	167.9	C MED5C N
	7	126	126 MED 6C NEW	468.125 Mhz	463.125 Mhz	167.9	C MED6C N
	7	127	127 MED 7C NEW	468.150 Mhz	463.150 Mhz	167.9	C MED7C N
	7	128	128 MED 8C NEW	468.175 Mhz	463.175 Mhz	167.9	C MED8C N
	7	129	129 CALL 1C NEW	467.950 Mhz	462.950 Mhz	167.9	C CAL1C N
	7	130	130 CALL 2C NEW	467.975 Mhz	462.975 Mhz	167.9	C CAL2C N
	8	131	131 MED 1D NEW	468.000 Mhz	463.000 Mhz	192.8	D MED1D N
	8	132	132 MED 2D NEW	468.025 Mhz	463.025 Mhz	192.8	D MED2D N
	8	133	133 MED 3D NEW	468.050 Mhz	463.050 Mhz	192.8	D MED3D N
	8	134	134 MED 4D NEW	468.075 Mhz	463.075 Mhz	192.8	D MED4D N
	8	135	135 MED 5D NEW	468.100 Mhz	463.100 Mhz	192.8	D MED5D N
	8	136	136 MED 6D NEW	468.125 Mhz	463.125 Mhz	192.8	D MED6D N
	8	137	137 MED 7D NEW	468.150 Mhz	463.150 Mhz	192.8	D MED7D N
	8	138	138 MED 8D NEW	468.175 Mhz	463.175 Mhz	192.8	D MED8D N
	8	139	139 CALL 1D NEW	467.950 Mhz	462.950 Mhz	192.8	D CAL1D N
	8	140	140 CALL 2D NEW	467.975 Mhz	462.975 Mhz	192.8	D CAL2D N
	9	151	151 UCALL 40	458.2125 Mhz	453.2125 Mhz	156.7	UCALL40
	9	152	152 UTAC 41	458.4625 Mhz	453.4625 Mhz	156.7	UTAC41
	9	153	153 UTAC 42	458.7125 Mhz	453.7125 Mhz	156.7	UTAC42
	9	154	154 UTAC 43	458.8625 Mhz	453.8625 Mhz	156.7	UTAC43
	9	155	155 UCALL 40D	453.2125 Mhz	453.2125 Mhz	156.7	UCALL40D
	9	156	156 UTAC1 41D	453.4625 Mhz	453.4625 Mhz	156.7	UTAC41D
	9	157	157 UTAC2 42D	453.7125 Mhz	453.7125 Mhz	156.7	UTAC42D
	9	158	158 UTAC3 43D	453.8625 Mhz	453.8625 Mhz	156.7	UTAC43D

Narrowbanding FAQ

- *I have a narrowband capable radio, am I ready?* If you have a narrowband capable radio, you must verify that it is loaded with the MIEMSS Radio Template. The easiest way to determine this is to see if you have the UTAC channels in your radio. These would be located in the UTAC group or channels 151 to 156.
- *Why do I need all of the channels specified on the MIEMSS Radio Template and can I remove the ones that I will never use?* The MIEMSS Radio Template was established to create interoperability in the State of Maryland and it is a requirement to have all of the channels in order to receive reimbursement under the grant program. In addition, MIEMSS will be re-assigning channels in some areas during the conversion.
- *Will there be funding available after June 30, 2012?* No, the grant period ends June 30th and the funding will be exhausted
- *Will I be able to operate a non-narrowband radio after January 1, 2013?* It will be in violation of Federal law to operate a radio in a non-narrowband mode and Federal fines will be assessed to the user after January 1, 2013.
- *Will I be able to operate in a wideband mode after the region has been converted to narrowband?* Operation in a wideband mode after the region has been converted will result in distorted audio to the hospitals and low audio from the hospitals. It will be illegal to operate in the wideband mode after January 1, 2013.
- *What happens to the wideband channels in the radio after January 1, 2013?* MIEMSS will remove the old wideband channels during the Volunteer Ambulance inspections and other targets of opportunity. There is currently no established funding source to remove these from every radio.
- *Does MIEMSS buy and install the radios?* No, MIEMSS has established a 100 percent reimbursable grant program. It is each jurisdictional EMSOP's (county or individual company) responsibility to procure the radio and have it installed. In order to receive reimbursement, you must follow the grant rules.
- *We operate off a county 800 MHz radio system for EMS communications, so why do I need a UHF radio?* MIEMSS encourages all jurisdictions to maintain the UHF radio capability to provide for interoperability in all jurisdictions. In addition, the MIEMSS provided radio is installed in the patient care compartment where typically county radios are not installed and poor portable coverage is to be expected.
- *If I get a replacement unit, will MIEMSS provide a radio?* If the vehicle being replaced has a narrowband capable radio installed, that radio would be relocated into the new vehicle. If the vehicle being replaced does not have a narrowband capable radio, then the new vehicle is eligible for a new radio under the Narrowband Radio Grant program.

Narrowbanding FAQ

- *If I get an additional unit, will MIEMSS provide a radio through the grant process?* If an additional unit is obtained to enlarge the field provider's fleet, the field provider may apply for a radio through the Narrowband Radio grant program through June 30, 2012.
- *Can I add additional channels to the programming?* Additional channels are allowed in channels 51-100 for interoperability with hospitals outside of Maryland.
- *Can I purchase a different model or manufacture's radio under the MIEMSS Radio Grant?*
No
- *Where must the radio provided under the MIEMSS Radio Grant be located?* The patient care compartment of the vehicle is the only acceptable location for the radio supplied through the grant program.
- *Do I need to license or need to update a license for the change to narrowband?* While operating in Maryland on the MIEMSS UHF Radio Systems the user is operating under licenses held by MIEMSS. MIEMSS is currently in the process of updating all licenses to support the narrowband transition and no action is needed on the part of the EMSOP.
- *How can I identify if my radio is narrowband capable?* See the pictures below for the acceptable narrowband capable radios. If you do not have one of these radios, you should contact your Regional Administrator. Note: MIEMSS has deployed two styles of Kenwood mobiles; the acceptable radio has a round microphone connector with an attachment screw.

Narrowband Capable Mobile and Portable Radios

