

Federal Communications Commission

§ 90.531

registered with the Commission prior to construction under §17.4 of this chapter.

(c) Mobile and portable devices may operate without individual license under the authority of the Public Safety Broadband License.

(d) The term of the Public Safety Broadband License shall not exceed ten years from June 13, 2009. The Public Safety Broadband Licensee is entitled to a renewal expectancy barring violations of law, rules or policy warranting denial of renewal.

(e) The Public Safety Broadband License may not be partitioned or disaggregated.

(f) The Public Safety Broadband Licensee may not voluntarily assign or transfer control of the Public Safety Broadband License.

(g) *Quarterly reporting of financial and operational information.* The Public Safety Broadband Licensee shall submit, on a quarterly basis, a full financial accounting to the Commission, in a format to be set forth in the Network Sharing Agreement, and as approved by the Commission. Such quarterly financial reports shall be filed with the Commission, with a copy to the Chiefs of the Wireless Telecommunications and the Public Safety and Homeland Security Bureaus.

[72 FR 48860, Aug. 24, 2007, as amended at 74 FR 8879, Feb. 27, 2009]

§ 90.529 State License.

(a) Narrowband channels designated as state channels in §90.531 are licensed to each state (as defined in §90.7) as follows:

(1) Each state that chooses to take advantage of the spectrum designated as state channels must file an application for up to 2.4 megahertz of this spectrum no later than December 31, 2001. For purposes of this section, the elected chief executive (Governor) of each state, or his or her designee, shall be deemed the person authorized to apply for the State License.

(2) What ever part of this 2.4 megahertz that a state has not applied for by December 31, 2001, will revert to General Use and be administered by the relevant RPC (or RPCs in the instances of states that encompass multiple RPCs).

(b) Each state license will be granted subject to the condition that the state certifies on or before each applicable benchmark date that it is:

(1) providing or prepared to provide "substantial service" to one-third of their population or territory by January 1, 2012, *i.e.*, within five years of the date that incumbent broadcasters are required to relocate to other portions of the spectrum;

(2) providing or prepared to provide "substantial service" to two-thirds of their population or territory by January 1, 2017, *i.e.*, within ten years of the date that incumbent broadcasters are required to relocate to other portions of the spectrum.

(c) The Commission will deem a state "prepared to provide substantial service" if the licensee certifies that a radio system has been approved and funded for implementation by the deadline date. "Substantial service" refers to the construction and operation of 700 MHz facilities by public safety entities providing service which is sound, favorable, and substantially above a level of mediocre service which just might minimally warrant renewal.

(d) If a state licensee fails to meet any condition of the grant the state license is modified automatically to the frequencies and geographic areas where the state certifies that it is providing substantial service.

(e) Any recovered state license spectrum will revert to General Use. However, spectrum licensed to a state under a state license remains unavailable for reassignment to other applicants until the Commission's database reflects the parameters of the modified state license.

[65 FR 66654, Nov. 7, 2000]

§ 90.531 Band plan.

This section sets forth the band plan for the 763-775 MHz and 793-805 MHz public safety bands.

(a) *Base and mobile use.* The 763-775 MHz band may be used for base, mobile or fixed (repeater) transmissions. The 793-805 MHz band may be used only for mobile or fixed (control) transmissions.

(b) *Narrowband segments.* There are two band segments that are designated for use with narrowband emissions. Each of these narrowband segments is

divided into 960 channels having a channel size of 6.25 kHz as follows:

Frequency range	Channel Nos.
769–775 MHz	1–960
799–805 MHz	961–1920

(1) *Narrowband interoperability channels.* The following narrowband channels are designated for nationwide interoperability licensing and use: 23, 24, 39, 40, 63, 64, 79, 80, 103, 104, 119, 120, 143, 144, 159, 160, 183, 184, 199, 200, 223, 224, 239, 240, 263, 264, 279, 280, 303, 304, 319, 320, 641, 642, 657, 658, 681, 682, 697, 698, 721, 722, 737, 738, 761, 762, 777, 778, 801, 802, 817, 818, 841, 842, 857, 858, 881, 882, 897, 898, 921, 922, 937, 938, 983, 984, 999, 1000, 1023, 1024, 1039, 1040, 1063, 1064, 1079, 1080, 1103, 1104, 1119, 1120, 1143, 1144, 1159, 1160, 1183, 1184, 1199, 1200, 1223, 1224, 1239, 1240, 1263, 1264, 1279, 1280, 1601, 1602, 1617, 1618, 1641, 1642, 1657, 1658, 1681, 1682, 1697, 1698, 1721, 1722, 1737, 1738, 1761, 1762, 1777, 1778, 1801, 1802, 1817, 1818, 1841, 1842, 1857, 1858, 1881, 1882, 1897, 1898.

(i) *Narrowband data Interoperability channels.* The following channel pairs are reserved nationwide for the express purpose of data transmission only: 279/1239, 280/1240, 921/1881, and 922/1882.

(ii) *Narrowband calling Interoperability channels.* The following channel pairs are dedicated nationwide for the express purpose of *Interoperability* calling only: 39/999, 40/1000, 681/1641, and 682/1642. They may not be used primarily for routine, day-to-day communications. Encryption is prohibited on the designated calling channels.

(iii) *Narrowband trunking Interoperability channels.* The following Interoperability channel pairs may be combined with the appropriate adjacent secondary trunking channel pairs and used in trunked mode on a secondary basis to conventional Interoperability operations: 23/983, 24/984, 103/1063, 104/1064, 183/1143, 184/1144, 263/1223, 264/1224, 657/1617, 658/1618, 737/1697, 738/1698, 817/1777, 818/1778, 897/1857, 898/1858. For every ten general use channels trunked at a station, entities may obtain a license to operate in the trunked mode on two of the above contiguous Interoperability channel pairs. The maximum number of Interoperability channel pairs that can be trunked at any one location is eight.

(2) *Narrowband reserve channels.* The following narrowband channels are undesignated and reserved: 37, 38, 61, 62, 77, 78, 117, 118, 141, 142, 157, 158, 197, 198, 221, 222, 237, 238, 277, 278, 301, 302, 317, 318, 643, 644, 683, 684, 699, 700, 723, 724, 763, 764, 779, 780, 803, 804, 843, 844, 859, 860, 883, 884, 923, 924, 939, 940, 997, 998, 1021, 1022, 1037, 1038, 1077, 1078, 1101, 1102, 1117, 1118, 1157, 1158, 1181, 1182, 1197, 1198, 1237, 1238, 1261, 1262, 1277, 1278, 1603, 1604, 1643, 1644, 1659, 1660, 1683, 1684, 1723, 1724, 1739, 1740, 1763, 1764, 1803, 1804, 1819, 1820, 1843, 1844, 1883, 1884, 1899, 1900.

(3) *Narrowband low power channels subject to regional planning.* The following narrowband channels are designated for low power use for on-scene incident response purposes using mobiles and portables subject to Commission-approved regional planning committee regional plans. Transmitter power must not exceed 2 watts (ERP): Channels 1–8 paired with Channels 961–968, and Channels 949–958 paired with Channels 1909–1918.

(4) *Narrowband low power itinerant channels.* The following narrowband channels are designated for low power use for on-scene incident response purposes using mobiles and portables. These channels are licensed nationwide for itinerant operation. Transmitter power must not exceed 2 watts (ERP): Channels 9–12 paired with Channels 969–972 and Channels 959–960 paired with Channels 1919–1920.

(5) *Narrowband state channels.* The following narrowband channels are designated for direct licensing to each state (including U.S. territories, districts, and possessions): 25–36, 65–76, 105–116, 145–156, 185–196, 225–236, 265–276, 305–316, 645–656, 685–696, 725–736, 765–776, 805–816, 845–856, 885–896, 925–936, 985–996, 1025–1036, 1065–1076, 1105–1116, 1145–1156, 1185–1196, 1225–1236, 1265–1276, 1605–1616, 1645–1656, 1685–1696, 1725–1736, 1765–1776, 1805–1816, 1845–1856, 1885–1896. Voice operations on these channels are subject to compliance with the spectrum usage efficiency requirements set forth in § 90.535(d).

(6) *Narrowband general use channels.* All narrowband channels established in paragraph (b) of this section, other than those listed in paragraphs (b)(1), (b)(2), (b)(4) and (b)(5) of this section

are designated to public safety eligible subject to Commission approved regional planning committee regional plans. Voice operations on these channels are subject to compliance with the spectrum usage efficiency requirements set forth in §90.535(d).

(7) *Secondary trunking channels.* The following channel pairs are reserved for secondary trunking operations: 21/981, 22/982, 101/1061, 102/1062, 181/1141, 182/1142, 261/1221, 262/1222, 659/1619, 660/1620, 739/1699, 740/1700, 819/1779, 820/1780, 899/1859, and 900/1860. They may be used only in combination with the appropriate adjacent Interoperability channel pairs specified in paragraph (b)(1)(iii) of this section in trunked systems.

(c) [Reserved]

(d) *Combining channels.* Except as noted in this section, at the discretion of the appropriate regional planning committee, contiguous channels may be used in combination in order to accommodate requirements for larger bandwidth emissions, in accordance with this paragraph. Interoperability channels may not be combined with channels in another group except for channels for secondary trunking channels.

(1) *Narrowband.* Subject to compliance with the spectrum usage efficiency requirements set forth in §90.535, two or four contiguous narrowband (6.25 kHz) channels may be used in combination as 12.5 kHz or 25 kHz channels, respectively. The lower (in frequency) channel for two channel combinations must be an odd (*i.e.*, 1, 3, 5 * * *) numbered channel. The lowest (in frequency) channel for four channel combinations must be a channel whose number is equal to $1+(4xn)$, where n = any integer between 0 and 479, inclusive (*e.g.*, channel number 1, 5, * * * 1917). Channel combinations are designated by the lowest and highest channel numbers separated by a hyphen, *e.g.*, "1-2" for a two channel combination and "1-4" for a four channel combination.

(2) [Reserved]

(e) *Channel pairing.* In general, channels must be planned and assigned in base/mobile pairs that are separated by 30 MHz. However, until December 31, 2006, channels other than those listed in paragraphs (b)(1) and (c)(1), may be

planned and assigned in base/mobile pairs having a different separation, where necessary because 30 MHz base/mobile pairing is precluded by the presence of one or more co-channel or adjacent channel TV/DTV broadcast stations.

(f) *Internal guard band.* The internal guard band (768-769/798-799 MHz) is reserved.

(g) *Broadband.* The 763-768 MHz and 793-798 MHz bands are allocated for broadband communications pursuant to the Public Safety Broadband License.

[63 FR 58651, Nov. 2, 1998, as amended at 65 FR 66654, Nov. 7, 2000; 66 FR 10635, 10636, Feb. 16, 2001; 67 FR 61005, Sept. 27, 2002; 67 FR 76700, Dec. 13, 2002; 72 FR 48860, Aug. 24, 2007]

§90.533 Transmitting sites near the U.S./Canada or U.S./Mexico border.

This section applies to each license to operate one or more public safety transmitters in the 763-775 MHz and 793-805 MHz bands, at a location or locations North of Line A (*see* §90.7) or within 120 kilometers (75 miles) of the U.S.-Mexico border, until such time as agreements between the government of the United States and the government of Canada or the government of the United States and the government of Mexico, as applicable, become effective governing border area non-broadcast use of these bands. Public safety licenses are granted subject to the following conditions:

(a) Public safety transmitters operating in the 763-775 MHz and 793-805 MHz bands must conform to the limitations on interference to Canadian television stations contained in agreement(s) between the United States and Canada for use of television channels in the border area.

(b) Public safety facilities must accept any interference that may be caused by operations of UHF television broadcast transmitters in Canada and Mexico.

(c) Conditions may be added during the term of the license, if required by the terms of international agreements between the government of the United States and the government of Canada or the government of the United States and the government of Mexico, as applicable, regarding non-broadcast use

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of the 763–775 MHz and 793–805 MHz bands.

[43 FR 54791, Nov. 22, 1978, as amended at 67 FR 76700, Dec. 13, 2002; 72 FR 48861, Aug. 24, 2007]

§ 90.535 Modulation and spectrum usage efficiency requirements.

Transmitters designed to operate in 769–775 MHz and 799–805 MHz frequency bands must meet the following modulation standards:

(a) All transmitters in the 769–775 MHz and 799–805 MHz frequency bands must use digital modulation. Mobile and portable transmitters may have analog modulation capability only as a secondary mode in addition to its primary digital mode. Mobile and portable transmitters that only operate on the low power channels designated in §§ 90.531(b)(3), 90.531(b)(4), are exempt from this digital modulation requirement.

(b) Transmitters designed to operate in the narrowband segment using digital modulation must be capable of maintaining a minimum data (non-voice) rate of 4.8 kbps per 6.25 kHz of bandwidth.

(c) Transmitters designed to operate in the wideband segment using digital modulation must be capable of maintaining a minimum data (non-voice) rate of 384 kbps per 150 kHz of bandwidth.

(d) The following provisions apply to licensees operating in the channels designated in § 90.531(b)(5) or § 90.531(b)(6).

(1) With the exception of licensees designated in paragraph (d)(2) of this section, after December 31, 2014, licensees may only operate in voice mode in these channels at a voice efficiency of at least one voice path per 6.25 kHz of spectrum bandwidth.

(2) Licensees authorized to operate systems in the voice mode on these channels from applications filed on or before December 31, 2014, may continue operating in voice mode on these channels (including modification applications of such licenses granted after December 31, 2014, for expansion or maintenance of such systems) at a voice efficiency of at least one voice path per 12.5 kHz of spectrum bandwidth until December 31, 2016.

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(3) The licensees designated in paragraph (d)(2) of this section must, no later than January 31, 2017, file a declaration through the Universal Licensing System that they are operating these channels at a voice efficiency of at least one voice path per 6.25 kHz of spectrum bandwidth.

[63 FR 58651, Nov. 2, 1998, as amended at 65 FR 53645, Sept. 5, 2000; 65 FR 66655, Nov. 7, 2000; 67 FR 76701, Dec. 13, 2002; 70 FR 21673, Apr. 27, 2005; 72 FR 48861, Aug. 24, 2007]

§ 90.537 Trunking requirement.

(a) *General use channels.* All systems using six or more narrowband channels in the 769–775 MHz and 799–805 MHz frequency bands must be trunked systems, except for those described in paragraph (b) of this section.

(b) *Interoperability channels.* Trunking is permitted only on Interoperability channels specified in § 90.531(b)(1)(iii). Trunked use must be strictly on a secondary, non-interference basis to conventional operations. The licensee must monitor and immediately release these channels when they are needed for interoperability purposes.

[66 FR 10636, Feb. 16, 2001, as amended at 72 FR 48861, Aug. 24, 2007]

§ 90.539 Frequency stability.

Transmitters designed to operate in 769–775 MHz and 799–805 MHz frequency bands must meet the frequency stability requirements in this section.

(a) Mobile, portable and control transmitters must normally use automatic frequency control (AFC) to lock on to the base station signal.

(b) The frequency stability of base transmitters operating in the narrowband segment must be 100 parts per billion or better.

(c) The frequency stability of mobile, portable, and control transmitters operating in the narrowband segment must be 400 parts per billion or better when AFC is locked to the base station. When AFC is not locked to the base station, the frequency stability must be at least 1.0 ppm for 6.25 kHz, 1.5 ppm for 12.5 kHz (2 channel aggregate), and 2.5 ppm for 25 kHz (4 channel aggregate).

(d) The frequency stability of base transmitters operating in the wideband

A CONTRACT BETWEEN
HOUSTON-GALVESTON AREA COUNCIL
Houston, Texas
AND
MOTOROLA SOLUTIONS, INC.
Farmers Branch, Texas

This Contract is made and entered into by the **Houston-Galveston Area Council of Governments**, hereinafter referred to as **H-GAC**, having its principal place of business at 3555 Timmons Lane, Suite 120, Houston, Texas 77027, AND, **Motorola Solutions, Inc.** hereinafter referred to as the **CONTRACTOR**, having its principal place of business at Park West C-2, 1507 LBJ Freeway, Farmers Branch, Texas 75234.

ARTICLE 1: **SCOPE OF SERVICES**

The parties have entered into a **Radio Communication/Emergency Response & Mobile Interoperability Equipment** Contract to become effective as of May 1, 2012, and to continue through April 30, 2015 (the "**Contract**"), subject to extension upon mutual agreement of the **CONTRACTOR** and **H-GAC**. **H-GAC** enters into the Contract as Agent for participating governmental agencies, each hereinafter referred to as **END USER**, for the purchase of **Radio Communication/Emergency Response & Mobile Interoperability Equipment** offered by the **CONTRACTOR**. The **CONTRACTOR** agrees to sell **Radio Communication/Emergency Response & Mobile Interoperability Equipment** through the **H-GAC** Contract to **END USERS**.

ARTICLE 2: **THE COMPLETE AGREEMENT**

The Contract shall consist of the documents identified below in order of precedence:

1. The text of this Contract form, including but not limited to, Attachment A
2. General Terms and Conditions
3. Proposal Specifications No: **RA05-12**, including any relevant suffixes
4. **CONTRACTOR's** Response to Proposal No: **RA05-12**, including but not limited to, prices and options offered

All of which are either attached hereto or incorporated by reference and hereby made a part of this Contract, and shall constitute the complete agreement between the parties hereto. This Contract supersedes any and all oral or written agreements between the parties relating to matters herein. Except as otherwise provided herein, this Contract cannot be modified without the written consent of both parties.

ARTICLE 3: **LEGAL AUTHORITY**

CONTRACTOR and **H-GAC** warrant and represent to each other that they have adequate legal counsel and authority to enter into this Contract. The governing bodies, where applicable, have authorized the signatory officials to enter into this Contract and bind the parties to the terms of this Contract and any subsequent amendments thereto.

ARTICLE 4: **APPLICABLE LAWS**

The parties agree to conduct all activities under this Contract in accordance with all applicable rules, regulations, directives, issuances, ordinances, and laws in effect or promulgated during the term of this Contract.

ARTICLE 5: **INDEPENDENT CONTRACTOR**

The execution of this Contract and the rendering of services prescribed by this Contract do not change the independent status of **H-GAC** or **CONTRACTOR**. No provision of this Contract or act of **H-GAC** in performance of this Contract shall be construed as making **CONTRACTOR** the agent, servant or employee of **H-GAC**, the State of Texas or the United States Government. Employees of **CONTRACTOR** are subject to the exclusive control and supervision of **CONTRACTOR**. **CONTRACTOR** is solely responsible for employee payrolls and claims arising therefrom.

ARTICLE 6: **END USER AGREEMENTS**

H-GAC acknowledges that the **END USER** may choose to enter into an End User Agreement with the **CONTRACTOR** through this Contract and that the term of said Agreement may exceed the term of the **H-GAC** Contract. However this acknowledgement is not to be construed as **H-GAC's** endorsement or approval of the End User Agreement terms and conditions. **CONTRACTOR** agrees not to offer to, agree to or accept from **END USER** any terms or conditions that conflict with or contravene those in **CONTRACTOR's H-GAC** contract. Further, termination of this Contract for any reason shall not result in the termination of the underlying End User Agreements entered into between **CONTRACTOR** and any **END USER** which shall, in each instance, continue pursuant to their stated terms and duration. The only effect of termination of this Contract is that **CONTRACTOR** will no longer be able to enter into any new End User Agreements with **END USERS** pursuant to this Contract. Applicable **H-GAC** order processing charges will be due and payable to **H-GAC** on any End User Agreements surviving termination of this Contract between **H-GAC** and **CONTRACTOR**.

ARTICLE 7: SUBCONTRACTS & ASSIGNMENTS

CONTRACTOR agrees not to subcontract, assign, transfer, convey, sublet or otherwise dispose of this Contract or any right, title, obligation or interest it may have therein to any third party without prior written notice to **H-GAC**. **H-GAC** reserves the right to accept or reject any such change. **CONTRACTOR** shall continue to remain responsible for all performance under this Contract regardless of any subcontract or assignment. **H-GAC** shall be liable solely to **CONTRACTOR** and not to any of its Subcontractors or Assignees.

ARTICLE 8: EXAMINATION AND RETENTION OF CONTRACTOR'S RECORDS

CONTRACTOR shall maintain during the course of its work, complete and accurate records of items that are chargeable to **END USER** under this Contract. **H-GAC**, through its staff or its designated public accounting firm, the State of Texas, or the United States Government shall have the right at any reasonable time to inspect copy and audit those records on or off the premises of **CONTRACTOR**. Failure to provide access to records may be cause for termination of this Contract. **CONTRACTOR** shall maintain all records pertinent to this Contract for a period of not less than five (5) calendar years from the date of acceptance of the final contract closeout and until any outstanding litigation, audit or claim has been resolved. The right of access to records is not limited to the required retention period, but shall last as long as the records are retained. **CONTRACTOR** further agrees to include in all subcontracts under this Contract, a provision to the effect that the subcontractor agrees that **H-GAC'S** duly authorized representatives, shall, until the expiration of five (5) calendar years after final payment under the subcontract or until all audit findings have been resolved, have access to, and the right to examine and copy any directly pertinent books, documents, papers, invoices and records of such subcontractor involving any transaction relating to the subcontract. To the extent allowed by law, nothing contained herein shall authorize **H-GAC** and/or **END USER** to audit confidential information regarding product cost.

ARTICLE 9: REPORTING REQUIREMENTS

CONTRACTOR agrees to submit reports or other documentation in accordance with the General Terms and Conditions of the Proposal Specifications. If **CONTRACTOR** fails to submit to **H-GAC** in a timely and satisfactory manner any such report or documentation, or otherwise fails to satisfactorily render performance hereunder, such failure may be considered cause for termination of this Contract.

ARTICLE 10: MOST FAVORED CUSTOMER CLAUSE

If **CONTRACTOR** at any time during a contract period, routinely enters into agreements with other governmental customers within the State of Texas, and offers the same or substantially the same products offered to **H-GAC** on a basis that provides prices more favorable than those provided to **H-GAC**, **CONTRACTOR** shall within ten (10) business days thereafter notify **H-GAC** of that offering. The contract with **H-GAC** shall be deemed to be automatically amended and effective retroactively to the effective date of the most favorable contract, wherein **CONTRACTOR** shall provide the same quantity discount to **H-GAC** and its End Users for equal or larger orders purchased the same quantity and under the same circumstances. **H-GAC** shall have the right and option at any time to decline to accept any such change, in which case the amendment shall be deemed null and void. If **CONTRACTOR** believes any apparently more favorable price charged and/or offered a customer during the term of this agreement is not in fact most favored treatment, **CONTRACTOR** shall within ten (10) business days notify **H-GAC** in writing, setting forth the detailed reasons **CONTRACTOR** believes aforesaid offer which has been deemed to be a most favored treatment, is not in fact most favored treatment. **H-GAC**, after due consideration of such written explanation, may decline to accept such explanation and thereupon the contract between **H-GAC** and **CONTRACTOR** shall be automatically amended, effective retroactively, to the effective date of the most favored agreement, to provide the same prices to **H-GAC**.

The most favored price structure set forth in this paragraph shall not apply to any pre-existing contracts Contractor has in the State of Texas. The term "*pre-existing contracts*" shall refer to contracts in existence as of the original effective date of the HGAC contract, i.e.5/1/12.

The Parties agree that the above MFC provision shall not apply to the sale of large communications systems (one million dollars (\$1,000,000.00) and above). The term "*Communications System*" shall refer to a project that includes the sale of infrastructure hardware and/or software, user devices, and Motorola engineering and installation service. The contract for a "Communication System" will always have a Statement of Work and an Acceptance Test Plan.

The Parties accept the following definition of routine. *A prescribed, detailed course of action to be followed regularly; a standard procedure.*

ARTICLE 11: SEVERABILITY

All parties agree that should any provision of this Contract be determined to be invalid or unenforceable, such determination shall not affect any other term of this Contract, which shall continue in full force and effect.

ARTICLE 12: DISPUTES

Any and all disputes concerning questions of fact or of law arising under this Contract, which are not disposed of by agreement, shall be decided by the Executive Director of **H-GAC** or his designee, who shall reduce his decision to writing and provide notice thereof to **CONTRACTOR**. The decision of the Executive Director or his designee shall be final and conclusive unless, within thirty (30) days from the date of receipt of

such notice, **CONTRACTOR** requests a rehearing from the Executive Director of **H-GAC**. In connection with any rehearing under this Article, **CONTRACTOR** shall be afforded an opportunity to be heard and offer evidence in support of its position. The decision of the Executive Director after any such rehearing shall be final and conclusive. **CONTRACTOR** may, if it elects to do so, appeal the final and conclusive decision of the Executive Director to a court of competent jurisdiction. Pending final decision of a dispute hereunder, **CONTRACTOR** shall proceed diligently with the performance of this Contract and in accordance with **H-GAC'S** final decision.

ARTICLE 13: LIMITATION OF CONTRACTOR'S LIABILITY

Except as specified in any separate writing between the **CONTRACTOR** and an **END USER**, **CONTRACTOR'S** total liability under this Contract, whether for breach of contract, warranty, negligence, strict liability, in tort or otherwise, but excluding its obligation to indemnify **H-GAC** described in Article 14, is limited to the price of the particular products/services sold hereunder, and **CONTRACTOR** agrees either to refund the purchase price or to repair or replace product(s) that are not as warranted. In no event will **CONTRACTOR** be liable for any loss of use, loss of time, inconvenience, commercial loss, lost profits or savings or other incidental, special or consequential damages to the full extent such use may be disclaimed by law. **CONTRACTOR** understands and agrees that it shall be liable to repay and shall repay upon demand to **END USER** any amounts determined by **H-GAC**, its independent auditors, or any agency of State or Federal government to have been paid in violation of the terms of this Contract.

ARTICLE 14: LIMIT OF H-GAC'S LIABILITY AND INDEMNIFICATION OF H-GAC

H-GAC'S liability under this Contract, whether for breach of contract, warranty, negligence, strict liability, in tort or otherwise, is limited to its order processing charge. In no event will **H-GAC** be liable for any loss of use, loss of time, inconvenience, commercial loss, lost profits or savings or other incidental, special or consequential damages to the full extent such use may be disclaimed by law. Contractor agrees, to the extent permitted by law, to defend and hold harmless **H-GAC**, its board members, officers, agents, officials, employees, and indemnities from any and all claims, costs, expenses (including reasonable attorney fees), actions, causes of action, judgments, and liens arising as a result of **CONTRACTOR'S** negligent act or omission under this Contract. **CONTRACTOR** shall notify **H-GAC** of the threat of lawsuit or of any actual suit filed against **CONTRACTOR** relating to this Contract.

ARTICLE 15: TERMINATION FOR CAUSE

H-GAC may terminate this Contract for cause based upon the failure of **CONTRACTOR** to comply with the terms and/or conditions of the Contract; provided that **H-GAC** shall give **CONTRACTOR** written notice specifying **CONTRACTOR'S** failure. If within thirty (30) days after receipt of such notice, **CONTRACTOR** shall not have either corrected such failure, or thereafter proceeded diligently to complete such correction, then **H-GAC** may, at its option, place **CONTRACTOR** in default and the Contract shall terminate on the date specified in such notice. **CONTRACTOR** shall pay to **H-GAC** any order processing charges due from **CONTRACTOR** on that portion of the Contract actually performed by **CONTRACTOR** and for which compensation was received by **CONTRACTOR**.

ARTICLE 16: TERMINATION FOR CONVENIENCE

Either **H-GAC** or **CONTRACTOR** may cancel or terminate this Contract at any time by giving thirty (30) days written notice to the other. **CONTRACTOR** may be entitled to payment from **END USER** for services actually performed; to the extent said services are satisfactory to **END USER**. **CONTRACTOR** shall pay to **H-GAC** any order processing charges due from **CONTRACTOR** on that portion of the Contract actually performed by **CONTRACTOR** and for which compensation is received by **CONTRACTOR**.

ARTICLE 17: CIVIL AND CRIMINAL PROVISIONS AND SANCTIONS

CONTRACTOR agrees that it will perform under this Contract in conformance with safeguards against fraud and abuse as set forth by **H-GAC**, the State of Texas, and the acts and regulations of any funding entity. **CONTRACTOR** agrees to notify **H-GAC** of any suspected fraud, abuse or other criminal activity related to this Contract through filing of a written report promptly after it becomes aware of such activity.

ARTICLE 18: GOVERNING LAW & VENUE

This Contract shall be governed by the laws of the State of Texas. Venue and jurisdiction of any suit or cause of action arising under or in connection with this Contract shall lie exclusively in Harris County, Texas. Disputes between **END USER** and **CONTRACTOR** are to be resolved in accord with the law and venue rules of the state of purchase. **CONTRACTOR** shall immediately notify **H-GAC** of such disputes.

ARTICLE 19: PROCEDURAL STEPS ENUMERATED FOR SALES TO END USERS

1. All Cooperative Purchasing business will be processed in accordance with **H-GAC'S** policies and procedures, at contracted prices, and shall include approved order processing charges.
2. **END USER** will access the Cooperative Purchasing Program through the **H-GAC** website and /or by submission of any duly executed purchase order to a contractor having a valid contract with **H-GAC** and in a format acceptable to **H-GAC**.
3. **END USER** will submit order(s) electronically through **CONTRACTOR'S** on-line ordering process or issue Purchase Order(s) directly to **CONTRACTOR** at contract prices, and also submit a copy to **H-GAC**.

4. The **H-GAC CONTRACTOR** will deliver products/services as specified by the contract between **CONTRACTOR** and **H-GAC**, and invoice each **END USER** for (1) products/services purchased and (2) **H-GAC'S** applicable order processing charge.
5. Upon delivery, acceptance, and receipt of an **H-GAC CONTRACTOR'S**, documented invoice, **END USER** shall pay the **H-GAC CONTRACTOR** the full amount of the invoice.
6. For orders of less than \$100,000, **CONTRACTOR** will promptly pay to **H-GAC** any order processing charges due, and in Any case, not later than sixty (60) calendar days after End User order is processed. Payments will be processed to **H-GAC** on a monthly basis. For orders of \$100,000 or more, **CONTRACTOR** will promptly pay to **H-GAC** any order processing charges due, and in any case not later than forty-five (45) calendar days after receipt of End User payment by **Motorola**.
7. Failure to promptly remit **H-GAC'S** order processing charges may result in sanctions including, but not limited to, contract termination.
8. **CONTRACTOR** shall be responsible for delivery and acceptance of each unit by **END USER**, according to the requirements of the specifications, this Contract, and purchase order issued to **CONTRACTOR** by an **END USER**. All required equipment tests shall be borne by **CONTRACTOR**.
9. **CONTRACTOR** shall promptly provide **H-GAC and END USER** with all information pertaining to delivery schedules. **CONTRACTOR** shall also use its best efforts to expedite unit deliveries on shorter notice than set forth in its verification for any specific purchase order when requested.
10. All prices are F.O.B. **END USER'S** location with all transportation charges prepaid and included in any invoice.
11. All pricing shall be based on the current contract unless the **H-GAC CONTRACTOR** prior to receipt of **END USER'S** purchase order for delivery of any products/services has received **H-GAC'S** prior written approval for any price increases.
12. The **H-GAC CONTRACTOR** agrees to accept the terms of this agreement and to conduct all transactions based on pricing and other terms of the contract including, but not limited to, the applicable **H-GAC** order processing charge. The **CONTRACTOR** agrees to encourage **END USERS** to execute authorizing Interlocal contracts with **H-GAC**.

ARTICLE 20:

LIQUIDATED DAMAGES

Any liquidated damages terms will be determined between **CONTRACTOR** and **END USER** at the time **END USER'S** purchase order is placed.

ARTICLE 21:

PERFORMANCE BONDS FOR INDIVIDUAL ORDERS

Except as described below for fire apparatus, **CONTRACTOR** agrees to provide a Performance Bond at the request of **END USER** within ten (10) days of receipt of **END USER'S** purchase order.

It shall be standard procedure for every order received for fire apparatus that a Performance Bond in the amount of the order be provided to the **END USER**. Failure of **CONTRACTOR** to provide such performance bond within ten (10) days of receipt of **END USER'S** order may constitute a total breach of contract and shall be cause for cancellation of the order at **END USER'S** sole discretion. **END USER** may choose to delete the requirement for a Performance Bond at **END USER'S** sole discretion. If the bond requirement is waived, **END USER** shall be entitled to a price reduction commensurate with the cost that would have been incurred by **CONTRACTOR** for the bond.

ARTICLE 22:

CHANGE OF CONTRACTOR STATUS

CONTRACTOR shall immediately notify **H-GAC**, in writing, of **ANY** change in ownership, control, dealership/franchisee status, Motor Vehicle license status, or name, and shall also advise whether or not this Contract shall be affected in any way by such change. **H-GAC** shall have the right to determine whether or not such change is acceptable, and to determine what action shall be warranted, up to and including cancellation of Contract.

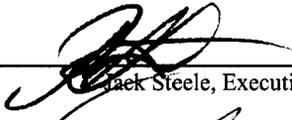
ARTICLE 23:

LICENSING REQUIRED BY TEXAS MOTOR VEHICLE BOARD *[IF APPLICABLE]*

CONTRACTOR will for the duration of this Contract maintain current licenses that are required by the Texas Motor Vehicle Commission Code. If at any time during this Contract period, any **CONTRACTOR'S** license is not renewed, or is denied or revoked, **CONTRACTOR** shall be deemed to be in default of this Contract unless the Motor Vehicle Board issues a stay or waiver. Contractor shall promptly provide copies of all current applicable Texas Motor Vehicle Board documentation to **H-GAC** upon request.

IN WITNESS WHEREOF, the parties have caused this Contract to be executed by their duly authorized representatives.

Signed for **Houston-Galveston**
Area Council, Houston, Texas:



Jack Steele, Executive Director

Attest for **Houston-Galveston**
Area Council, Houston, Texas:



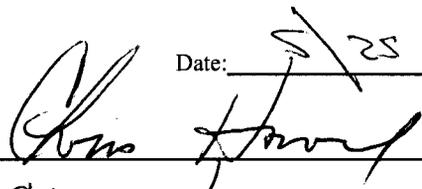
Debrae Vick, Director of Public Services
Date: 5/30, 2012

Signed for **Motorola Solutions, Inc.**
Farmers Branch, Texas:



Printed Name & Title: Edward Fierst, MSSSJ Vice President.

Attest for **Motorola Solutions, Inc.**
Farmers Branch, Texas:



Date: 5/25 2012
Printed Name & Title: Chip Howard - Motorola Area Manager
Date: 5/25, 2012

Attachment A
Motorola Solutions, Inc.
Radio Communication/Emergency Response & Mobile Interoperability Equipment
Contract No.: RA05-12

Product Category	Description	Base Offered Price
A,B, C	<i>Per the RFP Motorola has included an Electronics Catalogue (ECAT disk), April 2011 Edition, on a CD media in lieu of listing each individual product and its options. In addition, a discount APC sheet is attached in the pricing section and used to calculate all individual prices within the ECAT disk.</i>	See APC Discounts per ECAT Pricebook
A	<i>Per the RFP Motorola has included an Electronics Catalogue for our Vertex equipment on a CD (Vertex Standard List Price Book, Effective 2/13/2012) media in lieu of listing each individual product and its options.</i>	28% off List Price
D	Motorola Integration Services LMR	
	Motorola offers wide range of services including Integration, Installation and Training. The cost of these services is regional in nature. Samples below are listed for reference only.	
D	Project Management Daily Rate*	\$ 1,610.00
D	System Engineering Daily Rate*	\$ 1,610.00
D	System Technologist Daily Rate*	\$ 1,925.00
D	Standard Shop Installation: Hourly Rate*	\$ 135.00
D	Standard Shop Installation: Daily Rate*	\$ 900.00
D	Mobile Radio Installation*	\$160 - \$370
D	Radio Programming*	\$50 - \$105
D	Data Installation*	\$160 - \$370
	*Prices may vary by Region and Stated Scope. Travel Not Included	
D	Motorola Integration Services Advanced Services	
	Motorola offers wide range of services including Integration, Installation and Training. The cost of these services is regional in nature. Samples below are listed for reference only.	
D	NG9-I-1 Consoling Services-Daily Rate*	\$1,500
D	Security Project/Program Management-Daily Rate*	\$1,500
D	Wireless Security Technician-Daily Rate*	\$1,400
D	Security Penetration Tester (Wired Network)-Daily Rate*	\$1,400
D	Secutriy Trainer-Daily Rate*	\$1,176
D	Application Security Code Reviewer-Daily Rate*	\$1,800
D	IT Incident Response and E-Discovery Assitance-Daily Rate*	\$1,500
D	IT Disaster Recovery Planner-Daily Rate*	\$1,400
D	IT Disaster Recovery Plan Tester-Daily Rate*	\$1,400
D	Buisness Continuity/Continuity of Government Planner-Daily Rate*	\$1,400
D	Buisness Continuity/Continuity of Government Plan Tester-Daily Rate*	\$1,400
D	Mobile Application Services Project Management-Daily Rate*	\$1,500
D	Mobile Application Services System Engineer-Daily Rate*	\$1,500
D	Mobile Application Services Solution Architech-Daily Rate*	\$1,800
D	Mobile Application Services Application and Solution Design-Daily Rate*	\$1,800
D	Mobile Application Services Application and Solution Implementation-Daily Rate*	\$1,800
D	Application Integration and Customization Services Project Management-Daily Rate*	\$1,500
D	Application Integration and Customization Services System Engineer-Daily Rate*	\$1,500
D	Application Integration and Customization Services Solution Architech-Daily Rate*	\$1,800

D	Application Integration and Customization Services Application and Solution Design-Daily Rate*	\$1,800
D	Application Integration and Customization Services Application and Solution Implementation-Daily Rate*	\$1,500
D	Unified Communications Services Project Management-Daily Rate*	\$1,500
D	Unified Communications Services System Engineer-Daily Rate*	\$1,500
D	Unified Communications Services Solution Architech-Daily Rate*	\$1,800
D	Unified Communications Services Application and Solution Design-Daily Rate*	\$1,800
D	Unified Communications Services Application and Solution Implementation-Daily Rate*	\$1,500
D	Consulting Services Project Management-Daily Rate*	\$1,500
D	Consulting Services System Engineer-Daily Rate*	\$1,500
D	Consulting Services Solution Architech-Daily Rate*	\$1,800
D	Consulting Services Internet Protocol Network Accessment-Daily Rate*	\$1,800
D	Consulting Services IP Network Design and Integration-Daily Rate*	\$1,800
D	Consulting Services IP Wide Area Network Backhaul Design and Integration-Daily Rate*	\$1,800
D	Consulting Services CustoeMr Network Interface Design and Integration-Daily Rate*	\$1,800
APC DISCOUNTS PER ECAT PRICEBOOK		
548	CAD Equipment	10%
702	CAD Equipment	0%
850	CAD Equipment	0%
40	Data Applications	15%
41	Data Applications	10%
41	Data Applications	10%
153	Data Applications	15%
297	Data Applications	0%
298	Data Applications	15%
299	Data Applications	15%
333	Data Applications	10%
343	Data Applications	10%
170	Data Subscriber Devices	15%
171	Data Subscriber Devices	10%
177	Data Subscriber Devices	15%
185	Data Subscriber Devices	0%
736	Data Subscriber Devices	22%
855	Data Subscriber Devices	10%
118	Dispatch Solutions	10%
124	Dispatch Solutions	15%
129	Dispatch Solutions	20%
147	Dispatch Solutions	10%
185	Dispatch Solutions	0%
202	Dispatch Solutions	15%
207	Dispatch Solutions	10%
226	Dispatch Solutions	15%
228	Dispatch Solutions	30%
229	Dispatch Solutions	13.50%
261	Dispatch Solutions	5%
322	Dispatch Solutions	15%
404	Dispatch Solutions	20%
415	Dispatch Solutions	10%
443	Dispatch Solutions	20.00%
454	Dispatch Solutions	15%
706	Dispatch Solutions	20%
708	Dispatch Solutions	17%
729	Dispatch Solutions	17%
740	Dispatch Solutions	15%

629	Enterprise Terminals	10%
214	Fixed Data Products	10%
275	Fixed Data Products	10%
342	Fixed Data Products	10%
382	Fixed Data Products	10%
403	Fixed Data Products	15%
455	Fixed Data Products	15%
469	Fixed Data Products	10%
499	Fixed Data Products	10%
222	Fixed Network Equipment	15%
329	Fixed Network Equipment	10%
381	Fixed Network Equipment	15%
207	Fixed Station Accessories	10%
272	Fixed Station Accessories	20%
273	Fixed Station Accessories	10%
277	Fixed Station Accessories	20%
457	Fixed Station Accessories	20%
515	Fixed Station Accessories	20%
524	Fixed Station Accessories	15%
525	Fixed Station Accessories	15%
856	Fixed Station Accessories	10%
207	Fixed Station Antenna Systems	10%
811	Fixed Stations	5%
5	Fixed Stations	20%
112	Fixed Stations	18%
225	Fixed Stations	10%
281	Fixed Stations	18.50%
301	Fixed Stations	20%
360	Fixed Stations	21.50%
377	Fixed Stations	17%
417	Fixed Stations	10%
424	Fixed Stations	15%
425	Fixed Stations	15%
448	Fixed Stations	20%
474	Fixed Stations	23%
509	Fixed Stations	21.50%
512	Fixed Stations	23%
537	Fixed Stations	21.50%
590	Fixed Stations	21.50%
595	Fixed Stations	18%
643	Fixed Stations	15%
675	Fixed Stations	20%
680	Fixed Stations	21.50%
744	Fixed Stations	20%
881	Fixed Stations	15%
15	Fixed Wireless Broadband	20%
75	Fixed Wireless Broadband	0%
76	Fixed Wireless Broadband	0%
218	Fixed Wireless Broadband	15%
224	Fixed Wireless Broadband	15%
800	Fixed Wireless Broadband	0%
801	Fixed Wireless Broadband	0%
806	Fixed Wireless Broadband	0%
832	Fixed Wireless Broadband	10%
882	Fixed Wireless Broadband	15%
904	Fixed Wireless Broadband	15%
906	Fixed Wireless Broadband	15%
910	Fixed Wireless Broadband	15%
947	Fixed Wireless Broadband	15%

51	LTE	10%
52	LTE	10%
53	LTE	10%
54	LTE	10%
55	LTE	10%
56	LTE	10%
57	LTE	10%
58	LTE	5%
59	LTE	10%
61	LTE	10%
63	LTE	10%
65	LTE	10%
73	LTE	0%
375	LTE	0%
708	LTE	10%
823	Maintenance	0%
983	Maintenance	0%
291	Mobile Accessories	15%
554	Mobile Accessories	15%
644	Mobile Accessories	15%
879	Mobile Applications Software	10%
38	Mobile Stations	10%
103	Mobile Stations	26.50%
109	Mobile Stations	26.50%
159	Mobile Stations	20%
189	Mobile Stations	15%
276	Mobile Stations	25%
287	Mobile Stations	10%
374	Mobile Stations	15%
484	Mobile Stations	10%
500	Mobile Stations	25%
514	Mobile Stations	25%
518	Mobile Stations	25%
585	Mobile Stations	25%
775	Mobile Stations	16.50%
776	Mobile Stations	20%
792	Mobile Stations	20%
869	Mobile Stations	20%
922	Mobile Stations	20%
216	MOTOTRBO	10%
422	MOTOTRBO	10%
475	MOTOTRBO	10%
516	MOTOTRBO	10%
557	MOTOTRBO	10%
563	MOTOTRBO	10%
777	MOTOTRBO	10%
131	Network Products	10%
147	Network Products	10%
207	Network Products	10%
136	Pagers/Receiver	15%
169	Pagers/Receiver	20%
452	Pagers/Receiver	15%
361	Paging/Recievers	15.00%
839	Paging/Recievers	15%
940	Paging/Recievers	15%
941	Paging/Recievers	15%
1	Portable Radiophone (Portables)	20%
4	Portable Radiophone (Portables)	20%
8	Portable Radiophone (Portables)	20%

37	Portable Radiophone (Portables)	10%
87	Portable Radiophone (Portables)	10%
133	Portable Radiophone (Portables)	15%
158	Portable Radiophone (Portables)	20%
185	Portable Radiophone (Portables)	0%
187	Portable Radiophone (Portables)	15%
205	Portable Radiophone (Portables)	25%
271	Portable Radiophone (Portables)	20%
320	Portable Radiophone (Portables)	25%
332	Portable Radiophone (Portables)	20%
362	Portable Radiophone (Portables)	20.00%
372	Portable Radiophone (Portables)	20%
402	Portable Radiophone (Portables)	20%
407	Portable Radiophone (Portables)	25%
414	Portable Radiophone (Portables)	20%
430	Portable Radiophone (Portables)	20%
442	Portable Radiophone (Portables)	20%
453	Portable Radiophone (Portables)	20%
456	Portable Radiophone (Portables)	20%
476	Portable Radiophone (Portables)	20%
481	Portable Radiophone (Portables)	25%
483	Portable Radiophone (Portables)	25%
505	Portable Radiophone (Portables)	20%
527	Portable Radiophone (Portables)	25%
562	Portable Radiophone (Portables)	25%
577	Portable Radiophone (Portables)	20%
619	Portable Radiophone (Portables)	15%
626	Portable Radiophone (Portables)	20%
655	Portable Radiophone (Portables)	25%
656	Portable Radiophone (Portables)	25%
672	Portable Radiophone (Portables)	33.50%
687	Portable Radiophone (Portables)	18%
721	Portable Radiophone (Portables)	25%
726	Portable Radiophone (Portables)	25%
749	Portable Radiophone (Portables)	33.50%
785	Portable Radiophone (Portables)	20%
795	Portable Radiophone (Portables)	25%
798	Portable Radiophone (Portables)	25%
841	Portable Radiophone (Portables)	33.50%
883	Portable Radiophone (Portables)	15%
977	Portable Radiophone (Portables)	10%
659	Professional Services	0%
659	Professional Services	0%
670	Professional Services	0%
842	Professional Services	0%
682	Radius Products	20%
509	Receivers	21.50%
512	Receivers	23%
743	Receivers	15%
608	Records Management Software	10%
137	Secure Solutions	5%
201	Secure Solutions	10%
229	Secure Solutions	14%
462	Secure Solutions	10%
524	Secure Solutions	15%
525	Secure Solutions	15%
195	Software Upgrades/Flashport	0%
371	Software Upgrades/Flashport	0%
430	Software Upgrades/Flashport	20%

262	Test Equipment	20%
39	Trunking Products and Systems	5%
85	Trunking Products and Systems	15%
112	Trunking Products and Systems	18%
115	Trunking Products and Systems	10%
152	Trunking Products and Systems	5%
277	Trunking Products and Systems	20%
280	Trunking Products and Systems	18.50%
281	Trunking Products and Systems	18.50%
377	Trunking Products and Systems	17%
495	Trunking Products and Systems	15%
593	Trunking Products and Systems	23%
708	Trunking Products and Systems	17%
877	Trunking Products and Systems	18.50%
2	Video Solutions	10%
488	Video Solutions	10%
606	Wireless Mobility	15%
683	Wireless Mobility	15%
832	Wireless Mobility	10%
907	Wireless Mobility	15%
908	Wireless Mobility	15%