

**Before the
Federal Communications Commission
Washington, D.C. 20554**

In the Matter of)	
)	
County of Charles, Maryland)	WT Docket No. 02-55
and Sprint Nextel Corporation)	
Mediation No. TAM-12003)	
)	

TO: The Commission

APPLICATION FOR REVIEW

CHARLES COUNTY, MARYLAND
James R. Hobson
Miller & Van Eaton, P.L.L.C.
1155 Connecticut Avenue, N.W.,
Suite 1000
Washington, D.C. 20036-4320
(202) 785-0600

November 18, 2009

ITS ATTORNEY

TABLE OF CONTENTS

	<u>Page</u>
Summary	1
Introduction	3
I. The Order unlawfully grants decisional weight to “cost metrics.”	4
II. The licensee’s burden to prove costs reasonable should not increase according to the divergence of its estimates from TA metrics.	6
III. The County’s historic approach to 800 MHz system installation, modification and maintenance has been wrongly discredited as duplicative.	7
Subscriber costs.	9
Infrastructure costs	12
Testing costs.	15
Global management services.	15
Conclusion and request for disclosure.	18

**Before the
Federal Communications Commission
Washington, D.C. 20554**

In the Matter of)
)
County of Charles, Maryland) WT Docket No. 02-55
and Sprint Nextel Corporation)
Mediation No. TAM-12003)
)

TO: The Commission

APPLICATION FOR REVIEW

Pursuant to Section 1.115 of the Rules, 47 C.F.R. §1.115, Charles County, Maryland (“County”) hereby asks the full Commission for expedited review of a staff decision in the captioned proceeding.¹ Relief is requested under sections **1.115(b)(2)(i)**, conflict with regulation, case precedent and established Commission policy; **(b)(2)(iv)**, erroneous findings on important or material questions of fact; and **(b)(2)(v)**, prejudicial procedural error.

Summary

I. Although the Order claims that so-called TA “cost metrics” have not been afforded dispositive weight, the decision relies too often and too heavily on this data to make the claim credible. The Order’s dependence on the cost metrics improperly goes beyond the TA’s informational purpose in developing the data.

II. The Order wrongly establishes an escalating burden of proof of licensee costs depending on the degree of their divergence from the cost metrics. The wrong is compounded by the licensees’ lack of access to the underlying data from which the metrics were derived.

¹ Memorandum Opinion and Order, DA 09-2252, released October 19, 2009. (“Order”)

III. The Order discredits as duplicative a historic County approach to the installation, modification and maintenance of its 800 MHz systems in which multiple resources are assigned different responsibilities for a given task. They are not asked to perform the same work.

With regard to subscriber costs, the Order misunderstands the differences between information gathered under the PFA and that required for implementation under the FRA. Without explanation, the Order abandons benchmarking of RCC against Motorola that was used in a 2007 PFA decision largely favoring the County. The Order ignores the County's explanations in the record for the frequent presence of both County employees and RCC at subscriber reprogramming sites.

Concerning infrastructure costs, the Order misreads the tense of a sentence in the record to conclude erroneously that there is no need for Motorola and RCC to plan collaboratively for FRA implementation. It adopts a pejorative Nextel term, "shadow," to imply that RCC needlessly is monitoring Motorola's work.

As for testing, the Order either overlooks or fails to understand the Motorola and County explanations of why a fire station alerting system warrants a more complete functional test than was conducted for some County neighbors without such a system.

The discussion of global management services is flawed by a failure to recognize RCC's paramount role in this category, by comparison with its secondary roles to Motorola in the three other categories. It also wrongly rejects as extra-record a County argument in defense of RCC's role in the interoperability planning and stakeholder coordination subset of the category.

End of Summary

Introduction. At the conclusion of unsuccessful mediation in this matter, Sprint Nextel Corporation (“Nextel”) and the County remained approximately \$1 million apart in their estimates of the cost of reconfiguring the County 800 MHz public safety communications systems.² The Recommended Resolution (“RR”) of Mediator Bruce Olcott narrowed the gap somewhat by subtracting a little over \$400,000 from the County’s last offer of approximately \$2.9 million.³

Although the Order accepted many of the Mediator’s recommendations, it rejected certain of his findings, deducting another \$600,000 from the County offer. As a result, the ultimately approved amounts essentially dropped back to the final Nextel proposal of about \$1.9 million. This slashing of the County’s carefully considered estimate by one-third is a devastating blow to its plan for reconfiguration, all the more so because an earlier staff order adjudicating Nextel’s challenge to the County’s planning funding proposals largely upheld the County.⁴

Despite the surprise and magnitude of this blow, the County has no choice but to enter negotiations and conclude a Frequency Reconfiguration Agreement (“FRA”) with Nextel pending the outcome of this Application for Review. Because the County is one of 14 members of a National Capital Region (“NCR”) group of 800 MHz public safety licensees on a tight interoperability schedule, it cannot and would not delay that schedule

² Those systems are described at Exhibit A to the County’s Proposed Resolution Memorandum (“PRM”) of February 13, 2009. For convenience, the description is excerpted at Exhibit A hereto.

³ Corrected RR of March 6, 2009, explained in e-mail of March 13, 2009 to parties from Janine Provenzano.

⁴ Memorandum Opinion and Order, DA 07-3881, released September 10, 2007.

beyond the seven months already elapsed while the parties awaited the Order.⁵ Thus, expedited review is sought not for its effect on the FRA negotiations, which must and will succeed, but to alleviate somewhat – if the County is successful – the heavy burden of rebanding with one-third less funding than the County had expected.

I. The Order unlawfully grants decisional weight to “cost metrics.”

Explaining its decision to slash nearly \$210,000 from the County’s Mediator-approved request for subscriber unit reconfiguration costs, the Order evaluates the request against TA metrics which it claims “establish a presumptively valid cost unless the licensee establishes that its system is materially different from the systems from which the metrics were derived.”⁶ There are at least two problems with this formulation, which the Commission must correct.

First, the TA does not claim any such presumptive validity for its data. Instead, the October 2009 edition of its now-monthly reporting carries the same cautionary preface that all previous editions have carried: “*The FRA data is provided for informational purposes only.* Licensee reconfiguration costs can and do vary based on a number of factors.”⁷

Second, while the County systems are distinctively and painstakingly maintained, and while the County’s responsibilities toward the NCR 20 and its southern Maryland neighbors (Calvert and St. Mary’s Counties) are unusually heavy, the County has no way of evaluating whether its circumstances are “materially different from the systems from

⁵ Order, n. 29. The NCR 20 Master Schedule of September 2009 had anticipated a completed FRA by October 16, 2009, which would have permitted a relatively early start for the County on those subscriber radio templates that needed to be modified for interoperability purposes. The Schedule has been shifted forward, but the freedom to adjust further is severely circumscribed by plans for other licensees already having FRAs.

⁶ Order, ¶45. The short-hands “TA metrics” and “cost metrics” appear to be used interchangeably.

⁷ http://www.800ta.org/content/resources/FRA_Statistics.pdf, emphasis in original.

which the metrics were derived.” We know very little about the systems in the TA metrics database, which is said to consist of information “gathered from the 764 Frequency Reconfiguration Agreements (FRAs) approved as of September 30, 2009 (including amendments where applicable) for Stage 2 Public Safety licensees.”

We and other public safety licensees are privy only to anonymous and aggregate information. Even at that, we do not know which version of the data has been or should be applied to our case. At the outset (§6), the Order relies on a TA compilation dated December 31, 2008. However, at note 199, the staff appears to recognize that more recent data could and should be applied, given the rise in median project management costs by \$18,000, or more than 15 per cent. However, instead of exploring further this problem of data changes over time – and perhaps double-checking to see how the County’s costs might compare with October 2009 data – the Order essentially dismisses the uptrend by saying that the new higher median remains “far less than what the County proposes.”⁸

The parenthetical in the preface to the TA’s October report, quoted above, says that the data include “amendments where applicable.” This simply compounds the problem of our ignorance about the contents of the cost metrics database. It can only include amendments that have been executed and does not account for those still in negotiation or litigation or simply refused.⁹

⁸ At §5, the Order cites to 600-odd FRAs in the TA database in December of 2008 (or whenever that report closed). Ten months later, the number stood at 764, according to the TA. That is an increase of more than 25%. Given that the median in one category rose by more than 15% in that period, how can the Order so easily dismiss what other changes might have occurred the data from 160 or so new FRA contracts?

⁹ In our experience, the amendments of smaller dollar value are more quickly approved. Those of high cost are protracted in negotiation/mediation or fail of agreement, and are litigated or dropped. Pending cases in point are the subscriber capacity change notices filed by five NCR 20 licensees.

The Order (¶5) gives lip service to the original informational purpose of the cost metrics by claiming that these have been “accorded substantial, although not dispositive, weight.” It is difficult to accept the assertion that the metrics comparisons are anything less than dispositive.¹⁰ The shift from metrics as informative to metrics as dispositive is masked by the “burden creep” discussed below.

III. The licensee’s burden to prove costs reasonable should not increase according to the divergence of its estimates from TA metrics.

The legal standard for evaluation of a licensee’s rebanding funding request is set forth at ¶4 of the Order. In the next paragraph, however, the burden changes: “Thus, the further a licensee’s proposed costs for services and equipment exceed the TA Metrics, the higher the licensee’s burden to justify those costs with record evidence.” The County respectfully disagrees.

First, the generally accepted civil standard of proof by preponderance of evidence¹¹ is not an escalating barrier of the kind set by the Order here. What if the licensee’s evidence shows how its estimates were derived and why – as the County has provided in most instances – and the only opposing evidence consists of cost metrics comparisons. Suppose further that there is no record evidence of duplication of effort or deliberate over-staffing on the part of the licensee and its vendors and consultants, nor any indication of rate or price inflation special to rebanding. We submit that the licensee

¹⁰ FCC orders from inception of the TA’s cost metrics reports in mid-2007 until this one referred to the data only a few times per decision. Here, the term appears 33 times in 26 pages of text and footnotes.

¹¹ See, e.g., *Concrete Pipe and Products of Cal., Inc. v. Construction Laborers Pension Trust*, 508 U.S. 602, 622 (1993), quoting *In re Winship*, 397 U.S. 358, 371-72 (1970) (“The burden of showing something by a ‘preponderance of the evidence,’ the most common standard in the civil law, ‘simply requires the trier of fact ‘to believe that the existence of a fact is more probable than its nonexistence before [he] may find in favor of the party who has the burden to persuade the [judge] of the fact’s existence.’”). See also, *In re Application of Ameritech Michigan Pursuant to Section 271 of the Communications Act of 1934*, 12 FCC Rcd. 20543, ¶ 45 (1997) (“The standard of proof applicable in most administrative and civil proceedings, unless otherwise prescribed by statute or where other countervailing factors warrant a higher standard, is the “preponderance of the evidence” standard.”)(internal citations omitted)

will have met its burden no matter how far its estimates deviate from TA statistical aggregates. If the metrics alone are allowed to defeat the licensee, they will have taken on decisional weight, contrary to their alleged purpose. We intend to show below where the Order repeatedly makes this mistake.

Second, it takes two points to establish a deviation. We know how the County arrived at its cost estimates. We know almost nothing about the derivation of the TA's metrics.¹² The Order (§5) wants the County to accept the metrics as "a useful measure of cost reasonableness because they are based on increasingly large amounts of historical information." We cannot evaluate this proposition as logical or statistically sound unless we see the ingredients making up the aggregates.¹³ We think disclosure is possible while protecting the confidentiality of the sources. Our prayer for relief includes such a request.¹⁴

III. The County's historic approach to 800 MHz system installation, modification and maintenance has been wrongly discredited as duplicative.

Exhibit A-2 to the County's PRM is also appended and quoted here for its particular description of the grounded approach to rebanding. The County's assignment of resources was not created for rebanding alone, but has been applied to the new project on the basis of comparable experience:

¹² County Reply PRM, n. 5 and pages 4-6.

¹³ Reliable statistical analysis more often proceeds from random sampling than by historical inference. We cannot evaluate either technique without more complete information. *See, e.g.*, Letter of Carl Robert Aron of RCC Consultants, May 16, 2007, in this Docket 02-55, dealing with application of early TA metrics to PFA costs.

¹⁴ APCO and other public safety associations recently have called for disclosure of underlying TA metrics data. Letter of Richard Mirgon, Harlin McEwen and Alan Caldwell to James A. Barnett, Jr., Chief of the Public Safety and Homeland Security Bureau, FCC, November 5, 2009. ("[W]e believe that licensees should be able to request and receive information regarding the FRAs in any relevant cost metric subcategory that can be reasonably compiled by the Transition Administrator.")

Tony Rose /RJ Williams/Glenn O'Neill (County) and Steve Gompers(RCC) are the Charles County operational and technical team, respectively. Both parts are essential to the care and feeding of a public safety radio system. Tony/RJ/Glenn are not engineers and Steve is not a public safety professional.

The County does not ever turn its vendors like Motorola or Wireless Communications loose. Instead, the County has adopted, and always will adopt, the strategy of being very engaged with its vendors to ensure operational and technical success.

The County has 7+ years of experience with its current public safety system and 2+ decades with its previous system. This history has given rise to a set of Best Practices. The County does not intend to deviate from its Best Practices as communicated throughout the course of PFA and FRA negotiations.

The Order (§4) properly recites, on the basis of the Cost Clarification Order of 2007, that the standard for evaluating the County's proposed FRA implementation expense is "minimum cost necessary to accomplish rebanding in a reasonable, prudent, and timely manner." In the decision of 2007¹⁵ resolving the County's planning funding differences with Nextel, the FCC took favorable note of the use of a "tripartite structure" including internal staff for its operational knowledge, Motorola as chief technical vendor and RCC as principal technical consultant. Throughout that earlier decision, the FCC deferred to the County in, for example, apportionment of tasks among the tripartite structure (§11); "flexibility with respect to budgeting for project management" (§17);¹⁶ and "decisions concerning internal staffing" (§22), adding with regard to the latter:

Public safety licensees – particularly in smaller jurisdictions such as the County – typically have limited internal resources to address the multiple demands on their time imposed by the rebanding process.

As we discuss several categories of County cost below, we ask that the Commission apply the standard of "reasonable, prudent and timely" in the context of our historic use

¹⁵ Memorandum Opinion and Order, DA 07-3881, released September 10, 2007.

¹⁶ To illustrate this flexibility, even as RCC was being awarded fewer hours in project management than Motorola, the decision reassured the County that it was free to reapportion time between RCC and Motorola.

of resources to build, modify and maintain the 800 MHz public safety systems in our care.

Subscriber costs. The 2009 Order challenged here is strikingly less deferential than the 2007 decision to the County's disposition of its resources and far readier to find forbidden duplication of effort in the tripartite structure of internal staff, Motorola and RCC. Disagreeing with the Mediator's allowances for "subscriber unit management," the Order disregards the Recommended Resolution's reliance on the County's approved history of resource deployment. Instead, the disapproval is grounded in TA cost metrics, which are claimed to be "presumptively valid" unless the licensee can "materially" differentiate itself from the unknown comparable systems in the TA database.¹⁷

While the County cannot possibly differentiate itself from an aggregate of unknown licensees, it made every effort to explain why its approach to rebanding was not duplicative or wasteful. First, it relied on its experience in system installation and in subsequent radio reprogramming prior to rebanding.¹⁸ Second, that experience has produced a "belt and suspenders" mentality of prudence and caution that insists on monitoring of the work of Motorola and its subcontractor shops by both the County, from an operational perspective, and RCC from a technical perspective.¹⁹

¹⁷ Order, ¶¶ 44-45. See discussion at Section II above.

¹⁸ Proposed Resolution Memorandum ("PRM"), 6. See also, Reply PRM, 12 ("The proposed methodology . . . is perfectly consistent with past Charles County fleet programming initiatives."), and 16 ("Charles County initially funded with its own money comparable levels of involvement for both Motorola and RCC . . .")

¹⁹ Reply PRM, 13 ("The best results are achieved when Motorola works hand-in-hand with a knowledgeable consultant and an empowered, intimately knowledgeable County project team."), and 6 ("There is no fallback system for the Charles County 800 MHz Fire/EMS Station Alerting subsystem, numerous BDA installations, or for sensitive County/State/Federal interoperability installations.")

The Order (¶46) flatly misunderstands the process of information-gathering preceding the crucial exercise of modifying radio templates and the Recommended Resolution's discussion of the subject. It is simply not correct to say that "substantially the same tasks" were paid for with planning funds. The collection of planning data on the number and types of subscriber units – which enables Motorola to make a "retune/replace/reprogram" determination – is entirely distinct from and prior to the implementation tasks of template modification.²⁰ The modification and review of interoperable templates is a shared activity between NCR 20 licensees such as Charles and Motorola as the regional manager for the process.²¹

The Order (¶¶ 47, 48) then disparages the time estimated for two County employees and an RCC representative to be present during the retuning process, and concludes (¶ 49) that the 2007 Charles County decision never authorized such oversight of the Motorola contractor assigned to perform the actual retuning. The Order concludes (¶ 50) that the RCC presence at retuning constitutes the "duplication of effort" the County was warned about in 2007.

The FCC has changed course from 2007 to 2009 without an adequate explanation.²² At ¶¶ 15 and 17 of the 2007 decision, the FCC dealt with similar questions of the relative time of Motorola and RCC. In each case, it looked at Motorola as the lead but accepted a strong secondary role for RCC. With respect to project management, the 2007 decision approved 90.6 hours for RCC compared with 114 for Motorola. Regarding

²⁰ The RR's discussion (at 15) to which the Order cites is accurate, but errs in referring the reader to page 6 of the County PRM. Instead, the correct citation should be to the Reply PRM at 15, which in turn refers to the Motorola SOW.

²¹ Regional Coordination Funding (Phase II) Agreement between Fairfax County, Virginia and Nextel, March 26, 2009.

²² *Greater Boston Television Corporation v. FCC*, 444 F.2d 841, 852(D.C. Cir. 1970) ("[I]f an agency glosses over or swerves from prior precedents without discussion it may cross the line from the tolerably terse to the intolerably mute.")

reconfiguration plan design, it approved 80 hours for RCC compared to 144 for Motorola. Attempting to follow the FCC's guidance, the Mediator (RR, 32) recommended the award to RCC of about 60% of the hours approved for Motorola, a proportion close to the 56% in one of the 2007 findings and well below the 80% in the other.

For all of the Mediator's efforts to learn from the 2007 decision, the FCC expressed no appreciation, merely sharp disagreement with the RR that brooked no middle ground and reduced the County to Nextel's offer of barely half of the requested internal and RCC subscriber management hours.²³

Despite having used in 2007 the Motorola hours as a ceiling below which the RCC hours were to fall -- where the latter's role was important but secondary -- the Order (§ 50) says this kind of previously approved benchmarking is no longer the "operative question." Rather, RCC is to be judged against all the "other resources already devoted to the management of the subscriber unit retuning process" and its efforts are found duplicative. The 2007 decision acknowledged that Motorola, RCC and County internal staff all had different roles to play in the tripartite structure, but not necessarily equal roles. In the 2009 Order, those distinctive roles disappear and work becomes duplicative purely by quantity.

The RR (32) reads correctly from the County reconfiguration record that two County employees (one at half the hourly rate of the other) are assigned separate and

²³ The subscriber management subset is distinct from the Order's creation of a category of "global management services." This neologism appears to track what Nextel calls, in its PRW, Professional Services composed of "Project Management" and "Interoperability Planning & Stakeholder Coordination."

distinct tasks of agency liaison and subcontractor oversight.²⁴ The RR at the same page recognizes that RCC, as the County's principal technical presence, having different knowledge than the operational understanding which is the County staff's strength, plays an important role albeit secondary to Motorola – worth 128 more hours than Nextel was willing to grant.

The Order (¶ 50) rides roughshod over these distinctions, assuming without explanation that some of these players must be “dispensable” despite their different assignments. In apparent zeal to apply the TA metrics (¶ 45), the Order chooses not to credit the record support for the County proposal in the documents cited at note 24, *supra*. The FCC, in its *de novo* review of the record, is allowed to differ with a Mediator's Recommended Resolution, but the Order here neglects the record and gives insufficient reasons for its different results.

On the basis of the foregoing discussion, the County asks that the Mediator's award for subscriber unit costs be restored in full.

Infrastructure costs. As with its discussion of subscriber costs, the Order proceeds from a misunderstanding of the application of the approved tripartite structure of Motorola, RCC and County staff to the implementation of reconfiguration. Reading ¶¶ 28 and 30 together, one can only conclude the FCC staff imagines that planning for implementation occurs once and once only, under the aegis of the PFA, and that there is no further need for post-FRA planning, in the field and in the office, among the three partners. This is unrealistic. The plan developed by means of the PFA remains a work in progress throughout its implementation. For example, under the Professional Services

²⁴ County PRM at 6-7, citing particularly to pages in Exhibit C charting “Subscriber Reconfiguration Activities” for both Phase 1 and Phase 2. For convenience, we append the old Exhibit C here as Exhibit B.

tab in the Nextel PRW is a sub-category called Interoperability Planning and Stakeholder Coordination, a real and critical task in rebanding implementation.

In quoting (§ 28) from the County's Reply PRM on "planning, execution and problem-solving," the Order appears to read this as a reference to the PFA process, for it then says (§ 30) the County has represented its plans as "already" defined, refined and agreed upon. That is not what the County said in its Reply PRM. It did not use the past tense which would have been appropriate to refer to something already completed. It used a future tense – "can be" – precisely because refinement and perhaps new understandings of the collaborative agreement must continue throughout the rebanding process.

Again, the RR (Order, 29) understands the separate roles of Motorola and RCC, and does not find them duplicative in this category of infrastructure work. The Order (§30) comes to a contrary conclusion by adopting Nextel's pejorative and inaccurate term, "shadow," to mischaracterize a valuable oversight process that is no more duplicative than an architect's on-site monitoring of construction proceeding under the architect's plans. On the basis of its misunderstandings and misreadings, the FCC staff, without further explanation, accepts Nextel's draconian offer of less than 25% of RCC's estimate for its critical task of on-going technical oversight.

Again, the County respectfully requests that the Mediator's award to RCC in this category be restored.

The Order (§ 24) agrees with the RR (28) that the County's proposal for system documentation is overstated. Although the Order "credits" the County's discussion in its Position Statement, and we appreciate the reference, this statement was not meant to be

the record on the subject. Instead, the County explained at some length in its Reply PRM (10-11) why it had asked Motorola essentially to treat the conventional overlay system – with an expected life of three years – as if it were permanent for the purposes of this record-keeping. While the bulky three-ring binders of documentation for each site could not feasibly be placed on the written record here, they were shared with Nextel.

Full documentation of the overlay system became all the more important when the County agreed to give up a three-year Motorola maintenance contract in exchange for Nextel’s long-delayed approval of the back-to-back conventional system concept.²⁵ Without the historical reassurance the County has enjoyed in such a formal maintenance agreement, the cited discussion in the Reply PRM takes on added weight, notably this sentence at 10: “Documentation can be a major contributor to whether a technician can quickly restore a compromised system or whether it takes excessive time to acquire an understanding of the system before . . . troubleshooting . . .”

We believe the Order viewed the issue through the wrong lens when it referenced the comparable facilities standard. The issue here is minimum disruption²⁶ (and its counterpart of quick repair) when trouble strikes. The Order suggests that the County has not rebutted the sufficiency of a Nextel cost estimate one-fifth the amount proposed by Motorola. We respectfully disagree because, for the reasons given on the record and reviewed above, merely updating system documentation will not do. We ask that the Motorola estimate be restored.

²⁵ County PRM at 3-4. Although the concession on the maintenance contract was supposed to be contingent, both Nextel and the Mediator treated it as permanent. Thus, the County has agreed, in the current negotiations on the FRA, to adopt a “time and materials” approach to conventional overlay maintenance if and as needed.

²⁶ Report and Order, Docket 02-55, FCC 04-168, released August 6, 2004, ¶¶ 2, 188. *See also*, Memorandum Opinion and Order, FCC 07-92, released 5/18/07, ¶ 8. (“[O]ne of the most critical of these goals is timely and efficient completion of the rebanding process, to ensure that the interference problem that threatens 800 MHz public safety systems is resolved as quickly and as comprehensively as possible.”)

Testing costs. As in the above discussions of subscriber and infrastructure costs, the Order neglects the record on at least one of the suite of tests at issue. Speaking at ¶ 59, the FCC staff finds no more than an “assertion that this fire station alerting feature requires additional functional testing.” The RR (33) is satisfied with the explanation given by Motorola (County PRM, 8-9), at some length, on the County’s behalf:

Most jurisdictions have accepted a 4-test package best described as one all-sites test and three additional functional tests that can be conducted from a single location by a lone System Technician, with 4 to 8 hours to conduct those tests. Charles County has requested a 19-test battery. Included is one comprehensive all-sites test of the trunking system, which requires either one technician visiting each site while a second is at the Prime Site, or nine technicians testing simultaneously, or a combination thereof, who will roll through verifying each of the proper frequencies/control channels that have been programmed into the new system codeplug and the talkgroups are performing as designed. The testing of fire station server functionality in trunking and Failsoft modes, and testing the fire alerting functions at single stations and at multiple stations, requires personnel at the ECC and the stations to verify each function. Tom Kulp of Wireless Communications indicated that frequency changes can affect the phasing of the alerting system resulting in a critical failure. The remaining tests are less manpower-intensive, but many require at least two people as site trunking tests/Failsoft tests are conducted at a remote site while a technician at the Prime Site puts the system into Site Trunking and/or Failsoft. There is no comparison to the “typical” tests noted by Nextel as consuming 4-8 hours. None of the other licensees accepting 8 hours employed RF based fire station alerting. Eighty hours is required to conduct the full battery of tests requested by the County.²⁷

This is far more than the mere assertion the Order makes it out to be, and far superior to the Nextel criticism (Order, 53), which relies on non-dispositive cost metrics and irrelevant comparisons to other licensees not possessing fire alerting systems. The County asks that the Mediator’s award for functional testing be restored.

Global management services. Although the Order (¶¶ 95, 103) and the RR are in agreement on this category, we believe their accord springs from the faulty premise that, as between Motorola and RCC, the former continues to be the lead actor. (Order, ¶ 88) This is not accurate. The County is responsible for global project management, and

²⁷ E-mail from James Charron to James Hobson, February 10, 2009. “Nine technicians testing simultaneously” assumes the technician at the Prime Site would service the co-located 10th remote site. (emphasis added)

apart from management services associated with infrastructure, subscribers and testing, where Motorola has the larger role, the County relies far more on RCC than Motorola.²⁸ On the basis of that benchmarking, which was accepted in the 2007 decision as a means of allocating costs, RCC's greater number of hours is understandable and appropriate. This is particularly true given that Motorola plays almost no role in the interoperability planning and stakeholder coordination which is a substantial portion of global management services.²⁹

The Order's discussion of global management services is wrong-headed and imprudently pejorative. It begins (§§ 91, 95), as ever, with cost metrics as if dispositive. These are updated to September of 2009, although the Order started with December of 2008, and then compounded the confusion by dismissing a better than 15% rise in the project management statistics over that period. (Note 8, *supra*) By referring to the County's global management costs as "layered," the Order implies improper padding.³⁰ There is nothing hidden about these costs in either the County's (PRM, Exhibit C, relabeled here Exhibit B) or Nextel's (PRW, Professional Services tab) reckonings. There is an overall project management function to be performed, independently of the categorical PM functions. Nextel itself acknowledges this (Order, § 82), but simply differs over its magnitude.

The Order's proof of "duplication" in County costs is to refer (Note 205) to a discussion of Motorola management costs in Nextel's PRM which never uses the term.

²⁸ A look at the Professional Services tab of the final PRW (column Q, lines 19 and 120) demonstrates that the Motorola hours are less than two-thirds of the RCC hours.

²⁹ Motorola plays a distinctive role, of course, in the NCR 20 regional coordination of subscriber interoperability, but that role is funded separately. (Note 21, *supra*)

³⁰ We cannot identify the \$400,000, said to be a "quadrupling" of the County's overall project management costs. Order, §§ 91-93. This number and characterization do not appear in the Nextel record or the RR. We ask that the Commission derive these for us.

Nextel may consider the County's management costs excessive, but it never demonstrates they are duplicative.

With regard to the interoperability planning and stakeholder coordination aspect of global management services, the Order (§ 103) charges the County with *post hoc* argument outside the record. We believe this mischaracterizes the County's Statement of Position. The County was responding to a point made in the RR (at 40), which implied that the County had been asked – but failed – to explain why the contribution of RCC on this topic in the PFA was so “modest” by comparison with the much larger role envisioned in the FRA. The question did not come up during mediation. If it had, the County would have answered as it did in the Statement of Position (at 7-8), and we stand here on that answer. We were surprised by the Mediator's statement in the RR, and we had every right to respond to it at the only opportunity given us.

In any event, the Statement of Position was not the first time the County had explained RCC's important role in interoperability planning and stakeholder coordination. It was there from the beginning in those pages of the Cost Estimate attached to the County's PRM as Exhibit C (reattached here as Exhibit B). Awarding RCC just one hour in this sub-category for every seven granted the County internal staff drastically devalues the consultant's role as lead technical advisor, the more so given the system differences in neighboring St. Mary's County.

It would seem from the Order's use of the phrase “Looking to the record . . .” (§103), it has given no credit to the County's arguments summarized at § 102). We ask that the arguments, as set forth in the Position Statement at 7-8, be considered a part of the record and that RCC's hours for the global management category be fully restored.

Conclusion and request for disclosure. For the reasons discussed above, the County asks that the funds be restored that were granted by the Mediator’s Recommended Resolution in the subscriber, infrastructure and testing categories, but disallowed in the Order. Separately we request that the subtraction of funds for system documentation be reversed. We ask that the \$108,748.40 disapproved by the Order for RCC in the global management services category also be restored.

So that the County may be at least partly apprised of the foundation for the cost metrics against which it has been evaluated by the Order, we ask the FCC to request the following from the TA, to be provided to the County:³¹

For Stage 2 FRAs Only

1. For all licensees whose numbers of subscriber units fall into the same classification as the County (2001-4000 units), the dollar total and the percentile rank of that total in the following sub-categories, including the percentage the sub-category dollar total represents of the total deal.

Subs	Infra	Engineering (Implem.)	PM	Interim Equip	Overlay System	Training	Perf. (base)	Perf. (acc.)
FRA prep	PreImp Plan.	Legal	SubUnit Travel	Infra Travel	Other Travel	Conting.	Mater. subs	Mater. Infra.

2. The same information for all licensees whose numbers of sites are within the range of 10 above to 10 below the number (12)³² in the requesting licensee's system.

3. The same information for all licensees whose numbers of repeaters are within the range of 50 above to 50 below the number (110)³³ in the requesting licensee's system.

³¹ If the data were available in time, it could be provided to both the County and to Nextel for comments within the pleading cycle of this Application for Review. The data requested is approximately the same as that now provided – but not in time for Charles County’s entry a year ago – to licensees entering FRA negotiation. See, e.g., the individualized set of cost metrics made available to Montgomery County, Maryland on June 25, 2009.

³² 10 RF sites, 2 control points (5 BDA sites omitted).

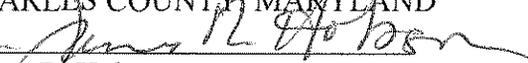
4. For the subscriber category-comparable deals in 1, the number of portables and mobiles, respectively, to be retuned, reprogrammed or replaced.

5. For the subscriber category-comparable deals in 1, the percentage of \$ devoted to subscribers vs. infrastructure.

6. For the repeater category of comparable deals in 3, the repeater retune costs.

Respectfully submitted,

CHARLES COUNTY, MARYLAND

By 

James R. Hobson

Miller & Van Eaton, P.L.L.C.

1155 Connecticut Avenue, N.W.,

Suite 1000

Washington, D.C. 20036-4320

(202) 785-0600

November 18, 2009

ITS ATTORNEY

Certificate of Service

The foregoing Application for Review of Charles County, Maryland has been served electronically today upon:

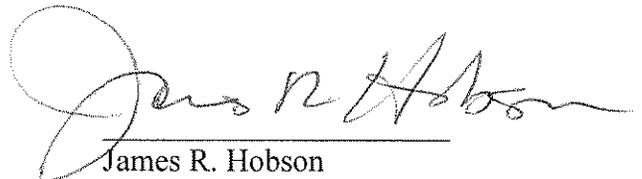
pshsb@fcc.gov

bolcott@ssd.com

TAMediation@ssd.com

Patrick.Mcfadden@dbr.com

November 18, 2009


James R. Hobson

³³ 80 NPSPAC trunking stations, 30 NPSPAC conventional system stations.

Charles County, MD Radio Communications System

Charles County, MD Frequency Reconfiguration Cost Estimate Prologue

I. Introduction. Charles County, MD currently utilizes two distinct 800 MHz NPSPAC radio communications systems for daily operations. The County utilizes an 8-channel, 10-site Motorola 4.1 SmartZone mixed-mode trunked simulcast network as defined by FCC call signs WPZH908 & WPZR834. The County also utilizes a 10-site, 3-channel conventional simulcast system for NPSPAC mutual aid purposes as defined by FCC call signs WPZI729 & WPZR835. The County has partnered with ATC at nine of the eleven tower sites to collocate its public safety radio systems on these commercially-owned sites. The ATC RF sites for Charles County are: La Plata Sheriff, Animal Shelter, Gilbert Run Park, Glasva, Nanjemoy, Pisgah, New Landfill, Radio Station Road, and Breeze Farm. The County independently owns two additional sites: Indian Head Naval Base and Waldorf Industrial Park. All sites are currently collocation sites. The County utilizes a loop microwave network to interconnect these sites and the 911 Center in La Plata is connected to the radio system via a combination of microwave and redundant fiber optic links.

Charles County has consolidated most of its County radio operations on its 800 MHz infrastructure with internal agencies such as: County Sheriff, Fire/EMS, Emergency Management, Emergency Services, Emergency Communications, Utilities, Planning and Growth Management, Community Services, Public Facilities/Works, and Animal Control. The County system currently utilizes 8 NPSPAC trunking channels which serve as the primary mechanism for Fire/EMS station alerting (Motorola MOSCAD-based Fire Alerting subsystem). Throughout the Rebanding process, Charles County must pay close attention to the available trunked channels in order to preserve as much system capacity so as to properly serve the variety of mission-critical facilities and stakeholders.

The County has created a high level of interoperability with its geographical neighbors as depicted in Figure 1. Interoperability takes two forms with respect to Charles County operations: trunking system exchange and conventional channel interoperability. In actuality, Charles County has made provisions to work extensively via radio with every Region 20 licensee and many Region 42 licensees using the five 800 MHz NPSPAC conventional mutual aid channels and the six National Capital Region "RINS" channels. For sake of clarity, Figure 1 depicts the primary agencies with which Charles County would interoperate via 800 MHz on a routine basis using any combination of 800 MHz trunking system exchange, 800 MHz NPSPAC conventional, and NCR RINS channels.

To date, trunking 800 MHz talkgroups have been exchanged with Calvert County, Fairfax County, and Prince William County for mutual aid purposes. The County continues to work on establishing MOUs with other compatible 800 MHz trunking users to facilitate even greater levels of interoperability. Charles County works primarily with St. Mary's County via the NPSPAC conventional mutual aid channels. As mentioned, 800 MHz NPSPAC and the RINS channels are a common denominator for 800 MHz interoperability throughout the National Capital Region (FCC Region 20/42 licensees). Some of the additional interoperability partners which have purchased compatible 800 MHz subscribers for County interoperability include: Maryland State Police, Maryland Transportation Authority, Prince George's County, Indian

System Personnel

Tony Rose /RJ Williams/Glenn O'Neill (County) and Steve Gompers(RCC) are the Charles County operational and technical team, respectively. Both parts are essential to the care and feeding of a public safety radio system. Tony/RJ/Glenn are not engineers and Steve is not a public safety professional.

The County does not ever turn its vendors like Motorola or Wireless Communications loose. Instead, the County has adopted, and always will adopt, the strategy of being very engaged with its vendors to ensure operational and technical success.

The County has 7+ years of experience with its current public safety system and 2+ decades with its previous system. This history has given rise to a set of Best Practices. The County does not intend to deviate from its Best Practices as communicated throughout the course of PFA and FRA negotiations.

CHARLES COUNTY, MD 800 MHZ REBANDING FRA INTERNAL COSTS ESTIMATE-PHASE 1

Charles County Rebanding Reconfiguration Resources-Phase 1

Project Team Estimated Hours

Budgetary Reconfiguration Line Item	Tony Rose	RJ Williams	Glenn O'Neil	Paul Comfort	Bill Stephens	Roger Fink	Agency Liaison	Kathy Lewis
FCC Regulatory	16	0	0	0	0	0	0	0
Legal Support	0	0	0	0	0	80	0	0
Project Management	505.5	166.75	299	92	92	0	0	0
Engineering & Implementation Support	24	24	48	0	0	0	0	0
Subscriber Reconfiguration Activities	8	8	1204	0	0	0	232	192
FNE Reconfiguration Activities	0	0	180	0	0	0	0	0
Acceptance Testing Activities Internal & External	0	0	276	0	0	0	160	0
Interoperability Planning & Stakeholder Coordination	368	322	0	0	0	0	0	0

Project Team Estimated Hourly Rates

Budgetary Reconfiguration Line Item	Tony Rose	RJ Williams	Glenn O'Neil	Paul Comfort	Bill Stephens	Roger Fink	Agency Liaison	Kathy Lewis
FCC Regulatory	\$ 60	\$ 60	\$ 50	\$ 100	\$ 65	\$ 100	\$ 25	\$ 30
Legal Support	\$ 60	\$ 60	\$ 50	\$ 100	\$ 65	\$ 100	\$ 25	\$ 30
Project Management	\$ 60	\$ 60	\$ 50	\$ 100	\$ 65	\$ 100	\$ 25	\$ 30
Engineering & Implementation Support	\$ 60	\$ 60	\$ 50	\$ 100	\$ 65	\$ 100	\$ 25	\$ 30
Subscriber Reconfiguration Activities	\$ 60	\$ 60	\$ 50	\$ 100	\$ 65	\$ 100	\$ 25	\$ 30
FNE Reconfiguration Activities	\$ 60	\$ 60	\$ 50	\$ 100	\$ 65	\$ 100	\$ 25	\$ 30
Acceptance Testing Activities Internal & External	\$ 60	\$ 60	\$ 50	\$ 100	\$ 65	\$ 100	\$ 25	\$ 30
Interoperability Planning & Stakeholder Coordination	\$ 60	\$ 60	\$ 50	\$ 100	\$ 65	\$ 100	\$ 25	\$ 30

Project Team Estimated Costs

Budgetary Reconfiguration Line Item	Tony Rose	RJ Williams	Glenn O'Neil	Paul Comfort	Bill Stephens	Roger Fink	Agency Liaison	Kathy Lewis	
FCC Regulatory	\$ 960.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
Legal Support	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 8,000.00	\$ -	\$ -	
Project Management	\$ 30,330.00	\$ 10,005.00	\$ 14,950.00	\$ 9,200.00	\$ 5,980.00	\$ -	\$ -	\$ -	
Engineering & Implementation Support	\$ 1,440.00	\$ 1,440.00	\$ 2,400.00	\$ -	\$ -	\$ -	\$ -	\$ -	
Subscriber Reconfiguration Activities	\$ 480.00	\$ 480.00	\$ 60,200.00	\$ -	\$ -	\$ -	\$ 5,800.00	\$ 5,760.00	
FNE Reconfiguration Activities	\$ -	\$ -	\$ 9,000.00	\$ -	\$ -	\$ -	\$ -	\$ -	
Acceptance Testing Activities Internal & External	\$ -	\$ -	\$ 13,800.00	\$ -	\$ -	\$ -	\$ 4,000.00	\$ -	
Interoperability Planning & Stakeholder Coordination	\$ 22,080.00	\$ 18,320.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
TOTALS	\$ 55,290.00	\$ 31,245.00	\$ 100,350.00	\$ 9,200.00	\$ 5,980.00	\$ 8,000.00	\$ 9,800.00	\$ 5,760.00	\$ 225,625.00

TOTAL HOURLY Reconfiguration COSTS

Miscellaneous Project Expenses

Budgetary Reconfiguration Line Item	Tony Rose	RJ Williams	Glenn O'Neil	Paul Comfort	Bill Stephens	Roger Fink	Agency Liaison	Kathy Lewis	Miscellaneous
Vehicle Schedule/Shuttle Logistics									\$ 14,695.20
Personnel Schedule/Shuttle Logistics									\$ 77,875.00
Miscellaneous Trips/Fuel (Mileage Reimbursement)									\$ 4,625.18
TOTALS	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 97,195.38

TOTAL EXPENSES \$ 97,195.38

TOTAL CHARLES COUNTY PHASE I INTERNAL RECONFIGURATION COSTS (INCLUDING EXPENSES) \$ 322,821.38

CHARLES COUNTY, MD 800 MHZ REBANDING FRA INTERNAL COSTS ESTIMATE-PHASE 1

Charles County Rebanding Reconfiguration Cost Estimate Worksheet-Phase 1

BUDGETARY LINE ITEMS	TASK	ESTIMATED HOURS	RESOURCE	RESOURCE HOURLY RATE	RESOURCE COST ESTIMATE	EXPENSES	COMMENTS
FCC Regulatory							
	Regulatory Review/Oversight / Management	16	Tony Rose	\$ 60.00	\$ 960.00		
Legal Support							
	FRA Draft/Review/Analysis	40	Roger Fink	\$ 100.00	\$ 4,000.00		
	FRA Negotiations	40	Roger Fink	\$ 100.00	\$ 4,000.00		
Project Management							
	Executive Management Briefing/Oversight	92	Bill Stephens	\$ 65.00	\$ 5,980.00		Assumes 23-Month Phase I Calendar Project Timeline per latest NCR Schedules (12/08-10/10). Approximately one 4-hour project briefing per month for 23 months.
	Project Administration / Scheduling / Contract Management	299	Glenn O'Neil	\$ 50.00	\$ 14,950.00		Assumes 23-Month Phase I Calendar Project Timeline per latest NCR Schedules (12/08-10/10). Approximately 13 hours per month to match Motorola PM involvement.
	Executive Management Briefing/Oversight	92	Paul Comfort	\$ 100.00	\$ 9,200.00		Assumes 23-Month Phase I Calendar Project Timeline per latest NCR Schedules (12/08-10/10). Approximately one 4-hour project briefing per month for 23 months.
	Executive Management Briefing/Oversight	92	RJ Williams	\$ 60.00	\$ 5,520.00		Assumes 23-Month Phase I Calendar Project Timeline per latest NCR Schedules (12/08-10/10). Approximately one 4-hour project briefing per month for 23 months.
	Project Administration / Scheduling / Contract Management	74.75	RJ Williams	\$ 60.00	\$ 4,485.00		Assumes 23-Month Phase I Calendar Project Timeline per latest NCR Schedules (12/08-10/10). Approximately 3.25 hours per month (25% Motorola PM involvement).
	Executive Management Briefing/Oversight	92	Tony Rose	\$ 60.00	\$ 5,520.00		Assumes 23-Month Phase I Calendar Project Timeline per latest NCR Schedules (12/08-10/10). Approximately one 4-hour project briefing per month for 23 months.
	FRA Negotiations	80	Tony Rose	\$ 60.00	\$ 4,800.00		
	Project Controls/Finances	184	Tony Rose	\$ 60.00	\$ 11,040.00		Assumes 23-Month Phase I Calendar Project Timeline per latest NCR Schedules (12/08-10/10). Approximately 8-hours per month dedicated to project controls/financial management/invoice review/etc. for 23 months.
	Project Administration / Scheduling / Contract Management	149.5	Tony Rose	\$ 60.00	\$ 8,970.00		Assumes 23-Month Phase I Calendar Project Timeline per latest NCR Schedules (12/08-10/10). Approximately 6.5 hours per month (50% Motorola PM involvement).
Engineering & Implementation Support							
	Cutover Planning/Finalization	16	Glenn O'Neil	\$ 50.00	\$ 800.00		Assumes 1-Week Cutover Planning/Finalization Period. 16 hours per week dedicated to interactive cutover planning.
	Detailed Design Review Participation/Oversight	8	Glenn O'Neil	\$ 50.00	\$ 400.00		Assumes 1-Week DDR Period. 8 hours per week dedicated to DDR process.
	Final Documentation Review	24	Glenn O'Neil	\$ 50.00	\$ 1,200.00		

CHARLES COUNTY, MD 800 MHZ REBANDING FRA INTERNAL COSTS ESTIMATE-PHASE 1

Charles County Rebanding Reconfiguration Cost Estimate Worksheet-Phase 1

BUDGETARY LINE ITEMS	TASK	ESTIMATED HOURS	RESOURCE	RESOURCE HOURLY RATE	RESOURCE COST ESTIMATE	EXPENSES	COMMENTS
	Cutover Planning/Finalization	16	RJ Williams	\$ 60.00	\$ 960.00		Assumes 1-Week Cutover Planning/Finalization Period. 16 hours per week dedicated to interactive cutover planning.
	Detailed Design Review Participation/Oversight	8	RJ Williams	\$ 60.00	\$ 480.00		Assumes 1-Week DDR Period. 8 hours per week dedicated to DDR process.
	Cutover Planning/Finalization	16	Tony Rose	\$ 60.00	\$ 960.00		Assumes 1-Week Cutover Planning/Finalization Period. 16 hours per week dedicated to interactive cutover planning.
	Detailed Design Review Participation/Oversight	8	Tony Rose	\$ 60.00	\$ 480.00		Assumes 1-Week DDR Period. 8 hours per week dedicated to DDR process.
Subscriber Reconfiguration Activities							
	Agency Liaison/Liaison/Fleet Logistical Management	192	Agency Liaison	\$ 25.00	\$ 4,800.00	\$ 280.80	Assumes 24 weeks (Motorola duration) at 8 hrs/week
	User Training	40	Agency Liaison	\$ 25.00	\$ 1,000.00	\$ 58.50	Assumes 1 week at 40 hrs/week for user training activities
	Reprogramming/Retune/Replacement Oversight/Subcontractor Management/Field Supervision/Inventory Control/Encryption Management	968	Glenn O'Neil	\$ 50.00	\$ 48,400.00	\$ 842.40	Assumes 121 work days (Motorola duration) at 8 hrs/work-day
	Template Design/Reconfiguration/Testing	212	Glenn O'Neil	\$ 50.00	\$ 10,600.00		Assumes 2 hours/template for 106 templates
	User Training	24	Glenn O'Neil	\$ 50.00	\$ 1,200.00	\$ 35.10	Assumes 1 week at 24 hrs/week for user training activities
	Template Design/Reconfiguration/Testing	8	RJ Williams	\$ 60.00	\$ 480.00		**Reduction Offered. Lt. Williams to provide Law Enforcement oversight and 8 hours internal consultation assuming Gompers/O'Neil review/analyze every Law Enforcement template @ 2 hours/template. [Original: Assumes 2 hours/template for 40 templates]
	Template Design/Reconfiguration/Testing	8	Tony Rose	\$ 60.00	\$ 480.00		**Reduction Offered. Tony Rose to provide Fire/EMS/EMA & Non-Public Safety oversight and 8 hours internal consultation assuming Gompers/O'Neil review/analyze every Fire/EMS/EMA/NPS template @ 2 hours/template. [Original: Assumes 2 hours/template for 70 templates]
	Database Management/Subscriber Inventory Management	192	Kathy Lewis	\$ 30.00	\$ 5,760.00		Assumes 24 weeks (Motorola duration) at 8 hrs/week
FNE Reconfiguration Activities							
	BDA Site Reconfiguration Oversight/Subcontractor Management/Field Supervision/ECC Coordination	36	Glenn O'Neil	\$ 50.00	\$ 1,800.00	\$ 58.50	**Reduction Offered. Motorola currently estimating 36 hours for BDA equipment reconfiguration. [Original: Motorola assuming 45 hours duration for this task. 5 BDA facilities to reband/test.]

CHARLES COUNTY, MD 800 MHZ REBANDING FRA INTERNAL COSTS ESTIMATE-PHASE 1

Charles County Rebanding Reconfiguration Cost Estimate Worksheet-Phase 1

BUDGETARY LINE ITEMS	TASK	ESTIMATED HOURS	RESOURCE	RESOURCE HOURLY RATE	RESOURCE COST ESTIMATE	EXPENSES	COMMENTS
	RF Site Reconfiguration Oversight/Subcontractor Management/Field Supervision/ECC Coordination	144	Glenn O'Neil	\$ 50.00	\$ 7,200.00	\$ 140.40	Motorola assuming 12 days duration for this task at 12 hours/day.
Acceptance Testing Activities							
	ECC Pre-Rebanding CATP Participation	80	Agency Liaison	\$ 25.00	\$ 2,000.00		Motorola assuming 80 hours duration for this task.
	ECC Post-Rebanding CATP Participation	80	Agency Liaison	\$ 25.00	\$ 2,000.00		Motorola assuming 80 hours duration for this task.
	Pre-Rebanding BDA Testing Oversight	20	Glenn O'Neil	\$ 50.00	\$ 1,000.00	\$ 58.50	5 BDA facilities to test @ 4 hours/facility.
	Pre-Rebanding Coverage Testing Oversight/Subcontractor Management/ECC Coordination	80	Glenn O'Neil	\$ 50.00	\$ 4,000.00	\$ 351.00	Motorola assuming 80 hours duration for this task.
	Post-Rebanding Coverage Testing Oversight/Subcontractor Management/ECC Coordination	80	Glenn O'Neil	\$ 50.00	\$ 4,000.00	\$ 351.00	Motorola assuming 80 hours duration for this task.
	Functionality Testing Oversight/Subcontractor Management/ECC Coordination	80	Glenn O'Neil	\$ 50.00	\$ 4,000.00		Motorola assuming 80 hours duration for this task.
	Testing Results Review/Analysis	16	Glenn O'Neil	\$ 50.00	\$ 800.00		
Internal & External Interoperability Planning & Stakeholder Coordination							
	National Capital Region Reconfiguration Implementation Participation/Coordination	0	Glenn O'Neil	\$ 50.00	\$ -		**Reduction Offered. Lt. RJ Williams (Law Enforcement) and Tony Rose (Fire/EMS) will represent Charles County at all I/OP meetings. [Original: Assumes 23-Month Phase I Calendar Project Timeline per latest NCR Schedules (12/08-10/10). Approximately one 8-hour coordination meeting per month for 23 months.]
	Southern MD Reconfiguration Implementation Participation/Coordination	0	Glenn O'Neil	\$ 50.00	\$ -		**Reduction Offered. Lt. RJ Williams (Law Enforcement) and Tony Rose (Fire/EMS) will represent Charles County at all I/OP meetings. [Original: Assumes 23-Month Phase I Calendar Project Timeline per latest NCR Schedules (12/08-10/10). Approximately one 4-hour coordination meeting per month for 23 months.]
	Stakeholder/Agency Coordination/Briefing	0	Glenn O'Neil	\$ 50.00	\$ -		**Reduction Offered. Lt. RJ Williams (Law Enforcement) and Tony Rose (Fire/EMS) will represent Charles County at all I/OP meetings. [Original: Assumes 23-Month Phase I Calendar Project Timeline per latest NCR Schedules (12/08-10/10). Approximately two 2-hour project briefings per month for 23 months.]

CHARLES COUNTY, MD 800 MHZ REBANDING FRA INTERNAL COSTS ESTIMATE-PHASE 1

Charles County Rebanding Reconfiguration Cost Estimate Worksheet-Phase 1

BUDGETARY LINE ITEMS	TASK	ESTIMATED HOURS	RESOURCE	RESOURCE HOURLY RATE	RESOURCE COST ESTIMATE	EXPENSES	COMMENTS	
	National Capital Region Reconfiguration Implementation Participation/Coordination	184	RJ Williams	\$ 60.00	\$ 11,040.00		Assumes 23-Month Phase I Calendar Project Timeline per latest NCR Schedules (12/08-10/10). Approximately one 8-hour coordination meeting per month for 23 months.	
	Southern MD Reconfiguration Implementation Participation/Coordination	92	RJ Williams	\$ 60.00	\$ 5,520.00		Assumes 23-Month Phase I Calendar Project Timeline per latest NCR Schedules (12/08-10/10). Approximately one 4-hour coordination meeting per month for 23 months.	
	Stakeholder/Agency Coordination/Briefing	46	RJ Williams	\$ 60.00	\$ 2,760.00		Assumes 23-Month Phase I Calendar Project Timeline per latest NCR Schedules (12/08-10/10). Approximately one 2-hour project briefing per month for 23 months.	
	National Capital Region Reconfiguration Implementation Participation/Coordination	184	Tony Rose	\$ 60.00	\$ 11,040.00	\$ 1,426.23	Assumes 23-Month Phase I Calendar Project Timeline per latest NCR Schedules (12/08-10/10). Approximately one 8-hour coordination meeting per month for 23 months.	
	Southern MD Reconfiguration Implementation Participation/Coordination	92	Tony Rose	\$ 60.00	\$ 5,520.00	\$ 403.65	Assumes 23-Month Phase I Calendar Project Timeline per latest NCR Schedules (12/08-10/10). Approximately one 4-hour coordination meeting per month for 23 months.	
	Stakeholder/Agency Coordination/Briefing	92	Tony Rose	\$ 60.00	\$ 5,520.00		Assumes 23-Month Phase I Calendar Project Timeline per latest NCR Schedules (12/08-10/10). Approximately two 2-hour project briefings per month for 23 months.	
Subscriber Reconfiguration Logistical Expenses								
AGENCY	NUMBER OF RADIOS	REMOTE/ CENTRAL PROGRAMMING	PERSONNEL	PERSONNEL HOURLY RATE	PERSONNEL SHUTTLE COST ESTIMATE	"CENTRAL" VEHICLE SHUTTLE COST ESTIMATE	"REMOTE" TRIPS	"REMOTE" FUEL
CCSO R/R/R	750	CENTRAL	Agency Liaison	\$ 25.00	\$ 22,500.00	\$ 5,265.00		\$ -
Fire/EMS/FRAP R/R/R	670	REMOTE	Agency Liaison	\$ 25.00	\$ 9,200.00	\$ -	23	\$ 269.10
DES/EMA/ECC R/R/R	160	CENTRAL	Agency Liaison	\$ 25.00	\$ 8,000.00	\$ 1,872.00		\$ -
Control Stations/BUCS	30	REMOTE	Agency Liaison	\$ 25.00	\$ 1,500.00	\$ -	30	\$ 351.00
ACO R/R/R	15	CENTRAL	Agency Liaison	\$ 25.00	\$ 750.00	\$ 175.50		\$ -
MSP R/R/R	125	CENTRAL	Agency Liaison	\$ 25.00	\$ 6,250.00	\$ 1,462.50		\$ -
MDTA R/R/R	15	CENTRAL	Agency Liaison	\$ 25.00	\$ 750.00	\$ 175.50		\$ -
PGM R/R/R	20	CENTRAL	Agency Liaison	\$ 25.00	\$ 1,000.00	\$ 234.00		\$ -
Public Utilities R/R/R	150	CENTRAL	Agency Liaison	\$ 25.00	\$ 7,500.00	\$ 1,755.00		\$ -
Public Facilities R/R/R	200	CENTRAL	Agency Liaison	\$ 25.00	\$ 10,000.00	\$ 2,340.00		\$ -
Community Services R/R/R	50	REMOTE	Agency Liaison	\$ 25.00	\$ 4,375.00	\$ -		\$ -
Miscellaneous I/OP R/R/R	121	CENTRAL	Agency Liaison	\$ 25.00	\$ 6,050.00	\$ 1,415.70		\$ -
TOTALS	2306				\$ 77,875.00	\$ 14,695.20		\$ 620.10
RADIO RETUNE/REPROGRAMMING/REPLACE RULES								
Average Trip (miles round-trip)=	20							
Mileage Rate (\$/mile)	0.565							
Personnel Logistical Unit Time (Hours)	2							

CHARLES COUNTY, MD 800 MHZ REBANDING FRA CONSULTANT COSTS ESTIMATE-PHASE 1

RCC Rebanding Reconfiguration Cost Estimate Worksheet-Phase 1

BUDGETARY LINE ITEMS	TASK	ESTIMATED HOURS	RESOURCE	RESOURCE HOURLY RATE	RESOURCE COST ESTIMATE	FUEL & TOLL EXPENSES	MEALS & LODGING EXPENSES	COMMENTS
FCC Regulatory								
	Regulatory Review / Oversight / Management	4	Steven Gompers	\$ 200.00	\$ 800.00			**Reduction Offered. [Original: 8 hours.]
Legal Support								
Project Management								**Reduction Offered: Approximately one 1-hour project briefing per month for 23 months. [Original: Assumes 23-Month Phase I Calendar Project Timeline per latest NCR Schedules (12/08-10/10). Approximately one 2-hour project briefing per month for 23 months.]
	Executive Management Briefing/Oversight	23	Dominick Arcuri	\$ 250.00	\$ 5,750.00			
	FRA Negotiations	40	Dominick Arcuri	\$ 250.00	\$ 10,000.00			
	Executive Management Briefing/Oversight	92	Steven Gompers	\$ 200.00	\$ 18,400.00			Assumes 23-Month Phase I Calendar Project Timeline per latest NCR Schedules (12/08-10/10). Approximately one 4-hour project briefing per month for 23 months.
	FRA Negotiations	80	Steven Gompers	\$ 200.00	\$ 16,000.00	\$ 193.20	\$ 100.00	
	Project Controls/Finances	184	Steven Gompers	\$ 200.00	\$ 36,800.00			Assumes 23-Month Phase I Calendar Project Timeline per latest NCR Schedules (12/08-10/10). Approximately 8-hours per month dedicated to project controls/financial management/invoice review/etc. for 23 months.
	Project Administration / Scheduling / Contract Management	149.5	Steven Gompers	\$ 200.00	\$ 29,900.00	\$ 2,221.80	\$ 1,150.00	Assumes 23-Month Phase I Calendar Project Timeline per latest NCR Schedules (12/08-10/10). Approximately 6.5 hours per month (50% Motorola PM involvement).
Engineering & Implementation Support								
	Cutover Planning/Finalization	16	Steven Gompers	\$ 200.00	\$ 3,200.00			Assumes 1-Week Cutover Planning/Finalization Period. 16 hours per week dedicated to interactive cutover planning.
	Detailed Design Review Participation/Oversight	8	Steven Gompers	\$ 200.00	\$ 1,600.00			Assumes 1-Week DDR Period. 8 hours per week dedicated to DDR process.
	Final Documentation Review	40	Steven Gompers	\$ 200.00	\$ 8,000.00			
Subscriber Reconfiguration Activities								

CHARLES COUNTY, MD 800 MHZ REBANDING FRA CONSULTANT COSTS ESTIMATE-PHASE 1

RCC Rebanding Reconfiguration Cost Estimate Worksheet-Phase 1

BUDGETARY LINE ITEMS	TASK	ESTIMATED HOURS	RESOURCE	RESOURCE HOURLY RATE	RESOURCE COST ESTIMATE	FUEL & TOLL EXPENSES	MEALS & LODGING EXPENSES	COMMENTS
	Reprogramming/Retune/Replacement Oversight/Subcontractor Management/Field Supervision/inventory & Database Control/Encryption Management Template Design/Reconfiguration/Testing	144	Steven Gompers	\$ 200.00	\$ 28,800.00	\$ 2,318.40	\$ 1,200.00	**Reduction Offered. Assumes 24 work-weeks (Motorola duration) at 8 hrs/work-week. [Original: Assumes 24 work-weeks (Motorola duration) at 8 hrs/work-week]
		212	Steven Gompers	\$ 200.00	\$ 42,400.00	\$ 676.20	\$ 350.00	Assumes 2 hours/template for 105 templates
FNE Reconfiguration Activities								
	BDA Site Reconfiguration Oversight/Subcontractor Management/Field Supervision/ECC Coordination	36	Steven Gompers	\$ 200.00	\$ 7,200.00	\$ 483.00	\$ 150.00	**Reduction Offered. Motorola currently estimating 36 hours for BDA equipment reconfiguration. [Original: Motorola assuming 45 hours duration for this task. 5 BDA facilities to reband/test.]
	RF Site Reconfiguration Oversight/Subcontractor Management/Field Supervision/ECC Coordination	144	Steven Gompers	\$ 200.00	\$ 28,800.00	\$ 1,159.20	\$ 500.00	Motorola assuming 12 days duration for this task at 12 hours/day.
Acceptance Testing Activities								
	ECC Pre-Rebanding CAIP Participation	80	Jeff Martin	\$ 165.00	\$ 13,200.00	\$ 274.10	\$ 1,700.00	Motorola assuming 80 hours duration for this task.
	ECC Post-Rebanding CAIP Participation	80	Jeff Martin	\$ 165.00	\$ 13,200.00	\$ 274.10	\$ 1,700.00	Motorola assuming 80 hours duration for this task.
	Pre-Rebanding BDA Testing Oversight Pre-Rebanding Coverage Testing Oversight/Subcontractor Management/ECC Coordination Post-Rebanding Coverage Testing Oversight/Subcontractor Management/ECC Coordination	20	Steven Gompers	\$ 200.00	\$ 4,000.00	\$ 193.20	\$ 100.00	5 BDA facilities to test @ 4 hours/facility.
	Functionality Testing Oversight/Subcontractor Management/ECC Coordination	80	Steven Gompers	\$ 200.00	\$ 16,000.00	\$ 966.00	\$ 500.00	Motorola assuming 80 hours duration for this task.
	Testing Results Review/Analysis	16	Steven Gompers	\$ 200.00	\$ 3,200.00			

CHARLES COUNTY, MD 800 MHZ REBANDING FRA CONSULTANT COSTS ESTIMATE-PHASE 1

RCC Rebanding Reconfiguration Cost Estimate Worksheet-Phase 1

BUDGETARY LINE ITEMS	TASK	ESTIMATED HOURS	RESOURCE	RESOURCE HOURLY RATE	RESOURCE COST ESTIMATE	FUEL & TOLL EXPENSES	MEALS & LODGING EXPENSES	COMMENTS
Internal & External Interoperability Planning & Stakeholder Coordination								
	National Capital Region Reconfiguration Implementation Participation / Coordination	184	Steven Gompers	\$ 200.00	\$ 36,800.00	\$ 2,221.80	\$ 1,150.00	Assumes 23-Month Phase I Calendar Project Timeline per latest NCR Schedules (12/08-10/10). Approximately one 8-hour coordination meeting per month for 23 months.
	Southern MD Reconfiguration Implementation Participation / Coordination	92	Steven Gompers	\$ 200.00	\$ 18,400.00	\$ 2,221.80	\$ 1,150.00	Assumes 23-Month Phase I Calendar Project Timeline per latest NCR Schedules (12/08-10/10). Approximately one 4-hour coordination meeting per month for 23 months.

CHARLES COUNTY, MD 800 MHZ REBANDING FRA INTERNAL COSTS ESTIMATE-PHASE 2									
Charles County Rebanding Reconfiguration Resources-Phase 2									
Project Team Estimated Hours									
Budgetary Reconfiguration Line Item	Tony Rose	RJ Williams	Glenn O'Neil	Paul Comfort	Bill Stephens	Roger Fink	Agency Liaison	Kathy Lewis	
FCC Regulatory	8	0	0	0	0	0	0	0	
Legal Support	0	0	0	0	0	0	0	0	
Project Management	252	98	168	56	56	0	0	0	
Engineering & Implementation Support	16	16	24	0	0	0	0	0	
Subscriber Reconfiguration Activities	8	8	884	0	0	0	158	128	
FNE Reconfiguration Activities	0	0	116	0	0	0	0	0	
Acceptance Testing Activities Internal & External	0	0	0	0	0	0	0	0	
Interoperability Planning & Stakeholder Coordination	224	196	0	0	0	0	0	0	
Project Team Estimated Hourly Rates									
Budgetary Reconfiguration Line Item	Tony Rose	RJ Williams	Glenn O'Neil	Paul Comfort	Bill Stephens	Roger Fink	Agency Liaison	Kathy Lewis	
FCC Regulatory	\$ 80	\$ 60	\$ 50	\$ 100	\$ 65	\$ 100	\$ 25	\$ 30	
Legal Support	\$ 60	\$ 60	\$ 50	\$ 100	\$ 65	\$ 100	\$ 25	\$ 30	
Project Management	\$ 60	\$ 60	\$ 50	\$ 100	\$ 65	\$ 100	\$ 25	\$ 30	
Engineering & Implementation Support	\$ 60	\$ 60	\$ 50	\$ 100	\$ 65	\$ 100	\$ 25	\$ 30	
Subscriber Reconfiguration Activities	\$ 80	\$ 60	\$ 50	\$ 100	\$ 65	\$ 100	\$ 25	\$ 30	
FNE Reconfiguration Activities	\$ 60	\$ 60	\$ 50	\$ 100	\$ 65	\$ 100	\$ 25	\$ 30	
Acceptance Testing Activities Internal & External	\$ 60	\$ 60	\$ 50	\$ 100	\$ 65	\$ 100	\$ 25	\$ 30	
Interoperability Planning & Stakeholder Coordination	\$ 60	\$ 60	\$ 50	\$ 100	\$ 65	\$ 100	\$ 25	\$ 30	
Project Team Estimated Costs									
Budgetary Reconfiguration Line Item	Tony Rose	RJ Williams	Glenn O'Neil	Paul Comfort	Bill Stephens	Roger Fink	Agency Liaison	Kathy Lewis	
FCC Regulatory	\$ 480.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
Legal Support	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
Project Management	\$ 15,120.00	\$ 5,880.00	\$ 8,400.00	\$ 5,600.00	\$ 3,640.00	\$ -	\$ -	\$ -	
Engineering & Implementation Support	\$ 960.00	\$ 960.00	\$ 1,200.00	\$ -	\$ -	\$ -	\$ -	\$ -	
Subscriber Reconfiguration Activities	\$ 480.00	\$ 480.00	\$ 44,200.00	\$ -	\$ -	\$ -	\$ 4,200.00	\$ 3,840.00	
FNE Reconfiguration Activities	\$ -	\$ -	\$ 5,800.00	\$ -	\$ -	\$ -	\$ -	\$ -	
Acceptance Testing Activities Internal & External	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
Interoperability Planning & Stakeholder Coordination	\$ 13,440.00	\$ 11,760.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
TOTALS	\$ 30,480.00	\$ 19,080.00	\$ 59,600.00	\$ 5,600.00	\$ 3,640.00	\$ -	\$ 4,200.00	\$ 3,840.00	\$ 126,440.00
Miscellaneous Project Expenses									
Budgetary Reconfiguration Line Item	Tony Rose	RJ Williams	Glenn O'Neil	Paul Comfort	Bill Stephens	Roger Fink	Agency Liaison	Kathy Lewis	Miscellaneous
Vehicle Schedule/Shuttle Logistics									\$ 14,695.20
Personnel Schedule/Shuttle Logistics									\$ 76,000.00
Miscellaneous Trips/Fuel (Mileage Reimbursement)									\$ 2,751.84
TOTALS	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 93,447.04
TOTAL CHARLES COUNTY PHASE 2 INTERNAL RECONFIGURATION COSTS (INCLUDING EXPENSES)									\$ 219,887.04

CHARLES COUNTY, MD 800 MHZ REBANDING FRA INTERNAL COSTS ESTIMATE-PHASE 2

Charles County Rebanding Reconfiguration Cost Estimate Worksheet-Phase 2

BUDGETARY LINE ITEMS	TASK	ESTIMATED HOURS	RESOURCE	RESOURCE HOURLY RATE	RESOURCE COST ESTIMATE	EXPENSES	COMMENTS
FCC Regulatory							
	Regulatory Review / Oversight / Management	8	Tony Rose	\$ 60.00	\$ 480.00		**Reduction Offered. [Original: 16 hours estimated.]
Legal Support							
Project Management							
	Executive Management Briefing/Oversight	56	Bill Stephens	\$ 65.00	\$ 3,640.00		Assumes 14-Month Phase 2 Calendar Project Timeline per latest NCR Schedules (11/10-1/12). Approximately one 4-hour project briefing per month for 14 months.
	Project Administration / Scheduling / Contract Management	168	Glenn O'Neil	\$ 50.00	\$ 8,400.00		Assumes 14-Month Phase 2 Calendar Project Timeline per latest NCR Schedules (11/10-1/12). Approximately 12 hours per month to match Motorola PM involvement.
	Executive Management Briefing/Oversight	56	Paul Comfort	\$ 100.00	\$ 5,600.00		Assumes 14-Month Phase 2 Calendar Project Timeline per latest NCR Schedules (11/10-1/12). Approximately one 4-hour project briefing per month for 14 months.
	Executive Management Briefing/Oversight	56	RJ Williams	\$ 60.00	\$ 3,360.00		Assumes 14-Month Phase 2 Calendar Project Timeline per latest NCR Schedules (11/10-1/12). Approximately one 4-hour project briefing per month for 14 months.
	Project Administration / Scheduling / Contract Management	42	RJ Williams	\$ 60.00	\$ 2,520.00		Assumes 14-Month Phase 2 Calendar Project Timeline per latest NCR Schedules (11/10-1/12). Approximately 3 hours per month (25% Motorola PM involvement).
	Executive Management Briefing/Oversight	56	Tony Rose	\$ 60.00	\$ 3,360.00		Assumes 14-Month Phase 2 Calendar Project Timeline per latest NCR Schedules (11/10-1/12). Approximately one 4-hour project briefing per month for 14 months.
	Project Controls/Finances	112	Tony Rose	\$ 60.00	\$ 6,720.00		Assumes 14-Month Phase 2 Calendar Project Timeline per latest NCR Schedules (11/10-1/12). Approximately 8-hours per month dedicated to project controls/financial management/invoice review/etc for 14 months.
	Project Administration / Scheduling / Contract Management	84	Tony Rose	\$ 60.00	\$ 5,040.00		Assumes 14-Month Phase 2 Calendar Project Timeline per latest NCR Schedules (11/10-1/12). Approximately 6 hours per month (50% Motorola PM involvement).
Engineering & Implementation Support							
	Decommissioning / Cutover Planning / Finalization	8	Glenn O'Neil	\$ 50.00	\$ 400.00		Assumes 1-Week Cutover Planning/Finalization Period. 8 hours per week dedicated to interactive cutover planning.
	Detailed Design Review Participation/Oversight	8	Glenn O'Neil	\$ 50.00	\$ 400.00		Assumes 1-Week DDR Period. 8 hours per week dedicated to DDR process.
	Final Documentation Review	8	Glenn O'Neil	\$ 50.00	\$ 400.00		
	Decommissioning / Cutover Planning / Finalization	8	RJ Williams	\$ 60.00	\$ 480.00		Assumes 1-Week Cutover Planning/Finalization Period. 8 hours per week dedicated to interactive cutover planning.
	Detailed Design Review Participation/Oversight	8	RJ Williams	\$ 60.00	\$ 480.00		Assumes 1-Week DDR Period. 8 hours per week dedicated to DDR process.
	Decommissioning / Cutover Planning / Finalization	8	Tony Rose	\$ 60.00	\$ 480.00		Assumes 1-Week Cutover Planning/Finalization Period. 8 hours per week dedicated to interactive cutover planning.
	Detailed Design Review Participation/Oversight	8	Tony Rose	\$ 60.00	\$ 480.00		Assumes 1-Week DDR Period. 8 hours per week dedicated to DDR process.
Subscriber Reconfiguration Activities							

CHARLES COUNTY, MD 800 MHZ REBANDING FRA INTERNAL COSTS ESTIMATE-PHASE 2

Charles County Rebanding Reconfiguration Cost Estimate Worksheet-Phase 2

BUDGETARY LINE ITEMS	TASK	ESTIMATED HOURS	RESOURCE	RESOURCE HOURLY RATE	RESOURCE COST ESTIMATE	EXPENSES	COMMENTS
	Agency Liaison/Liaison/Fleet						
	Logistical Management	128	Agency Liaison	\$ 25.00	\$ 3,200.00	\$ 187.20	Assumes 16 weeks (Motorola duration) at 8 hrs/week
	User Training	40	Agency Liaison	\$ 25.00	\$ 1,000.00	\$ 58.50	Assumes 1 week at 40 hrs/week for user training activities
	Reprogramming/Retune/Replacement						
	Oversight/Subcontractor Management/Field Supervision/Inventory Control/Encryption Management	648	Glenn O'Neil	\$ 50.00	\$ 32,400.00	\$ 561.60	Assumes 81 work days (Motorola duration) at 8 hrs/work-day
	Template Design/Reconfiguration/Testing	212	Glenn O'Neil	\$ 50.00	\$ 10,600.00		Assumes 2 hours/template for 106 templates
	User Training	24	Glenn O'Neil	\$ 50.00	\$ 1,200.00	\$ 35.10	Assumes 1 week at 24 hrs/week for user training activities
	Template Design/Reconfiguration/Testing	8	RJ Williams	\$ 60.00	\$ 480.00		**Reduction Offered. Lt. Williams to provide Law Enforcement oversight and 8 hours internal consultation assuming Gompers/O'Neil review/analyze every Law Enforcement template @ 2 hours/template [Original: Assumes 2 hours/template for 40 templates]
	Template Design/Reconfiguration/Testing	8	Tony Rose	\$ 60.00	\$ 480.00		**Reduction Offered. Tony Rose to provide Fire/EMS/EMA & Non Public Safety oversight and 8 hours internal consultation assuming Gompers/O'Neil review/analyze every Fire/EMS/EMA/NPS template @ 2 hours/template. [Original: Assumes 2 hours/template for 70 templates]
	Database Management/Subscriber Inventory Management	128	Kathy Lewis	\$ 30.00	\$ 3,840.00		Assumes 16 weeks (Motorola duration) at 8 hrs/week
FNE Reconfiguration Activities:							
	BDA Site Reconfiguration Oversight/Subcontractor Management/Field Supervision/ECC Coordination	36	Glenn O'Neil	\$ 50.00	\$ 1,800.00	\$ 58.50	**Reduction Offered. Motorola currently estimating 36 hours for BDA equipment reconfiguration. [Original: Motorola assuming 45 hours duration for this task. 5 BDA facilities to reband/test.]
	RF Site Reconfiguration Oversight/Subcontractor Management/Field Supervision/ECC Coordination	80	Glenn O'Neil	\$ 50.00	\$ 4,000.00	\$ 117.00	Motorola assuming 80 hours duration for this task.
Acceptance Testing Activities:							
Internal & External Interoperability Planning & Stakeholder Coordination:							
	National Capital Region Reconfiguration Implementation Participation / Coordination	0	Glenn O'Neil	\$ 50.00	\$ -		**Reduction Offered. Lt. RJ Williams (Law Enforcement) and Tony Rose (Fire/EMS) will represent Charles County at all I/OP meetings. [Original: Assumes 14-Month Phase 2 Calendar Project Timeline per latest NCR Schedules (11/10-1/12). Approximately one 8-hour coordination meeting per month for 14 months.]
	Southern MD Reconfiguration Implementation Participation / Coordination	0	Glenn O'Neil	\$ 50.00	\$ -		**Reduction Offered. Lt. RJ Williams (Law Enforcement) and Tony Rose (Fire/EMS) will represent Charles County at all I/OP meetings. [Original: Assumes 14-Month Phase 2 Calendar Project Timeline per latest NCR Schedules (11/10-1/12). Approximately one 4-hour coordination meeting per month for 14 months.]

CHARLES COUNTY, MD 800 MHZ REBANDING FRA CONSULTANT COSTS ESTIMATE-PHASE 2									
RCC Rebanding Reconfiguration Resources-Phase 2									
Project Team Estimated Hours									
Budgetary Reconfiguration Line Item	Dominick Arcuri	Wayne Stack	Steven Gompers	Jeff Martin	Bernie Cowardin	Jeff Pegram	John Tillinghast	Gary Witley	
FCC Regulatory	0	0	2	0	0	0	0	0	
Legal Support	0	0	0	0	0	0	0	0	
Project Management	14	0	252	0	0	0	0	0	
Engineering & Implementation Support	0	0	32	0	0	0	0	0	
Subscriber Reconfiguration Activities	0	0	308	0	0	0	0	0	
FNE Reconfiguration Activities	0	0	100	0	0	0	0	0	
Acceptance Testing Activities Internal & External	0	0	0	0	0	0	0	0	
Interoperability Planning & Stakeholder Coordination	0	0	168	0	0	0	0	0	
Project Team Estimated Hourly Rates									
Budgetary Reconfiguration Line Item	Dominick Arcuri	Wayne Stack	Steven Gompers	Jeff Martin	Bernie Cowardin	Jeff Pegram	John Tillinghast	Gary Witley	
FCC Regulatory	\$ 250	\$ 250	\$ 200	\$ 165	\$ 165	\$ 185	\$ 185	\$ 165	
Legal Support	\$ 250	\$ 250	\$ 200	\$ 165	\$ 165	\$ 185	\$ 185	\$ 165	
Project Management	\$ 250	\$ 250	\$ 200	\$ 165	\$ 165	\$ 185	\$ 185	\$ 165	
Engineering & Implementation Support	\$ 250	\$ 250	\$ 200	\$ 165	\$ 165	\$ 185	\$ 185	\$ 165	
Subscriber Reconfiguration Activities	\$ 250	\$ 250	\$ 200	\$ 165	\$ 165	\$ 185	\$ 185	\$ 165	
FNE Reconfiguration Activities	\$ 250	\$ 250	\$ 200	\$ 165	\$ 165	\$ 185	\$ 185	\$ 165	
Acceptance Testing Activities Internal & External	\$ 250	\$ 250	\$ 200	\$ 165	\$ 165	\$ 185	\$ 185	\$ 165	
Interoperability Planning & Stakeholder Coordination	\$ 250	\$ 60	\$ 200	\$ 165	\$ 165	\$ 185	\$ 185	\$ 165	
Project Team Estimated Costs									
Budgetary Reconfiguration Line Item	Dominick Arcuri	Wayne Stack	Steven Gompers	Jeff Martin	Bernie Cowardin	Jeff Pegram	John Tillinghast	Gary Witley	
FCC Regulatory	\$ -	\$ -	\$ 400.00	\$ -	\$ -	\$ -	\$ -	\$ -	
Legal Support	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
Project Management	\$ 3,500.00	\$ -	\$ 50,400.00	\$ -	\$ -	\$ -	\$ -	\$ -	
Engineering & Implementation Support	\$ -	\$ -	\$ 6,400.00	\$ -	\$ -	\$ -	\$ -	\$ -	
Subscriber Reconfiguration Activities	\$ -	\$ -	\$ 61,600.00	\$ -	\$ -	\$ -	\$ -	\$ -	
FNE Reconfiguration Activities	\$ -	\$ -	\$ 20,000.00	\$ -	\$ -	\$ -	\$ -	\$ -	
Acceptance Testing Activities Internal & External	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
Interoperability Planning & Stakeholder Coordination	\$ -	\$ -	\$ 33,600.00	\$ -	\$ -	\$ -	\$ -	\$ -	
TOTALS	\$ 3,500.00	\$ -	\$ 172,400.00	\$ -	\$ -	\$ -	\$ -	\$ -	TOTAL HOURLY Reconfiguration COSTS \$ 175,900.00
Miscellaneous Project Expenses									
Budgetary Reconfiguration Line Item	Dominick Arcuri	Wayne Stack	Steven Gompers	Jeff Martin	Bernie Cowardin	Jeff Pegram	John Tillinghast	Gary Witley	Miscellaneous
Meals/Lodging									\$ 3,500.00
Fuel/Mileage/Tolls									\$ 6,955.20
TOTALS	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 10,455.20
TOTAL RCC PHASE 2 RECONFIGURATION COSTS (INCLUDING EXPENSES)									\$ 186,355.20

CHARLES COUNTY, MD 800 MHZ REBANDING FRA CONSULTANT COSTS ESTIMATE-PHASE 2

RCC Rebanding Reconfiguration Cost Estimate Worksheet-Phase 2

BUDGETARY LINE ITEMS	TASK	ESTIMATED HOURS	RESOURCE	RESOURCE HOURLY RATE	RESOURCE COST ESTIMATE	FUEL & TOLL EXPENSES	MEALS & LODGING EXPENSES	COMMENTS
FCC Regulatory								
	Regulatory Review / Oversight / Management	2	Steven Gompers	\$ 200.00	\$ 400.00			**Reduction Offered. [Original: 8 hours.]
Legal Support								
Project Management								
	Executive Management Briefing/Oversight	14	Dominick Arcuri	\$ 250.00	\$ 3,500.00			**Reduction Offered. Approximately one 1-hour project briefing per month for 14 months. [Original: Assumes 14-Month Phase 2 Calendar Project Timeline per latest NCR Schedules (11/10-1/12). Approximately one 2-hour project briefing per month for 14 months.]
	Executive Management Briefing/Oversight	56	Steven Gompers	\$ 200.00	\$ 11,200.00			Assumes 14-Month Phase 2 Calendar Project Timeline per latest NCR Schedules (11/10-1/12). Approximately one 4-hour project briefing per month for 14 months.
	Project Controls/Finances	112	Steven Gompers	\$ 200.00	\$ 22,400.00			Assumes 14-Month Phase 2 Calendar Project Timeline per latest NCR Schedules (11/10-1/12). Approximately 8-hours per month dedicated to project controls/financial management/invoice review/etc. for 14 months.
	Project Administration / Scheduling / Contract Management	84	Steven Gompers	\$ 200.00	\$ 16,800.00	\$ 1,352.40	\$ 700.00	Assumes 14-Month Phase 2 Calendar Project Timeline per latest NCR Schedules (11/10-1/12). Approximately 6 hours per month (50% Motorola PM involvement).
Engineering & Implementation Support								
	Decommissioning / Cutover Planning / Finalization	8	Steven Gompers	\$ 200.00	\$ 1,600.00			Assumes 1-Week Cutover Planning/Finalization Period. 8 hours per week dedicated to interactive cutover planning.
	Detailed Design Review Participation/Oversight	8	Steven Gompers	\$ 200.00	\$ 1,600.00			Assumes 1-Week DDR Period. 8 hours per week dedicated to DDR process.
	Final Documentation Review	16	Steven Gompers	\$ 200.00	\$ 3,200.00			
Subscriber Reconfiguration Activities								
	Reprogramming/Retune/ Replacement Oversight/Subcontractor Management/Field Supervision/Inventory & Database Control/Encryption Management	96	Steven Gompers	\$ 200.00	\$ 19,200.00	\$ 1,545.60	\$ 800.00	**Reduction Offered: Assumes 16 work-weeks (Motorola duration) at 6 hrs/work-week. [Original: Assumes 16 work-weeks (Motorola duration) at 8 hrs/work-week]
	Template Design/Reconfiguration/ Testing	212	Steven Gompers	\$ 200.00	\$ 42,400.00	\$ 483.00	\$ 250.00	Assumes 2 hours/template for 106 templates

CHARLES COUNTY, MD 800 MHZ REBANDING FRA CONSULTANT COSTS ESTIMATE-PHASE 2

RCC Rebanding Reconfiguration Cost Estimate Worksheet-Phase 2

BUDGETARY LINE ITEMS	TASK	ESTIMATED HOURS	RESOURCE	RESOURCE HOURLY RATE	RESOURCE COST ESTIMATE	FUEL & TOLL EXPENSES	MEALS & LODGING EXPENSES	COMMENTS
FNE Reconfiguration Activities								
	BDA Site Reconfiguration Oversight/Subcontractor Management/Field Supervision/ECC Coordination	36	Steven Gompers	\$ 200.00	\$ 7,200.00	\$ 483.00	\$ 150.00	**Reduction Offered. Motorola currently estimating 36 hours for BDA equipment reconfiguration. [Original: Motorola assuming 45 hours duration for this task. 5 BDA facilities to reband/test.]
	RF Site Reconfiguration Oversight/Subcontractor Management/Field Supervision/ECC Coordination	64	Steven Gompers	\$ 200.00	\$ 12,800.00	\$ 386.40	\$ 200.00	Motorola assuming 80 hours duration for this task. 2 weeks at 16 hrs/week.
Acceptance Testing Activities								
Internal & External Interoperability Planning & Stakeholder Coordination								
	National Capital Region Reconfiguration Implementation Participation / Coordination	112	Steven Gompers	\$ 200.00	\$ 22,400.00	\$ 1,352.40	\$ 700.00	Assumes 14-Month Phase 2 Calendar Project Timeline per latest NCR Schedules (11/10-1/12). Approximately one 8-hour coordination meeting per month for 14 months.
	Southern MD Reconfiguration Implementation Participation / Coordination	56	Steven Gompers	\$ 200.00	\$ 11,200.00	\$ 1,352.40	\$ 700.00	Assumes 14-Month Phase 2 Calendar Project Timeline per latest NCR Schedules (11/10-1/12). Approximately one 4-hour coordination meeting per month for 14 months.