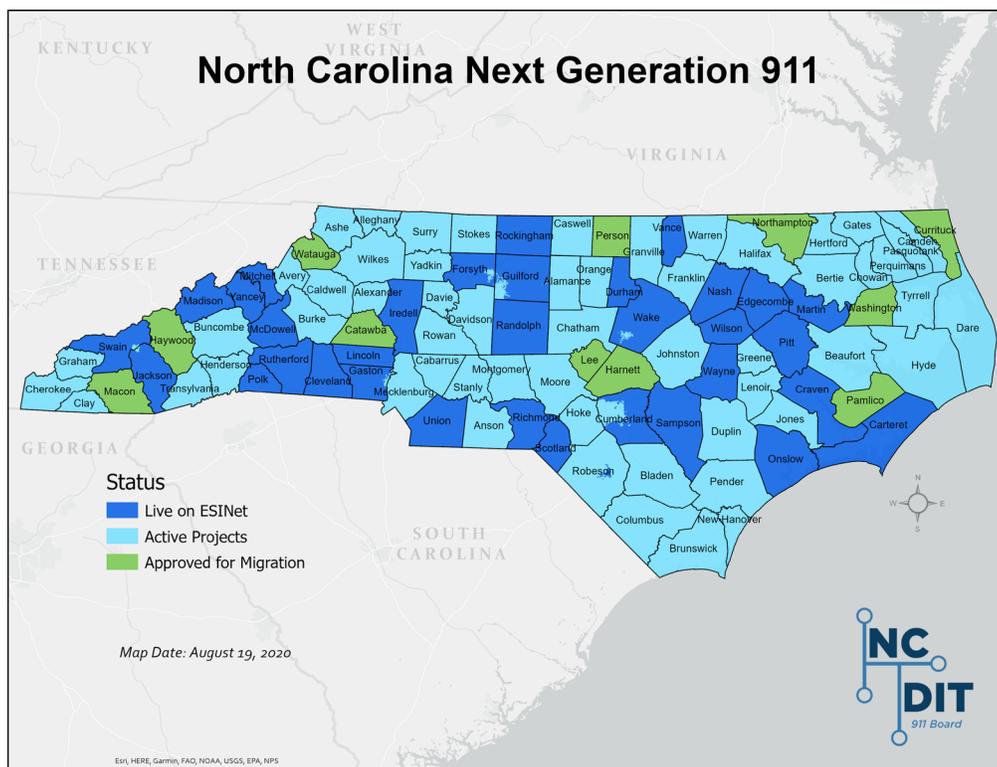




**NORTH CAROLINA 911 BOARD MEETING**  
**Friday, August 28, 2020**  
**Via Simultaneous Communication**  
**Join Microsoft Teams Meeting**  
**984-204-1487 Conference ID: 283 203 919#**  
**10:00 AM – Noon**



***Call to Order***  
**Eric Boyette**

***Roll Call***  
**Pokey Harris**

***Tab 1***  
**Chair's Opening Remarks**  
**Eric Boyette**

## **Tab 2**

### **Ethics Awareness/Conflict of Interest Statement**

**Eric Boyette**

*In accordance with G.S. 138A-15, It is the duty of every Board member to avoid both conflicts of interest and potential conflicts of interest. Does any Board member have any known conflict of interest or potential conflict of interest with respect to any matters coming before the Board today? If so, please identify the actual or potential conflict and refrain from any undue participation in the particular matter involved.*

## **Tab 3**

### **Public Comment**

**Eric Boyette**

*The NC 911 Board welcomes comments from state and local government officials, first responders, finance directors, 911 directors, citizens and interested parties about any 911 issue(s) or concern(s). Your opinions are valued in terms of providing input to the NC 911 Board members. When addressing the Board, please state your name and organization for the record and speak clearly into the microphone.*

***Tab 4***

**Consent Agenda**

**Pokey Harris**

***(Roll Call Consent Vote Required)***

***Tab 4 a)***

**Minutes of Previous Meeting**

**June 26, 2020**

**North Carolina 911 Board Meeting**  
**MINUTES**  
**Via Simultaneous Communication**  
**Microsoft Teams Meeting**  
**Friday, June 26, 2020**  
**10:00 AM – 12:00 PM**

<u>Members Present via Teams</u>	<u>Staff Present via Teams</u>	<u>Guests via Teams</u>
David Bone, (NCACC) Martin County Manager	Richard Bradford, (DOJ) NC 911 Board Legal Counsel	Drew Allvine
Secretary Eric Boyette, (NC CIO) Board Chair	Chris Carlin, NC DIT/NC 911 Board Staff	Josh Briggs
Greg Coltrain, (LEC) Wilkes Communication Sprint	Stephanie Conner, NC DIT/NC 911 Board Staff	John Correllus
Bo Ferguson, (NCLM) City of Durham	James Covington, NC DIT/NC 911 Board Staff	Michael Desmond
Greg Foster, (NC Association of Rescue EMS) Alexander Co. Director of Communications	Kristen Falco, NC DIT/NC 911 Board Staff	Greg Dotson
Stacey Gonyer, (CMRS) Sprint	Tina Gardner, NC DIT/NC 911 Board Staff	Mike Edge
Chuck Greene, (LEC) AT&T	Pokey Harris, NC DIT/NC 911 Board Staff	Ellis Frazier
J.D. Hartman, (NC Sheriff's Association) Davie County	Gerry Means, NC DIT/NC 911 Board Staff	Emily Hughes
Buddy Martinette, (NCSFA) Fire Chief, Wilmington	Stanley Meeks, NC DIT/NC 911 Board Staff	Leigh Jackson
John Moore, (VoIP) Spectrum Communications	David Newberry, NC DIT/NC 911 Board Staff	Jen Johnson
Melanie Neal, APCO	Marsha Tapler, NC DIT/NC 911 Board Staff	Christine Moore
Jude O'Sullivan, (CMRS) Carolina West	Angie Turbeville, NC DIT/NC 911 Board Staff	Mark Newsome
Jeff Shipp, (LEC) Star Telephone		Corrine Rust
Earl Struble, (CMRS) Verizon Sprint	<u>Staff Absent</u>	Mark Whitby
Donna Wright, (NENA) Richmond Co Emergency Services	Rick Blumer, NC DIT/NC 911 Board Staff	Vic Williams
	Ronnie Cashwell, NC DIT/NC 911 Board Staff	
<u>Members Absent</u>	Saman Gharib, NC DIT/NC 911 Board Staff	
Jeff Ledford, (NCACP) City of Shelby PD	Jesus Lopez, NC DIT/NC 911 Board PM	
	Don Rice, NC DIT/NC 911 Board Contract Staff	

**Call to order** — Chairman Boyette called the meeting to order at 10:01 AM, thanking everyone for attending. Ms. Harris then proceed with the roll call.

**Roll Call** - Ms. Harris advised Regional Coordinator Stephanie Conner would call the roll of attendees and monitor the chat for the online meeting, and Regional Coordinator David Newberry would serve as technical facilitator for today's virtual meeting.

## NORTH CAROLINA 911 BOARD MEETING ROLL CALL

Friday, June 26, 2020  
Via Simultaneous Communication with Microsoft Teams Meeting  
10:00 AM – 11:00 AM



NC 911 BOARD MEMBERS	IN PERSON	VIA MS TEAMS/PHONE	NOT PRESENT	
Bone, David	N/A	X		
Boyette, Eric		X		
Coltrain, Greg		X		
Ferguson, Bo		X		
Foster, Greg		X		
Gonyer, Stacey		X		
Greene, Chuck		X		
Hartman, JD		X		
Ledford, Jeff				X
Martinette, Buddy		X		
Moore, John		X		
Neal, Melanie		X		
O'Sullivan, Jude		X		
Shipp, Jeff		X		
Struble, Earl		X		
Wright, Donna		X		
STAFF				
Blumer, Rick	N/A		X	
Bradford, Richard		X		
Carlin, Chris		X		
Cashwell, Ronnie				X
Conner, Stephanie		X		
Covington, James		X		
Falco, Kristen		X		
Gardner, Tina		X		
Gharib, Saman				X
Harris, Pokey		X		
Lopez, Jesus				X
Means, Gerry		X		
Meeks, Stanley		X		
Newberry, David		X		
Rice, Don				X
Tapler, Marsha		X		
Turbeville, Angie		X		

Others on Conference Bridge as Identified:

GUESTS	IN PERSON	VIA MS TEAMS/PHONE	NOT PRESENT
Allvine, Drew	N/A	X	
Briggs, Josh		X	
Correllus, John		X	
Desmond, Michael		X	
Dotson, Greg		X	
Edge, Mike		X	
Frazier, Ellis		X	
Hughes, Emily		X	
Jackson, Leigh		X	
Johnson, Jen		X	
Moore, Christine		X	
Newsome, Mark		X	
Rust, Corrine		X	
Whitby, Mark		X	
Williams, Vic		X	

**Phone Numbers:**

- 336-373-2646
- 336-580-0233 (Christine Moore)
- 336-883-3049
- 704-361-7833
- 704-943-6242
- 910-997-8238
- 919-754-6635
- 919-754-6642
- 984-227-7218
- 919-573-7308
- 919-894-2272
- 919-754-6621 (Pokey Harris)

**1. Chair's Opening Remarks** — Chairman Boyette remarked on the increase of COVID-19 cases across the state and the effects on the 911 system, telecommunicators and first responders. He encouraged everyone to continue to support their communities, stressing the Board's responsibility and desire to provide services to them.

**2. Ethics Awareness/Conflict of Interest Statement** — Chairman Boyette read the Ethics Awareness/Conflict of Interest statement as published in the agenda. Ms. Neal asked to be recused from item 7a regarding the Guilford Metro 911 eligibility consideration.

**3. Public Comment** — Chairman Boyette read the invitation for public comment as published in the agenda. No one had preregistered to speak, and no one virtually present had comments.

**4. Consent Agenda** — Chairman Boyette asked Ms. Harris to proceed with the consent agenda.

a) Minutes of Previous Meeting – May 22, 2020

b) NG 911 Fund/Account

May 2020 Month-End Balance

\$65,284,908

May 2020 Disbursement

\$2,979,117

c) CMRS Fund/Account

May 2020 Month-End Balance

\$7,559,689

May 2020 Disbursement

\$220,735

d) PSAP Fund/Account

May 2020 Month-End Balance

\$16,351,042

May 2020 Disbursement

\$4,243,180

e) Grant Fund/Account

May 2020 Month-End Balance

\$9,982,400

Grant Funds Encumbered

\$1,192,647

f) Grant Project Updates per Reports

i. Monthly Reports per PSP

ii. Pender County Grant Extension Request

A motion and second to accept the consent agenda as presented was put forward. Ms. Conner conducted a roll-call vote. All attending Board members voted, and the motion carried unanimously.

<b>NORTH CAROLINA 911 BOARD MEETING</b> <b>ROLL CALL VOTE</b> Friday, June 26, 2020 Via Simultaneous Communication with Microsoft Teams Meeting 10:00 AM – Noon 	
NC 911 Board Members	4. Consent Agenda
Bone, David	Y
Boyette, Eric	Y
Coltrain, Greg	Y
Ferguson, Bo	Y
Foster, Greg	Y
Gonyer, Stacey	Y
Greene, Chuck	Y
Hartman, JD	Y
Ledford, Jeff	Not Present
Martinette, Buddy	Y
Moore, John	Y
Neal, Melanie	Y
O'Sullivan, Jude	Y
Shipp, Jeff	Y
Struble, Earl	Y
Wright, Donna	Y

## 5. Executive Director Report

a) Resignation of NC 911 Board Member Stacey Gonyer –Ms. Gonyer has advised of her resignation from the Board effective August 17, 2020. She is leaving her employment with Sprint and will no longer be able to serve. On behalf of the Board, staff and herself, Ms. Harris thanked Ms. Gonyer for her service.

b) Resignation of Secretary and State CIO Tracy Doaks – Secretary and State CIO Tracy Doaks announced her resignation from NCDIT and the State of North Carolina effective July 31, 2020. It is anticipated a new CIO will be named soon.

c) COVID-19 Update – Staff continues teleworking with today marking Day 109 of the statewide COVID-19 response. Staff has expended approximately 1072 hours with outreach efforts to PSAPs and other related activities. Regional Coordinators will continue their weekly outreach to PSAPs to monitor issues and staff status regarding COVID-19. Currently there are 27 impacted telecommunicators. On-site work for NextGen911 implementation resumed on May 18, beginning with Mitchell County. July 8 will begin a more aggressive ESInet migration schedule which is on target to meet the goal of 44 migrations completed this year.

d) Staffing Update — The financial review specialist (FRS) position will be posted and move forward in a virtual recruitment environment. Afterwards, plans are to focus on posting an administrative assistant position and filling it by the end of calendar year.

e) Upcoming Board Meetings – July's meeting has a very light agenda and a determination has been made to cancel the meeting. August is slated to be a virtual meeting. September's meeting environment will be determined later.

f) NextGen 911 Migration Status – Live Status Map – Currently 37 PSAPs have migrated. More details were provided by Mr. Ship and Mr. Means during the Technology Committee report.

g) NextGen 911 GIS Status – Live Status Map – Staff continues to work with PSAPs using webinars and Teams sessions to discuss the upload of their GIS data. Ms. Harris noted that the Eastern Band of Cherokee Indians uploaded their data last week with 100% accuracy, being a first for the NC PSAPs as well as AT&T and GeoCom to accomplish this percentage on the initial upload.

h) Appointments and Reappointments to Board – Chuck Greene, Earl Struble, Greg Coltrain and Jeff Ledford were reappointed for a term through December 2024. The seat vacated by Amy Ward has been vetted for Brian Drew, however the effective date was initially referenced for January 2021. Ms. Harris and the Government Liaison for CenturyLink are working to get this corrected. His appointment will be through 2024.

i) Legislation – Mr. Bradford reported legislative changes directed toward military PSAPs were proposed in Senate Bill 231 together with many other non-911 related changes. SB 231 was referred to committee. The 911 related changes were subsequently inserted into Senate Bill 681 which passed, was enrolled, and signed by the Governor. See Session Law 2020-78. As the Board staff continues to work with military bases and the Department of Defense on NG911 planning, further legislative changes may be discussed. Chairman Boyette noted that the legislature plans to return to Raleigh after July 4th and again in September.

**6. Education Committee Report** — Mr. Greene reported the last Committee meeting was well attended with several guests. Roger Smock from DOT Rail Division gave a presentation about BeRailSafe, the N.C. Department of Transportation's statewide safety initiative aimed at educating both children and adults about the dangers of being on and around railroad tracks. BeRailSafe provides free rail-safety emergency response training to police, fire and 911 telecommunicators. This initiative will be discussed further by the Committee. The Committee is also working on a one-page introduction of the 911 Board and received comments and feedback from committee members and staff on a draft document. The draft will be reviewed by DIT's Communications Division and the committee hopes to present it to the Board at the next meeting. A survey will be sent to Board members, committees, and other stakeholders to gather input for an update of the 911 Board website. DIT Communications is also conducting an assessment of the current website for searchability and ADA compliance and will share the results with the committee once it is complete.

## 7. Funding Committee Report

a) Guilford Metro 911 Eligibility Consideration — Guilford Metro came forward to the Funding Committee seeking approval for funding in the amount of \$607,886 for 160 radio resource licenses per position for their primary and back up centers for the MCC7500E radio consoles they plan to purchase. The resource licenses involve software for dispatch, but also have some non-dispatch functions. Staff did

not originally recommend this item. Substantial discussion was held amongst Guilford Metro staff members, committee members, and 911 Board staff with the vendor (Motorola) during the May 21 Funding Committee meeting. Some new information came to light during this discussion - mainly that the radio consoles cannot work without this software. The Funding Committee voted unanimously to approve the request and brought it forward as a motion. Ms. Conner conducted a roll-call vote. All attending Board members voted, and the motion carried unanimously.

**b) Boone Police Department Funding Reconsideration** — Along with its budget, the Boone Police Department submitted a FY 2021 reconsideration request in the amount of \$29,169.90 plus a 10% carry-forward amount of \$16,362.30, for a total reconsideration request of \$45,532.20. Boone Police Communications replaced all the equipment in the communications center in FY 2015-16. At that time, Boone's funding distribution was minimal since there had not been major replacement of equipment in the communications center in the prior ten years. Boone PD contacted the 911 Board staff concerning how Boone PD could move forward to lease the equipment. Boone PD plans to submit reconsideration requests annually until the five-year rolling average fully covers the allowable operational expenditures. The requested expenditures, except for some miscellaneous hardware replacements (monitors, keyboards, etc.) are a continuation of payments for leases that have been in place since 2016. The current fund balance will be exhausted and is not sufficient to cover the allowable expenditures of the communications center with the current funding distribution. \$29,169.90 is needed for the project. The 911 Board has allowed for the maintenance of a 10% carry-forward amount to help with unforeseen expenses throughout the year, which brings the reconsideration to \$45,532.20. It was staff's recommendation to approve the funding reconsideration. The Funding Committee voted unanimously to approve the staff recommendation and brought it forward as a motion to the Board. Ms. Conner conducted a roll-call vote. All attending Board members voted, and the motion carried unanimously.

**c) Rutherford County 911 Funding Reconsideration** — Rutherford County 911 is moving forward with its PSAP relocation and submitted a FY 2021 reconsideration request in the amount of \$229,642.06, along with their budget. This request involves \$188,879.15 for the purchase of new radio console dispatch workstations, as well as an additional \$40,762.91 to allow for a 10% carry forward amount. Staff recommended approving the funding reconsideration. The Funding Committee voted unanimously to approve the staff recommendation and brought it forward as a motion to the Board. Ms. Conner conducted a roll-call vote. All attending Board members voted, and the motion carried unanimously.

**d) General Report** – One of the Board's goals this year is to review PSAP fund balances. The PAT (PSAP Assistance Team) will be working collaboratively with the PSAPs with the highest fund balances. The focus will be on reviewing and developing the PSAPs' 5-year technology replacement plans to ensure that the 5-year plans for each PSAP is up-to-date, has reliable cost estimates, has a timetable for the technology replacement that meets the needs of the PSAP. The PAT will then review the updated 5-year plans in the context of their fund balance to evaluate if the fund balance is at an appropriate level. Staff plans to come back to the Funding Committee with a report on this item at the October Funding Committee meeting. Once this analysis is complete, the PAT plans to work with the PSAPs with the lowest fund balances by reviewing their 5-year technology replacement plans, assisting the PSAPs with updating the plans, and assisting the PSAPs to determine what financial resources/fund balance they need to implement their plans.

**NORTH CAROLINA 911 BOARD MEETING**  
**ROLL CALL VOTE**  
 Friday, June 26, 2020  
 Via Simultaneous Communication with Microsoft Teams Meeting  
 10:00 AM – Noon



NC 911 Board Members	7 a.) GM911 Eligibility Consideration	7 b.) Boone PD Recon	7 c.) Rutherford 911 Recon	8. Polk County Correction Board Minutes
Bone, David	Y	Y	Y	Y
Boyette, Eric	Y	Y	Y	Y
Coltrain, Greg	Y	Y	Y	Recuse - Conflict
Ferguson, Bo	Y	Y	Y	Y
Foster, Greg	Y	Y	Y	Y
Gonyer, Stacey	Y	Y	No Response	No Response
Greene, Chuck	Y	Y	Y	Y
Hartman, JD	Y	Y	Y	Y
Ledford, Jeff	Not Present	Not Present	Not Present	Not Present
Martinette, Buddy	Y	Y	Y	Y
Moore, John	Y	Y	Y	Y
Neal, Melanie	Recuse - Conflict	Y	Y	Y
O'Sullivan, Jude	Y	Y	Y	Y
Shipp, Jeff	Y	Y	Y	Y
Struble, Earl	Y	Y	Y	Y
Wright, Donna	Y	Y	Y	Y

**8. Finance Team Report** — While working on a pre-audit of the Board accounts for the fiscal year end close audit, Ms. Tapler found an issue that needs correcting. The approved Board Minutes for August 23, 2019 section 9a reflects Polk County as receiving approval for a FY 2019 reconsideration. However, the approval was for the reconsideration is for FY 2020. Staff is requesting Board approval to change the minutes to reflect the correct fiscal year. Mr. Foster made a motion to approve changing section 9a of the August 23, 2019, Board minutes from a reconsideration approval for FY 2019 to a reconsideration approval for FY 2020 for Polk County, with the motion being second by Ms. Wright. Ms. Conner conducted the roll-call vote, noting that Ms. Gonyer had lost cell service and dropped from the meeting. All remaining Board members voted, and the motion carried unanimously.

Since the last Board meeting Ms. Tapler met with PSAPs to discuss funding reconsiderations, revenue expenditure reports, and as a PAT member to review fund balances. She met with staff to discuss PSAP seat counts and met with AT&T to go over legacy charges for PSAPs that migrated to the ESInet/hosted call handling solution. She is still working with them to resolve billing issues so she can finish the cost shifts for those PSAPs. Along with staff she completed review and approval of the cost recovery plan so vendors can seek reimbursement for the fiscal year. Ongoing tasks include working on the cost shift, working with DIT Finance to close out the fiscal year, working with Ms. Falco on the FY 2019 revenue expenditure reports, and working with Mr. Bradford on the financial module for CRM and the scope of work. The funding reconsiderations outstanding for FY 2021 will be completed in the next few weeks, and she will be focusing on the normal fiscal matters for the Board.

Ms. Falco gave an update on FY 2018 and FY 2019 revenue expenditure reports status. For 2018, 80 are finalized, 17 awaiting the signed revised report, and 29 are in clarification process. For FY 2019, there are 31 completed, 15 awaiting the signed revised report, 45 in the clarification process and 36 awaiting review. Ms. Falco has been meeting with PSAPs to discuss reports that are still outstanding, and with staff to discuss funding eligibility and the grant process.

**9. Grant Committee Report** — The committee has several grant applications and presentations to review for the month of July. Mr. Shipp encouraged Grant Committee members to be prepared for the meetings. Ms. Harris mentioned the dates are on the Board member's calendars and there are 18 grant applications from 14 PSAPs. The regional coordinators are doing outreach to the PSAPs to assist with

information they may need regarding presentations to the committee. Due to the large number of grant submissions, the presentations will be held virtually on two days - July 13 and July 17, 2020.

**10. Standards Committee Report** — Ms. Wright reported the committee is beginning to reassess the PSAP peer review process for areas of improvement and addressing how to recruit and retain new peer-reviewers. COVID-19 has affected the way the reviews are handled, and the committee is discussing a way to move forward with restrictions that limit onsite visits, necessitating a need to develop a virtual review process.

**11. Technology Committee Report** — Mr. Shipp congratulated Mitchell County on their recent migration and said the committee has an aggressive implementation schedule planned through year end.

Mr. Means reported there are no migrations scheduled for June. There are six scheduled for July, nine in August, five in September, five in October, and four in both November and December. There are 10 others that have not been scheduled but will occur by the end of the year. The new schedule of implementations has 44 PSAPs migrating by the end of 2020. All those PSAPs are migrating as i3 and he stressed the importance of the GIS effort. He commended the Eastern Band of Cherokee Indians for their outstanding achievement of a 100% accuracy upload, a first for the NC PSAPs as well as AT&T and GeoCom. Staff continues to work with each PSAP on their GIS readiness and he thanked Matt McLamb and Anna Verrill of the CGIA team for helping with the project. He also mentioned Roger Smock from the DOT BeRailSafe, who provided them with all the rail GIS information, which they used to create a new GIS layer that all PSAPs will have access. Seven PSAPs are currently ready to transfer their GIS data and 24 are waiting for upload.

Both CRM and SolarWinds are live in the NMAC. Next steps include more software-based analytics to allow turning call volume into historical projections and provide streaming analytics to the PSAP community. The cybersecurity assessments are underway, with a goal of 15 occurring each month. The primary focus is on PSAPs currently live on the ESInet as well as those projected to go ESInet-only this year. A monthly review of lessons learned will be discussed at project meetings so that improvements can be made as they continue their assessments. At a previous meeting, the committee discussed alternatives for a virtual/remote environment for use of the ESInet. A subcommittee was created to approach capabilities that might be offered from the perspective of continuity planning. They hope to plan a concise strategy for continuity planning to sustain a PSAP's operational modes regardless of physical, logical or personnel resource challenges. The committee finalized design perspectives to enable them to offer SIP-based admin lines for the one (1) admin per answering position PSAP and are determining who the pilot sites might be.

Mr. Meeks reported personnel changes at the NMAC. Saman Gharib has joined the team as the newest technician. Mr. Meeks expressed the goal of the NMAC providing a high level of customer service and support to all PSAPs.

**12. 911 Regional Coordinator Reports** — The regional coordinators gave brief reports. Ms. Gardner discussed fund balances and grant applications with the PSAPs in her region and worked with Person County about a cyber incident. She also participated in the ESInet User's Group discussions. Mr. Newberry assisted PSAPs in his region with their cybersecurity assessment, and with internal reviews of grant applications. They also discussed fund balances and their planned future technology expenditures. Ms. Turbeville and Mr. Meeks gave a presentation on the Board CRM to the State CRM Community of Practice in June and received positive feedback. Ms. Turbeville also conducted a virtual Peer Review of Perquimans County with Ms. Gardner and wanted to congratulate them on a successful review. She thanked reviewers Dominick Nutter and Bryan Short for being the beta testers on the virtual review. Ms. Turbeville worked with Cumberland County during the possibility of having to evacuate their center and helped identify other PSAPs to partner with them in the event it occurred. Ms. Conner has worked with PSAPs going live in the month of July and participated in project status calls with the PSAPs in her region to discuss technology plans, fund balances, and grant application reviews.

**13. Other** — Please see the master calendar online for Board and committee meeting dates through the remainder of the calendar year.

Due to an extremely light agenda, the July Board meeting has been cancelled. The next Board meeting will be held on Friday, August 28, using simultaneous communication via Microsoft Teams Meeting.

**Adjourn** — Chairman Boyette adjourned the meeting at 11:20 AM.

**DRAFT**

# Tab 4 b – e)

## b) NG 911 Account

June 2020 Account Balance	\$ 65,426,680
June 2020 Disbursement	\$ 1,882,262
July 2020 Account Balance	\$ 64,271,495
July 2020 Disbursement	\$ 2,615,170

## c) CMRS Account

June 2020 Account Balance	\$ 5,964,801
June 2020 Disbursement	\$ 1,472,025
July 2020 Account Balance	\$ 5,572,879
July 2020 Disbursement	\$ 397,838

## d) PSAP Account

June 2020 Account Balance	\$ 16,064,101
June 2020 Disbursement	\$ 4,715,671
July 2020 Account Balance	\$ 18,653,048
July 2020 Disbursement	\$ 4,246,371

## e) Grant Account

June 2020 Account Balance	\$ 10,992,103
Grant Funds Committed	\$ 18,752,337
July 2020 Account Balance	\$ 7,198,419
Grant Funds Committed	\$ 22,148,187

**NG 911 FUND**

FY2020 beginning Fund Balance:	\$44,749,221.82											
	<b>July 2019</b>	<b>August 2019</b>	<b>September 2019</b>	<b>October 2019</b>	<b>November 2019</b>	<b>December 2019</b>	<b>January 2020</b>	<b>February 2020</b>	<b>March 2020</b>	<b>April 2020</b>	<b>May 2020</b>	<b>June 2020</b>
<b>Revenue</b>	\$734,474.29	\$873,803.90	\$805,234.27	\$1,155,665.13	\$1,138,185.19	\$1,186,956.11	\$1,218,552.94	\$1,133,424.68	\$1,274,275.27	\$1,199,454.95	\$1,275,760.32	\$1,939,739.32
<b>Interest allocation</b>	\$75,178.79	\$78,596.00	\$108,991.56	\$101,651.90	\$108,419.48	\$105,053.85	\$106,071.96	\$104,965.54	\$97,662.42	\$109,307.11	\$90,485.71	\$84,294.03
<b>Grant Fund Transfer-IN</b>		\$16,162,172.00	\$0.00									
<b>NG 911 Disbursement</b>	<b>-\$21,085.01</b>	<b>-\$687,515.79</b>	<b>-\$108,831.74</b>	<b>-\$27,680.92</b>	<b>-\$483,975.31</b>	<b>-\$86,813.29</b>	<b>-\$53,423.60</b>	<b>-\$703,194.37</b>	<b>-\$3,492,056.58</b>	<b>-\$65,035.69</b>	<b>-\$2,979,044.93</b>	<b>-\$1,882,261.74</b>
<b>NG 911 Fund Balance</b>	\$45,537,789.89	\$61,964,846.00	\$62,770,240.09	\$63,999,876.20	\$64,762,505.56	\$65,967,702.23	\$67,238,903.53	\$67,774,099.38	\$65,653,980.49	\$66,897,706.86	\$65,284,907.96	\$65,426,679.57

**CMRS ACCOUNT**

FY2020 beginning Fund Balance:	\$7,170,087.41											
	<b>July 2019</b>	<b>August 2019</b>	<b>September 2019</b>	<b>October 2019</b>	<b>November 2019</b>	<b>December 2019</b>	<b>January 2020</b>	<b>February 2020</b>	<b>March 2020</b>	<b>April 2020</b>	<b>May 2020</b>	<b>June 2020</b>
<b>CMRS Revenue</b>	\$640,474.96	\$624,531.55	\$610,275.75	\$544,846.45	\$524,639.06	\$583,723.66	\$572,880.09	\$559,622.37	\$0.00	\$0.00	\$0.00	-\$132,623.65
<b>Interest allocation</b>	\$12,045.76	\$13,263.93	\$8,481.51	\$8,683.72	\$9,869.57	\$9,971.61	\$10,838.93	\$11,200.80	\$11,161.75	\$12,914.61	\$10,509.57	\$9,760.86
<b>Grant Fund Transfer-OUT</b>		<b>-\$3,000,000.00</b>										
<b>CMRS Disbursement</b>	<b>-\$137,613.04</b>	<b>-\$500,809.07</b>	<b>-\$78,524.26</b>	<b>-\$89,750.24</b>	<b>-\$213,308.42</b>	<b>\$0.00</b>	<b>-\$149,594.37</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>-\$220,734.59</b>	<b>-\$1,472,025.07</b>
<b>CMRS Fund Balance</b>	\$7,684,995.09	\$4,821,981.50	\$5,362,214.50	\$5,825,994.43	\$6,147,194.64	\$6,740,889.91	\$7,175,014.56	\$7,745,837.73	\$7,756,999.48	\$7,769,914.09	\$7,559,689.07	\$5,964,801.21

**PSAP ACCOUNT**

FY2020 beginning Fund Balance:	\$20,324,987.06											
	<b>July 2019</b>	<b>August 2019</b>	<b>September 2019</b>	<b>October 2019</b>	<b>November 2019</b>	<b>December 2019</b>	<b>January 2020</b>	<b>February 2020</b>	<b>March 2020</b>	<b>April 2020</b>	<b>May 2020</b>	<b>June 2020</b>
<b>PSAP Revenue</b>	\$3,629,358.02	\$3,539,012.09	\$3,458,229.18	\$3,087,463.16	\$2,972,954.72	\$3,307,767.44	\$3,246,320.54	\$3,171,193.47	\$3,536,245.83	\$3,446,250.84	\$3,712,022.35	\$2,950,362.29
<b>Wireline Revenue</b>	\$651,001.04	\$763,761.15	\$879,875.62	\$635,037.11	\$591,475.12	\$595,066.30	\$651,442.82	\$485,936.78	\$594,382.37	\$485,272.50	\$642,545.28	\$446,757.26
<b>VOIP Revenue</b>	\$456,928.78	\$1,779,813.51	\$1,089,001.59	\$958,352.07	\$1,001,973.89	\$975,367.60	\$962,702.90	\$905,725.47	\$969,988.58	\$922,936.00	\$982,492.54	\$703,258.20
<b>Prepaid Wireless Revenue</b>	\$1,166,402.91	\$1,078,474.33	\$1,137,254.99	\$933,418.58	\$974,915.16	\$863,957.58	\$1,060,931.45	\$862,004.01	\$1,128,199.90	\$1,008,626.51	\$899,015.73	\$297,227.91
<b>Interest allocation</b>	\$34,146.02	\$37,814.50	\$2,148.12	\$5,495.85	\$8,137.84	\$9,965.62	\$12,358.49	\$14,689.75	\$15,331.97	\$21,101.33	\$19,408.08	\$21,124.91
<b>Subtotal</b>	\$5,937,836.77	\$7,198,875.58	\$6,566,509.50	\$5,619,766.77	\$5,549,456.73	\$5,752,124.54	\$5,933,756.20	\$5,439,549.48	\$6,244,148.65	\$5,884,187.18	\$6,255,483.98	\$4,418,730.57
<b>Grant Fund Transfer-OUT</b>		<b>-\$23,677,269.00</b>										
<b>PSAP Distribution</b>	<b>-\$4,353,456.68</b>	<b>-\$4,209,706.59</b>	<b>-\$4,394,082.08</b>	<b>-\$4,209,706.59</b>	<b>-\$4,243,180.00</b>	<b>-\$4,715,671.19</b>						
<b>PSAP Fund Balance</b>	\$21,909,367.15	\$1,221,267.14	\$3,393,694.56	\$4,803,754.74	\$6,143,504.88	\$7,685,922.83	\$9,409,972.44	\$10,639,815.33	\$12,674,257.39	\$14,348,737.98	\$16,361,041.96	\$16,064,101.34

### NG 911 FUND

FY2020 beginning Fund Balance:	\$65,426,679.57		
	<b>July 2020</b>	<b>August 2020</b>	<b>September 2020</b>
<b>Revenue</b>	\$1,395,092.02		
<b>Interest allocation</b>	\$64,893.33		
<b>Grant Fund Transfer-IN</b>			
<b>NG 911 Disbursement</b>	<b>-\$2,615,169.69</b>		
<b>NG 911 Fund Balance</b>	<b>\$64,271,495.23</b>		

### CMRS ACCOUNT

FY2020 beginning Fund Balance:	\$5,964,801.21		
	<b>July 2020</b>	<b>August 2020</b>	<b>September 2020</b>
<b>CMRS Revenue</b>	\$0.00		
<b>Interest allocation</b>	\$5,916.18		
<b>Grant Fund Transfer-OUT</b>			
<b>CMRS Disbursement</b>	<b>-\$397,838.09</b>		
<b>CMRS Fund Balance</b>	<b>\$5,572,879.30</b>		

### PSAP ACCOUNT

FY2020 beginning Fund Balance:	\$16,064,101.34		
	<b>July 2020</b>	<b>August 2020</b>	<b>September 2020</b>
<b>PSAP Revenue</b>	\$3,703,957.11		
<b>Wireline Revenue</b>	\$614,662.16		
<b>VOIP Revenue</b>	\$1,000,935.69		
<b>Prepaid Wireless Revenue</b>	\$1,499,829.23		
<b>Interest allocation</b>	\$15,933.15		
<b>Subtotal</b>	<b>\$6,835,317.34</b>	<b>\$0.00</b>	<b>\$0.00</b>
<b>Grant Fund Transfer-OUT</b>			
<b>PSAP Distribution</b>	<b>-\$4,246,371.10</b>		
<b>PSAP Fund Balance</b>	<b>\$18,653,047.58</b>		

PSAP Grant-Statewide 911 Projects Fund

		Total Disbursed													Remaining
		YTD	Jul-19	Aug-19	Sep-19	Oct-19	Nov-19	Dec-19	Jan-20	Feb-20	Mar-20	Apr-20	May-20	Jun-20	Expenditures Grant
			\$23,414,561.43	\$23,038,414.95	\$32,825,508.31	\$30,397,544.51	\$30,012,741.54	\$30,331,955.29	\$30,227,337.69	\$30,190,431.37	\$30,508,334.83	\$30,702,284.17	\$30,498,306.00	\$30,175,047.04	Balance
<b>FY2016</b>	<b>Award Amount</b>														
Graham County G2016-01 (039)	3,401,528.00	-2,619,530.85							-245,390.45						536,606.70
<b>FY2017</b>	<b>Award Amount</b>														
Lincoln G2017-6 (047)	2,000,000.00	-671,150.72			-1,328,849.28										0.00
Martin G2017-7 (048)	5,196,315.00	-3,621,771.07			-860,710.16			-242,303.30							471,530.47
Mitchell G2017-9 (049)	3,163,000.00	-2,480,935.37		-51,791.63	-65,504.20				-102,299.03		-24,833.73	-155,606.35		-28,419.55	253,610.14
Pasquotank G2017-11 (051)	1,010,779.00	-856,567.83	-73,210.00								-36,600.33			-23,816.11	20,584.73
<b>FY2018</b>	<b>Award Amount</b>														
Franklin G2018B-4 (062)	1,204,482.00	-1,026,749.90				-177,732.10									0.00
Iredell G2018B-3 (063)	2,361,230.00	-1,937,280.49												-274,297.24	149,652.27
<b>FY2019</b>	<b>Award Amount</b>														
Pender G2019-02 (067)	361,760.00	0.00													361,760.00
Greene G2019-03 (069)	841,964.00	0.00													841,964.00
Wayne G2019-04 (070)	1,530,693.00	0.00									-300,000.00				1,230,693.00
Rutherford G2019-05 (071)	1,161,548.00	0.00				-505,062.41								-119,443.74	537,041.85
<b>FY2020</b>															
Davie G2020-01	232,767.00	0.00													232,767.00
NC State Highway Patrol G2020-02	1,102,933.00	0.00													1,102,933.00
Pender G2020-03	45,873.00	0.00													45,873.00
Currituck G2020-04	583,655.00	0.00													583,655.00
Franklin G2020-05	3,958,873.00	0.00													3,958,873.00
Cumberland G2020-06	2,251,387.00	0.00													2,251,387.00
Chatham G2020-07	2,339,608.00	0.00													2,339,608.00
<b>STATEWIDE PROJECTS:</b>	<b>Award Amount</b>														
E-CATS II (012)	2,096,000.00	-252,120.00	-252,120.00								93,750.00	-74,640.00	-149,680.00	-231,070.00	1,230,120.00
Interpretive Services (042)	785,646.00	-487,106.06	-19,619.25	-19,140.75	-19,833.75	-20,000.25	-21,036.75	-19,045.50	-19,211.25	-19,194.00	-17,211.00	-20,418.00	-18,541.50	-21,414.00	63,873.94
Ortho Project III Image 19 (061)	3,273,555.00	-1,298,460.82	-49,355.40	-696,826.10	-210,360.70	-57,448.76	-11,064.28	-191,476.80	-45,149.19	-35,411.97	-4,823.21	-69,842.53	-35,243.19	-20,085.79	68,006.26
Ortho Project III Image 20 (073)	4,108,739.00	0.00					-18,816.00	-34,245.58	-6,237.63	-5,482.25	-258,496.80	-9,408.00	-548,467.70	-875,314.10	2,352,270.94
CRM Statewide One-time Development	250,000.00	-26,390.00	-21,178.34	-8.34	-443.34	-1,224.55	-3,198.34	-3,053.34	-12,479.10	-46,946.55	-9.10	-9.10	-11,464.10	-4,069.10	119,526.70
Approved Transfer from PSAP & CMRS Fund			26,677,269.00												
Transfer out to NG 911 Fund				-16,162,172.00											
Interest			39,336.51	39,763.18	57,737.63	49,226.64	50,843.31	49,202.68	48,603.68	47,129.78	43,962.49	51,116.14	41,462.42	38,961.17	
Revenue 5%						327,438.46	322,485.81	336,304.24	345,256.65	377,808.45	398,211.02	374,829.67	398,675.11	1,128,361.39	
<b>Total Ending Fund Balance</b>		\$23,414,561.43	\$23,038,414.95	\$32,825,508.31	\$30,397,544.51	\$30,012,741.54	\$30,331,955.29	\$30,227,337.69	\$30,190,431.37	\$30,508,334.83	\$30,702,284.17	\$30,498,306.00	\$30,175,047.04	\$29,744,439.97	

CASH BASIS REPORTING  
OSC Certified

Committed:  
Grant Fund Total

\$ 18,752,337.00  
\$10,992,102.97 \*\*

\*\*Halifax declined awarded grant funds.

**PSAP Grant-Statewide 911 Projects Fund**

		Total Disbursed		Remaining Expenditures Grant Balance
		YTD	Jul-20	
			\$29,744,439.97	
<b>FY2016</b>	<b>Award Amount</b>			
Graham County G2016-01 (039)	3,401,528.00	-2,864,921.30		536,606.70
<b>FY2017</b>	<b>Award Amount</b>			
Martin G2017-7 (048)	5,196,315.00	-4,724,784.53	-118,276.34	353,254.13
Mitchell G2017-9 (049)	3,163,000.00	-2,909,389.86	-105,095.10	148,515.04
Pasquotank G2017-11 (051)	1,010,779.00	-990,194.27		20,584.73
<b>FY2018</b>	<b>Award Amount</b>			
Iredell G2018B-3 (063)	2,361,230.00	-1,937,280.49		423,949.51
<b>FY2019</b>	<b>Award Amount</b>			
Pender G2019-02 (067)	361,760.00	0.00		361,760.00
Greene G2019-03 (069)	841,964.00	0.00		841,964.00
Wayne G2019-04 (070)	1,530,693.00	-300,000.00		1,230,693.00
Rutherford G2019-05 (071)	1,161,548.00	-624,506.15		537,041.85
<b>FY2020</b>				
Davie G2020-01	232,767.00	0.00		232,767.00
NC State Highway Patrol G2020-02	1,102,933.00	0.00		1,102,933.00
Pender G2020-03	45,873.00	0.00		45,873.00
Currituck G2020-04	583,655.00	0.00		583,655.00
Franklin G2020-05	3,958,873.00	0.00		3,958,873.00
Cumberland G2020-06	2,251,387.00	0.00		2,251,387.00
Chatham G2020-07	2,339,608.00	0.00		2,339,608.00
<b>STATEWIDE PROJECTS:</b>	<b>Award Amount</b>			
E-CATS II (012)	2,096,000.00	-865,880.00	-535,017.38	695,102.62
Interpretive Services (042)	785,646.00	-721,772.06	-23,979.75	39,894.19
Ortho Project III Image 19 (061)	3,273,555.00	-2,725,548.74		68,006.26
Ortho Project III Image 20 (073)	4,108,739.00	-1,756,468.06	-80,199.60	2,272,071.34
CRM Statewide One-time Development	250,000.00	130,473.30	-734.10	379,739.20
Ortho Project III Image 21 (081)	3,723,908.00	0.00		3,723,908.00
Approved Transfer from PSAP & CMRS Fund Transfer out to NG 911 Fund				
<b>Interest</b>			29,501.97	
<b>Revenue 5%</b>			435,966.27	
<b>Total Ending Fund Balance</b>		\$29,744,439.97	\$29,346,605.94	

\$ 22,148,186.57  
**\$7,198,419.37** \*\*

**CASH BASIS REPORTING**  
**OSC UNCERTIFIED**

***Tab 4 f)***

**Grant Project Updates per Reports**

***Tab 4 f i)***

**Monthly Reports per PSAP**



# Chatham County Emergency Communications

297 West Street • Pittsboro, NC 27312

Office 919.545.8163  
24-hour Warning Point 919.542.2911  
[www.chathamnc.org](http://www.chathamnc.org)

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July 1, 2020

Attn: L. V. Pokey Harris, Executive Director

N.C. 911 Board

P.O. Box 17209

Raleigh, NC 27609

Reference: Chatham County FY2020 Grant Report

Ms. Harris:

The project is moving through the permitting phase for the towers. Infrastructure and equipment are being ordered. No grant funds have been expended for this project as of this date.

Regards:

A handwritten signature in black ink that reads 'Mike Reitz'. The signature is fluid and cursive, with the first name 'Mike' and last name 'Reitz' clearly legible.

Mike Reitz

Director



# Chatham County Emergency Communications

297 West Street • Pittsboro, NC 27312

Office 919.545.8163  
24-hour Warning Point 919.542.2911  
[www.chathamnc.org](http://www.chathamnc.org)

---

August 1, 2020

Attn: L. V. Pokey Harris, Executive Director

N.C. 911 Board

P.O. Box 17209

Raleigh, NC 27609

Reference: Chatham County FY2020 Grant Report

Ms. Harris:

The project is moving through the permitting phase for the towers. Infrastructure and equipment are being ordered. No grant funds have been expended for this project as of this date.

Regards:

A handwritten signature in black ink, appearing to read 'Mike Reitz', written in a cursive style.

Mike Reitz

Director

WOODSON "GENE"  
BOOTH  
Director



**CUMBERLAND**  
**COUNTY**  
NORTH CAROLINA

**EMERGENCY SERVICES DEPARTMENT**

Gene Booth  
131 Dick St.  
Fayetteville, NC 28301  
May 29, 2020

L.V. Pokey Harris, Executive Director  
P.O. BOX 17209  
Raleigh, NC 27609

RE: CUMBERLAND COUNTY FY2020 GRANT REPORT

Dear Ms. Harris,

This letter is to provide an update on the FY2020 911 Board Grant. During the month of May 2020, we took a brief pause on the planning process as estimated project cost were skyrocketing above budget. The County made the below changes.

- 1) The project lead for the County has changed, and we will be using consultants from McGill and Associates as our advocates on this project
- 2) The contract with Balfour Beatty has been terminated (Project Manager at Risk)
- 3) AECOM has been put on notice that this project will meet the \$16 million cap and time is of the essence in moving the project forward
- 4) We have a deadline of 6/22 to update the 9-1-1 Committee on our progress bringing the project back to the \$16 million cap

Stay Safe,

Gene Booth, Director  
Cumberland County Emergency Services



## Franklin County, NC Grant Report – June 2020

---

### Activities – June 2020

- Received fully executed AIA contract from architectural firm – June 5

### Anticipated Activities – July 2020

- Determine preliminary programming meeting date
- Conduct initial programming meeting
- Communicate regularly with project team (ongoing)

Due to coronavirus disease 2019 (COVID-19), the project essentially has been on hold with expectations to begin building programming exercises in late July.

# Franklin County, NC Grant Report – June 2020

The tasks listed below will be tracked throughout the project duration and will be updated monthly. New additions are shown in the salmon highlighted rows. At this time, the project remains on schedule.

---

*Work Plan*

---

Task	Projected Timeframe <sup>1</sup>	Actual	Completed
Contract for project oversight	Months 1-2	November 2019	x
Issue RFQ for architectural services	Months 2-3	December 2019	x
Select architect and contract for services	Months 4-5 (February – March 2020)	Selection: February 2020	x
Negotiate fee with architect	Months 5-6 (March – April 2020)	March 2020	x
Receive Commissioners' approval to proceed with contract for architectural services	Month 6 (April 2020)	May 4, 2020	x
Enter into contract for architectural services	Month 6 (April 2020) Revised: Month 8 / June 2020	June 5, 2020	x

<sup>1</sup> As the grant agreement was signed in late October 2019, month 1 is considered November 2019.

## Franklin County, NC Grant Report – June 2020

Task	Projected Timeframe <sup>1</sup>	Actual	Completed
Define technology needs in conjunction with building design	Months 3-12 (January – October 2020)  <b>Revised: Months 9-19 / July 2020 – April 2021</b>		
Facility design and construction document process	Months 6-16 <sup>2</sup> (April 2020 – February 2021)  Revised: Months 9-19 / July 2020 – April 2021 <sup>3</sup>		
Establish lead times for major technology systems, including NG911			
Bid and award construction project	Months 17-19 <sup>4</sup> (March 2021 – May 2021)		
Proceed with construction, including coordination with migration to the State ESInet NG911 network	Months 20-32 (June 2021 – June 2022)		
Procure new technology and furnishings	Months 26-30 <sup>5</sup>		
Substantial completion of construction, address any facility punch list issues	Month 30 (April 2022)		
Install, test, and accept new technology: existing equipment and the CAD system will	Months 30-34		

<sup>2</sup> Represent revised dates submitted with work plan in December 2019

<sup>3</sup> Follow on dates will be adjusted once the timeframes are more clearly defined.

<sup>4</sup> Ibid.

<sup>5</sup> Ibid.

## Franklin County, NC Grant Report – June 2020

---

Task	Projected Timeframe <sup>1</sup>	Actual	Completed
be relocated to the new site prior to and during go-live to ensure that the old and new center remain operational until the transition is complete	(April – July 2022)		
Go-live / Physically transition the Halifax County primary PSAP to the new facility and the State ESInet NG911 system	Months 34-36 (July – September 2022)		
Monitor systems post cutover	Months 32-36 (May – September 2022)		

# Franklin County, NC Grant Report – July 2020

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## Activities – July 2020

- Conducted initial programming meeting – July 30

## Anticipated Activities – August 2020

- Visit and tour another facility designed by architectural firm – August 25
- Conduct second programming meeting – August 25
- Communicate regularly with project team (ongoing)

Due to coronavirus disease 2019 (COVID-19), the project has been on hold. However, our overall schedule, at this time, remains on track. The project schedule from our initial programming meeting is attached.

# Franklin County, NC Grant Report – July 2020

The tasks listed below will be tracked throughout the project duration and will be updated monthly. New additions are shown in the salmon highlighted rows. At this time, the project remains on schedule.

---

*Work Plan*

---

Task	Projected Timeframe <sup>1</sup>	Actual	Completed
Contract for project oversight	Months 1-2	November 2019	x
Issue RFQ for architectural services	Months 2-3	December 2019	x
Select architect and contract for services	Months 4-5 (February – March 2020)	Selection: February 2020	x
Negotiate fee with architect	Months 5-6 (March – April 2020)	March 2020	x
Receive Commissioners' approval to proceed with contract for architectural services	Month 6 (April 2020)	May 4, 2020	x
Enter into contract for architectural services	Month 6 (April 2020) Revised: Month 8 / June 2020	June 5, 2020	x

---

<sup>1</sup> As the grant agreement was signed in late October 2019, month 1 is considered November 2019.

## Franklin County, NC Grant Report – July 2020

Task	Projected Timeframe <sup>1</sup>	Actual	Completed
Define technology needs in conjunction with building design	Months 3-12 (January – October 2020)  Revised: Months 9-19 / July 2020 – April 2021		
Facility design and construction document process	Months 6-16 <sup>2</sup> (April 2020 – February 2021)  Revised: Months 9-19 / July 2020 – April 2021 <sup>3</sup>	July 30 – Began	
Establish lead times for major technology systems, including NG911			
Bid and award construction project	Months 17-19 <sup>4</sup> (March 2021 – May 2021)		
Proceed with construction, including coordination with migration to the State ESInet NG911 network	Months 20-32 (June 2021 – June 2022)		
Procure new technology and furnishings	Months 26-30 <sup>5</sup>		
Substantial completion of construction, address any facility punch list issues	Month 30 (April 2022)		

<sup>2</sup> Represent revised dates submitted with work plan in December 2019

<sup>3</sup> Follow on dates will be adjusted once the timeframes are more clearly defined.

<sup>4</sup> Ibid.

<sup>5</sup> Ibid.

## Franklin County, NC Grant Report – July 2020

---

Task	Projected Timeframe <sup>1</sup>	Actual	Completed
Install, test, and accept new technology: existing equipment and the CAD system will be relocated to the new site prior to and during go-live to ensure that the old and new center remain operational until the transition is complete	Months 30-34 (April – July 2022)		
Go-live / Physically transition the Halifax County primary PSAP to the new facility and the State ESInet NG911 system	Months 34-36 (July – September 2022)		
Monitor systems post cutover	Months 32-36 (May – September 2022)		

Franklin County PSAP  
Preliminary Project Schedule

ID	Task Mode	Task Name	Duration	Start	Finish	2021												2022																							
						Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov							
1	★	FRANKLIN COUNTY PROJECT DURATION	521 days	Tue 7/28/20	Tue 7/26/22	[Gantt bar spanning from 7/28/20 to 7/26/22]																																			
2	★	DESIGN PROCESS	220 days	Tue 7/28/20	Mon 5/31/21	[Gantt bar spanning from 7/28/20 to 5/31/21]																																			
3	★	PROGRAMMING/SCHEMATIC DESIGN	68 days	Tue 7/28/20	Thu 10/29/20	[Gantt bar spanning from 7/28/20 to 10/29/20]																																			
4	★	Prep for Planning Workshop	2 days	Tue 7/28/20	Wed 7/29/20	[Gantt bar spanning from 7/28/20 to 7/29/20]																																			
5	★	Planning Workshop	1 day	Thu 7/30/20	Thu 7/30/20	[Gantt bar spanning from 7/30/20 to 7/30/20]																																			
6	★	Program Development	9 days	Fri 7/31/20	Wed 8/12/20	[Gantt bar spanning from 7/31/20 to 8/12/20]																																			
7	★	Program Review	1 day	Thu 8/13/20	Thu 8/13/20	[Gantt bar spanning from 8/13/20 to 8/13/20]																																			
8	★	Program Update/Revisions	5 days	Fri 8/14/20	Thu 8/20/20	[Gantt bar spanning from 8/14/20 to 8/20/20]																																			
9	★	Concept Development	9 days	Fri 8/14/20	Wed 8/26/20	[Gantt bar spanning from 8/14/20 to 8/26/20]																																			
10	★	Concept Review Meeting	1 day	Thu 8/27/20	Thu 8/27/20	[Gantt bar spanning from 8/27/20 to 8/27/20]																																			
11	★	Schematic Design Development	26 days	Fri 8/28/20	Fri 10/2/20	[Gantt bar spanning from 8/28/20 to 10/2/20]																																			
12	★	Schematic Review Meeting	1 day	Mon 10/5/20	Mon 10/5/20	[Gantt bar spanning from 10/5/20 to 10/5/20]																																			
13	★	Enhanced Systems Narrative	5 days	Tue 10/6/20	Mon 10/12/20	[Gantt bar spanning from 10/6/20 to 10/12/20]																																			
14	★	Develop Preliminary Schematic Cost Estim	12 days	Tue 10/6/20	Wed 10/21/20	[Gantt bar spanning from 10/6/20 to 10/21/20]																																			
15	★	Present & Review Schematic Design	1 day	Thu 10/22/20	Thu 10/22/20	[Gantt bar spanning from 10/22/20 to 10/22/20]																																			
16	★	Finalize Schematic Design	5 days	Fri 10/23/20	Thu 10/29/20	[Gantt bar spanning from 10/23/20 to 10/29/20]																																			
17	★	Final Schematic Design Presentation	1 day	Thu 10/29/20	Thu 10/29/20	[Gantt bar spanning from 10/29/20 to 10/29/20]																																			
18	★	DESIGN DEVELOPMENT	60 days	Fri 10/30/20	Thu 1/21/21	[Gantt bar spanning from 10/30/20 to 1/21/21]																																			
19	★	Develop Architectural Site Plan	52 days	Fri 10/30/20	Mon 1/11/21	[Gantt bar spanning from 10/30/20 to 1/11/21]																																			
20	★	Develop Floor Plans	16 days	Fri 10/30/20	Fri 11/20/20	[Gantt bar spanning from 10/30/20 to 11/20/20]																																			
21	★	Develop Reflected Ceiling Plan	16 days	Fri 10/30/20	Fri 11/20/20	[Gantt bar spanning from 10/30/20 to 11/20/20]																																			
22	★	Develop Building Sections	30 days	Fri 10/30/20	Thu 12/10/20	[Gantt bar spanning from 10/30/20 to 12/10/20]																																			
23	★	Develop Exterior Hardened Systems	30 days	Fri 10/30/20	Thu 12/10/20	[Gantt bar spanning from 10/30/20 to 12/10/20]																																			
24	★	DD Review Meeting	1 day	Thu 11/12/20	Thu 11/12/20	[Gantt bar spanning from 11/12/20 to 11/12/20]																																			
25	★	Meet with Code Official to review Design	1 day	Thu 11/12/20	Thu 11/12/20	[Gantt bar spanning from 11/12/20 to 11/12/20]																																			
26	★	Develop HVAC Plans	30 days	Fri 11/13/20	Thu 12/24/20	[Gantt bar spanning from 11/13/20 to 12/24/20]																																			
27	★	Develop Utility Site Plan	18 days	Fri 11/13/20	Tue 12/8/20	[Gantt bar spanning from 11/13/20 to 12/8/20]																																			
28	★	Develop Plumbing/FP Plan	30 days	Fri 11/13/20	Thu 12/24/20	[Gantt bar spanning from 11/13/20 to 12/24/20]																																			
29	★	DD Review Meeting	1 day	Wed 11/25/20	Wed 11/25/20	[Gantt bar spanning from 11/25/20 to 11/25/20]																																			

Project: Franklin County - PSAP Facility  
Date: Wed 7/29/20  
SCHRADERGROUP

Task	◆	Project Summary	▬	Manual Task	▬	Start-only	▬	Deadline	↓
Split	⋯	Inactive Task	▬	Duration-only	▬	Finish-only	▬	Progress	▬
Milestone	◆	Inactive Milestone	◇	Manual Summary Rollup	▬	External Tasks	▬	Manual Progress	▬
Summary	▬	Inactive Summary	▬	Manual Summary	▬	External Milestone	◇		





## Greene County, NC

911 Facility Relocation

MCP Project Number 18-128

Monthly Progress Report – June, 2020

Activity	This Period	Next Period
1. Design	<ul style="list-style-type: none"> <li>Design enters detail design phase</li> <li>Continued discussions on MEP needs</li> <li>Reviewed grounding and other standards</li> <li>Assisted with layouts of furniture, data center and access control</li> </ul>	<ul style="list-style-type: none"> <li>Continue design and prepare for design completion</li> <li>Review draft drawings, specifications, technical requirements</li> </ul>
2. Permits	<ul style="list-style-type: none"> <li>None in this period</li> </ul>	<ul style="list-style-type: none"> <li>None expected in this period</li> </ul>
3. Construction	<ul style="list-style-type: none"> <li>None in this period</li> </ul>	<ul style="list-style-type: none"> <li>None expected in this period</li> </ul>
4. Communications Systems	<ul style="list-style-type: none"> <li>Prepared needs for radio infrastructure</li> <li>Reviewed technology for rack build-out</li> <li>Met with vendors to assure alignment</li> </ul>	<ul style="list-style-type: none"> <li>Continue to assist with technology needs / loads / calculations</li> <li>Finalize technology inventory and begin technology planning</li> </ul>
5. Other Activity	<ul style="list-style-type: none"> <li>MCP participated in routine check-in points and the initial programming effort. These routine meetings will continue.</li> </ul>	<ul style="list-style-type: none"> <li>Continue to participate in routine project planning and working meetings to facilitate the next steps of the project.</li> </ul>

## Greene County, NC

911 Facility Relocation  
 Monthly Progress Report – July, 2020

MCP Project Number 18-128

Activity	This Period	Next Period
1. Design	<ul style="list-style-type: none"> <li>• Detail Design continues</li> <li>• Page turning exercise with drawings</li> <li>• Continue advancements of operational areas and equipment rooms</li> <li>• Review drawings for standards and best practices</li> </ul>	<ul style="list-style-type: none"> <li>• Complete design</li> <li>• Begin working with selected general contractor</li> <li>• Provide updates and review drawings and specifications</li> </ul>
2. Permits	<ul style="list-style-type: none"> <li>• None in this period</li> </ul>	<ul style="list-style-type: none"> <li>• None expected in this period</li> </ul>
3. Construction	<ul style="list-style-type: none"> <li>• None in this period</li> </ul>	<ul style="list-style-type: none"> <li>• None expected in this period</li> </ul>
4. Communications Systems	<ul style="list-style-type: none"> <li>• Continue planning for technology systems including radio, CHE and other public safety systems</li> </ul>	<ul style="list-style-type: none"> <li>• Continue providing updates to drawings and specifications to meet the needs of technology systems</li> </ul>
5. Other Activity	<ul style="list-style-type: none"> <li>• MCP participated in routine check-in points and the initial programming effort. These routine meetings will continue.</li> <li>• MCP participated in page turning exercise</li> </ul>	<ul style="list-style-type: none"> <li>• Continue to participate in routine project planning and working meetings to facilitate the next steps of the project.</li> </ul>

## Iredell County PSAP Enhancement and Regional Backup Initiative

PSAP Grant Project

MCP Project Number 16-114

Monthly Progress Report – June, 2020

Activity	This Period	Next Period
1. Design	<ul style="list-style-type: none"> <li>• No actions required</li> </ul>	<ul style="list-style-type: none"> <li>• No actions expected</li> </ul>
2. Permits	<ul style="list-style-type: none"> <li>• No actions required</li> </ul>	<ul style="list-style-type: none"> <li>• No actions expected</li> </ul>
3. Construction	<ul style="list-style-type: none"> <li>• No action required</li> </ul>	<ul style="list-style-type: none"> <li>• No actions expected</li> </ul>
4. Communications Systems	<ul style="list-style-type: none"> <li>• No action required</li> </ul>	<ul style="list-style-type: none"> <li>• No actions expected</li> </ul>
5. Other Activity	<ul style="list-style-type: none"> <li>• Sent final grant reimbursement request</li> </ul>	<ul style="list-style-type: none"> <li>• Submit final grant report and close-out grant</li> </ul>



## Martin County PSAP and Regional Backup Facility, NC

PSAP Consolidation Project – Phase II – Grant Project  
Monthly Progress Report – June, 2020

MCP Project Number 16-184

Activity	This Period	Next Period
1. Design	<ul style="list-style-type: none"> <li>• No action required</li> </ul>	<ul style="list-style-type: none"> <li>• No action expected</li> </ul>
2. Permits	<ul style="list-style-type: none"> <li>• No additional permits required</li> </ul>	<ul style="list-style-type: none"> <li>• No additional permits required</li> </ul>
3. Construction	<ul style="list-style-type: none"> <li>• No additional actions required</li> </ul>	<ul style="list-style-type: none"> <li>• No additional actions required</li> </ul>
4. Communications Systems	<ul style="list-style-type: none"> <li>• Continued calls to coordinate Bertie and Pasquotank County's State Hosted Solution migration</li> <li>• Continued working with Pasquotank on any backup needs</li> <li>• Reviewed next steps / action items with Bertie County</li> <li>• Finalized network infrastructure and began server migration tasks for Bertie</li> </ul>	<ul style="list-style-type: none"> <li>• Continue coordination with Bertie and Pasquotank on facility / technology needs</li> <li>• Prepare for September, 2020 cutover for Bertie and Pasquotank</li> </ul>
5. Other Activity	<ul style="list-style-type: none"> <li>• MCP conducted periodic conference calls with the clients</li> <li>• Prepared and distributed grant extension letter</li> </ul>	<ul style="list-style-type: none"> <li>• MCP will participate in as-needed project team meetings with the clients</li> </ul>



## Martin County PSAP and Regional Backup Facility, NC

PSAP Consolidation Project – Phase II – Grant Project  
Monthly Progress Report – July, 2020

MCP Project Number 16-184

Activity	This Period	Next Period
1. Design	<ul style="list-style-type: none"> <li>No action required</li> </ul>	<ul style="list-style-type: none"> <li>No action expected</li> </ul>
2. Permits	<ul style="list-style-type: none"> <li>No additional permits required</li> </ul>	<ul style="list-style-type: none"> <li>No additional permits required</li> </ul>
3. Construction	<ul style="list-style-type: none"> <li>No additional actions required</li> </ul>	<ul style="list-style-type: none"> <li>No additional actions required</li> </ul>
4. Communications Systems	<ul style="list-style-type: none"> <li>Continue calls to coordinate Bertie and Pasquotank County's State Hosted Solution migration</li> <li>Continue working with Pasquotank on any backup needs</li> <li>Review next steps / action items with Bertie County</li> <li>Install data circuit and 10-digit admin lines for Bertie County</li> <li>Implement network connectivity for Bertie County</li> <li>Bertie finalizing cutover planning</li> </ul>	<ul style="list-style-type: none"> <li>Continue coordination with Bertie and Pasquotank on facility / technology needs</li> <li>Prep for September, 2020 cutover for Bertie and Pasquotank</li> <li>Continue testing and migration planning</li> </ul>
5. Other Activity	<ul style="list-style-type: none"> <li>MCP conducted periodic conference calls with the clients</li> <li>Prepared and distributed grant extension letter</li> </ul>	<ul style="list-style-type: none"> <li>MCP will participate in as-needed project team meetings with the clients</li> </ul>

## Mitchell County, NC

PSAP Construction and Regional Backup  
 Monthly Progress Report – June 2020

MCP Project Number 16-173

Activity	This Period	Next Period
1. Design	<ul style="list-style-type: none"> <li>N/A</li> </ul>	<ul style="list-style-type: none"> <li>No further activity</li> </ul>
2. Permits	<ul style="list-style-type: none"> <li>N/A</li> </ul>	<ul style="list-style-type: none"> <li>No further activity</li> </ul>
3. Construction	<ul style="list-style-type: none"> <li>Continued civil engineering work</li> </ul>	<ul style="list-style-type: none"> <li>Complete civil engineering work, weather-dependent</li> </ul>
4. Communications Systems	<ul style="list-style-type: none"> <li>Completed internal technology moves</li> <li>Completed post-cutover system monitoring</li> </ul>	<ul style="list-style-type: none"> <li>No further activity</li> </ul>
5. Other Activity	<ul style="list-style-type: none"> <li>Continued to track grant spending</li> <li>Updated budget tracking spreadsheet</li> </ul>	<ul style="list-style-type: none"> <li>Submit final grant report (dependent on civil engineering work)</li> <li>Close-out grant (dependent on civil engineering work)</li> </ul>

## Mitchell County, NC

PSAP Construction and Regional Backup  
 Monthly Progress Report – July 2020

MCP Project Number 16-173

Activity	This Period	Next Period
1. Design	<ul style="list-style-type: none"> <li>N/A</li> </ul>	<ul style="list-style-type: none"> <li>No further activity</li> </ul>
2. Permits	<ul style="list-style-type: none"> <li>N/A</li> </ul>	<ul style="list-style-type: none"> <li>No further activity</li> </ul>
3. Construction	<ul style="list-style-type: none"> <li>Completed civil engineering work</li> </ul>	<ul style="list-style-type: none"> <li>No further activity</li> </ul>
4. Communications Systems	<ul style="list-style-type: none"> <li>Completed internal technology moves</li> <li>Completed post-cutover system monitoring</li> </ul>	<ul style="list-style-type: none"> <li>No further activity</li> </ul>
5. Other Activity	<ul style="list-style-type: none"> <li>Continued to track grant spending</li> <li>Updated budget tracking spreadsheet</li> </ul>	<ul style="list-style-type: none"> <li>Submit final grant report</li> <li>Close-out grant</li> </ul>



## Project Update 4-15-2020 to 6-30-2020

### NG 911 Statewide Project

#### **20-April, 2020 – Telephone Call placed to Mrs. L.V. (Pokey) Harris, NC 911 Board**

- **NC 911 Board - Mrs. L.V. (Pokey) Harris**
- **TSU- Mike Hodgson**

Discussion with Ms. Harris regarding the 15 April response from Mr. Brian Smith regarding a contract between the North Carolina State Highway Patrol and specifically the topic of payment milestones brought up by AT&T. Mr. Hodgson expressed the concerns of the Patrol's senior leadership regarding partial payments and wanted a clear understanding as to how funds would be drawn down from the 911 fund in advance of the project's completion. Mr. Hodgson conveyed that the Patrol was not comfortable with this suggestion by AT&T. Ms. Harris responded that no funds would be released to the Patrol, nor to AT&T prior to the completion and final acceptance of the project. Both Mr. Hodgson and Ms. Harris were in full agreement with this position.

#### **21-April, 2020 – Email received from Mr. David Smith, AT&T Project Manager**

- **AT&T - Mr. David Smith**
- **TSU- Mike Hodgson**

Mr. David Smith confirmed via email that there was not a requirement for a formal contract between the Patrol and AT&T since AT&T already has this in place with the SONC.

#### **22-April, 2020 – Email received from Mr. Brian Smith, AT&T Sales NC**

- **AT&T - Mr. Brian Smith**
- **TSU- Mike Hodgson**

Mr. Brian Smith forwarded the cost proposal for the final system design and noted that with the modifications to the overall system design that resulted in a reduction of one (1) redundant circuit to each of the two (2) termination locations (JFHQ and TSU), that there was actually a slight reduction in cost from the overall, original estimate. Mr. Smith explained that once circuits are installed, AT&T will commence recurring billing, however Mr. Smith will work to ensure that those charges are held in abeyance until the project receives its final approval and then credits will be issued for those months where the project was not yet complete.

**22-April, 2020 – Emil received from Mr. Joshua Briggs, AT&T Consulting**

- **AT&T - Mr. Joshua Briggs**
- **TSU- Mike Hodgson**

Mr. Joshua Briggs emailed to reiterate the initial project timeline and to clarify that with the COVID-19 situation that the NC 911 Board placed all activities on hold for a period of 60 days and that this has affected all AT&T projects in North Carolina. Indeed certain parallel activities will occur however this will likely affect the overall project schedule.

**8 May-23 May, 2020 – Telephone calls received from AT&T Technical Field Services**

- **AT&T – Field Tech**
- **TSU - Mike Hodgson**
- **TSU – Joe Allison**
- **TSU – Nathan Huey**

Field Representatives from AT&T reached out on numerous occasions during the period indicating that they needed to perform a work at 3318 Garner Road, Raleigh and 1636 Gold Star Drive, Raleigh. These site visits resulted in the installation of network hardware in preparation for circuit installations to support AT&T NG911 connectivity.

**21 May, 2020 – Formal Technical Project Kickoff Meeting with all parties.**

- **AT&T - Mr. David Smith, Project Manager, AT&T**
- **TSU- Mike Hodgson, Project Manager/Lead, NCSHP**
- **TSU – Nathan Huey, Telecom Manager**
- **NC911 Board – Mr. Gerry Means, Lead Engineer**
- **NC911 Board – Mr. Stanley Meeks, Manager 911 NMAC**
- **NC 911 Board – Ms. Tina Gardner, Regional Representative to the Board**
- **AT&T – Mr. Joshua Briggs, AT&T Consulting – Program Manager**
- **AT&T – Mr. Topper Hightower, AT&T 911 Service Manager**
- **AT&T – Mr. Kantu Patel, AT&T 911 Engineer**
- **AT&T – Mr. Keith Martin, AT&T 911 Lead Engineer**
- **AT&T – Mr. Luke Ulmer, Intrado/West EsiNet Project Manager**
- **Motorola Solutions – Mr. Ed Becker, CPE Project Manager**

Complete introductions of all involved parties, reviewed logistics and scope of project, discussed Network design concept, considered AT&T text to speech and if this is a necessary component of the NCSHP rollout, prerequisites, network components, data collection, training and transitions of the overall project and concurrence from the Patrol to move forward with the project. Certain action items were assigned to members present on the call and the Patrol consented to move forward based upon the items discussed on the call and the action plan presented by AT&T.

#### **4-June, 2020 – Bi-monthly Project Status Update Conference Call**

- **AT&T - Mr. David Smith, Project Manager, AT&T**
- **TSU- Mike Hodgson, Project Manager/Lead, NCSHP**
- **TSU – Nathan Huey, Telecom Manager**
- **NC911 Board – Mr. Gerry Means, Lead Engineer**
- **NC911 Board – Mr. Stanley Meeks, Manager 911 NMAC**
- **NC 911 Board – Ms. Tina Gardner, Regional Representative to the Board**
- **AT&T – Mr. Joshua Briggs, AT&T Consulting – Program Manager**
- **AT&T – Mr. Topper Hightower, AT&T 911 Service Manager**
- **AT&T – Mr. Kantu Patel, AT&T 911 Engineer**
- **AT&T – Mr. Keith Martin, AT&T 911 Lead Engineer**
- **AT&T – Mr. Luke Ulmer, Intrado/West EsiNet Project Manager**
- **Motorola Solutions – Mr. Ed Becker, CPE Project Manager**

Discussed administrative concerns (RNC), need to sign and return to Ms. Gardner a complete COVID-19 acknowledgement form, potential CAD project for the Patrol and confirmation that the NG911/EsiNet project will be complete prior to any action on the Patrol's behalf towards a CAD solution. AVPN orders are set to be placed within several weeks. Patrol has been tasked with providing speed dial information for the DCW (Huey). Text to SHP was discussed again and Ed Ricketts (AT&T) will work to provide a cost for consideration. System reports were discussed and it was suggested that those reports available through ECATS may be sufficient. Mr. Gerry Means to provide a sample for SHP review.

#### **9-June, 2020 – Emil received from Mr. David Smith, AT&T Project Manager**

- **AT&T - Mr. David Smith**
- **TSU- Mike Hodgson**

Mr. David Smith forwarded a copy of the NC911 Board COVID-19 policy and it was returned, signed to Mr. Smith and Ms. Gardner by Mr. Hodgson on 9 June, 2020..

#### **18-June, 2020 – Emil received from Mr. David Smith, AT&T Project Manager**

- **AT&T - Mr. David Smith**
- **TSU- Mike Hodgson**

Mr. David Smith followed up on a request for information regarding monitors purchased by SHP for use with this project. SHP provide a response that a 27", non-touch screen monitor from Hewlett Packard has been purchased and installed at each center to support the project. Mr. Smith also requested a conference call with the AT&T engineering team and a representative from SHP Network (Mr. Mark Taylor) on 21 July, 2020 to discuss the Patrol's layer 2 WAN connectivity as it relates to the project.

## **18-June, 2020 – Bi-monthly Project Status Update Conference Call**

- **AT&T - Mr. David Smith, Project Manager, AT&T**
- **TSU- Mike Hodgson, Project Manager/Lead, NCSHP**
- **TSU – Nathan Huey, Telecom Manager**
- **NC911 Board – Mr. Gerry Means, Lead Engineer**
- **NC911 Board – Mr. Stanley Meeks, Manager 911 NMAC**
- **NC 911 Board – Ms. Tina Gardner, Regional Representative to the Board**
- **AT&T – Mr. Joshua Briggs, AT&T Consulting – Program Manager**
- **AT&T – Mr. Topper Hightower, AT&T 911 Service Manager**
- **AT&T – Mr. Kantu Patel, AT&T 911 Engineer**
- **AT&T – Mr. Keith Martin, AT&T 911 Lead Engineer**
- **AT&T – Mr. Luke Ulmer, Intrado/West EsiNet Project Manager**
- **Motorola Solutions – Mr. Ed Becker, CPE Project Manager**

Discussed administrative concerns (RNC), COVID conditions with SHP, potential CAD project for the Patrol and confirmation that the NG911/EsiNet project will be complete prior to any action on the Patrol's behalf towards a CAD solution. DCW data collection is ongoing (Huey) and will be provided as soon as it is complete. Further discussion on Text to Speech; Patrol advises that they would like it however would be unable to fund if the project cost rises. AT&T has quotes from Intrado and will be reviewing for further discussion with SHP. ECAT information is being reviewed for consideration. SHP Third party vendors (CRS-Eventide) and Motorola (consoles) have been briefed by SHP as to the scope of the EsiNet NG911 project.

**Respectfully submitted,**

**Mike**

**Michael Hodgson,  
Project Manager, NCSHP NG911 Project.**





## Project Update 7-1-2020 to 7-31-2020

### NG 911 Statewide Project

#### **1 July, 2020 – Email received from Mr. David Smith, AT&T Project Manager**

- **AT&T - Mr. David Smith**
- **TSU- Mike Hodgson**

Mr. David Smith confirmed via email that there will not be a bi-weekly call on 2 July due to the large number of attendees that are out on vacation. The next call will be on 16 July, 2020 at the regularly scheduled time.

#### **2-July, 2020 – Email received from Mr. David Smith, AT&T Project Manager**

- **AT&T - Mr. David Smith**
- **TSU- Mike Hodgson**

Mr. David Smith provided a brief update via email, in lieu of the bi-weekly conference call. AVPN orders for the network equipment installations to be completed at 3318 Garner Road and 1636 Gold Star Drive have been entered, however they have not been released as of yet. Once the hardware has been installed the AT&T MR team will move forward with executing WAN and LAN testing.

Mr. Smith confirmed that we are to have a network design team call tentatively scheduled for 21 July with the AT&T network team, and the TSU team consisting of Mr. Hodgson, Mr. Taylor and Mr. Huey. Currently we are awaiting a confirmation from all of the team members on the date.

Mr. Huey is working with the Patrol center supervisors to compile a speed dial and admin line listing along with providing the type of line (PBX, etc.) and the purpose of the line (Admin, or otherwise). Once this has been compiled this will be integrated into the Data Collection Workbook (DCW) that ultimately is handed off to the AT&T team for integration into the ESINet.

The target date for Go Live remains the end of Q1 2021.

**6-July, 2020 – Email received from Mr. David Smith, AT&T Project Manager**

- **AT&T - Mr. David Smith**
- **TSU- Mike Hodgson**

Mr. David Smith emailed to provide a confirmation email that the turn up for the AVPN equipment at 3318 Garner Road and 1636 Goldstar Drive will occur on 10 July. Mr. Huey his availability and will meet the technicians at Gold Star Drive first and then proceed to TSU.

**6-July, 2020 – Email received from Mr. Mark Taylor, TSU**

- **TSU- Mark Taylor**
- **TSU- Mike Hodgson**
- **AT&T – Mr. David Smith**

Mr. Mark Taylor enquired if AT&T could confirm the needed bandwidth per tele-communicator position to support the ESINet. AT&T engineering provided a response through Mr. David Smith that 500K per position was required. Mr. Smith also confirmed that 3-4PM on 21 August would be the date and time for the technical network review meeting.

**9 July, 2020 – Email received from Mr. David Smith, AT&T Project Manager**

- **AT&T - Mr. David Smith**
- **TSU- Mike Hodgson**

Mr. David Smith emailed to notify us that he had a conflict for the 16 July Project Status Meeting (call) and it would need to be rescheduled.

**13 July, 2020 – Email received from Mr. David Smith, AT&T Project Manager**

- **AT&T - Mr. David Smith, Project Manager, AT&T**
- **TSU- Mike Hodgson**

Mr. David Smith emailed with some follow up items that need clarification.

- Did the AVPN turn up occur and were there any issues on our end?
- Update on Speed Dial and Admin line information from Mr. Huey
- Possible dates to schedule a call flow meeting with Motorola's VESTA team.
- Site Surveys will need to occur once we have completed the WAN/LAN review meeting on the 21<sup>st</sup> of July.
- Confirmation that TSU had received some sample ESINet reports from Mr. Gerry Means, NC911 Staff Engineer and had TSU had an opportunity to review those for suitability.

**13 July, 2020 – Email received from Mr. David Smith, AT&T Project Manager**

- **AT&T - Mr. David Smith, Project Manager, AT&T**
- **TSU- Mike Hodgson**

Mr. David Smith emailed with a confirmation of TSU's response to the email of 13 July.

- AVPN Circuits were successfully installed and AT&T will now move forward with the order, config and install of the new AVPN Routers and execute connectivity testing into the ESINet network.
- The WAN/LAN review meeting is scheduled and confirmed for 21 July.
- After the conclusion of the WAN/LAN meeting, we will be in a better position to know when we can test the Layer 2 (L2) handoff from AT&T to SHP Network.
- Once completed, we will begin to schedule Customer Premise Equipment (CPE) site surveys with the Motorola (VESTA) team and TSU.
- Once all of the admin line data has been entered into the DCW, we will begin to schedule an initial call flow meeting with Motorola (VESTA).
- Once all equipment has ultimately been shipped to all locations, AT&T and Motorola engineers will be onsite to prep, setup and perform basic validations of operation which will in turn lead to the Operational Readiness Testing (ORT) which will likely occur in early to mid Q1, 2021.
- After the ORT is complete, training will commence, followed by the selection of a Go Live date.

**15-July, 2020 – Emil sent to Mr. David Smith, AT&T Project Manager**

- **AT&T - Mr. David Smith**
- **TSU- Mike Hodgson**

Mr. Hodgson provided AT&T with the compiled Speed Dial and Administrative telephone list.

**15-July, 2020 – Emil received from Mr. David Smith, AT&T Project Manager**

- **AT&T - Mr. David Smith**
- **TSU- Mike Hodgson**

Mr. David Smith followed up the submittal of the speed dial and admin line information with a question from the AT&T Engineering staff which was in turn responded to by Mr. Hodgson and Mr. Huey.

**16-July, 2020 – Bi-monthly Project Status Update provided by email from Mr. David Smith, AT&T Project Manager, in lieu of a group call.**

- **AT&T - Mr. David Smith, Project Manager, AT&T**
- **TSU- Mike Hodgson, Project Manager/Lead, NCSHP**

Discussed overall project status with no significant updates. A discussion item was brought forward regarding the potential for SHP to want to receive TEXT to 911. This is NOT currently an in scope item for this project, however Mr. Hodgson and Mr. Huey both felt that AT&T should provide the state with a cost proposal as well as clearer understanding of the features and benefits to the state. This would likely still remain a 911 pass through message, whereby the original text message would first be received by a Primary PSAP and then passed on to the Patrol. Without the TEXT to 911 capability, the Patrol would be unable to receive the forwarded messages for further action or dissemination. Mr. Brian Smith, AT&T Sales, NC will be working to provide further information to the state regarding the TEXT to 911 service. There is currently no change to the project timeline.

**21-July, 2020 – NCSHP WAN review meeting**

- **AT&T - Mr. David Smith, Project Manager, AT&T**
- **TSU- Mike Hodgson, Project Manager/Lead, NCSHP**
- **TSU – Nathan Huey, Telecom Manager**
- **AT&T – Mr. Joshua Briggs, AT&T Consulting – Program Manager**
- **AT&T – Mr. Kantu Patel, AT&T 911 Engineer**
- **AT&T – Mr. Keith Martin, AT&T 911 Lead Engineer**

A very comprehensive call between all of the above parties to discuss the AT&T WAN to NCHSP LAN L2 handoff and to determine areas of responsibility.

From the call the following determinations were made;

1. JFHQ and TSU will be connected to the SoNC Hosted Vesta via 1-50mb AVPN to each site. The AVPN will terminate on an AT&T provided Router. The handoffs for both sites are multi-node fiber.
  - i. JFHQ – the AVPN to JFHQ will serve Troops A/C/D (which are located at JFHQ) via Electrical handoff and NCSHP will extend the AVPN optical handoff via PSAPs fiber (approx. 150 meters) to the Data Center where it will go into the PSAPs WAN.
    1. The AT&T Router and CPE equipment (ideally) will be installed in the same rack.
    2. The location has 24X7 access and is used by multiple entities.
    3. Access is controlled and must be facilitated/scheduled.
    4. We may be able to use existing rack space.

- a. During site survey, check the existing racks to see if there is space for the router and CPE equipment (+- ½ rack is needed).
- 2. WAN Connectivity from JFHQ and TSU to peripheral Troops.
  - a. TSU – the AVPN to TSU will be extended by the PSAP (apprx. 50') to the PSAPs WAN.
    - i. During site survey, check existing racks to see if there is space for the router
    - ii. TSU AVPN Router requires 1-2 U's depending on which Router is selected.
  - b. Troop B will connect to the WAN via 1-connection via Electrical handoff. The terminating router and CPE equipment will be in the same room.
    - i. During site survey, check the existing racks to see if there is space for the router and CPE equipment (+- ½ rack is needed).
  - c. Troop E – NCSHP will extend the fiber connection to the Com Center where the 911 CPE is located. Ideally the router and 911 CPE equipment can be installed in the same rack.
    - i. During site survey, review the network plan to ensure agreement, and check the existing racks to see if there is space for the router and CPE equipment (+- ½ rack is needed).
  - d. Troop F/G - NCSHP will extend the fiber connection to the Com Center where the 911 CPE is located. Ideally the router and 911 CPE equipment can be installed in the same rack.
    - i. During site survey, review the network plan to ensure agreement, and check the existing racks to see if there is space for the router and CPE equipment (+- ½ rack is needed).
  - e. Troop B, H and Backup – the Router and 911 CPE equipment are in the same room.
    - i. During site survey, review the network plan to ensure agreement, and check the existing racks to see if there is space for the router and CPE equipment (+- ½ rack is needed).
- 3. Fujitsu Monitoring and Response (M&R) – will use the AT&T network to M&R.
- 4. Motorola 911 CPE Equipment requires ½-Rack. The racks are currently in the orders. If we determine some are not needed they will be removed from scope.
- 5. Max bandwidth per workstation is 500k +20%.
- 6. Tech Review – The AT&T team will meet next week to review the scope and then we will be scheduling the site surveys.

7. Site Surveys - Dave will facilitate Site Survey scheduling with Mark and Nathan to ensure we select dates that work for everyone.

**Respectfully submitted,**

**Mike**

**Michael Hodgson,  
Project Manager, NCSHP NG911 Project.**



## Pasquotank County PSAP, NC

PSAP Consolidation Project  
 Monthly Progress Report – June, 2020

MCP Project Number 16-185

Activity	This Period	Next Period
1. Design	<ul style="list-style-type: none"> <li>• No action required</li> </ul>	<ul style="list-style-type: none"> <li>• No action expected</li> </ul>
2. Permits	<ul style="list-style-type: none"> <li>• No action</li> </ul>	<ul style="list-style-type: none"> <li>• No action</li> </ul>
3. Construction	<ul style="list-style-type: none"> <li>• No actions required</li> </ul>	<ul style="list-style-type: none"> <li>• No action expected</li> </ul>
4. Communications Systems	<ul style="list-style-type: none"> <li>• Continued biweekly meetings with AT&amp;T on hosted call handling</li> <li>• Continued coordination of admin lines and data circuits for Martin Backup facility</li> <li>• Reviewed installation of radio equipment</li> <li>• Continued to review action items and next steps</li> </ul>	<ul style="list-style-type: none"> <li>• Continue biweekly coordination calls with AT&amp;T</li> <li>• Continue to participate in equipment migration planning and documentation</li> <li>• Continue to evaluate needs at the Martin Backup facility</li> <li>• Track data circuit installation dates</li> </ul>
5. Other Activity	<ul style="list-style-type: none"> <li>• MCP conducted periodic project communications with the stakeholders</li> <li>• Prepared and presented grant extension letter</li> </ul>	<ul style="list-style-type: none"> <li>• MCP will conduct periodic communications with the stakeholders</li> </ul>

## Pasquotank County PSAP, NC

PSAP Consolidation Project  
 Monthly Progress Report – July, 2020

MCP Project Number 16-185

Activity	This Period	Next Period
1. Design	<ul style="list-style-type: none"> <li>• No action required</li> </ul>	<ul style="list-style-type: none"> <li>• No action expected</li> </ul>
2. Permits	<ul style="list-style-type: none"> <li>• No action</li> </ul>	<ul style="list-style-type: none"> <li>• No action</li> </ul>
3. Construction	<ul style="list-style-type: none"> <li>• No actions required</li> </ul>	<ul style="list-style-type: none"> <li>• No action expected</li> </ul>
4. Communications Systems	<ul style="list-style-type: none"> <li>• Continue biweekly meetings with AT&amp;T on hosted call handling</li> <li>• Continue coordination of admin lines and data circuits for Martin Backup facility</li> <li>• Continued review action items and next steps</li> <li>• Finalize testing and cutover planning</li> </ul>	<ul style="list-style-type: none"> <li>• Continue biweekly coordination calls with AT&amp;T</li> <li>• Continue to participate in equipment migration planning and documentation</li> <li>• Finalize acceptance testing and prep for cutover</li> </ul>
5. Other Activity	<ul style="list-style-type: none"> <li>• MCP conducted periodic project communications with the stakeholders</li> </ul>	<ul style="list-style-type: none"> <li>• MCP will conduct periodic communications with the stakeholders</li> </ul>

### Pender County SO/Zuercher Project Status

Milestone	Owner	Start Date	End Date	Total Days	Signed Doc needed	Notes	% Complete May 2020
Pender County SO FD/EMS Mobile Addon		3/31/2020	9/30/2020	184			
Kickoff Call	Zuercher/Pender County Sheriff's Office	4/27/2020	4/27/2020	1	N		100%
Server Upgrade	Zuercher/Pender County Sheriff's Office				N	This contract deliverable was deemed duplicative/not needed and is in process of being credited.	
Configuration	Zuercher/Pender County Sheriff's Office	4/28/2020	6/30/2020	64		Limited to set up of new user accounts and units.	
Training - Train the Trainer	Zuercher/Pender County Sheriff's Office	TBD	TBD		N		
Peripheral Equipment	Zuercher/Pender County Sheriff's Office	6/1/2020	6/25/2020	25	N	50 GlobalSat GPS Receivers	
Go Live	Zuercher/Pender County Sheriff's Office	6/25/2020	8/31/2020	68	N	This will be a rolling go live as each agency comes online.	

Pender County SO/Zuercher Project Status

Milestone	Owner	Start Date	End Date	Total Days	Signed Doc needed	Notes	% Complete February 2019	% Complete March 2019	% Complete April 2019	% Complete May 2019	% Complete June 2019	% Complete July 2019	% Complete August 2019	% Complete September 2019	% Complete October 2019	% Complete November 2019	% Complete December 2019	% Complete January 2020	% Complete February 2020	% Complete March 2020	% Complete April 2020	% Complete May 2020
Pender		1/24/2019	1/10/2020	352																		
Kickoff Call	Zuercher/Pender County Sheriff's Office	3/4/2019	3/4/2019	1	Y	Kickoff Verification Doc	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
Infrastructure (Server)	Zuercher/Pender County Sheriff's Office	1/24/2019	3/12/2019	48	Y	Server hardware, set up, installation and connectivity validation	50%	70%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
BPR Date	Zuercher/Pender County Sheriff's Office	4/16/2019	4/18/2019	3	Y	Business Practice Review Agenda will be provided, BPR to conduct demos and primary configurations			100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
Configuration	Zuercher/Pender County Sheriff's Office	4/16/2019	8/30/2019	137		Configuration Guide will be provided			40%	45%	50%	55%	65%	75%	95%	95%	100%	100%	100%	100%	100%	100%
System Review	Zuercher/Pender County Sheriff's Office	8/31/2019	9/28/2019	29	Y	Full Review of Configuration done with the BA Team							10%	25%	75%	75%	100%	100%	100%	100%	100%	100%
Data Conversion	Zuercher/Pender County Sheriff's Office	7/8/2019	8/16/2019	40		- VisionAIR CAD - VisionAIR RMS - VisionAIR JMS						40%	90%	95%	95%	95%	100%	100%	100%	100%	100%	100%
GIS	Zuercher/Pender County Sheriff's Office	8/26/2019	9/6/2019	12	Y	GIS kickoff, Data Received, GIS build & implementation						10%	80%	100%	100%	100%	100%	100%	100%	100%	100%	100%
Interface Implementation & Testing	Zuercher/Pender County Sheriff's Office	9/23/2019	11/22/2019	61		- OSSI P2P - Basic Paging - E911 (ANI/ALI) - Emergency Reporting - EMS Charts - EvenTide Voice Recorder - ProQA - Rip and Run - AVL - Commissary (Kimballs) - Inmate Phone (Securus) - M2Sys Fingerprint							10%	25%	50%	92%	92%	92%	92%	92%	92%	
Peripheral Equipment (Zuercher Suite)	Zuercher/Pender County Sheriff's Office	9/23/2019	10/18/2019	26		- Inventory/Equipment Barcode Scanner and Printer Package - Mugshot Camera Package - Wristband Printer, Laminator & Scanner Package - Property & Evidence Barcode Scanner and Printer Package - iPad Package for Jail							10%	90%	100%	100%	100%	100%	100%	100%	100%	100%
Training - Train the End User	Zuercher/Pender County Sheriff's Office	10/21/2019	11/22/2019	33	Y	Training Agenda will be provided									20%	100%	100%	100%	100%	100%	100%	100%
Go Live	Zuercher/Pender County Sheriff's Office	12/4/2019	12/5/2019	2	Y	GO Live Schedule will be provided											100%	100%	100%	100%	100%	100%
Post Go Live Follow up/Transition	Zuercher/Pender County Sheriff's Office	12/9/2019	1/7/2020	30													75%	100%	100%	100%	100%	100%

# Rutherford 911

## Monthly Progress Report

### Current Activity

July 2020

#### Rutherford PSAP Relocation / Enhancement

- Construction continues. Very pleased with the progress being made.
  - Completed Category 4 upgrade/requirements.
  - Finished install of metal framing.
  - Plumbing work continues.
  - Rough-in electrical started.
  - HVAC install has begun.
- Interior finishes and signage selection sent to the Architect.
- Techworks began purchase of materials for AV system, equipment room cabinets, and cabling.
- Exterior drainage issue discovered and repaired.
- Met with AT&T contractor, Camp Electric, County Planning and Information Technologies regarding fiber entry for Pangea and AT&T (dual entry).



### Next Month's Activity

August 2020

#### Rutherford PSAP Relocation / Enhancement

- Installation of HVAC and Electrical to continue.
- Techworks to begin installation of cabling.
- Purchase Order submitted for 60ft World Tower
- Next site meeting 07-23-2020

Rutherford County SO 911 - 240. North Washington St, Rutherfordton, NC 28139  
Lt. Greg Dotson - [greg.dotson@rutherfordcountync.gov](mailto:greg.dotson@rutherfordcountync.gov) Direct: 828-287-6095

*Any opinions, findings, conclusions, or recommendations expressed in this publication are those of the author(s) and do not necessarily reflect the view and policies of the 911 Board.*

# Rutherford 911

Monthly Progress Report

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## Current Activity

August 2020

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### Rutherford PSAP Relocation / Enhancement

- Construction continues.
  - Sheetrock in place. Working to finish and prepare for painting.
  - Electrical work continues.
  - HVAC nearing completion
- *Interior* signage selection complete and additions approved.
- TechWorks will begin 250+ cable pulls (08-10-2020).
- Work begins for routing AT&T and Pangea fiber.
- Preparation for Tower installation: SHOP submittal complete, soil testing requirements detailed, concrete vendor selected, etc.
- Outdoor lighting selected.

## Next Month's Activity

September 2020

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### Rutherford PSAP Relocation / Enhancement

- Construction continues... expect installation of interior windows, doors and ceiling grid.
- Radio Tower project management to continue.
- Techworks to continue installation of cabling, TV and AV system.
- Next site meeting 07-27-2020



July 17, 2020

L.V. Pokey Harris  
Executive Director  
North Carolina 911 Board

This status report is the first for Cycle 3, Phase 1 of the Statewide Orthoimagery Program, funded by the NC 911 Board. The project is referred to as the Coastal 2020 Orthoimagery Project. This report summarizes the project status for the second quarter of 2020: April 1 through June 30, 2020.

### **Accomplishments**

The accomplishments by the project team during the period include the following items organized by team member:

#### CGIA

- Coordinated outreach with 28 PSAPs in project area and 27 local county government organizations to establish communications, provide project updates, and facilitate early review of the products.
- Outlined requirements and new development items for the online VOICE QC application.
- Tested the development of the online QC application (VOICE).
- Held VOICE training webinar on June 23<sup>rd</sup> with PSAPs and end-users in the project area for the VOICE online QC platform.
- Received preliminary imagery services from contractors for their entire study area to evaluate and approve color balancing across entire study area.
- Created online map for project team to evaluate preliminary imagery web services from contractors.
- Received and tested 4-band Color Infrared Sample images from contractors. These samples were used in testing development of final products to be developed in the fall prior to final deliveries to the PSAPs in the project area.
- Received and evaluated control survey compliance documentation from contractors to assess horizontal accuracy of early imagery processing.
- Received and evaluated Imagery Acquisition compliance documentation to ensure technical requirements were met for coverage and resolution.
- Received and evaluated GNSS-IMU Aerotriangulation and Post-Processing documentation to assess early processing of the imagery and contractor workflows.
- Continued development of the project website and project SharePoint site for sharing documents among the project team and for receiving contracted deliverables from contractors.
- Created and tested validation databases used for evaluating final imagery products delivered by the vendors this coming fall.



- Coordinated with the Marine Corps to obtain the latest installation boundary to be used by the contractor to redact imagery to be distributed publicly outside of the PSAP.
- Coordinated with the Marine Corps to set a meeting in late July to discuss next steps and finalize requirements.
- Other tasks included regular team meetings and ongoing outreach to federal, state and local partners.

#### NC Department of Transportation (NCDOT)

- Received and evaluated Imagery Acquisition compliance documentation to ensure technical requirements were met for coverage and resolution.
- Received and evaluated GNSS-IMU Aerotriangulation and Post-Processing documentation to assess early processing of the imagery and contractor workflows.
- Provided guidance on any technical issues resulting from the review of compliance documentation.
- Established accounts for VOICE reviewers on NCDOT project team and tested system access.
- Attended the VOICE training webinar on June 23<sup>rd</sup>.
- Provided technical support for project planning.
- Attended weekly status meetings with project team.

#### NC Department of Public Safety: NC Geodetic Survey (NCGS)

- Attended team strategy meetings.
- Received and evaluated all remaining Attachment C-1: Control Surveys Reports to ensure surveying activities were being done to project specifications for horizontal accuracy.
- Using the project-wide preliminary imagery services provided by the contractors, began selecting and assessing horizontal quality control points to be used in the fall.
- Performed Geodetic Control upgrades to Continuously Operating Reference Stations in project area to ensure availability to contractors during flights.

#### Acquisition Contractors

This section summarizes the accomplishments of the five prime acquisition contractors selected through the Qualifications-Based Selection (QBS) process. The selected contractors are Atlas Geographic Data, Quantum Spatial, Sanborn Map Company, Spatial Data Consultants, and Surdex Corporation. The fully executed contracts were awarded on December 30, 2019. Each of the contracts consists of six primary tasks as follows:

- Task 1 – Flight Planning
- Task 2 – Imagery Acquisition
- Task 3 – Aerotriangulation and Ortho Generation
- Task 4 – Product Delivery and Data Acceptance



- Task 5 – Quality Review and Resolutions Reporting
- Task 6 – Closeout

For the 2<sup>nd</sup> Quarter 2020 reporting period, the status of all tasks is listed below:

Task	Reported Percent Complete (as of latest invoice)				
	Atlas Geographic Data	Quantum Spatial	Sanborn Map Company	Spatial Data Consultants	Surdex Corporation
Task 1: Flight Planning	100%	100%	100%	100%	100%
Task 2: Acquisition	100%	100%	100%	100%	100%
Task 3: Aerotriangulation and Ortho Generation	89%	91%	99%	100%	99%
Task 4: Product Delivery and Data Acceptance	45%	35%	85%	60%	30%
Task 5: Quality Review Resolutions	0%	0%	0%	0%	0%
Task 6: Closeout	0%	0%	0%	0%	0%

[Acquisition of imagery for all 27 counties was completed on March 9, 2020.]

### Schedule

The following represents the project's core deliverables milestones for plan and actual status:

Task	Item	Planned Start	Planned Finish	Actual Finish/Percent Complete
<b>1</b>	<b>Project Initiation</b>	<b>7/1/2019</b>	<b>12/31/2019</b>	<b>2/7/2020</b>
	Issue RFQ for Orthoimagery QBS	7/31/2019	7/31/2019	7/31/2019
	Closing date for RFQ responses	8/26/2019	8/26/2019	8/26/2019
	Contract NCGS and NCDOT	8/1/2019	8/1/2019	10/21/2019
	Host workshop for selected applicants	9/24/2019	9/24/2019	9/24/2019
	Technical and cost proposals due	10/8/2019	10/8/2019	10/8/2019
	Negotiate with selected applicants	10/28/2019	10/28/2019	10/28/2019
	Issue Purchase Orders	11/22/2019	11/22/2019	12/30/2019
	Conduct Kickoff Meeting	12/12/2019	12/12/2019	12/12/2019
	Contract QC Service Provider	1/1/2020	1/1/2020	2/7/2020
<b>2</b>	<b>Planning and Design</b>	<b>10/15/2019</b>	<b>4/30/2020</b>	<b>4/2/2020</b>
	CORS Upgrades	10/15/2019	3/1/2020	1/16/2020
	Validation Range	10/15/2019	1/14/2020	1/14/2020
	RTN Maintenance	10/15/2019	Ongoing	
	Control Surveys and Attachment C-1: Control Surveys Report	12/12/2019	4/2/2020	4/2/2020
<b>3A</b>	<b>Acquisition</b>	<b>1/20/2020</b>	<b>4/27/2020</b>	<b>4/27/2020</b>
	Acquire Imagery for 27 Counties	1/20/2020	3/15/2020	3/9/2020
	Attachment D: Imagery Acquisition Compliance Report	2/1/2020	4/27/2020	4/27/2020



3B	Acquisition Post-Processing	2/1/2020	5/21/2020	6/16/2020
	Attachment E: GNSS-IMU Post Processing & Aerotriangulation Report	3/1/2020	5/15/2020	6/16/2020
	Ortho Generation Workshop	3/24/2020	3/24/2020	3/31/2020
	Study Area Web Map Service	4/1/2020	5/21/2020	5/5/2020
4	Quality Review Production and Product Delivery	5/21/2020	10/17/2020	
	QC Production Cycle	5/21/2020	10/17/2020	
5	Implementation	11/16/2020	1/29/2021	
	Product Delivery	11/16/2020	11/20/2020	
	Implement the NC OneMap Geospatial Portal solution	12/1/2020	Ongoing	
	60 day End-User Evaluation	11/20/2020	1/29/2021	
6	Project Closeout	12/1/2020	4/31/2021	
	Final Data Packaging and Final Reports	12/1/2020	4/31/2021	
	Project Closeout	4/1/2021	4/31/2021	

### Budget

The expenditures for the project are summarized below. Note the current reporting period represents April 1, 2020 – June 30, 2020. The total budget for the project is \$4,108,739.

Item	This Reporting Period	Cumulative to Date	Percent Expended to Date
<b>CGIA</b>			
CGIA Labor	\$23,352.00	\$78,036.00	22.3%
ITS Hosting and Information Technology	\$0.00	\$0.00	0.0%
CGIA Travel	\$0.00	\$549.60	13.7%
CGIA Reimbursable Expenses	\$0.00	\$0.00	0.0%
<b>CGIA Total</b>	<b>\$23,352.00</b>	<b>\$78,585.60</b>	<b>19.2%</b>
<b>Subcontractors</b>			
NCDPS-NCGS	\$3,881.91	\$157,233.83	76.7%
NCDOT	\$15,734.63	\$40,684.50	26.2%
Atlas Geographic Data	\$295,981.45	\$334,993.75	50.1%
Quantum Spatial	\$162,212.50	\$162,212.50	44.4%
Surdex Corporation	\$409,920.34	\$436,767.34	68.6%
Sanborn Map Company	\$268,703.39	\$268,703.39	62.4%
Spatial Data Consultants	\$324,195.10	\$398,950.60	58.9%
VOICE	\$0.00	\$0.00	0.0%
<b>Subcontractor Total</b>	<b>\$1,480,629.32</b>	<b>\$1,799,545.91</b>	<b>56.1%</b>
<b>Total (for Project)</b>	<b>\$1,503,981.32</b>	<b>\$1,878,131.51</b>	<b>45.7%</b>



## Major Tasks Identified for 3<sup>rd</sup> Quarter of 2020

### CGIA

- Enter request for purchase of hardware necessary for processing final imagery deliverables and drives for distributing the imagery to all PSAPs in the project area.
- Coordinate end-user review and resolve any issues with access to online application or with imagery quality.
- Begin VOICE quality review process in early July.
- Screen all submitted issues for contract compliance and submit to contractors for resolution.
- Hold quality review check-in meeting with contractors in late July to finalize requirements for remainder of review and start of final deliveries.
- As issues are resolved and updated imagery is loaded into VOICE, begin confirmation process to ensure that the issues have been resolved prior to final deliveries.
- Other tasks include regular team meetings and ongoing outreach to federal, state and local partners.

### NCDOT

- Attend weekly project meetings.
- Participate in VOICE review and review 30% of imagery in each county.
- Attend bi-weekly project meetings.
- Continue technical support for project planning.

### NCGS

- Attend weekly project meetings.
- Perform CORS maintenance when needed in the project area.
- Utilize the VOICE imagery to assess horizontal quality control locations.

### **Project Issues**

There are no financial or technical issues to prevent the team from completing the project on time and within budget.

Please contact me by phone at (919) 754-6588 or email at [tim.johnson@nc.gov](mailto:tim.johnson@nc.gov) if you have questions about this report or about contractual or administrative aspects of the project. Contact Ben Shelton of CGIA at (919) 754-6377 or email at [ben.shelton@nc.gov](mailto:ben.shelton@nc.gov) regarding technical matters related to the project.



NORTH CAROLINA DEPARTMENT OF  
INFORMATION TECHNOLOGY

**Roy Cooper**  
Governor

**Tracy S. Doaks**  
Secretary and State Chief Information Officer

Sincerely,

A handwritten signature in black ink that reads "Tim Johnson". The signature is fluid and cursive, with the first name "Tim" and last name "Johnson" clearly legible.

Tim Johnson, GISP  
Director  
Center for Geographic Information and Analysis

ACCOUNTS PAYABLE

FUND	CENTER	ACCOUNT	PAY ENTITY	CTRL NO	PAYMENT DATE	CHECK NO	INVOICE NO	1,480,629.32 AMOUNT PAID	VENDOR NO	VENDOR GROUP	VENDOR NAME	INVOICE DATE	LINE ITEM DESCRIPTION	PO NUMBER	PO LINE NO	Remit Message
7115	1082	532199	41PT	2063	5/7/2020	142308	AGD-CO20-903	187,180.40	203251160	01	ATLAS GEOGRAPHIC DATA INC	3/3/2020	PLANNING, ACQUISITIO	NC10562917	1	#AGD-CO20-903
7115	1082	532199	41PT	2064	5/14/2020	142379	AGD-CO20-905	37,505.45	203251160	01	ATLAS GEOGRAPHIC DATA INC	5/7/2020	PLANNING, ACQUISITIO	NC10562917	1	AGD-CO20-905
7115	1082	532199	41PT	2066	6/4/2020	142647	AGD-CO20-904	71,295.60	203251160	01	ATLAS GEOGRAPHIC DATA INC	4/1/2020	PLANNING, ACQUISITIO	NC10562917	1	#AGD-CO20-904
7115	1082	532199	41PT	2044	4/2/2020	141996	90736992	555.29	566000967	Y	NC DEPT OF TRANSPORTATION	3/10/2020	IMAGE20 - FY19-20	NC10546123	1	#90736992
7115	1082	532199	41PT	2064	5/21/2020	142557	90739201	7,557.32	566000967	Y	NC DEPT OF TRANSPORTATION	4/14/2020	IMAGE20 - FY19-20	NC10546123	1	#90739201
7115	1082	532199	41PT	2064	5/21/2020	142557	90741031	7,622.02	566000967	Y	NC DEPT OF TRANSPORTATION	5/12/2020	IMAGE20 - FY19-20	NC10546123	1	#90741031
7115	1082	532199	41PT	2063	5/7/2020	211454	S-515	3,881.91	300712287	13	NC DPS GENERAL OPERATIONS	4/1/2020	IMAGE20 - FY19-20	NC10550604	1	#S-515
7115	1082	532199	41PT	2044	4/2/2020	141976	01	70,300.00	391133181	01	QUANTUM SPATIAL INCORPORATED	3/10/2020	PLANNING, ACQUISITIO	NC10562919	1	#01
7115	1082	532199	41PT	2064	5/14/2020	142389	02	91,912.50	391133181	01	QUANTUM SPATIAL INCORPORATED	4/30/2020	PLANNING, ACQUISITIO	NC10562919	1	#02
7115	1082	532199	41PT	2044	4/2/2020	141994	CO20-03	180,663.40	561963091	02	SPATIAL DATA CONSULTANTS	3/3/2020	PLANNING, ACQUISITIO	NC10562921	1	#CO20-03
7115	1082	532199	41PT	2063	5/7/2020	142340	CO20-04	89,961.20	561963091	02	SPATIAL DATA CONSULTANTS	4/2/2020	PLANNING, ACQUISITIO	NC10562921	1	#CO20-04
7115	1082	532199	41PT	2064	5/14/2020	142408	CO20-05	53,570.50	561963091	02	SPATIAL DATA CONSULTANTS	5/4/2020	PLANNING, ACQUISITIO	NC10562921	1	#CO20-05
7115	1082	532199	41PT	2044	4/2/2020	141978	4786	162,286.60	430690641	B	SURDEX CORPORATION	3/3/2020	PLANNING, ACQUISITIO	NC10562920	1	#4786
7115	1082	532199	41PT	2063	5/7/2020	142324	4834	152,303.05	430690641	B	SURDEX CORPORATION	4/6/2020	PLANNING, ACQUISITIO	NC10562920	1	#4834
7115	1082	532199	41PT	2064	5/14/2020	142391	4870	95,330.69	430690641	B	SURDEX CORPORATION	5/1/2020	PLANNING, ACQUISITIO	NC10562920	1	#4870
7115	1082	532199	41PT	2044	4/2/2020	141970	COS00006595	46,909.04	133980333	03	THE SANBORN MAP COMPANY INC.	2/11/2020	PLANNING, ACQUISITIO	NC10562915	1	#COS00006595
7115	1082	532199	41PT	2044	4/2/2020	141970	COS00006621	80,487.33	133980333	03	THE SANBORN MAP COMPANY INC.	3/4/2020	PLANNING, ACQUISITIO	NC10562915	1	#COS00006621
7115	1082	532199	41PT	2063	5/7/2020	142304	COS00006758	56,658.57	133980333	03	THE SANBORN MAP COMPANY INC.	4/10/2020	PLANNING, ACQUISITIO	NC10562915	1	#COS00006758
7115	1082	532199	41PT	2064	5/14/2020	142372	COS00006801	84,648.45	133980333	03	THE SANBORN MAP COMPANY INC.	5/1/2020	PLANNING, ACQUISITIO	NC10562915	1	#COS00006801

LABOR

**DIT - CGIA**  
**Staff Billing Report**  
**Activity: April 2020**

	Client	Date	vice	Memo/Description	Rates	Duration	Billable	Amount
<b>Ben Shelton</b>								
	IMAGE20	04/01/2020	Services:55	Project Management	84.00	2	Yes	168.00
	IMAGE20	04/02/2020	Services:55	Project Management	84.00	1	Yes	84.00
	IMAGE20	04/03/2020	Services:55	Project Management	84.00	4	Yes	336.00
	IMAGE20	04/06/2020	Services:55	Project Management	84.00	3.5	Yes	294.00
	IMAGE20	04/07/2020	Services:55	Project Management	84.00	3	Yes	252.00
	IMAGE20	04/08/2020	Services:55	Project Management	84.00	3	Yes	252.00
	IMAGE20	04/09/2020	Services:55	Project Management	84.00	2	Yes	168.00
	IMAGE20	04/13/2020	Services:55	Project Management	84.00	3	Yes	252.00
	IMAGE20	04/14/2020	Services:55	Project Management	84.00	5	Yes	420.00
	IMAGE20	04/15/2020	Services:55	Project Management	84.00	4	Yes	336.00
	IMAGE20	04/15/2020	Services:40	Presentations/Demonstrations/Meetings	84.00	2	Yes	168.00
	IMAGE20	04/16/2020	Services:55	Project Management	84.00	2	Yes	168.00
	IMAGE20	04/17/2020	Services:55	Project Management	84.00	2	Yes	168.00
	IMAGE20	04/20/2020	Services:55	Project Management	84.00	3	Yes	252.00
	IMAGE20	04/21/2020	Services:55	Project Management	84.00	3	Yes	252.00
	IMAGE20	04/22/2020	Services:55	Project Management	84.00	2	Yes	168.00
	IMAGE20	04/23/2020	Services:55	Project Management	84.00	2	Yes	168.00
	IMAGE20	04/24/2020	Services:55	Project Management	84.00	5	Yes	420.00
	IMAGE20	04/27/2020	Services:55	Project Management	84.00	4.5	Yes	378.00
	IMAGE20	04/28/2020	Services:55	Project Management	84.00	5	Yes	420.00
	IMAGE20	04/29/2020	Services:55	Project Management	84.00	5	Yes	420.00
	IMAGE20	04/30/2020	Services:55	Project Management	84.00	1	Yes	84.00
<b>Total for Ben Shelton</b>						<b>67</b>		<b>\$ 5,628.00</b>
<b>Matthew McLamb</b>								
	IMAGE20	04/02/2020	Services:15	Consulting	84.00	1	Yes	84.00
	IMAGE20	04/09/2020	Services:15	Consulting	84.00	1	Yes	84.00
	IMAGE20	04/15/2020	Services:15	Consulting	84.00	1.5	Yes	126.00
	IMAGE20	04/16/2020	Services:15	Consulting	84.00	1	Yes	84.00
	IMAGE20	04/22/2020	Services:15	Consulting	84.00	1.5	Yes	126.00
	IMAGE20	04/23/2020	Services:15	Consulting	84.00	1	Yes	84.00
	IMAGE20	04/29/2020	Services:15	Consulting	84.00	1.5	Yes	126.00
	IMAGE20	04/30/2020	Services:15	Consulting	84.00	1	Yes	84.00
<b>Total for Matthew McLamb</b>						<b>9.5</b>		<b>\$ 798.00</b>
<b>Tim Johnson</b>								
	IMAGE20	04/02/2020	Services:15	Consulting	84.00	1	Yes	84.00
	IMAGE20	04/09/2020	Services:15	Consulting	84.00	1	Yes	84.00
	IMAGE20	04/15/2020	Services:15	Consulting	84.00	1	Yes	84.00
	IMAGE20	04/16/2020	Services:15	Consulting	84.00	1	Yes	84.00
	IMAGE20	04/23/2020	Services:15	Consulting	84.00	1	Yes	84.00
	IMAGE20	04/24/2020	Services:15	Consulting	84.00	1.5	Yes	126.00
	IMAGE20	04/27/2020	Services:15	Consulting	84.00	0.5	Yes	42.00
	IMAGE20	04/28/2020	Services:15	Consulting	84.00	1	Yes	84.00
	IMAGE20	04/29/2020	Services:15	Consulting	84.00	1	Yes	84.00

**DIT - CGIA**

**Staff Billing Report**

Activity: April 2020

	Client	Date	vice	Memo/Description	Rates	Duration	Billable	Amount
	IMAGE20	04/30/2020	Services:15	Consulting	84.00	1	Yes	84.00
<b>Total for Tim Johnson</b>						<b>10</b>		<b>\$ 840.00</b>
<b>TOTAL</b>						<b>86.5</b>		<b>\$ 7,266.00</b>

**DIT - CGIA**  
**Staff Billing Report**  
**Activity: May 2020**

	Client	Activity Date	Product/Service	Memo/Description	Rates	Duration	Billable	Amount
<b>Anna Verrill</b>								
<b>Total for Anna Verrill</b>						<b>104.5</b>		<b>\$ 8,778.00</b>
<b>Ben Shelton</b>								
	IMAGE20	05/01/2020	Services:55	Project Management	84.00	6	Yes	504.00
	IMAGE20	05/06/2020	Services:40	Presentations/Demonstrations/Meetings	84.00	2	Yes	168.00
	IMAGE20	05/06/2020	Services:55	Project Management	84.00	2	Yes	168.00
	IMAGE20	05/07/2020	Services:40	Presentations/Demonstrations/Meetings	84.00	1	Yes	84.00
	IMAGE20	05/07/2020	Services:55	Project Management	84.00	2	Yes	168.00
	IMAGE20	05/08/2020	Services:55	Project Management	84.00	1	Yes	84.00
	IMAGE20	05/13/2020	Services:55	Project Management	84.00	6	Yes	504.00
	IMAGE20	05/13/2020	Services:40	Presentations/Demonstrations/Meetings	84.00	2	Yes	168.00
	IMAGE20	05/14/2020	Services:40	Presentations/Demonstrations/Meetings	84.00	1	Yes	84.00
	IMAGE20	05/15/2020	Services:55	Project Management	84.00	5	Yes	420.00
	IMAGE20	05/15/2020	Services:40	Presentations/Demonstrations/Meetings	84.00	1	Yes	84.00
	IMAGE20	05/18/2020	Services:55	Project Management	84.00	4	Yes	336.00
	IMAGE20	05/19/2020	Services:55	Project Management	84.00	5	Yes	420.00
	IMAGE20	05/20/2020	Services:55	Project Management	84.00	4	Yes	336.00
	IMAGE20	05/21/2020	Services:55	Project Management	84.00	2	Yes	168.00
	IMAGE20	05/22/2020	Services:55	Project Management	84.00	2	Yes	168.00
	IMAGE20	05/26/2020	Services:55	Project Management	84.00	7	Yes	588.00
	IMAGE20	05/27/2020	Services:40	Presentations/Demonstrations/Meetings	84.00	2	Yes	168.00
	IMAGE20	05/27/2020	Services:55	Project Management	84.00	6	Yes	504.00
	IMAGE20	05/28/2020	Services:40	Presentations/Demonstrations/Meetings	84.00	2	Yes	168.00
	IMAGE20	05/28/2020	Services:55	Project Management	84.00	5.5	Yes	462.00
	IMAGE20	05/29/2020	Services:55	Project Management	84.00	6	Yes	504.00
<b>Total for Ben Shelton</b>						<b>74.5</b>		<b>\$ 6,258.00</b>
<b>Matthew McLamb</b>								
	IMAGE20	05/07/2020	Services:15	Consulting	84.00	0.5	Yes	42.00
	IMAGE20	05/13/2020	Services:15	Consulting	84.00	1.5	Yes	126.00
	IMAGE20	05/14/2020	Services:15	Consulting	84.00	0.5	Yes	42.00
	IMAGE20	05/20/2020	Services:15	Consulting	84.00	1.5	Yes	126.00
	IMAGE20	05/21/2020	Services:15	Consulting	84.00	0.5	Yes	42.00
<b>Total for Matthew McLamb</b>						<b>4.5</b>		<b>\$ 378.00</b>
<b>Tim Johnson</b>								
	IMAGE20	05/07/2020	Services:15	Consulting	84.00	1.5	Yes	126.00
	IMAGE20	05/12/2020	Services:15	Consulting	84.00	0.5	Yes	42.00
	IMAGE20	05/14/2020	Services:15	Consulting	84.00	0.5	Yes	42.00
	IMAGE20	05/20/2020	Services:15	Consulting	84.00	0.5	Yes	42.00
	IMAGE20	05/21/2020	Services:15	Consulting	84.00	0.5	Yes	42.00
	IMAGE20	05/26/2020	Services:15	Consulting	84.00	1	Yes	84.00
	IMAGE20	05/27/2020	Services:15	Consulting	84.00	1	Yes	84.00
	IMAGE20	05/28/2020	Services:15	Consulting	84.00	1	Yes	84.00
<b>Total for Tim Johnson</b>						<b>6.5</b>		<b>\$ 546.00</b>
<b>TOTAL</b>						<b>85.5</b>		<b>\$ 7,182.00</b>

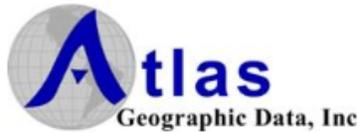
**DIT - CGIA**  
**Staff Billing Report**  
**Activity: June 2020**

	Client	Date	Product/Service	Memo/Description	Rates	Duration	Billable	Amount
<b>Anna Verrill</b>								
	IMAGE20	06/23/2020	Services:40	Presentations/Demonstrations/Meetings (VOICE webinar)	84.00	1	Yes	84.00
<b>Total for Anna Verrill</b>						<b>1</b>		<b>\$ 84.00</b>
<b>Ben Shelton</b>								
	IMAGE20	06/01/2020	Services:55	Project Management	84.00	5.5	Yes	462.00
	IMAGE20	06/02/2020	Services:55	Project Management	84.00	5	Yes	420.00
	IMAGE20	06/03/2020	Services:55	Project Management	84.00	6	Yes	504.00
	IMAGE20	06/04/2020	Services:55	Project Management	84.00	4	Yes	336.00
	IMAGE20	06/05/2020	Services:55	Project Management	84.00	4	Yes	336.00
	IMAGE20	06/08/2020	Services:55	Project Management	84.00	4	Yes	336.00
	IMAGE20	06/09/2020	Services:55	Project Management	84.00	5	Yes	420.00
	IMAGE20	06/10/2020	Services:55	Project Management	84.00	2	Yes	168.00
	IMAGE20	06/10/2020	Services:40	Presentations/Demonstrations/Meetings	84.00	2	Yes	168.00
	IMAGE20	06/11/2020	Services:55	Project Management	84.00	2	Yes	168.00
	IMAGE20	06/11/2020	Services:40	Presentations/Demonstrations/Meetings	84.00	0.5	Yes	42.00
	IMAGE20	6/12/2020	Services:55	Project Management	84.00	6	Yes	504.00
	IMAGE20	06/15/2020	Services:55	Project Management	84.00	4	Yes	336.00
	IMAGE20	06/16/2020	Services:55	Project Management	84.00	3	Yes	252.00
	IMAGE20	06/17/2020	Services:55	Project Management	84.00	4	Yes	336.00
	IMAGE20	06/18/2020	Services:40	Presentations/Demonstrations/Meetings	84.00	1	Yes	84.00
	IMAGE20	06/18/2020	Services:55	Project Management	84.00	3	Yes	252.00
	IMAGE20	06/19/2020	Services:55	Project Management	84.00	4	Yes	336.00
	IMAGE20	06/22/2020	Services:55	Project Management	84.00	4	Yes	336.00
	IMAGE20	06/23/2020	Services:55	Project Management	84.00	3	Yes	252.00
	IMAGE20	06/23/2020	Services:40	Presentations/Demonstrations/Meetings	84.00	2.5	Yes	210.00
	IMAGE20	06/24/2020	Services:55	Project Management	84.00	4	Yes	336.00
	IMAGE20	06/24/2020	Services:40	Presentations/Demonstrations/Meetings	84.00	2	Yes	168.00
	IMAGE20	06/25/2020	Services:55	Project Management	84.00	4	Yes	336.00
	IMAGE20	06/25/2020	Services:40	Presentations/Demonstrations/Meetings	84.00	1	Yes	84.00
	IMAGE20	06/26/2020	Services:55	Project Management	84.00	3	Yes	252.00
	IMAGE20	6/29/2020	Services:55	Project Management	84.00	5	Yes	420.00
	IMAGE20	6/30/2020	Services:55	Project Management	84.00	2	Yes	168.00
<b>Total for Ben Shelton</b>						<b>95.5</b>		<b>\$ 8,022.00</b>
<b>Matthew McLamb</b>								
	IMAGE20	06/04/2020	Services:15	Consulting	84.00	0.5	Yes	42.00
	IMAGE20	06/10/2020	Services:15	Consulting	84.00	1	Yes	84.00
	IMAGE20	06/11/2020	Services:15	Consulting	84.00	0.5	Yes	42.00
	IMAGE20	06/18/2020	Services:15	Consulting	84.00	0.5	Yes	42.00
	IMAGE20	06/23/2020	Services:15	Consulting	84.00	0.5	Yes	42.00
	IMAGE20	06/25/2020	Services:15	Consulting	84.00	0.5	Yes	42.00
<b>Total for Matthew McLamb</b>						<b>3.5</b>		<b>\$ 294.00</b>
<b>Tim Johnson</b>								
	IMAGE20	06/04/2020	Services:15	Consulting	84.00	1	Yes	84.00
	IMAGE20	06/10/2020	Services:15	Consulting	84.00	1	Yes	84.00
	IMAGE20	06/11/2020	Services:15	Consulting	84.00	1	Yes	84.00
	IMAGE20	06/18/2020	Services:15	Consulting	84.00	1	Yes	84.00
	IMAGE20	06/24/2020	Services:15	Consulting	84.00	1	Yes	84.00
	IMAGE20	06/25/2020	Services:15	Consulting	84.00	1	Yes	84.00
<b>Total for Tim Johnson</b>						<b>6</b>		<b>\$ 504.00</b>

**DIT - CGIA**  
**Staff Billing Report**  
 Activity: June 2020

	Client	Date	Product/Service	Memo/Description	Rates	Duration	Billable	Amount
<b>TOTAL</b>						106		<b>\$ 8,904.00</b>

# APPROVED INVOICES



**INVOICE**

<b>Bill To</b>
Center for Geographic Information and Analysis Attn: Tim Johnson 3700 Wake Forest Rd. Raleigh, NC 27609

<b>Order Information</b>	
Invoice Number	AGD-CO20-903
CGIA Contract Number	IMAGE20-04
Purchase Order Number	NC10562917
Invoice Amount	\$187,180.40
Invoice Date	March 03 2020
Performance Period	Feb. 1 thru Feb. 29, 2020

<b>Remit To</b>
Issuing Vendor Firm: Atlas Geographic Data, Inc. Issuing Vendor Fiscal Division: A Issuing Vendor Address: 215 Racine Drive, Suite 201, Wilmington, NC 28403

<b>Contact Information</b>
Issuing Vendor Administrator: Larry Kirkpatrick Issuing Vendor Email: <a href="mailto:kirkpatrick@atlasgeodata.com">kirkpatrick@atlasgeodata.com</a> <a href="mailto:hlambert@atlasgeodata.com">hlambert@atlasgeodata.com</a> Issuing Vendor Phone: 910 256 9892 Issuing Vendor Fax: 910 256 9979

Invoice Summary (per Primary Task)		
Task	Item Description	Amount
1.	Flight planning	\$ 10,446.20
2.	Acquisition	\$ 169,438.20
3.	Aero-triangulation and Ortho Generation	\$ 7,296.00
	<b>Total</b>	<b>\$ 187,180.40</b>

**APPROVED**

Digitally signed by Tim Johnson  
Date: 2020.03.18 11:59:09 -04'00'

**RECEIVED**  
By Ben Shelton at 9:05 am, Mar 06, 2020



**INVOICE**

<b>Bill To</b>
Center for Geographic Information and Analysis Attn: Tim Johnson 3700 Wake Forest Rd. Raleigh, NC 27609

<b>Order Information</b>	
Invoice Number	AGD-CO20-904
CGIA Contract Number	IMAGE20-04
Purchase Order Number	NC10562917
Invoice Amount	\$71,295.60
Invoice Date	April 01 2020
Performance Period	March 1 thru March 31, 2020

<b>Remit To</b>
Issuing Vendor Firm: Atlas Geographic Data, Inc. Issuing Vendor Fiscal Division: A Issuing Vendor Address: 215 Racine Drive, Suite 201, Wilmington, NC 28403

<b>Contact Information</b>
Issuing Vendor Administrator: Larry Kirkpatrick Issuing Vendor Email: <a href="mailto:lirkpatrick@atlasgeodata.com">lirkpatrick@atlasgeodata.com</a> <a href="mailto:hlambert@atlasgeodata.com">hlambert@atlasgeodata.com</a> Issuing Vendor Phone: 910 256 9892 Issuing Vendor Fax: 910 256 9979

Invoice Summary (per Primary Task)		
Task	Item Description	Amount
1.	Flight planning	\$ 3,513.10
2.	Acquisition	\$ 17,901.80
3.	Aero-triangulation and Ortho Generation	\$ 49,880.70
	<b>Total</b>	<b>\$ 71,295.60</b>

**RECEIVED**  
By Ben Shelton at 11:12 am, Apr 24, 2020



**INVOICE**

<b>Bill To</b>
Center for Geographic Information and Analysis Attn: Tim Johnson 3700 Wake Forest Rd. Raleigh, NC 27609

<b>Order Information</b>	
Invoice Number	AGD-CO20-905
CGIA Contract Number	IMAGE20-04
Purchase Order Number	NC10562917
Invoice Amount	\$37,505.45
Invoice Date	May 07 2020
Performance Period	April 1 thru April 30, 2020

<b>Remit To</b>
Issuing Vendor Firm: Atlas Geographic Data, Inc. Issuing Vendor Fiscal Division: A Issuing Vendor Address: 215 Racine Drive, Suite 201, Wilmington, NC 28403

<b>Contact Information</b>
Issuing Vendor Administrator: Larry Kirkpatrick Issuing Vendor Email: <a href="mailto:kirkpatrick@atlasgeodata.com">kirkpatrick@atlasgeodata.com</a> <a href="mailto:hlambert@atlasgeodata.com">hlambert@atlasgeodata.com</a> Issuing Vendor Phone: 910 256 9892 Issuing Vendor Fax: 910 256 9979

Invoice Summary (per Primary Task)		
Task	Item Description	Amount
1.	Flight planning	\$ .40
3.	Aero-triangulation and Ortho Generation	\$ 37,505.05
	<b>Total</b>	<b>\$ 37,505.45</b>

**APPROVED**

Digitally signed by Tim Johnson  
Date: 2020.05.07 16:10:50 -04'00'

**RECEIVED**  
By Ben Shelton at 3:40 pm, May 07, 2020



STATE OF NORTH CAROLINA  
DEPARTMENT OF TRANSPORTATION

ROY COOPER  
GOVERNOR

J. ERIC BOYETTE  
SECRETARY

Invoice

**Bill To:**  
ITS-CGIA  
ATTN: TIM JOHNSON  
PO Box 17209  
RALEIGH NC 27609-7209

**Order information**  
Customer Number: 67549  
Invoice Number: 90736992  
Purchase Order #: 006474-001\_8188\_0001  
Purchase Order Date: 08/29/2019  
Sales Order Number: 659140  
Payment Terms: Net due 30 days  
Billing Date: 03/10/2020  
Due Date: 04/09/2020

**NC10546123**

**Remit To:**  
North Carolina Department of Transportation  
Fiscal Section - Accounts Receivable Unit  
1514 Mail Service Center  
Raleigh, North Carolina 27699-1514

**Contact Person:** Stephanie Benson  
**Phone:** (919)707-4208 Ext. 00  
**Fax:** (919)715-8718  
**Internet:** sbenson@ncdot.gov

Invoice Details

Item	Description	Quantity	Unit Price	Amount
0010	NC State Agency Participation Reim.  INTERAGENCY REIMBURSEMENT AGREEMENT EXECUTED ON 8/29/19 WITH THE NORTH CAROLINA DEPARTMENT OF INFORMATION TECHNOLOGY CENTER FOR GEOGRAPHIC INFORMATION AND ANALYSIS CONSISTING OF PROVIDING ORTHOIMAGERY ADVISORY AND TECHNICAL SERVICES FOR THE DIGITAL COASTAL ORTHOIMAGERY 2020 PROJECT IN 27 COUNTIES OF NORTH CAROLINA, TOTALING APPROXIMATELY 15,678 SQUARE MILES AND 17,483 ORTHOIMAGERY TILES (THE STUDY AREA).  COSTS INCURRED FOR THE MONTH OF FEBRUARY TOTAL \$555.29 PER ATTACHED EMAIL AND DOCUMENTATION RECEIVED FROM RANDY DILLARD OF NCDOT'S PHOTOGRAMMERY UNIT.	1 EA	555.29	555.29
<b>Total Amount Due</b>				<b>\$ 555.29</b>

**APPROVED**  
*Tim Johnson*

Digitally signed by Tim Johnson  
Date: 2020.03.18 11:38:29 -04'00'

Please return the attached copy of this invoice to ensure proper credit for your payment. Remittances should be made payable to N.C. Department of Transportation. According to State Cash Management G.S.25- 3-506, a \$35.00 fee may be imposed for a check on which payment has been refused.

**RECEIVED**  
By Ben Shelton at 1:28 pm, Mar 10, 2020



STATE OF NORTH CAROLINA  
DEPARTMENT OF TRANSPORTATION

ROY COOPER  
GOVERNOR

J. ERIC BOYETTE  
SECRETARY

Invoice

**Bill To:**  
ITS-CGIA  
ATTN: TIM JOHNSON  
PO Box 17209  
RALEIGH NC 27609-7209

**Order Information**  
Customer Number: 67549  
Invoice Number: 90739201  
Purchase Order #: 006474-001\_8188\_0001  
Purchase Order Date: 08/29/2019  
Sales Order Number: 661117  
Payment Terms: Net due 30 days  
Billing Date: 04/14/2020  
Due Date: 05/14/2020

**NC10546123**

**Remit To:**  
North Carolina Department of Transportation  
Fiscal Section - Accounts Receivable Unit  
1514 Mail Service Center  
Raleigh, North Carolina 27699-1514

**Contact Person:** Stephanie Benson  
**Phone:** (919)707-4208 Ext. 00  
**Fax:** (919)715-8718  
**Internet:** sbenson@ncdot.gov

Invoice Details				
Item	Description	Quantity	Unit Price	Amount
0010	NC State Agency Participation Reim.  INTERAGENCY REIMBURSEMENT AGREEMENT EXECUTED ON 8/29/19 WITH THE NORTH CAROLINA DEPARTMENT OF INFORMATION TECHNOLOGY CENTER FOR GEOGRAPHIC INFORMATION AND ANALYSIS CONSISTING OF PROVIDING ORTHOIMAGERY ADVISORY AND TECHNICAL SERVICES FOR THE DIGITAL COASTAL ORTHOIMAGERY 2020 PROJECT IN 27 COUNTIES OF NORTH CAROLINA, TOTALING APPROXIMATELY 15,678 SQUARE MILES AND 17,483 ORTHOIMAGERY TILES (THE STUDY AREA).  COSTS INCURRED FOR THE MONTH OF MARCH TOTAL \$7,557.32 PER ATTACHED EMAIL AND DOCUMENTATION RECEIVED FROM RANDY DILLARD OF NCDOT'S PHOTOGRAMMERY UNIT.	1 EA	7,557.32	7,557.32
<b>Total Amount Due</b>				<b>\$ 7,557.32</b>

Please return the attached copy of this invoice to ensure proper credit for your payment. Remittances should be made payable to N.C. Department of Transportation. According to State Cash Management G.S.25- 3-506, a \$35.00 fee may be imposed for a check on which payment has been refused.

**RECEIVED**  
By Ben Shelton at 11:24 am, Apr 24, 2020



STATE OF NORTH CAROLINA  
DEPARTMENT OF TRANSPORTATION

ROY COOPER  
GOVERNOR

J. ERIC BOYETTE  
SECRETARY

Invoice

**Bill To:**  
ITS-CGIA  
ATTN: TIM JOHNSON  
PO Box 17209  
RALEIGH NC 27609-7209

**Order Information**  
Customer Number: 67549  
Invoice Number: 90741031  
Purchase Order #: 006474-001\_8188\_000  
Purchase Order Date: 08/29/2019  
Sales Order Number: 662710  
Payment Terms: Net due 30 days  
Billing Date: 05/12/2020  
Due Date: 06/11/2020

**NC10546123**

**Remit To:**  
North Carolina Department of Transportation  
Fiscal Section - Accounts Receivable Unit  
1514 Mail Service Center  
Raleigh, North Carolina 27699-1514

**Contact Person:** Stephanie Benson  
**Phone:** (919)707-4208 Ext. 00  
**Fax:** (919)715-8718  
**Internet:** sbenson@ncdot.gov

Invoice Details

Item	Description	Quantity	Unit Price	Amount
0010	NC State Agency Participation Reim.  INTERAGENCY REIMBURSEMENT AGREEMENT EXECUTED ON 8/29/19 WITH THE NORTH CAROLINA DEPARTMENT OF INFORMATION TECHNOLOGY CENTER FOR GEOGRAPHIC INFORMATION AND ANALYSIS CONSISTING OF PROVIDING ORTHOIMAGERY ADVISORY AND TECHNICAL SERVICES FOR THE DIGITAL COASTAL ORTHOIMAGERY 2020 PROJECT IN 27 COUNTIES OF NORTH CAROLINA, TOTALING APPROXIMATELY 15,678 SQUARE MILES AND 17,483 ORTHOIMAGERY TILES (THE STUDY AREA).  COSTS INCURRED FOR THE MONTH OF APRIL 2020 TOTAL \$7,622.02 PER ATTACHED EMAIL AND DOCUMENTATION RECEIVED FROM RANDY DILLARD OF NCDOT'S PHOTOGRAMMERY UNIT.	1 EA	7,622.02	7,622.02
<b>Total Amount Due</b>				<b>\$ 7,622.02</b>

Please return the attached copy of this invoice to ensure proper credit for your payment. Remittances should be made payable to N.C. Department of Transportation. According to State Cash Management G.S.25- 3-506, a \$35.00 fee may be imposed for a check on which payment has been refused.

**RECEIVED**  
By Ben Shelton at 1:58 pm, May 12, 2020

# Invoice



North Carolina Geodetic Survey  
 4298 Mail Service Center  
 Raleigh, NC 27699-4298  
 919-733-3836

Date	Invoice #
4/1/2020	S-515

Bill To
NC ITS CGIA Attn: Tim Johnson 20322 Mail Service Center Raleigh, N.C. 27699-0322

P.O. No.	Terms	Project
NC10550604	Net 30	Coastal Image

Quantity	Description	Rate	Amount
	2020 Coastal Project		
5	Task 3.1 (plan horizontal quality control process) March 30 -31, 2020 WR	46.77	233.85
20	Task 2.2.1 (range maintenance) February 2 - 6, 2020 BD	46.77	935.40
8.5	Task 2.1.3 (add new CORS sites) February 4, 2020 RS	46.77	397.55
7	Task 2.1.3 (add new CORS sites) February 26, 2020 RS	46.77	327.39
2.5	Task 2.1.3 (add new CORS sites) March 4, 2020 RS	46.768	116.92
1	Task 2.1.3 (add new CORS sites) March 11, 2020 RS	46.77	46.77
18	Task 2.1.2 (CORS maintenance) February 25 - 27, 2020 WK	46.77	841.86
21	Task 2.1.2 (CORS maintenance) March 9 -10, 2020 WK	46.77	982.17
		<b>Total</b>	<b>\$3,881.91</b>

**RECEIVED**

By Ben Shelton at 11:14 am, Apr 24, 2020

**INVOICE**

Bill To
Center for Geographic Information and Analysis Attn: Tim Johnson 3700 Wake Forest Rd. Raleigh, NC 27609

Order Information	
Invoice Number	01
CGIA Contract Number	IMAGE20-07
Purchase Order Number	NC10562919
Invoice Amount	\$70,300.00
Invoice Date	03/10/2020
Performance Period	12/12/2019 – 2/29/2020

Remit To
Quantum Spatial Inc 75 Remittance Drive Dept 6868, Chicago, IL 60675-6868

Contact Information
Chase Thompson cthompson@quantumspatial.com 859-277-8700 859-277-8901 - Fax

Invoice Summary (per Primary Task)		
Task	Item Description	Amount
1	Flight Planning	\$18,762.50
2	Image Acquisition and Exploitation Image Post Processing	\$49,875.00
3	GPS-IMU Post Processing, AT and Ortho Generation	\$1,662.50

	Digitally signed by Tim Johnson Date: 2020.03.24 10:12:59 -04'00'
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**RECEIVED**  
By Ben Shelton at 9:47 am, Mar 24, 2020



**INVOICE**

Bill To
Center for Geographic Information and Analysis Attn: Tim Johnson 3700 Wake Forest Rd. Raleigh, NC 27609

Order Information	
Invoice Number	02
CGIA Contract Number	IMAGE20-07
Purchase Order Number	NC10562919
Invoice Amount	\$91,912.50
Invoice Date	04/30/2020
Performance Period	3/1/2020 – 4/30/2020

Remit To
Quantum Spatial Inc 75 Remittance Drive Dept 6868, Chicago, IL 60675-6868

Contact Information
Chase Thompson cthompson@quantumspatial.com 859-321-7777 859-277-8901 - Fax

Invoice Summary (per Primary Task)		
Task	Item Description	Amount
1	Flight Planning	\$15,437.50
2	Image Acquisition and Exploitation Image Post Processing	\$41,562.50
3	GPS-IMU Post Processing, AT and Ortho Generation	\$34,912.50

	Digitally signed by Tim Johnson Date: 2020.05.07 14:07:01 -04'00'
---	--

**RECEIVED**  
By Ben Shelton at 9:48 am, May 07, 2020



## INVOICE

Bill To
<b>Center for Geographic Information and Analysis</b> Attn: Tim Johnson, GISP 3700 Wake Forest Rd. Raleigh, NC 27609

Remit To
<b>Spatial Data Consultants, Inc.</b> 1008 Hutton Lane, Suite 109 High Point, NC 27262

Order Information	
Invoice Number	CO20-03
CGIA Contract Number	IMAGE20-06
Purchase Order Number	NC10562921
Invoice Amount	\$180,663.40
Invoice Date	03/03/20
Performance Period	02/01/20 through 02/29/20

Contact Information
Susan L. Schall, President, CEO sschall@spatialdc.com (336) 841-1247 (office) (336) 906-3261 (cell) (336) 841-1248 (fax)

Invoice Summary (per Primary Task)		
Task	Item Description	Amount
1	Flight Planning	\$6,460.00
2	Acquisition	\$157,510.00
3	Aeorotriangulation and Ortho Generation	\$16,693.40
	<b>Invoice Total</b>	<b>\$180,663.40</b>

**APPROVED**



Digitally signed  
by Tim Johnson  
Date:  
2020.03.17  
17:36:40 -04'00'

**RECEIVED**

By Ben Shelton at 9:15 am, Mar 06, 2020



1008 Hutton Lane, Suite 109  
 High Point, NC 27262  
 Phone: (336) 841-1247  
 Fax: (336) 841-1248  
[www.spatialdc.com](http://www.spatialdc.com)

# INVOICE

Bill To
<b>Center for Geographic Information and Analysis</b> Attn: Tim Johnson, GISP 3700 Wake Forest Rd. Raleigh, NC 27609

Remit To
<b>Spatial Data Consultants, Inc.</b> 1008 Hutton Lane, Suite 109 High Point, NC 27262

Order Information	
Invoice Number	CO20-04
CGIA Contract Number	IMAGE20-06
Purchase Order Number	NC10562921
Invoice Amount	\$89,961.20
Invoice Date	04/02/20
Performance Period	03/01/20 through 03/31/20

Contact Information
Susan L. Schall, President, CEO sschall@spatialdc.com (336) 841-1247 (office) (336) 906-3261 (cell) (336) 841-1248 (fax)

Invoice Summary (per Primary Task)		
Task	Item Description	Amount
2	Acquisition	\$25,118.00
3	Aeorotriangulation and Ortho Generation	\$64,843.20
	<b>Invoice Total</b>	<b>\$89,961.20</b>

**RECEIVED**  
 By Ben Shelton at 11:36 am, Apr 24, 2020



1008 Hutton Lane, Suite 109  
 High Point, NC 27262  
 Phone: (336) 841-1247  
 Fax: (336) 841-1248  
[www.spatialdc.com](http://www.spatialdc.com)

# INVOICE

Bill To
<b>Center for Geographic Information and Analysis</b> Attn: Tim Johnson, GISP 3700 Wake Forest Rd. Raleigh, NC 27609

Remit To
<b>Spatial Data Consultants, Inc.</b> 1008 Hutton Lane, Suite 109 High Point, NC 27262

Order Information	
Invoice Number	CO20-05
CGIA Contract Number	IMAGE20-06
Purchase Order Number	NC10562921
Invoice Amount	\$53,570.50
Invoice Date	05/04/20
Performance Period	04/01/20 through 04/30/20

Contact Information
Susan L. Schall, President, CEO sschall@spatialdc.com (336) 841-1247 (office) (336) 906-3261 (cell) (336) 841-1248 (fax)

Invoice Summary (per Primary Task)		
Task	Item Description	Amount
2	Acquisition	\$4,284.50
3	Aeorotriangulation and Ortho Generation	\$49,286.00
	<b>Invoice Total</b>	<b>\$53,570.50</b>

**APPROVED**



Digitally signed by Tim Johnson  
 Date: 2020.05.07 14:38:33 -04'00'

**RECEIVED**  
 By Ben Shelton at 9:47 am, May 07, 2020



# INVOICE

## Bill To

Center for Geographic  
Information and Analysis  
Attn: Tim Johnson  
3700 Wake Forest Rd.  
Raleigh, NC 27609

## Order Information

Invoice Number	4786
CGIA Contract Number	IMAGE20-03
Purchase Order Number	NC10562920
Invoice Amount	\$162,286.60
Invoice Date	March 3, 2020
Performance Period	January 31, 2020 -February 29, 2020

## Remit To

Surdex Corporation  
Accounts Receivable  
520 Spirit of St. Louis Blvd.  
Chesterfield, MO 63005

## Contact Information

Harold Feldman  
Haroldf@surdex.com  
636-368-4400  
636-368-4401

## Invoice Summary (per Primary Task)

Task	Item Description	Amount
1	Flight Planning	4,993.20
2	Acquisition	157,293.40
	<b>Total</b>	<b>\$ 162,286.60</b>

**APPROVED**



Digitally signed  
by Tim Johnson  
Date:  
2020.03.18  
12:19:07 -04'00'

**RECEIVED**

By Ben Shelton at 9:31 am, Mar 06, 2020



# INVOICE

<b>Bill To</b>
Center for Geographic Information and Analysis Attn: Tim Johnson 3700 Wake Forest Rd. Raleigh, NC 27609

<b>Order Information</b>	
Invoice Number	4834
CGIA Contract Number	IMAGE20-03
Purchase Order Number	NC10562920
Invoice Amount	\$152,303.05
Invoice Date	April 6, 2020
Performance Period	March 1, 2020 -April 31, 2020

<b>Remit To</b>
Surdex Corporation Accounts Receivable 520 Spirit of St. Louis Blvd. Chesterfield, MO 63005

<b>Contact Information</b>
Harold Feldman Haroldf@surdex.com 636-368-4400 636-368-4401

Invoice Summary (per Primary Task)		
Task	Item Description	Amount
1	Attachment C-1	554.80
2	Acquisition	76,214.70
3	AT and Ortho Generation	75,533.55
	<b>Total</b>	<b>\$ 152,303.05</b>

**RECEIVED**  
By Ben Shelton at 11:39 am, Apr 24, 2020



# INVOICE

Bill To
Center for Geographic Information and Analysis Attn: Tim Johnson 3700 Wake Forest Rd. Raleigh, NC 27609

Order Information	
Invoice Number	4870
CGIA Contract Number	IMAGE20-03
Purchase Order Number	NC10562920
Invoice Amount	\$95,330.69
Invoice Date	May 1, 2020
Performance Period	April 1, 2020 -April 30, 2020

Remit To
Surdex Corporation Accounts Receivable 520 Spirit of St. Louis Blvd. Chesterfield, MO 63005

Contact Information
Harold Feldman Haroldf@surdex.com 636-368-4400 636-368-4401

Invoice Summary (per Primary Task)		
Task	Item Description	Amount
2	Acquisition	9064.90
3	AT and Ortho Generation	86,265.79
	<b>Total</b>	<b>\$95,330.69</b>

**APPROVED**

Digitally signed  
by Tim Johnson  
Date:  
2020.05.07  
14:53:59 -04'00'

**RECEIVED**  
By Ben Shelton at 9:47 am, May 07, 2020



Sanborn | Charlotte  
 6701 Carmel Road  
 Suite 301  
 Charlotte, NC 28226

Phone: 704.347.4552  
 Toll-Free: 1.866.726.2676  
 Fax: 704.347.4515  
 www.sanborn.com

## INVOICE

<b>Bill To</b>
41PT ITS ACCOUNTS PAYABLE PO BOX 17209 Raleigh, NC 27619-7209 United States Phone: 1919-754-6314 Department of Information Technology

<b>Order Information</b>	
Invoice Number	COS00006595
CGIA Contract Number	IMAGE20-05
Purchase Order Number	NC10562915
Invoice Amount	\$46,909.04
Invoice Date	February 11, 2020
Performance Period	Dec 12, 2019 through Feb 11, 2020

<b>Remit To</b>
Sanborn Map Company, Inc. Accounts Receivable 1935 Jamboree Dr., Ste 100 Colorado Springs, CO 80920

<b>Contact Information</b>
Maralyn Kuentler mkuentler@sanborn.com Phone: (719) 264.5564 Fax: (719) 623.0074

Invoice Summary (per Primary Task)		
Task	Item Description	Amount
1	Flight Planning	\$ 46,909.04
	<b>Total</b>	<b>\$ 46,909.04</b>

**RECEIVED**  
 By Ben Shelton at 10:15 am, Mar 24, 2020

**APPROVED**

Digitally signed  
 by Tim Johnson  
 Date:  
 2020.03.24  
 10:17:20 -04'00'



Sanborn | Charlotte  
6701 Carmel Road  
Suite 301  
Charlotte, NC 28226

Phone: 704.347.4552  
Toll-Free: 1.866.726.2676  
Fax: 704.347.4515  
www.sanborn.com

## INVOICE

Bill To
41PT ITS ACCOUNTS PAYABLE PO BOX 17209 Raleigh, NC 27619-7209 United States Phone: 1919-754-6314 Department of Information Technology

Order Information	
Invoice Number	COS00006621
CGIA Contract Number	IMAGE20-05
Purchase Order Number	NC10562915
Invoice Amount	\$80,487.33
Invoice Date	March 4, 2020
Performance Period	Feb 12, 2020 through Feb 29, 2020

Remit To
Sanborn Map Company, Inc. Accounts Receivable 1935 Jamboree Dr., Ste 100 Colorado Springs, CO 80920

Contact Information
Maralyn Kuentler mkuentler@sanborn.com Phone: (719) 264.5564 Fax: (719) 623.0074

Invoice Summary (per Primary Task)		
Task	Item Description	Amount
1	Flight Planning	\$1,739.46
2	Acquisition	\$78,747.87
	<b>Total</b>	<b>\$ 80,487.33</b>

**RECEIVED**  
By Ben Shelton at 9:13 am, Mar 06, 2020

**APPROVED**

Digitally signed by Tim Johnson  
Date: 2020.03.18 11:45:24 -04'00'



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 6701 Carmel Road  
 Suite 301  
 Charlotte, NC 28226

Phone: 704.347.4552  
 Toll-Free: 1.866.726.2676  
 Fax: 704.347.4515  
 www.sanborn.com

## INVOICE

<b>Bill To</b>
41PT ITS ACCOUNTS PAYABLE PO BOX 17209 Raleigh, NC 27619-7209 United States Phone: 1919-754-6314 Department of Information Technology

<b>Order Information</b>	
Invoice Number	COS00006758
CGIA Contract Number	IMAGE20-05
Purchase Order Number	NC10562915
Invoice Amount	\$56,658.57
Invoice Date	April 10, 2020
Performance Period	March 1, 2020 through March 31, 2020

<b>Remit To</b>
Sanborn Map Company, Inc. Accounts Receivable 1935 Jamboree Dr., Ste 100 Colorado Springs, CO 80920

<b>Contact Information</b>
Maralyn Kuentler mkuentler@sanborn.com Phone: (719) 264.5564 Fax: (719) 623.0074

Invoice Summary (per Primary Task)		
Task	Item Description	Amount
2	Acquisition	\$52,062.85
3	Aerotriangulation and Ortho Generation	\$4,595.72
	<b>Total</b>	<b>\$56,658.57</b>

**RECEIVED**  
 By Ben Shelton at 11:34 am, Apr 24, 2020



Sanborn | Charlotte  
 6701 Carmel Road  
 Suite 301  
 Charlotte, NC 28226

Phone: 704.347.4552  
 Toll-Free: 1.866.726.2676  
 Fax: 704.347.4515  
 www.sanborn.com

## INVOICE

<b>Bill To</b>
41PT ITS ACCOUNTS PAYABLE PO BOX 17209 Raleigh, NC 27619-7209 United States Phone: 1919-754-6314 Department of Information Technology

<b>Order Information</b>	
Invoice Number	COS00006801
CGIA Contract Number	IMAGE20-05
Purchase Order Number	NC10562915
Invoice Amount	\$84,648.45
Invoice Date	May 1, 2020
Performance Period	April 1, 2020 through April 30, 2020

<b>Remit To</b>
Sanborn Map Company, Inc. Accounts Receivable 1935 Jamboree Dr., Ste 100 Colorado Springs, CO 80920

<b>Contact Information</b>
Maralyn Kuentler mkuentler@sanborn.com Phone: (719) 264.5564 Fax: (719) 623.0074

Invoice Summary (per Primary Task)		
Task	Item Description	Amount
1	Flight Planning	\$579.82
2	Acquisition	\$5,545.62
3	Aerotriangulation and Ortho Generation	\$78,523.01
	<b>Total</b>	<b>\$84,648.45</b>

**RECEIVED**  
 By Ben Shelton at 9:48 am, May 07, 2020

**APPROVED**

Digitally signed  
 by Tim Johnson  
 Date:  
 2020.05.07  
 14:21:40 -04'00'

# ***Tab 5***

## **Executive Director Report**

### **Pokey Harris**

***Tab 5 a)***  
**Appointment of Acting Secretary and State  
CIO, Thomas Parrish**

***Tab 5 b)***  
**911 Board Appointments Status**

***Tab 5 c)***  
**COVID-19 Update**

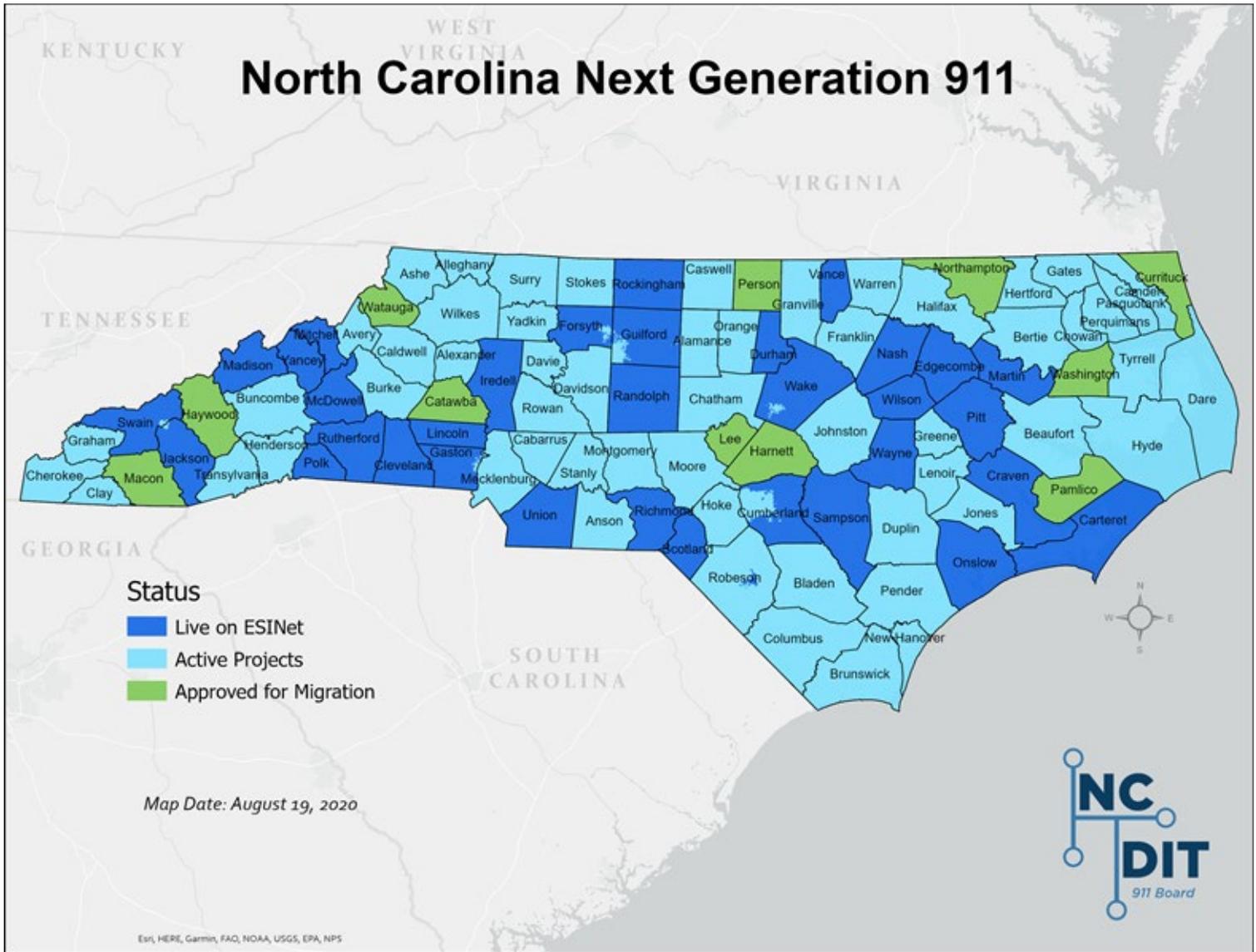
***Tab 5 d)***  
**Hurricane Isaias Update**

***Tab 5 e)***  
**Staffing Update**

***Tab 5 f)***  
**Upcoming Board Meetings Logistics**

# Tab 5 g)

## NextGen 911 Migration Status



### NC NG911 Migration Status

# **ESInet Migrations**

## **May 20 – August 12, 2020**

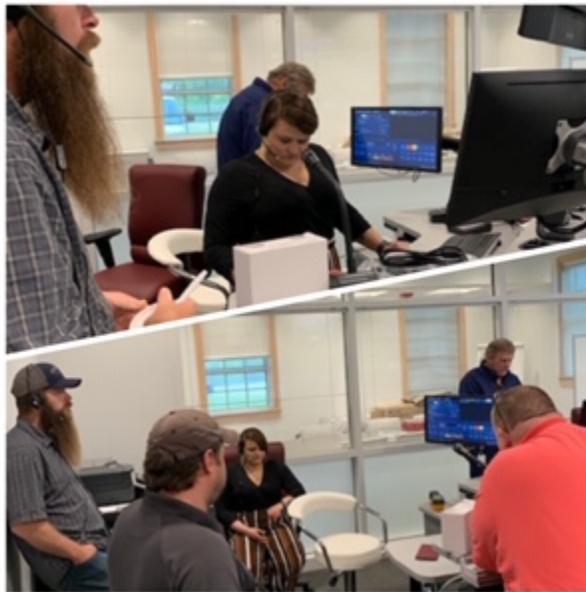
**The NC 911 Board closed out FY 2020 with 37 PSAPs on the statewide ESInet and brought in FY 2021 by adding eight PSAPs to the NC 911 managed service AT&T network through August 12, 2020. This brings the total PSAPs that have migrated to 45 (73 physical locations including backup facilities), with 38 of those also now a part of the hosted call handling solution.**

**Please join me in congratulating the following PSAPs on their migrations:**

# Mitchell County 911 (Western Region) ESInet Migration May 20, 2020

Mitchell County 911 cutover to the NC 911 managed service ESInet and hosted Viper call handling solution at 1038 hours EST, receiving the first live call at 1507 hours, on May 20, 2020. They are PSAP 37, with a total of 60 physical locations including their backup facilities.

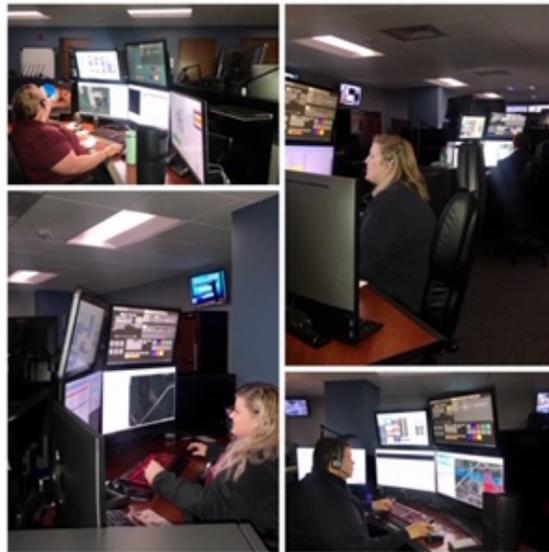
The migration presented some challenges for the entire project team; however, Stephanie Wiseman, communications manager for Mitchell County Central Communications stated, “Today has been exhausting, rewarding, and an answer to a long line of prayers. So very thankful for everyone that made possible a brand new 911 facility for us to serve our citizens from.”



Congrats to “Wiseman” as we now call her, and to her staff on not only their migration, but the move to their new PSAP.

# Union County 911 (South Central Region) ESInet Migration July 8, 2020

We kicked off the new fiscal year with Union County 911 successfully migrating to the statewide ESInet and Viper hosted call handling platform on July 8, 2020, at 1057 hours EST, bringing the number of PSAPs to 38, and 62 physical locations.



Vicki Callicutt, communications director for Union County 911, shared her thoughts saying, “We were extremely proud of the transition to ESInet last week and throughout the transition I tried to put some thoughts on paper. Based on an increase in technology it has become increasingly evident that 911 as we have known it is now obsolete. Our callers have simply outgrown it. We live in an environment where geo-locations are becoming second nature. I am proud to participate in the upgrade to ESInet and extend our gratitude to the NC 911 Board for its vision of 911 for the residents of Union County and North Carolina as a whole.”

Kudos Union County 911!!!

# McDowell County 911 (Western Region) ESInet Migration July 8, 2020

July 8, 2020 was a “two-for” with McDowell County 911 also cutting live to the NC 911 ESInet, as the first Vesta hosted call handling solution deployed i3. They received their first call at 1129 hours EST.



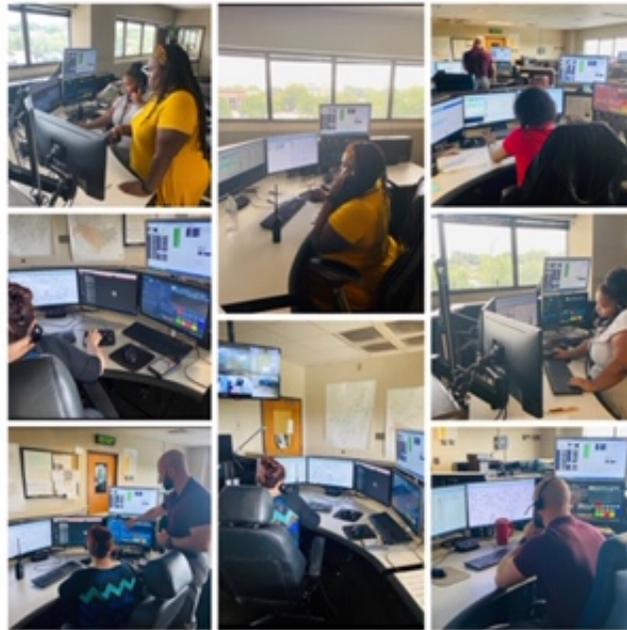
Bringing the total to 39 PSAPS (64 physical locations), Amberlie Buff, McDowell County’s 911 Manager said, “Our process was LONG but is now coming together so wonderfully! Our team has been amazing. I do not want to leave anyone out but THANK YOU TO Karen, Lannie, Josh, Ed, Tullie, Danny, Matt, Regina and Stephanie. I cannot say enough about how well they handled everything and how they worked with us and made everything fit. Our training went well and we loved having Matt and Scott with us! I want to say THANK YOU most of all to Lannie who has worked so hard and long to get this system right. Our go live date was so smooth and the onsite team was absolutely amazing! Lannie and Danny made this process seamless. I was hoping it would go well but was prepared for plenty of bumps. We honestly did not have much of a bump at all! Our few issues came before, and Lannie and Karen worked SO hard to ensure this would not happen the day of the cut. Again, thank you all!”

Kudos to Amberlie and folks out west in McDowell. Even behind those masks we can see their “NG911 smiles.”

# Rocky Mount 911 (North Central Region) ESInet Migration July 15, 2020

On July 15, 2020, at 1103 hours EST, Rocky Mount 911 took their first live 911 call on the Viper hosted call handling solution across the NC 911 managed service ESInet. Their PSAP became number 40, bringing the overall total of facilities on the ESInet to 65.

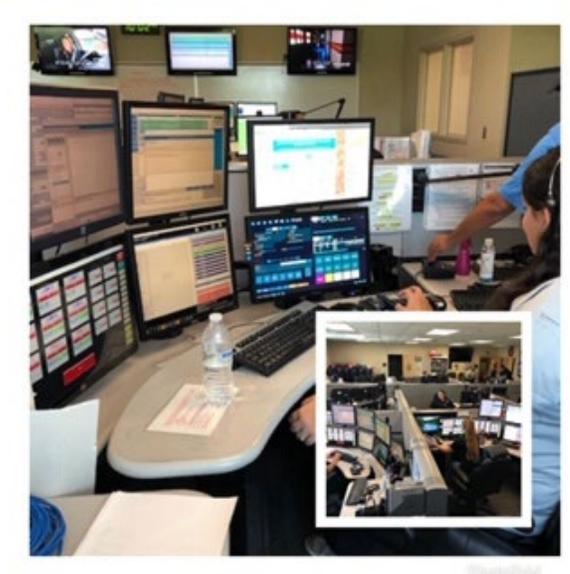
Comments about the cut are forthcoming from Allen Moore, communications supervisor for Rocky Mount 911. However, he did send pictures saying, “photos below showing off the new phone system being used by staff.”



Looks like the staff is doing a great job! Congrats for being PSAP #40.

# Carteret County 911 (Eastern Region) ESInet Migration July 16, 2020

Carteret County 911 became the 41<sup>st</sup> PSAP to migrate to the NC 911 ESInet on July 16, 2020. The PSAP took the first live 911 call as i3 on their Viper hosted call handling solution at 0904 hours EST. This brought the total number of physical locations to 67, which includes backup facilities.



“Carteret County is thrilled to join the ranks of the other North Carolina PSAPs that have made the move to the state provided ESInet solution. With the heart of hurricane season fast approaching, we feel more secure knowing that we can easily transition our 911 lines to another PSAP for assistance if the situation warrants,” said Brandy Osborne, ENP, communications director.

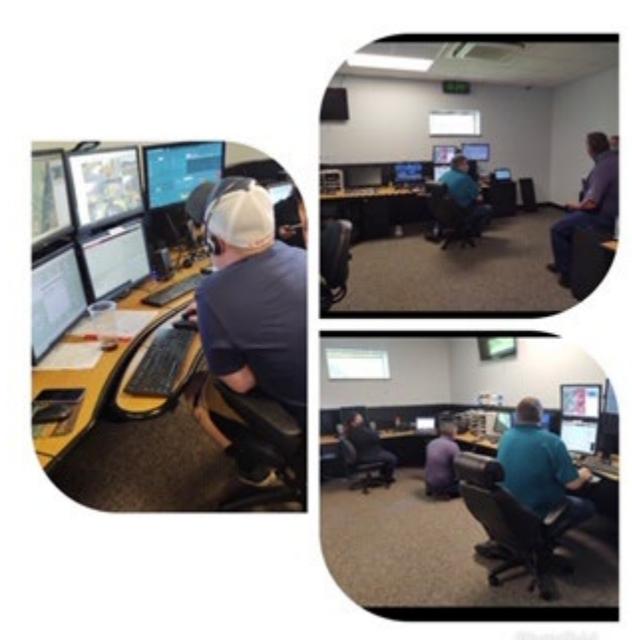
Hats off to Brandy and crew in Carteret. Let us hope they do not have to activate their re-route abilities anytime soon! But if they do, that is exactly what the statewide ESInet can provide. Continuity!

# Swain County 911 (Western Region) ESInet Migration July 22, 2020

Swain County 911 successfully cutover to the NC 911 managed service ESInet, on the Viper platform hosted call handling solution as i3 on July 22, 2020, at 1123 hours EST.

Misty Tabor, assistant 911 director, commented, “The process of our switch over was seamless. The Intrado and AT&T team we worked with were great.”

Here are some pictures of that seamless cut, bringing the number of PSAPs to 42 with a total of 68 physical locations.

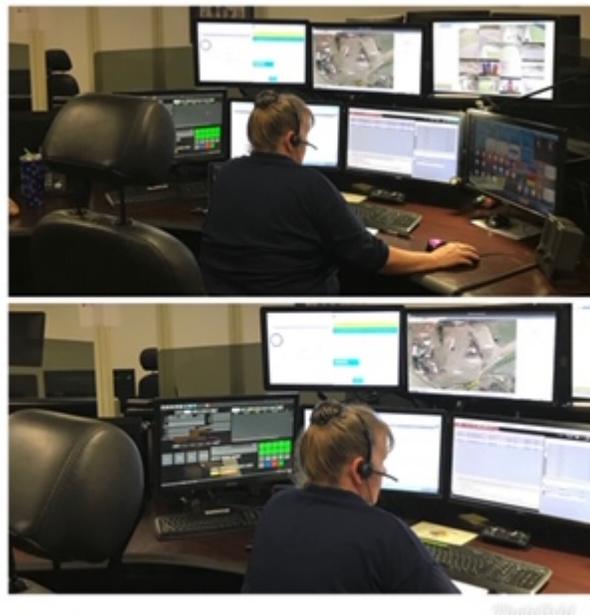


Congrats to Misty and all the crew at Swain County!!!

# Jackson County 911 (Western Region) ESInet Migration July 22, 2020

Wanda Hall, 911 director for Jackson County said, “There was a lot of preparation that went into the ESInet cutover. We had a house full of people on the day of the cutover all wearing masks. We did a lot of testing that day and we had a few minor problems, but nothing serious. Overall, it turned out well.”

As such, Jackson County 911 migrated to the NC 911 statewide ESInet as a Viper hosted call handling i3 user on July 22, 2020, taking their first live call at 1430 hours EST.



Jackson County’s migration brings the total number of PSAPs live on ESInet to 43, and 69 physical PSAP including backup facilities. Way to go Wanda and team! Kudos!

# **Randolph County 911 (South Central Region) ESInet Migration August 3, 2020**

Randolph County 911 successfully cutover to the ESInet i3 today, August 3, 2020, at 1101 hours EST, taking the first live 911 call at 1102 hours EST. This was migration 44, with 71 physical locations now on the network.

Shout out to Keena Heaton, 911 communications supervisor, and the team at Randolph County 911 on their journey to NextGen 911!

*Pictures and quote not available at time of publication.*

# **Jacksonville 911 (Eastern Region) ESInet Migration August 12 (13), 2020**

After a long night of troubleshooting an abandoned 911 call list issue at the Jacksonville 911, the team resolved the matter with the PSAP cutting over to the NC 911 managed service ESInet and Vesta hosted call handling solution taking the first live call at 1028 hours, August 13, 2020.

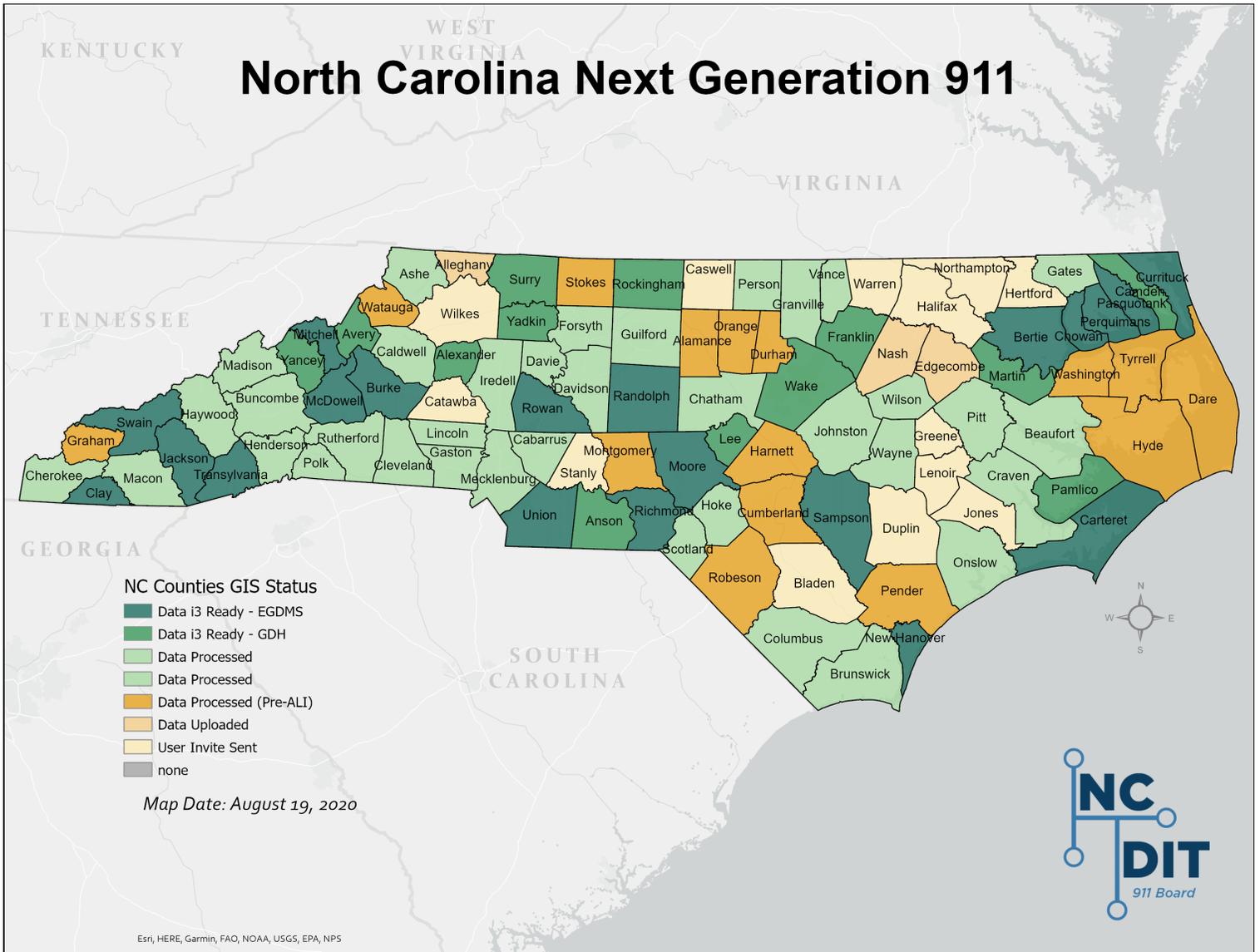
This migration brought the total number live on the ESInet to 45 PSAPs and 73 physical locations including backup facilities.

Congratulations to Chief Mike Yaniero and the entire staff at Jacksonville 911!

*Pictures and quote not available at time of publication.*

# Tab 5 h)

## NextGen 911 GIS Status



## NC NG911 GIS Status

***Tab 6***

**Education Committee Report**

**Chuck Greene/Angie Turbeville**

***Tab 6 a)***

**Training Eligibility**

**Requests/Update Eligible Use of**

**Funds List**

***(Roll Call Vote Required)***

***Tab 6 a i)***

**Rockingham County: Emergency  
Medical Dispatch Con ED by  
Josh Holloman**

**(Roll Call Vote Required)**

# Advanced Emergency Medical Dispatch (EMD) Continuing Dispatch Education

## Objectives and Outline

### Course Goals:

1. Demonstrate and provide updated content regarding the correct use of the Medical Priority Dispatch System (MPDS)
2. Discuss critical principles of EMD protocols including medical, time-life and trauma
3. Discuss critical principles of Post-Dispatch Instructions and Pre-Arrival Instructions
4. Provide information and hours necessary to maintain proficiency with EMD certification

### Introduction (1/2 hour)

#### Overview:

The purpose of this chapter is to explain the contents and order of the course and how the course is conducted. The goal of the course, and the instructional materials used in the course are presented.

#### Objectives:

1. Explain the goal of the EMD Continuing Education Course
2. Explain the contents and order of the course and how the course is conducted.

#### Contents:

- Course housekeeping issues
- Course materials
- Course schedule

#### Instructional Techniques:

- Lecture

### Lesson 1: An Introduction to Emergency Medical Dispatch (1 hour)

#### Overview:

This lesson reminds the EMD about the roles and responsibilities of a dispatcher. It also briefly discusses the evolution, objectives, and benefits of the Medical Priority Dispatch System (MPDS). In addition, we discuss the foundations of dispatch and best practices.

#### Objectives:

1. Explain the EMD's role in the patient care chain of survival.
2. Explain the roles and responsibilities of an EMD.
3. Identify four call processing objectives.
4. Identify five benefits of structured calltaking and protocol use.

#### Contents:

- The patient care chain of survival
- The Emergency Medical Dispatcher (EMD)
- Call Processing Objectives
- Benefits of Structured Calltaking and Protocol Use

#### Instructional Techniques:

- Lecture
- Group discussion

## Lesson 2: Medical Conditions (2½ hours)

### Overview:

This lesson of the course discusses eight Chief Complaint Protocols classified as Medical Conditions Protocols. It covers in detail the determinant classifications, dispatch definitions, rules, axioms, laws and problem lists associated with each Medical Conditions Protocol. The correct selection and delivery of Key Questions and the correct selection of dispatch codes based on the caller's answers to the Key Questions is discussed. The appropriate selection and delivery of Post-Dispatch Instructions is also discussed. Finally, the correct selection of Case Exit and/or Pre-Arrival Instructions as they relate to the Medical Conditions Protocols is discussed.

Students break into small groups for scenario drill and practice. Scenario drills afford the opportunity to practice using the MPDS in a structured manner.

### Objectives

1. Deliver the Case Entry Questions appropriately.
2. Select the correct Chief Complaint Protocol.
3. Formulate the correct Determinant Code.
4. Select and deliver Post-Dispatch Instructions when possible and appropriate.
5. Select and correctly follow the Dispatch Life Support Links.
6. Provide Case Exit Instructions and/or Pre-Arrival Instructions when possible and appropriate.

### Contents:

- Discussion of the Medical Conditions Chief Complaint Protocols
- Discussion of Medical Conditions Chief Complaint Protocols and the contents of the Additional Information for each of the following:

Abdominal Pain/Problems	Heart Problems/A.I.C.D.
Back Pain (Non-Traumatic or Non-Recent Trauma)	Stroke (CVA)/Transient Ischemic Attack (TIA)
Sick Person (Specific Diagnosis)	Headache
Chest Pain/Chest Discomfort (Non-Traumatic)	Convulsions/Seizures
Aspirin Diagnostic & Instruction Tool	
- Medical Conditions Scenario Practice

### Instructional Techniques:

- Lecture
- Instructor-led scenario practice
- Peer-to-peer scenario practice

## Lesson 3: Dispatch Life Support (½ hour)

### Chapter Overview

Dispatch Life Support (DLS) is a unique form of medical practice that considers the unique challenges associated with providing critical instructions over the telephone. This chapter briefly describes the functional differences between DLS and medical field practice.

### Objectives

1. Discuss Dispatch Life Support (DLS) and explain how DLS differs from medical field practice.
2. Explain the importance of protocol compliance when providing DLS instructions.
3. Explain why DLS instructions sometimes differ from Basic Life Support (BLS) and Advanced Life Support (ALS) techniques.
4. Explain the concept of panel logic and describe the components of the MPDS Pre-Arrival Instruction (PAI) protocol panels.

### Contents:

- Dispatch Life Support (DLS)
- Patient Assessment
- Teaching Medical Skills
- Different Environment, Different Instructions
  - Head-Tilt vs. Jaw-Thrust, Heimlich Maneuver vs. Back Blows, Compressions-Only vs. Compressions 1<sup>st</sup> CPR

- Pre-Arrival Instructions Panel Logic

### **Instructional Techniques:**

- Lecture
- Group discussion

## **Lesson 4: Time-Life Priority Incidents (2½ hours)**

### **Overview:**

This lesson of the course discusses seven Chief Complaint Protocols classified as Time-Life Priority Protocols. It covers in detail the determinant classifications, dispatch definitions, rules, axioms, laws and problem lists associated with each Time-Life Priority Protocol. The correct selection and delivery of Key Questions and the correct selection of dispatch codes based on the caller's answers to the Key Questions is discussed. The appropriate selection and delivery of Post-Dispatch Instructions is also discussed. Finally, the correct selection of Case Exit and/or Pre-Arrival Instructions as they relate to the Time-Life Priority Protocols is discussed.

Students break into small groups for scenario drill and practice. Scenario drills afford the opportunity to practice using the MPDS in a structured manner.

### **Objectives**

1. Deliver the Case Entry Questions appropriately.
2. Select the correct Chief Complaint Protocol.
3. Formulate the correct Determinant Code.
4. Select and deliver Post-Dispatch Instructions when possible and appropriate.
5. Select and correctly follow the Dispatch Life Support Links.
6. Provide Case Exit Instructions and/or Pre-Arrival Instructions when possible and appropriate.

### **Contents:**

- Discussion of the Time-Life Priority Chief Complaint Protocols
- Discussion of the Time-Life Priority Chief Complaint Protocols and the contents of the Additional Information for each of the following:
 

Choking	Unconscious/Fainting (Near)
Breathing Problems	Pregnancy/Childbirth/Miscarriage
Allergies (Reactions)/Envenomations (Stings, Bites)	Drowning/Near Drowning/Diving/Scuba Accident
Cardiac or Respiratory Arrest/Death	
- Discussion of the Pre-Arrival Instruction Protocols
  - Protocol C– Airway/Arrest/Choking (Unconscious) – Adult ≥ 8 Years
  - Protocol D–Choking (Conscious) – Adult/Child/Infant
  - Protocol F–Childbirth–Delivery
  - Protocol K–Person in Water
  - Protocol P–Epinephrine (Adrenaline) Auto-Injector Instructions
  - Protocol Z–AED (Automated External Defibrillators)
- Time-Life Priority Incidents Scenario Practice

### **Instructional Techniques:**

- Lecture
- Instructor-led scenario practice
- Peer-to-peer scenario practice

## **Lesson 5: Trauma Protocols (1 hour)**

### **Overview:**

This lesson of the course discusses nine Chief Complaint Protocols classified as Trauma Protocols. It covers in detail the determinant classifications, dispatch definitions, rules, axioms, laws and problem lists associated with each Trauma Protocol. The correct selection and delivery of Key Questions and the correct selection of dispatch codes based on the caller's answers to the

Key Questions is discussed. The appropriate selection and delivery of Post-Dispatch Instructions is also discussed. Finally, the correct selection of Case Exit and/or Pre-Arrival Instructions as they relate to the Trauma Protocols is discussed.

Students break into small groups for scenario drill and practice. Scenario drills afford the opportunity to practice using the MPDS in a structured manner.

### **Objectives**

1. Deliver the Case Entry Questions appropriately.
2. Select the correct Chief Complaint Protocol.
3. Formulate the correct Determinant Code.
4. Select and deliver Post-Dispatch Instructions when possible and appropriate.
5. Select and correctly follow the Dispatch Life Support Links.
6. Provide Case Exit Instructions and/or Pre-Arrival Instructions when possible and appropriate.

### **Contents:**

- Discussion of the Trauma Chief Complaint Protocols
- Discussion of the Trauma Chief Complaint Protocols and the contents of the Additional Information for each of the following:
  - Traumatic Injuries (Specific)
    - Falls
    - Assault/Sexual Assault/Stun Gun
    - Stab/Gunshot/Penetrating Trauma
    - Animal Bites/Attacks
  - Hemorrhage/lacerations
  - Burns (Scalds)/Explosion (Blast)
  - Inaccessible Incident/Other Entrapments (Non-Traffic)
  - Traffic/Transportation Incidents
- Discussion of the SEND Protocol
- Discussion of Protocol L: Vehicle in Water
- Trauma Protocols Scenario Practice

### **Instructional Techniques:**

- Lecture
- Instructor-led scenario practice
- Peer-to-peer scenario practice

***Tab 6 a ii)***

**Carteret County: Emergency Fire  
Dispatch Con ED by Brett  
Renfrow**

***(Roll Call Vote Required)***

# Emergency Fire Dispatch

## 1 Day Continuing Education Training Syllabus

### Course Description:

Assist agencies in the required 12 hours per year of required Continuing Education for EFD. Review the structure and function of protocol components. Discuss all current Chief Complaints protocols. Review all aspects including functional use, pathways, and methodology of the EFD Protocol.

## Objectives

- I. Review any new EFD Protocol updates or Version changes since any prior classes. (.5 hour)
- II. Challenge the Instructor Questions. (.5 hour)
  - a. Obtain a list of challenges each shift is having with current version of protocol and review as a group.
- III. Review Structure and Function of the Protocol. (2 hours)
  - a. Review Case Entry Questions and Case Entry AI Cards and the importance of proper call taking procedures and listening skills.
  - b. Review Echo Responses and why/how they are immediately dispatched at Case Entry.
  - c. Discuss current rules for Chief Complaint selection methodology.
  - d. Review Pre-Arrival Instruction protocols
    - i. A-Card Water Rescue
    - ii. B- Card Building Evacuation And Health/Life Safety
    - iii. C- Card Back Country Hazards
    - iv. D- Card USAR/Vehicle And Other Hazards
    - v. E- Card Chemical Suicide
    - vi. F- Card Tunnel Fire
    - vii. G- Card Wildland Fire Hazards
  - e. Review Case Exit Protocol
    - i. Routine Disconnect
    - ii. Stay On The Line
    - iii. Urgent Disconnect
    - iv. Control Bleeding
    - v. Burn Treatment
- IV. Review Fire Incident Chief Complaint Protocols. (1 hour)
  - a. 68- Smoke Investigation (Outside)
  - b. 52- Fire Alarms
  - c. 63- Lightning Strike (Investigation)
  - d. 67- Outside Fire
  - e. 82- Vegetation/Wildland/Brush/Grass Fire
  - f. 71- Vehicle Fire
  - g. 64- Marine/Boat Fire
  - h. Review Key Questions, Post-Dispatch Instructions, Determinant Codes

- V. Review Major Incident Chief Complaint Protocols. (1.5 hours)
  - a. 51- Aircraft Emergency
  - b. 59- Fuel Spill/Odor
  - c. 61- HAZMAT
  - d. 70- Train and Rail Collision/Derailment
  - e. 69- Structure Fire
  - f. 75- Train and Rail Fire
  - g. 57- Explosion
  - h. 80- Outside Tank Fire
  - i. 83- Weather/Disaster Situations
  - j. Review Key Questions, Post-Dispatch Instructions, Determinant Codes
  
- VI. Review Rescue Incident Chief Complaint Protocols. (1.5 hours)
  - a. 56- Elevator/Escalator Incident
  - b. 58- Extrication/Entrapment
  - c. 62- High Angle Rescue
  - d. 54- Confined Space/Structure Collapse
  - e. 72- Water/Ice/Mud Rescue
  - f. 81- Sinking Vehicle/Vehicle in Floodwater
  - g. 73- Watercraft in Distress/Collision
  - h. 77- Motor Vehicle Collision
  - i. 78- Back Country Rescue
  - j. Review Key Questions, Post-Dispatch Instructions, Determinant Codes
  
- VII. Review Support Incident Chief Complaint Protocols. (1 hour)
  - a. 66- Odor (Strange/Unknown)
  - b. 60- Gas Leak/Gas Odor (Natural and LP Gases)
  - c. 55- Electrical Hazard
  - d. 53- Service Call
  - e. 65- Mutual Aid/Assist Outside Agency
  - f. 74- Suspicious Package ( Letter, Item, Substance/Explosives)
  - g. 76- Bomb Threat
  - h. 79 Lost Person
  - i. Review Key Questions, Post-Dispatch Instructions, Determinant Codes
  
- VIII. Time Permitting closing questions or remarks.

Brett Renfrow, ENP

Master EFD Instructor, IAED

[brenfrow4911@gmail.com](mailto:brenfrow4911@gmail.com)

Cell: 919-291-4481

***Tab 6 a iii)***

**Burke County: Fundamentals of  
Supervision by UNC School of  
Government**

***(Roll Call Vote Required)***

# Fundamentals of Supervision

## Day 1: Role of Government and Role of Supervisor

### Objectives:

- Orient participants and set expectations for Fundamentals of Supervision course.
- Define and clarify the role of government and the expectations of being a supervisor in the public sector.
- Examine the skills needed to establish trust and credibility as a supervisor
- Identify the skills needed to be a more agile learner
- Clarify skills and attitude needed to move from buddy to boss
- Begin the creation of a learning development plan to be used throughout the course.

## Day 2: Introduction to True TILT model and Motivation

### Objectives:

- Introduction to the True TILT model to help increase self-awareness and understanding of your preferred character strengths, how these differ from personality traits and how these show up in your interactions with others.
- Identify situations in which you might over/under use these character traits and identify the impact on you and others
- Identify ways that you can improve your effectiveness by stretching to other character traits you may be underusing or neglecting
- Provide a framework and language to help you have productive and meaningful conversations with your direct reports and your manager
- Identify what motivates you and your direct reports and how to create a climate where employees are engaged.

## Day 3: Navigating the Legal Issues as a Supervisor; Diversity Inclusion and Belonging; Managing Multiple Generations

### Objectives:

- Identify the legal issues and key employment laws you have to navigate as a supervisor
- Review EEOC protected classes and EEO guidelines
- Review Harassment definition and strategies for creating a safe working environment
- Review many aspects of diversity and challenges and value it brings to supervision
- Explore the concepts of inclusion and belonging and the supervisor's responsibility in creating an inclusive environment.
- Review the challenges and benefits of working with multigenerational workforce.

#### **Day 4: Communication and Conflict Resolution**

##### Objectives:

- Examine how assumptions and mental models influence your behavior and results and how these relate to your effectiveness as a supervisor.
- Review components of a basic communication model and why these are important in effective communication.
- Identify and practice using skills of active listening
- Explore the ladder of inference and its impact on effective communication.
- Introduce the Drama Triangle and practice applying effective communication strategies to remain out of the Drama Triangle and promote positive work relationships.

#### **Day 5: Employee Coaching and Feedback**

##### Objectives:

- Review a process for giving performance feedback and coaching employees for success.
- Integrate content introduced in previous days and apply learnings in skill practice scenarios.
- Practice having a coaching conversation with a staff member and receive feedback from peers.
- Finalize individual development plan to take back home to assist in the transfer of training from the classroom to the job.

**Note:** All participants will leave the training with a learning development plan to facilitate the transfer of training back on the job.

***Tab 6 b)***

**Informational Aid: Introduction  
to the NC 911 Board**

***(Roll Call Vote Required)***

# What is the NC 911 Board?

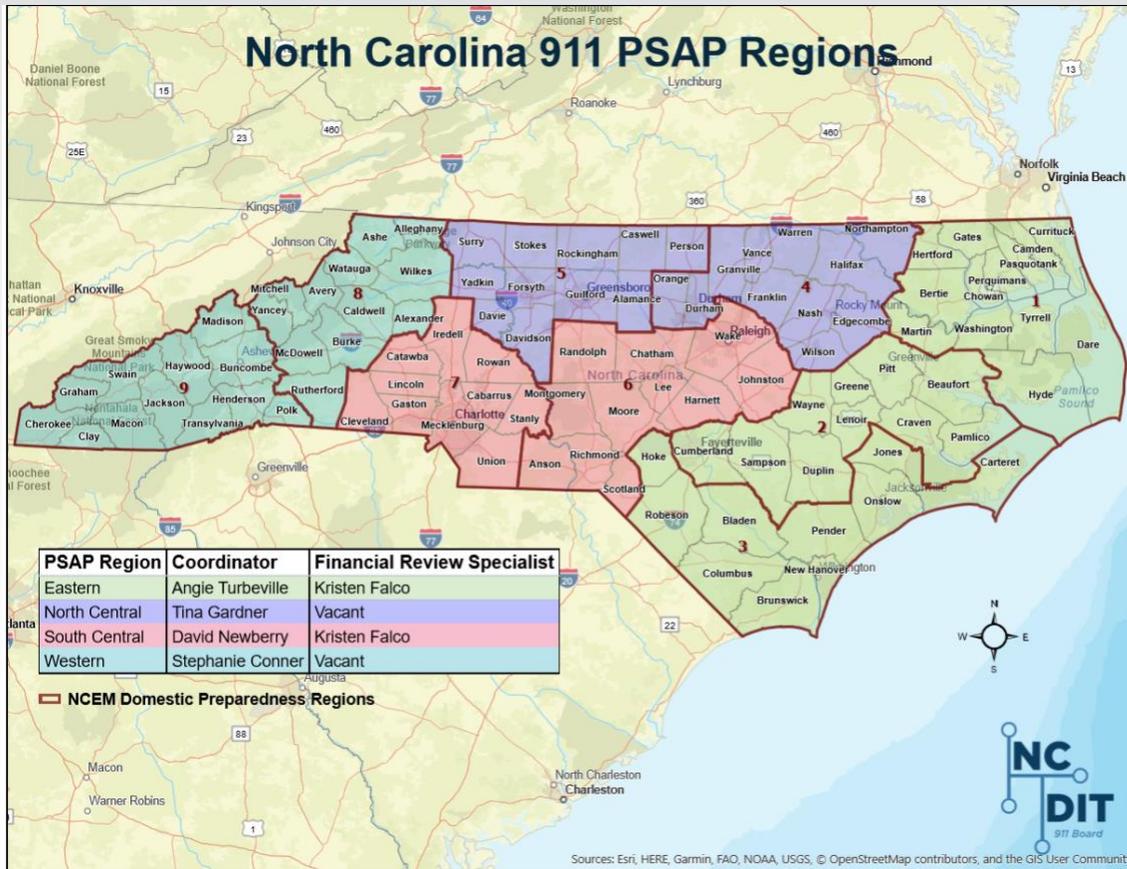
The NC General Assembly created the current NC 911 Board in 2007 to consolidate oversight of wireless and wireline 911 calling and dispatching response agencies. The NC 911 Board is Chaired by the Secretary of the Dept. of Information Technology or the Secretary's designee. Currently, Transportation Secretary Eric Boyette serves as the designated Chair. The Board's membership is representative of the many stakeholder groups involved in providing 911 service in NC and includes representatives of:

- The NC League of Municipalities - 1 Representative
- The NC Association of County Commissioners - 1 Representative
- A provider of VoIP services in the State - 1 Representative
- The NC Chapter of the National Emergency Number Association (NENA) - 1 Representative
- The NC Sheriffs' Association, Inc. - 1 Representative
- CMRS (Wireless) providers in the State - 3 Representatives
- The NC Chapter of the Association of Public Safety Communications Officials (APCO)- 1 Representative
- Small Local Exchange Carriers (fewer than 50,000 access lines) - 2 Representatives
- The NC State Firefighters' Association - 1 Representative
- The NC Association of Chiefs of Police - 1 Representative
- The NC Association of Rescue and Emergency Medical Services - 1 Representative
- Large Local Exchange Carriers - 2 Representatives (one of which must have fewer than 200,000 access lines)

## What does the NC 911 Board do?

The NC 911 Board's powers and duties are established in the North Carolina General Statutes in G.S. §143B-1402. It has regulatory and funding authority. The Board's powers and duties include, but are not limited to:

- Developing a North Carolina State 911 State Plan - The latest version is on the Board's website.
- Administering the 911 Fund - The 911 Fund is an interest-bearing special revenue fund within the State Treasury. The Board must ensure that monies spent from the Fund are used for purposes allowed under the Statute. The Board establishes an annual budget to meet these requirements
- Distributing monies in the 911 Fund to PSAPs - PSAPs receive monthly distributions normalized for their jurisdictions based on past expenditures. PSAPs must submit expenditure reports annually to assist with this process.
- Distributing monies in the 911 Fund to CMRS providers - CMRS providers are eligible to request reimbursement for costs associated with providing enhanced 911 service (E911).
- Establishing policies and procedures to fund advisory services and training for PSAPs - The Board maintains a list of eligible expenditures for purchases and training.
- Establishing Administrative Rules for PSAPs and back-up PSAPs - All PSAPs are required to have an approved back up plan and must meet Rules.
- Using funds to pay for statewide 911 projects - The Board manages statewide projects that provide a call tracking analytics system, interpreter services to the PSAPs, and an Ortho Imaging project for mapping all jurisdictions in the State.
- Paying private sector vendors to establish a Next Generation 911 (NG911) network and technologies- The Board established a contract to implement a statewide ESInet, hosted call handling and creation of a statewide GIS layer.



Sources: Esri, HERE, Garmin, FAO, NOAA, USGS, © OpenStreetMap contributors, and the GIS User Community

Board Staff	Position	Phone Number
<a href="#">Stephanie Conner</a>	Western Regional Coordinator	919-754-6705
<a href="#">Kristen Falco</a>	Financial Review Specialist	919-754-6534
<a href="#">Tina Gardner</a>	North Central Regional Coordinator	919-754-6111
<a href="#">Pokey Harris</a>	Executive Director	919-754-6621
<a href="#">Gerry Means</a>	Network Engineer	919-754-6781
<a href="#">Stanley Meeks</a>	NG911 NMAC Manager	919-754-6635
<a href="#">David Newberry</a>	South Central Regional Coordinator	919-754-6707
<a href="#">Marsha Tapler</a>	Financial Analyst	919-754-6344
<a href="#">Angie Turbeville</a>	Eastern Regional Coordinator	919-754-6162
<a href="#">NMAC Staff</a>	NMAC	855-662-2911

***Tab 6 c)***  
**General Report**

***Tab 7***  
**Funding Committee Report**  
**David Bone**

***Tab 7 a)***  
**Asheville PD Secondary Status**  
**[June Committee Action]**  
***(Roll Call Vote Required)***



## Asheville PD Secondary Status Request Timeline and History

2003 – ILA between Asheville and Buncombe County to have a consolidated public safety communications center for the city and county.

2005 – Asheville City Council authorized the Asheville City Manager to execute an Addendum to the agreement setting January 2007 as the new completion date for the consolidated center.

2005 – A task force was established to be known as the “Consolidated Call Center Advisory Board”, herein, “Advisory Board”, consisting of five (5) members; the Sheriff, Emergency Management Services Director, Chief of Police of the City of Asheville, the Fire Chief of the City of Asheville and the President of Buncombe County Fire Chief’s Association. The purpose of the board was to establish policies and operational standards for the consolidated center.

2007 – A geo-diverse 911 phone system located at 164 Erwin Hills Road (Primary PSAP location Buncombe County) and 100 Court Plaza (Asheville PD location).

2008 – In July of 2008, Buncombe County moved to their new location of 164 Erwin Hills Road and at this time Asheville PD was still located at 100 Court Plaza.

2009 - September 2009 letter from Jerry Vehaun to Richard Taylor included “Addendum 2 To The Intergovernmental Agreement Between The City And County Dated September 2, 2003.” The letter explained that all three answering points would use a common infrastructure and that a split host of the telephone system facilitated a back up site which all three answering points could use.

2009 - Addendum 2 provides that the City would be financially responsible for 3 telecommunicator positions after 1 July 2009 (backdating this responsibility), and that the County would provide financial information to the City by 1 March each year for the City’s budget.

2009 -Addendum 2 provides that the City authorizes the County to dispatch all calls for service. Addendum 2 provides for an Advisory Board; identified as a “task force’ with representatives from the City PD, County Sheriff, City Fire, County Fire, and Emergency Management comprising 5 members. The Board’s purpose is to establish policies and operational standards. Addendum 2 provides that each party is responsible for its DCI certification and authorization.

2012 – David Dodd stated in email correspondence that Asheville PD and Buncombe County were co-located rather than being consolidated at the location of 164 Erwin Hills Road.

2017 – 911 Board staff discovered ineligible expenses on the 2016 revenue expenditure report for Buncombe County for Asheville PD.

2017 – Buncombe challenged the report on the basis of consolidation.

2017 – November 2017, J Vahaun confirmed to Marsha Tapler in an email through Vance Bell that in fact the PSAP (Buncombe and Asheville PD) were not consolidated.

2017 – It was determined that expenses would be at the cost of Asheville PD beginning 2018.

2017 – Secondary PSAP status discussions then began.

2017 - Emails and data collected showing that calls are received and transferred to complete the call taking process. Transferring calls for completing the call taking process aligns with the Boards' secondary PSAP funding policy.

2018 – Documentation requesting from the city and county showing ILA's and funding of the governing authorities. ILA's needed to be prior to 2010.

2020 – ILA's were received that date prior to 2010 and an updated ILA was submitted showing the future working relationship between the primary and secondary PSAP.

2020 – Documents were reviewed by Board staff and deemed appropriate to submit to the Funding Committee for secondary PSAP status approval for Asheville PD.

RESOLUTION NO. 20-03-09

RESOLUTION AUTHORIZING THE EXECUTION OF ADDENDUM #3 TO THE  
INTERGOVERNMENTAL AGREEMENT BETWEEN THE CITY AND THE COUNTY DATED  
SEPTEMBER 2, 2003 REGARDING THE JOINT 911 CALL CENTER

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- WHEREAS, pursuant to N.C. Gen. Stat. § 160A-461, "[a]ny unit of local government in this State and any one or more other units of local government in this State ... may enter into contracts or agreements with each other in order to execute any undertaking;" and
- WHEREAS, on September 2, 2003, the City and County entered into an interlocal agreement creating a consolidated call center (herein "2003 Agreement"); and
- WHEREAS, on December 13, 2005, the City and County executed an addendum to the 2003 Agreement establishing a new completing date for the consolidated communication center; and
- WHEREAS, on September 25, 2009, the City and County executed a second addendum to the 2003 Agreement establishing a joint agreement for the operation of the communication center; and
- WHEREAS, the 911 Board has determined that the City and County joint communication center is not consolidated; and
- WHEREAS, since the City is not a primary PSAP, the City is eligible for funding as a secondary PSAP; and
- WHEREAS, both parties wish to amend the 2003 Agreement through a third addendum to allow the City to be a secondary PSAP and the County to use the secondary PSAP funding to pay for allowable expenditures related to the City's portion of the joint call center; and
- WHEREAS, the City of Asheville approved the execution of the third addendum to the 2003 Agreement on January 28, 2020.

**NOW, THEREFORE, BE IT RESOLVED** by the Board of Commissioners for the County of Buncombe as follows:

The Chairman of the Board of Commissioners is hereby authorized to enter into and sign the third addendum to the intergovernmental agreement between the City and County dated September 2, 2003.

ADOPTED this the 3<sup>rd</sup> day of March 2020.

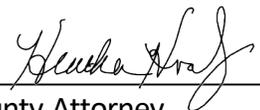
**ATTEST**

**BOARD OF COMMISSIONERS FOR THE  
COUNTY OF BUNCOMBE**

  
\_\_\_\_\_  
Lamar Joyner, Clerk

BY:   
\_\_\_\_\_  
Brownie Newman, Chairman

APPROVED AS TO FORM

  
\_\_\_\_\_  
County Attorney

RESOLUTION NO. 20- 22

RESOLUTION AUTHORIZING ADDENDUM #3 TO THE INTERGOVERNMENTAL AGREEMENT  
BETWEEN THE CITY AND COUNTY DATED SEPTEMBER 2, 2003 (9-1-1 FUNDS)

WHEREAS, the City and County executed an Interlocal Agreement on September 2, 2003 outlining the County and City obligations for the City forgoing becoming a Primary PSAP, creating a consolidated call center ("the 2003 Agreement"), and how the expenses for the center will be paid; and

WHEREAS, on December 13, 2005, the City and County executed an addendum to the 2003 Interlocal Agreement establishing a new completion date for the consolidated public safety communication center paid for by the County; and

WHEREAS, on September 25, 2009, the City and County executed a second addendum to the 2003 Interlocal Agreement creating a joint agreement for the operation of the communication center; and

WHEREAS, pursuant to the 2009 Addendum, the County is responsible for purchasing and maintaining the equipment used to receive and dispatch 911 calls for service with the exception of radios; and

WHEREAS, the State of North Carolina never designated the City as a Primary PSAP and the City never received any funds from the 911 Board; and

WHEREAS, the 911 Board informed the County that it believes that the City meets the definition of a secondary PSAP; and

WHEREAS, the parties have the authority pursuant to Article 20 of N.C. Gen. Stat. Chapter 160A to enter into this Interlocal Agreement; and

WHEREAS, pursuant to N.C. Gen. Stat. § 1438-1400 *et seq.*, Buncombe County 911 Communications Center is a "Primary PSAP," defined in G.S. § 143B-1400 as the first point of reception of a 911 call by a public safety answering point; and,

WHEREAS, Buncombe County has or is about to enter into an "Agreement For 911 Fund Allocations to a Secondary PSAP" ("the State Agreement") with the North Carolina 911 Board (herein "911 Board"); and

WHEREAS, pursuant to that statute, the City through the Asheville Police Department maintains a secondary PSAP as defined by the State Agreement;

NOW, THEREFORE, BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF ASHEVILLE THAT:

The City Manager is hereby authorized to enter into and sign addendum #3 to the intergovernmental agreement between the City and County dated September 2, 2003 (9-1-1 funds)

Read, approved and adopted this the 28th day of January, 2020.

Magdalen Bruleson  
City Clerk

Edna G. Mark  
Mayor

Approved as to form:

[Signature]  
City Attorney

STATE OF NORTH  
CAROLINA

COUNTY OF BUNCOMBE ADDENDUM  
TO THE INTERGOVERNMENTAL  
AGREEMENT BETWEEN THE CITY AND  
COUNTY DATED SEPTEMBER 2, 2003

THIS ADDENDUM made and entered into this 3<sup>rd</sup> day of March, 2020, by and between the County of Buncombe County, a body corporate and politic of the State of North Carolina ("County") and the City of Asheville, a North Carolina municipal corporation organized and existing under the laws of the State of North Carolina ("City").

WHEREAS, the City and County executed an Interlocal Agreement on September 2, 2003 outlining the County and City obligations for the City forgoing becoming a Primary PSAP, creating a consolidated call center ("the 2003 Agreement"), and how the expenses for the center will be paid; and

WHEREAS, on December 13, 2005, the City and County executed an addendum to the 2003 Interlocal Agreement establishing a new completion date for the consolidated public safety communication center paid for by the County ("Addendum #1"); and

WHEREAS, on September 25, 2009, the City and County executed a second addendum to the 2003 Interlocal Agreement creating a joint agreement for the operation of the communication center ("Addendum #2"); and

WHEREAS, pursuant to Addendum #2, the County is responsible for purchasing and maintaining the equipment used to receive and dispatch 911 calls for service with the exception of radios; and

WHEREAS, the State of North Carolina has not designated the City as a Primary PSAP and the City has not received any funds from the 911 Board; and

WHEREAS, the 911 Board informed the County that it believes that the City meets the definition of a secondary PSAP; and

WHEREAS, the parties have the authority pursuant to Article 20 of N.C. Gen. Stat. Chapter 160A to enter into this Interlocal Agreement; and

WHEREAS, pursuant to N.C. Gen. Stat. § 1438-1400 et seq., Buncombe County 911 Communications Center is a "Primary PSAP," defined in G.S. § 143B-1400 as the first point of reception of a 911 call by a public safety answering point; and,

WHEREAS, Buncombe County has or is about to enter into an<sup>11</sup> Agreement For 911 Fund Allocations to a Secondary PSAP<sup>11</sup> ("the State Agreement") with the North Carolina 911 Board (herein<sup>11</sup> 911 Board"); and

WHEREAS, pursuant to N.C. Gen. Stat. § 1438-1440 et seq., the City through the Asheville Police Department (herein "APD") maintains a secondary PSAP as defined by the State Agreement; and

WHEREAS, the parties wish to specify their respective rights and expectations under the State Agreement, regarding the distribution of secondary PSAP funds from the 911 Board.

NOW THEREFORE, in consideration of the premises and the sum of \$1.00 paid by each party to the other, the receipt and sufficiency of which is hereby acknowledged, the parties do covenant and agree as follows:

1. For as long as the 911 Board transfers secondary PSAP funds for the City to the County, the County is authorized to retain those funds and use said funds in accordance with North Carolina State law and the 2003 Agreement and its subsequent addendums for allowable expenses relating to the cost of the City operating as a secondary PSAP.
2. The County's use of all 911 funds shall comply with North Carolina law and all rules, regulations, and procedures required by the 911 Board.
3. Should either the City and/or County exercise their option to terminate the 2003 Agreement and its subsequent addendums, if allowed by State law, the County will be responsible for forwarding to the City the secondary PSAP funds for the City's allowable 911 expenses.

All terms and conditions of the 2003 Agreement, Addendum #1 and Addendum #2 are incorporated into this Addendum #3, and that in the event of any conflict, that the language of Addendum #3 shall prevail,

4. The City Council of the City of Asheville and the Buncombe County Board of Commissioners shall ratify this Addendum.

IN WITNESS WHEREOF, the parties have executed this Agreement, the City of Asheville by causing it to be signed in its corporate name by its Mayor and attested by its City Clerk, and sealed with its corporate seal, and the County of Buncombe by causing it to be signed by the Chairman of its Board of Commissioners and attested by the Clerk to the Board of Commissioners and sealed with its seal, on the day and year first above written.

BUNCOMBE COUNTY

  
\_\_\_\_\_

Printed Name: Brownie Newman

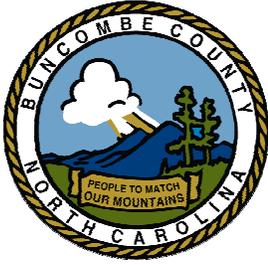
Title: Chairman of the Board of Commissioners

CITY OF ASHEVILLE  
-----

By:  \_\_\_\_\_

Printed Name: Debra Campbell

Title: City Manager



ORDINANCE #20-03-10

**BUNCOMBE COUNTY, NORTH CAROLINA**  
**General Fund**

**BOARD MEETING DATE: March 3, 2020**

**WHEREAS, the Budget Director recommends and the Board now desires to amend the FY2019-2020 General Fund as outlined below in Exhibit "A" to the budget, NOW THEREFORE,**

**BE IT ORDAINED** by the Board of Commissioners for the County of Buncombe as follows:

1. That the FY 2019-2020 amendments listed in Exhibit A below be hereby adopted.
2. That this ordinance shall be effective upon adoption.

**ADOPTED** this 3rd day of March, 2020

<b>Project Name:</b>	Reimburse 911 Fund for Ineligible Expenses
----------------------	--

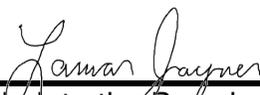
<b>Project Description:</b>	The Intergovernmental Agreement between Buncombe County and the City of Asheville, last amended in 2009, requires that Buncombe County be responsible for the cost of purchasing and maintaining all equipment needed to receive and dispatch 911 calls. In 2016, the NC 911 Board decided that the Buncombe County 911 Center, that includes Buncombe County Emergency Services and the City of Asheville dispatchers, was not consolidated and that, as the City of Asheville had not filed paperwork to be a secondary Public Safety Answering Point (PSAP), the funding that was claimed in FY19 for the City of Asheville (\$178,000) was not eligible for reimbursement. As a result, and in adherence to the Intergovernmental Agreement, the non-reimbursable costs need to be covered by the County's General Fund.
-----------------------------	--

<b>Funding Source:</b>	Existing General fund operating dollars identified by Emergency Services Cost Center. No new funding required.
------------------------	--

<b>Exhibit A:</b> <b>Account Description</b>	<b>Increase (Decrease)</b>	
	<b>Revenues</b>	<b>Expenditures</b>
Fund 100 Public Safety Training Center 6070: Maintenance and Repair		\$ (151,000)
Fund 100 Public Safety Training Center 6090: Contract and Professional Services		\$ (27,000)
Fund 100 Interfund Transfers 8000: Interfund Transfer Expense		\$ 178,000
<b>TOTAL</b>	\$ -	\$ -

**ATTEST:**

**BOARD OF COMMISSIONERS FOR  
THE COUNTY OF BUNCOMBE:**

  
 \_\_\_\_\_  
 Clerk to the Board

By:   
 \_\_\_\_\_  
 Chairman of the Board

View Budget Amendment: Budget  
 Amendment: FY2020 - Cost Center Detail  
 Annual on 03/03/2020 : BUD001193

<b>Company</b>	Buncombe County
<b>Plan Template</b>	Cost Center Detail Annual : FY20 Amended- child level 2
<b>Plan</b>	FY20 Amended- child level 2
<b>Organizing Dimension Type</b>	
<b>Amendment ID</b>	BUD001193
<b>Amendment Date</b>	03/03/2020
<b>Description</b>	BA Fund 100 Reimburse 911 Fund for Ineligible Expenses
<b>Parent Budget Amendment</b>	Budget Amendment: FY2020 - Cost Center Annual on 03/03/2020
<b>Amendment Type</b>	Board Approval
<b>Balanced Amendment</b>	No
<b>Entry Type</b>	Financial
<b>Status</b>	Available

**Budget Amendment Entries**

Period	*Ledger Account/Summary	*Fund	*Cost Center	Revenue Category	Spend Category Hierarchy	Grant	Program	Project Hierarchy	Debit Amount	Credit Amount	Memo
FY2020 Annual (FY20 Amended-child level 2)	8000:Interfund Transfer Expense	100 General	Interfund Transfers						\$178,000.00	\$0.00	
FY2020 Annual (FY20 Amended-child level 2)	6070:Maintenance and Repair	100 General	Public Safety Training Center		Building and Grounds Maintenance				\$0.00	\$124,000.00	
FY2020 Annual (FY20 Amended-child level 2)	6070:Maintenance and Repair	100 General	Public Safety Training Center		Equipment Maintenance				\$0.00	\$27,000.00	
FY2020 Annual (FY20 Amended-child level 2)	6090:Contract and Professional Services	100 General	Public Safety Training Center		Janitorial Service				\$0.00	\$27,000.00	

3-3-20 Fund 100 Reimburse 911 Fund.pdf

<b>File Name</b>	3-3-20 Fund 100 Reimburse 911 Fund.pdf
<b>Content Type</b>	application/pdf
<b>Updated By</b>	John Hudson III (8524)
<b>Upload Date</b>	03/06/2020 03:01:10 PM
<b>Comment</b>	

**Process History**

Process	Step	Status	Completed On	Due Date	Person	Comment
Budget Amendment Event	Budget Amendment Event	Step Completed	03/06/2020 03:01:11 PM	03/07/2020	John Hudson III (8524)	

View Budget Amendment: Budget  
Amendment: FY2020 - Cost Center Detail  
Annual on 03/03/2020 : BUD001193

Process	Step	Status	Completed On	Due Date	Person	Comment
Budget Amendment Event	Approval by Project Manager	Not Required		03/07/2020		
Budget Amendment Event	Approval by Grant Manager	Not Required		03/07/2020		
Budget Amendment Event	Approval by Cost Center Reviewer	Not Required		03/07/2020		
Budget Amendment Event	Approval by Cost Center Manager	Not Required		03/07/2020		
Budget Amendment Event	Approval by Cost Center Manager (All)	Approved	03/08/2020 03:44:46 PM		Angela Ledford (1900) (Cost Center Manager)	
Budget Amendment Event	Approval by Cost Center Manager (All)	Approved	03/09/2020 09:15:48 AM		Matthew Evans (12675) (Cost Center Manager)	
Budget Amendment Event	Approval by Cost Center Manager (All)	Approved	03/09/2020 02:28:38 PM		Terri Orange (12961) on behalf of Donald Warn (13346) (Cost Center Manager)	
Budget Amendment Event	Approval by Cost Center Manager (All)	Approved	03/10/2020 08:39:03 AM		Chris Pegg (12136) (Cost Center Manager)	
Budget Amendment Event	Approval by Cost Center Manager (All)	Approved	03/10/2020 08:49:58 AM		Samuel Riddle (13401) (Cost Center Manager)	
Budget Amendment Event	Approval by Cost Center Threshold Approver	Approved	03/10/2020 09:57:53 AM	03/12/2020	DK Wesley (13531) (Cost Center Threshold Approver)	
Budget Amendment Event	Approval by Cost Center ACM	Not Required		03/07/2020		
Budget Amendment Event	Approval by Budget Manager	Approved	03/10/2020 01:00:16 PM	03/12/2020	Jennifer Barnette (5160) (Budget Manager)	
Budget Amendment Event	To Do: Get Board Approval	Not Required		03/07/2020		
Budget Amendment Event	To Do: Get County Manager Approval	Not Required		03/07/2020		
Budget Amendment Event	To Do: Get Board Approval	Step Completed	03/10/2020 01:03:09 PM	03/12/2020	Jennifer Barnette (5160) (Budget Manager)	Jennifer Barnette: Board of Commissioners approved on March 03, 2020. Signed, supporting documentation is attached to the budget amendment.

***Tab 7 b)***

**Motorola AIS and Integration  
Eligibility**

**[June Committee Action]**

***(Roll Call Vote Required)***



Carolina Recording Systems, LLC  
 PO Box 11311  
 Charlotte, NC 28220  
**CRS**

# QUOTE

**FOR: Eventide NexLog Communications Recording System - ASTRO Upgrade**

**Quote Prepared By**

**Chatham County 911**  
 297 West St  
 Pittsboro, NC 27312  
 Mikke Reitz  
 (919) 542-2911  
[mike.reitz@chathamnc.org](mailto:mike.reitz@chathamnc.org)

**Victor Williams**  
[vic.williams@crsnc.com](mailto:vic.williams@crsnc.com)  
 (252) 375-6579  
 Fax: (888) 776-0201  
 Help Desk: (888) 661-0202

Est. Delivery	Terms	Shipping Terms	Quote Valid Through	Quote Number
4 to 8 Weeks	Net 30	FOB - Frieght, Delivery - Prepaid and Add	05/31/2020	CHATHAM0420

Line	Qty	Model	Description	Unit Price	Ext. Price
1	1	MotoP25	<b>Motorola Astro P25 Integration</b> Integtration for Primary and Backup Recorders Includes: - Integration to P25 system via Two Customer-Supplied Archive Information Servers (AIS) - License Fee for MCC7500 SDK - Qty: 2 - 4 Concurrent Decoder for P25 - 24 RoIP Licenses for Concurrent Talkpaths (for each recorder) - Eventide Remote Install Prep  *For all P25 implementations, payment is required up front due to pass-through licensing charge to Motorola Solutions for use of the integration's Software Development Kit (SDK).	\$ 109,480.00	\$ 109,480.00
2			<b>Equipment Total</b>		<b>\$ 109,480.00</b>
3	1	XXXX	Professional Services: Includes installation, configuration, testing, and unlimited training.	\$ 5,000.00	\$ 5,000.00
4	2	Man S&H	Manufacturer Shipping	\$ 75.00	\$ 150.00
5			<b>Solution Total</b>		<b>\$ 114,630.00</b>

**Installation Notes:**

Customer's radio, telephone, and CAD vendors should provide the proper inputs, identified and terminated within 6 feet of the recorder's physical location.  
 Customer is responsible for insuring the necessary 3rd party licensing, installation, and integration work is completed by its other vendors.

**Chatham County 911**

<b>Part Number</b>	<b>Description</b>	<b>Quantity</b>	<b>List Price (Each)</b>	<b>List Price (Extended)</b>
<b>NexLog 740 - Eventide NexLog 740 Recording System Upgrade</b>				
271141	Mandatory license fee for Initial System Release - for end-customer with ONE AIS (or FIRST AIS) (Non-Discountable; must be pre-paid)	1	\$49,995.00	\$49,995.00
271142	Mandatory license fee for Initial System Release - for same end-customer, PER EACH AIS BEYOND FIRST AIS (Non-Discountable; must be pre-paid)	1	\$10,495.00	\$10,495.00
209220	Integration to Motorola ASTRO 25 system - Initial ASTRO version - SINGLE AIS	1	\$11,995.00	\$11,995.00
209221	Integration to Motorola ASTRO 25 system - Initial ASTRO version - per ADD'L AIS	1	\$2,995.00	\$2,995.00
115015	Mandatory Remote Install Prep for P25 or TETRA; (Non-Discountable)	1	\$3,500.00	\$3,500.00
1173-000	DVSI 4-Port Networked Decoder Unit (for P25, DMR, MOTOTRBO, NXDN)	2	\$10,000.00	\$20,000.00
271035	Additional Internal IP G.711 8-Channel license pack	6	\$1,750.00	\$10,500.00
			<b>Sub-Total</b>	<b>\$109,480.00</b>

**Eventide's Motorola ASTRO P25 Radio Dispatch Integration-Required Parts/Licenses and Explanations:**

**Part number 271141:** Mandatory license fee for Initial System Release - for end-customer with ONE AIS (or FIRST AIS) (Non-Discountable; must be pre-paid)

This is Motorola's software license for their Logging API, and is required for interfacing a logging recorder with the Motorola MCC 7500 Archiving Interface Server (AIS). The MCC 7500 radio consoles are IP-based, so a Motorola approved interface is required to capture and record audio transmitted over radio talk groups from the MCC 7500 consoles.

**Part number 271142:** Mandatory license fee for Initial System Release - for same end-customer, PER EACH AIS BEYOND FIRST AIS (Non-Discountable; must be pre-paid)

This license has the same function as part number 271141, and is required for additional Logging API connections. Connections to additional separate MCC 7500 AIS servers are needed in some cases, such as for a backup PSAP.

**Part number 209220:** Integration to Motorola ASTRO 25 system - Initial ASTRO version - SINGLE AIS

This is Eventide's software license in conjunction with part number 271141 for the logging recorder software module and is required to interface with the Motorola MCC 7500 AIS. Eventide charges software licenses for recording interfaces to cover software development costs. This software module is required to capture and record transmitted over radio talk groups from the MCC 7500 consoles.

**Part number 209221:** Integration to Motorola ASTRO 25 system - Initial ASTRO version - per ADD'L AIS

This software license has the same function as part number 209220, and is required for additional logging recorder AIS software modules. Each software module can connect to a single Motorola AIS, and additional modules are required for multiple AIS connections, such as for a backup PSAP.

**Part number 115015:** Mandatory Remote Install Prep for P25 or TETRA; (Non-Discountable)

This is a one-time fee charged by Eventide to remotely process and configure the licensing and software interface modules for the above integration related to part numbers 271141 and 209220 (and part numbers 271142 and 209221 if additional Logging API connections are required).

**Part number 1173-000:** DVSI 4-Port Networked Decoder Unit (for P25, DMR, MOTOTRBO, NXDN)

All P25 radio transmissions are encoded by the radio equipment before transmission in IMBE or AMBE format as outlined in the APCO Project25 specification (codec). The IMBE and AMBE codec formats are the intellectual property of DVSI. This decoder enables conversion (decoding) of the AMBE and IMBE codec into non-proprietary formats, such as wav files so they can be played back by the recording system for the use in instant recall and incident recreation by 911 Telecommunicators, Supervisors, and Directors.

## 2.5 ARCHIVING INTERFACE (AIS)

### 2.5.1 Archiving Interface Server (AIS)

The Archiving Interface Server (AIS) provides an interface between the radio system and Radio Systems Voice IP logging recorder equipment. The server provides the interface with IP Logging recorder equipment that allows calls on the radio system to be recorded together with information associated with the calls. The user can typically configure the third-party recorder to monitor and record a set of radio system resources (trunked or conventional). The AIS also supports audio logging for analog conventional and ASTRO 25 conventional calls.

The MCC 7500 Archiving Interface Server (AIS) provides an interface between the ASTRO 25 IP radio system and the IP logging recorder. The interaction between the AIS and the logging recorder is based on the MCC 7500 console API. The AIS uses the API to specify which talkgroups, conventional channels, telephone and individual calls it will record. The AIS uses the API to pass call control information and vocoded audio packets associated with radio calls to the recorder system via the Motorola Radio Network LAN for storage and retrieval. Archiving interface servers may be located at any dispatch console site or may be located at the zone's core site.



## Falco, Kristen L

---

**From:** Mike Reitz <mike.reitz@chathamnc.org>  
**Sent:** Monday, May 4, 2020 10:23 AM  
**To:** Tapler, Marsha  
**Cc:** Harris, Pokey; Falco, Kristen L; Newberry, David C; Turbeville, Angie F; Gardner, Tina L; Conner, Stephanie A  
**Subject:** RE: [External] RE: Chatham County Eligibility Request

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Good morning Marsha,

Let's go with Monday May 11<sup>th</sup> at 3:30pm.

Thanks,  
Mike

---

**From:** Tapler, Marsha [mailto:marsha.tapler@nc.gov]  
**Sent:** Friday, May 1, 2020 3:23 PM  
**To:** Mike Reitz <mike.reitz@chathamnc.org>  
**Cc:** Harris, Pokey <pokey.harris@nc.gov>; Falco, Kristen L <kristen.falco@nc.gov>; Newberry, David C <david.newberry@nc.gov>; Turbeville, Angie F <angie.turbeville@nc.gov>; Gardner, Tina L <Tina.Gardner@nc.gov>; Conner, Stephanie A <stephanie.conner@nc.gov>  
**Subject:** RE: [External] RE: Chatham County Eligibility Request

Thank you Mike for the information.

It appears staff has received conflicting information from the vendor with regards to descriptions of items on their quotes. To resolve this matter, staff would request a meeting with you to discuss. If you feel the vendor needs to be on the call, please invite them as well. For staff to be prepared for this meeting, Carolina Recording Systems (CRS) will need to provide specs/configuration of the equipment and software details. As you know, we must review all quotes for recording equipment and abide by legislation which only allows for the recording of the incoming 911 call to the primary PSAP, and the input of call information for dispatch, and dispatch relaying 911 call information to first responder (s); this is the end of the approved recording.

Meeting availability is listed below, so let me know what time works best for you..

Monday—May 11<sup>th</sup> 3:30pm  
Tuesday—May 12<sup>th</sup> 10:00-11:30am or 1:30-3:30pm  
Wednesday—May 13<sup>th</sup> 1:00-2:30pm

I look forward to hearing from you.

Best regards,

*Marsha*

Marsha Tapler  
Financial Analyst  
919.754.6344 office  
[marsha.tapler@nc.gov](mailto:marsha.tapler@nc.gov)



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---

**From:** Mike Reitz <[mike.reitz@chathamnc.org](mailto:mike.reitz@chathamnc.org)>  
**Sent:** Friday, May 1, 2020 12:07 PM  
**To:** Tapler, Marsha <[marsha.tapler@nc.gov](mailto:marsha.tapler@nc.gov)>; Falco, Kristen L <[kristen.falco@nc.gov](mailto:kristen.falco@nc.gov)>  
**Cc:** Harris, Pokey <[pokey.harris@nc.gov](mailto:pokey.harris@nc.gov)>; Newberry, David C <[david.newberry@nc.gov](mailto:david.newberry@nc.gov)>  
**Subject:** RE: [External] RE: Chatham County Eligibility Request

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Cliff Kimsey, through my sales rep Vic Williams.

---

**From:** Tapler, Marsha [<mailto:marsha.tapler@nc.gov>]  
**Sent:** Friday, May 1, 2020 11:09 AM  
**To:** Mike Reitz <[mike.reitz@chathamnc.org](mailto:mike.reitz@chathamnc.org)>; Falco, Kristen L <[kristen.falco@nc.gov](mailto:kristen.falco@nc.gov)>  
**Cc:** Harris, Pokey <[pokey.harris@nc.gov](mailto:pokey.harris@nc.gov)>; Newberry, David C <[david.newberry@nc.gov](mailto:david.newberry@nc.gov)>  
**Subject:** RE: [External] RE: Chatham County Eligibility Request

Hello Mike,

Who provided the information to you for the notes in red below?

Thanks.

*Marsha*

Marsha Tapler  
Financial Analyst  
919.754.6344 office  
[marsha.tapler@nc.gov](mailto:marsha.tapler@nc.gov)



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---

**From:** Mike Reitz <[mike.reitz@chathamnc.org](mailto:mike.reitz@chathamnc.org)>  
**Sent:** Friday, May 1, 2020 9:21 AM  
**To:** Tapler, Marsha <[marsha.tapler@nc.gov](mailto:marsha.tapler@nc.gov)>; Falco, Kristen L <[kristen.falco@nc.gov](mailto:kristen.falco@nc.gov)>  
**Cc:** Harris, Pokey <[pokey.harris@nc.gov](mailto:pokey.harris@nc.gov)>; Newberry, David C <[david.newberry@nc.gov](mailto:david.newberry@nc.gov)>  
**Subject:** [External] RE: Chatham County Eligibility Request

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Good morning all,

I received additional information from CRS last night regarding these items noted below. Before I start gathering documentation from you all for the appeal, I wanted to send their updated comments regarding those items. Their updated comments are in red:

1. Item #271141 and 271142: Mandatory license fee for Initial System Release- for end-customer with ONE AIS (or FIRST AIS) (Non-Discountable; must be pre-paid)
  - a. CRS (Cliff Kimsey) noted this was a cost that Motorola is charging CRS for the integration between Motorola's system and the recording system on the radio side that is billed to the customer. This was marked an ineligible cost.

**This is a required component to record the dispatch of the 911 call.**

2. Item #115015: Mandatory Remote Install Prep for P25 or TETRA; (Non-Discountable)
  - a. CRS (Cliff Kimsey) this is the installation of the licenses and the decoders. Decoders were not eligible, was approved at 50%.  
**This is for configuration, production, and processing and applies only to the licenses in #1. This is not related to decoders.**
3. Item #1173-000: DVSI 4-Port USB Decoder Unit (for P25, DMR, MOTORBO, NXDN)-
  - a. CRS (Cliff Kimsey) this is necessary to compress the audio files recorded on the radio system. This is not eligible.  
**This is a required component to replay the recording. This is not compression, but rather vocoding (converting) of the APCO P25 AMBE and IMBE codec (proprietary) into a standardized format (wav file).**

These items are required to record the dispatch of the 911 call. Per Marsha's comments below, and the Board's position, the dispatch of a 911 call is part of the call taking process. As far as additional legislative information, these same items have been approved in the past; the precedent has been set that these expenditures meet legislative requirements. However, §143B-1406 (d)(1)(d) under Use of Funds, states "dispatch equipment located exclusively within a building where a PSAP or back-up PSAP is located..."

I'm asking that these items be approved at 100%.

Let me know if you have any other questions.

Regards,

Mike Reitz  
Director  
Emergency Communications  
Chatham County  
297 West St PO Box 613  
Pittsboro, NC 27312  
Office 919-545-8160  
Mobile 919-316-8469

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---

**From:** Tapler, Marsha [<mailto:marsha.tapler@nc.gov>]  
**Sent:** Thursday, April 30, 2020 3:32 PM  
**To:** Mike Reitz <[mike.reitz@chathamnc.org](mailto:mike.reitz@chathamnc.org)>; Falco, Kristen L <[kristen.falco@nc.gov](mailto:kristen.falco@nc.gov)>  
**Cc:** Harris, Pokey <[pokey.harris@nc.gov](mailto:pokey.harris@nc.gov)>; Newberry, David C <[david.newberry@nc.gov](mailto:david.newberry@nc.gov)>  
**Subject:** RE: [External] RE: Chatham County Eligibility Request

Hello Mike,

Unfortunately, the decision given by staff remains as expense items are not eligible. As mentioned, these items do not fall within legislation and you have not provided additional legislative information for second review. We have had the meeting with CRS so no further meetings are necessary. If you would like to appeal the decision, please find the documentation for this on our website.

Thank you for your assistance.

Best regards,

*Marsha*

Marsha Tapler  
Financial Analyst  
919.754.6344 office  
[marsha.tapler@nc.gov](mailto:marsha.tapler@nc.gov)



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**From:** Mike Reitz <[mike.reitz@chathamnc.org](mailto:mike.reitz@chathamnc.org)>  
**Sent:** Thursday, April 30, 2020 2:14 PM  
**To:** Tapler, Marsha <[marsha.tapler@nc.gov](mailto:marsha.tapler@nc.gov)>; Falco, Kristen L <[kristen.falco@nc.gov](mailto:kristen.falco@nc.gov)>  
**Cc:** Harris, Pokey <[pokey.harris@nc.gov](mailto:pokey.harris@nc.gov)>; Newberry, David C <[david.newberry@nc.gov](mailto:david.newberry@nc.gov)>  
**Subject:** RE: [External] RE: Chatham County Eligibility Request

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Marsha,

Thank you, and Kristen, for the work on this – I appreciate it. I still disagree with the assessment and here is why:

As you stated below, “Legislation pertaining to 911 calls is for the recording of the immediate answer, process and dispatch of a 911 call.” To put it simply, without everything on this quote, we will not be able to record the dispatch of a 911 call. Therefore, this should be approved at 100%.

I'm not the subject matter expert when it comes to these licenses, decoders and recording technology in general; we may want to have a conversation with Carolina Recording System again to discuss this. I'm happy to get on a conference call. I do now that without these licenses and decoders, we will not be able to record the dispatch of a 911 call.

As far as the rest of the proposal, the document I provided with my request is the only document I have. This is a straightforward project and is not as complicated as installing an entirely new recording system. Everything on this quote is needed in order to record the dispatch of our 911 calls.

Let me know if you have any other questions.

Regards,

Mike Reitz  
Director  
Emergency Communications  
Chatham County  
297 West St PO Box 613  
Pittsboro, NC 27312  
Office 919-545-8160  
Mobile 919-316-8469

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**From:** Tapler, Marsha [<mailto:marsha.tapler@nc.gov>]  
**Sent:** Thursday, April 30, 2020 1:22 PM  
**To:** Mike Reitz <[mike.reitz@chathamnc.org](mailto:mike.reitz@chathamnc.org)>; Falco, Kristen L <[kristen.falco@nc.gov](mailto:kristen.falco@nc.gov)>  
**Cc:** Harris, Pokey <[pokey.harris@nc.gov](mailto:pokey.harris@nc.gov)>; Newberry, David C <[david.newberry@nc.gov](mailto:david.newberry@nc.gov)>  
**Subject:** RE: [External] RE: Chatham County Eligibility Request

Hello Mike,

Regarding the Carolina Recording breakdown submitted for eligibility review, notes were provided by Kristen Falco on why these were not eligible however, they may not have come through on your side so, I have noted the following along with additional information on why not eligible.

1. Item #271141 and 271142: Mandatory license fee for Initial System Release- for end-customer with ONE AIS (or FIRST AIS) (Non-Discountable; must be pre-paid)
  - a. CRS (Cliff Kimsey) noted this was a cost that Motorola is charging CRS for the integration between Motorola's system and the recording system on the radio side that is billed to the customer. This was marked an ineligible cost.
2. Item #115015: Mandatory Remote Install Prep for P25 or TETRA; (Non-Discountable)
  - a. CRS (Cliff Kimsey) this is the installation of the licenses and the decoders. Decoders were not eligible, was approved at 50%.

3. Item #1173-000: DVSI 4-Port USB Decoder Unit (for P25, DMR, MOTORBO, NXDN)-

- a. CRS (Cliff Kimsey) this is necessary to compress the audio files recorded on the radio system. This is not eligible.

Staff reviewed legislation and based the ineligibility on details provided by Cliff Kimsey with Carolina Recording. Legislation pertaining to 911 calls is for the recording of the immediate answer, process and dispatch of a 911 call. These items do not fall within this definition. Additionally, radio traffic recordings also includes the calls for service that are not eligible for 911 funds.

**"§ 143B-1400. Definitions.** Call taking. – The act of processing a 911 call for emergency assistance by a primary PSAP, including the use of 911 system equipment, call classification, location of a caller, determination of the appropriate response level for emergency responders, and dispatching 911 call information to the appropriate responder.

If you still disagree with the assessment, please provide where these items fit within legislation.

As for the rest of the CRS quote, please provide the full proposal as it is needed to determine the percentage of installation and project management fees eligibility.

Thank you for assisting.

Best regards,

*Marsha*

Marsha Tapler  
Financial Analyst  
919.754.6344 office  
[marsha.tapler@nc.gov](mailto:marsha.tapler@nc.gov)



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---

**From:** Mike Reitz <[mike.reitz@chathamnc.org](mailto:mike.reitz@chathamnc.org)>  
**Sent:** Wednesday, April 29, 2020 10:09 AM  
**To:** Falco, Kristen L <[kristen.falco@nc.gov](mailto:kristen.falco@nc.gov)>  
**Cc:** Tapler, Marsha <[marsha.tapler@nc.gov](mailto:marsha.tapler@nc.gov)>; Harris, Pokey <[pokey.harris@nc.gov](mailto:pokey.harris@nc.gov)>; Newberry, David C <[david.newberry@nc.gov](mailto:david.newberry@nc.gov)>  
**Subject:** [External] RE: Chatham County Eligibility Request

**CAUTION:** External email. Do not click links or open attachments unless you verify. Send all suspicious email as an attachment to [report.spam@nc.gov](mailto:report.spam@nc.gov)

Hi Kristen,

Could you or someone on this email explain why some of these charges are marked as ineligible? I do not see an explanation within the notes you provided directly on the quote.

Thanks,

Mike Reitz  
Director  
Emergency Communications  
Chatham County  
297 West St PO Box 613  
Pittsboro, NC 27312  
Office 919-545-8160  
Mobile 919-316-8469

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---

**From:** Falco, Kristen L [<mailto:kristen.falco@nc.gov>]  
**Sent:** Wednesday, April 29, 2020 8:24 AM  
**To:** Mike Reitz <[mike.reitz@chathamnc.org](mailto:mike.reitz@chathamnc.org)>  
**Cc:** Tapler, Marsha <[marsha.tapler@nc.gov](mailto:marsha.tapler@nc.gov)>; Harris, Pokey <[pokey.harris@nc.gov](mailto:pokey.harris@nc.gov)>; Newberry, David C <[david.newberry@nc.gov](mailto:david.newberry@nc.gov)>  
**Subject:** Chatham County Eligibility Request

Good Morning Mike,

Previously we did not have all of the information from CRS to make a more informed decision on the eligibility of the AIS integration. If other PSAP's AIS integrations were approved at 100% previously, this was an error on our part and we will notify those PSAP's of our mistake. Thank you,

**Kristen Falco**  
Financial Review Specialist  
NC DIT 911 Board Staff  
O: (919) 754-6534

C: (607) 483-3223

[Website](#) [Twitter \[twitter.com\]](#) [Facebook \[facebook.com\]](#) [LinkedIn \[linkedin.com\]](#) [YouTube \[youtube.com\]](#) [Flickr \[flickr.com\]](#)



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**From:** Mike Reitz <[mike.reitz@chathamnc.org](mailto:mike.reitz@chathamnc.org)>  
**Sent:** Tuesday, April 28, 2020 11:28 AM  
**To:** Falco, Kristen L <[kristen.falco@nc.gov](mailto:kristen.falco@nc.gov)>  
**Cc:** Tapler, Marsha <[marsha.tapler@nc.gov](mailto:marsha.tapler@nc.gov)>; Harris, Pokey <[pokey.harris@nc.gov](mailto:pokey.harris@nc.gov)>; Newberry, David C <[david.newberry@nc.gov](mailto:david.newberry@nc.gov)>  
**Subject:** [External] RE: [Ext] Chatham County Eligibility Request

**CAUTION:** External email. Do not click links or open attachments unless you verify. Send all suspicious email as an attachment to [report.spam@nc.gov](mailto:report.spam@nc.gov)

Good morning Kristen,

Thanks for the follow-up. I'm hearing from other PSAP's that this has been approved as an eligible expense (100%) in the past. Has the Board or Funding Committee made any policy changes regarding this since this was last approved at 100% for a PSAP? Why is Chatham not being approved the same as the other PSAP's have been?

Chatham County is upgrading our radio consoles (eligible equipment) and in order for those consoles to work with our recorder (eligible equipment) we need these licenses and hardware listed on our quote.

Mike Reitz  
Director  
Emergency Communications  
Chatham County  
297 West St PO Box 613  
Pittsboro, NC 27312  
Office 919-545-8160  
Mobile 919-316-8469

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**From:** PSAP Eligibility Request [<mailto:PSAPEligibilityRequest@nc.gov>]

**Sent:** Tuesday, April 28, 2020 8:27 AM

**To:** Mike Reitz <[mike.reitz@chathamnc.org](mailto:mike.reitz@chathamnc.org)>; PSAP Eligibility Request <[PSAPEligibilityRequest@nc.gov](mailto:PSAPEligibilityRequest@nc.gov)>; Newberry, David C <[david.newberry@nc.gov](mailto:david.newberry@nc.gov)>

**Subject:** [Ext] Chatham County Eligibility Request

**CAUTION:** This email originated from outside of the Chatham County network. Do not reply, click links, or open attachments unless you recognize the sender and know the content is safe. When in doubt, please call the sender (do not use the number listed on the email in question).

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Good Morning Mike,

We have had discussions with PSAP's and CRS regarding this system upgrade and CRS was able to provide more detail for the itemized costs for this system upgrade a few weeks ago. Please see the attached quote you have sent with mark up and description of those items marked ineligible. Thank you,

**Kristen Falco**

Financial Review Specialist

NC DIT 911 Board Staff

O: (919) 754-6534

C: (607) 483-3223

[Website](#) [Twitter \[twitter.com\]](#) [Facebook \[facebook.com\]](#) [LinkedIn \[linkedin.com\]](#) [YouTube \[youtube.com\]](#) [Flickr \[flickr.com\]](#)



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**From:** Mike Reitz <[mike.reitz@chathamnc.org](mailto:mike.reitz@chathamnc.org)>

**Sent:** Wednesday, April 22, 2020 9:59 AM

**To:** PSAP Eligibility Request <[PSAPEligibilityRequest@nc.gov](mailto:PSAPEligibilityRequest@nc.gov)>

**Subject:** [External] Chatham County Eligibility Request

**CAUTION:** External email. Do not click links or open attachments unless you verify. Send all suspicious email as an attachment to [report.spam@nc.gov](mailto:report.spam@nc.gov)

Good morning all,

Please see the attached quote from Carolina Recording Systems for AIS. It's my understanding this is an eligible expense, as other PSAP's have already been through this process. Software licensing costs and recorder

software/hardware are on the approved use of funds list. However, I'm not finding it on the hardware or software tabs of the finance report.

Before I submit a purchase order for this amount, I want confirmation from you all that this is eligible.

Have a great day!

Thanks,

Mike Reitz  
Director  
Emergency Communications  
Chatham County  
297 West St PO Box 613  
Pittsboro, NC 27312  
Office 919-545-8160  
Mobile 919-316-8469

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# Davidson CRS & Motorola Radio

Wednesday, April 01, 2020 11:18 AM

Meeting with Vic Williams, Cliff Kimsey, Rob Wilson, Kristen Falco, Tina Gardner, Marsha Tapler

Last edited: Just now

## Notes

### AIS A Recorder integration

Item #271142: Mandatory license fee for Initial System Release- for end-customer with ONE AIS (or FIRST AIS) (Non-Discountable; must be pre-paid)

This was described by CRS (Cliff Kimsey) as being a cost that Motorola is charging CRS for the integration between motorola's system and the recording system on the radio side that is billed to the customer. This was marked an ineligible cost.

Item #209220: Integration to Motorola ASTRO 25 system- Initial ASTRO version- SINGLE AIS

### Notes

Item #115015: Mandatory Remote Install Prep for P25 or TETRA; (Non-Discountable)

This was described by CRS (Cliff Kimsey) as being the installation of the licenses and the decoders. Decoders were not eligible, was approved at 50% for a total of **\$1750.00**

### Notes

Item #324720: DVSI 2-Port USB Decoder Unit (for P25, DMR, MOTORBO, NXDN)- Max 8

This was described by CRS (Cliff Kimsey) as being necessary to compress the audio files recorded on the radio system. Cliff Kimsey is going to send specs for the decoders for an additional review, at this time, they were marked ineligible

## Radio Project management and installation

Based on eligible items marked on quote, it was determined that **61%** of project management costs and installation would be eligible. An email was sent to Rob Wilson on 4/1/2020 reminding him that there was an 18% discount on the total price and that amount needed to be removed from the amount marked eligible on the quote for a total eligible radio cost of **\$272,871.55**.

***Tab 7 c)***

**SIP Administrative Lines**

***(Roll Call Vote Required)***

# NC NG911 ADMIN LINES

Enabling the Full Benefit of an IP Based Network for 911

SIP Conversion  
Proposal

## SIP Admin Lines Proposal: Highlights

- SIP protocol delivers admin calls via the ESInet to primary sites and backup sites. Call access uses number “portability” to reorient call delivery to AT&T.
- Requires number porting to AT&T regardless of local LEC for number retention.
- 911 Board is the “customer”- sub-accounts are established via government telephone groups for PSAPs. Enables assignment of multiple contiguous number groups by PSAP if desired.
- PSAP to PSAP 10-digit dialing across the State is on-net and calls follow user groups as Branch Office Extensions (BOE).
- SIP Access circuit costs and SBC billed to Board, offering substantial cost offsets vs. multiple gateways and individual POTs lines.
- Currently utilizing an estimated 1400 Admin line circuits across all NC PSAPs.

## Legacy Admin line design

Individual PSAPs use a varied combination of PSTN access circuits for local PSTN ingress and egress. Circuit types can include POTs, Centrex, dedicated PRI, and PSAP owned PBX extensions. Each PSAP has its own admin line call handling CPE with circuits from local and long-distance phone carriers. Admin line reimbursement is matched to approved seat count. Board funding calls for a one to one relationship between call taker positions and admin lines to enable call back on dropped and/or abandoned 911 calls.

- POTs, Centrex, T1/PRI access are the predominant way of getting phone trunks
- Local carrier last mile access failures results in loss of voice communication
- Requires connection to the ESInet via gateways (extra hardware)
- Admin line voice service for call takers are separate from general use lines in the PSAP
- Forwarding and advanced features are specific to each carrier
- Line rates (cost\$) varies from one phone exchange to another
- Telephone numbers are specific to individual lines

Current funding reimbursement governance calls for one (1) administrative line per answering position in a primary PSAP. The features caller identification (call ID), three-way calling, call forwarding, multi-line hunt and the cost of long-distance charges necessary for reestablishing contact with a 911 caller are required on each line. **Funding for each administrative line cannot exceed \$75.00** unless prior approval is received from 911 Board.

## Advantages of SIP admin Lines: Key Findings

Converting to SIP based admin lines allows a much greater level of commonality of operations with the many advantages of the NG911 ESInet and hosted call handling solution. SIP admin lines would simplify the management and support of the admin line function for call takers by removing the reliance on local exchange carriers. SIP admin lines for call takers will use the ESInet network for call delivery and origination and therefore enable admin call transfers and routing to any NG911 PSAP. The SIP conversation proposal is designed to maintain the one (1) administrative line per answering position in the primary PSAP.

- SIP admin lines improve the State’s ability to build service continuity plans that complement the policy-based routing rules of the ESInet. Such as the ability to close a PSAP due to weather, flu outbreak, or other reasons and reroute all calls to alternate locations.
- The aggregate replacement for analog admin lines with SIP admin lines will reduce monthly recurring cost for admin line access circuits at least 40% while delivering higher throughput and efficiency.

AT&T network-based Session Border Controllers (SBCs) can reduce IP-based denial of service (DoS) threats that originate inside or outside the NG911 environment. The SBC provides cybersecurity protection and interoperability with various versions of SIP being used by service providers and enterprises.

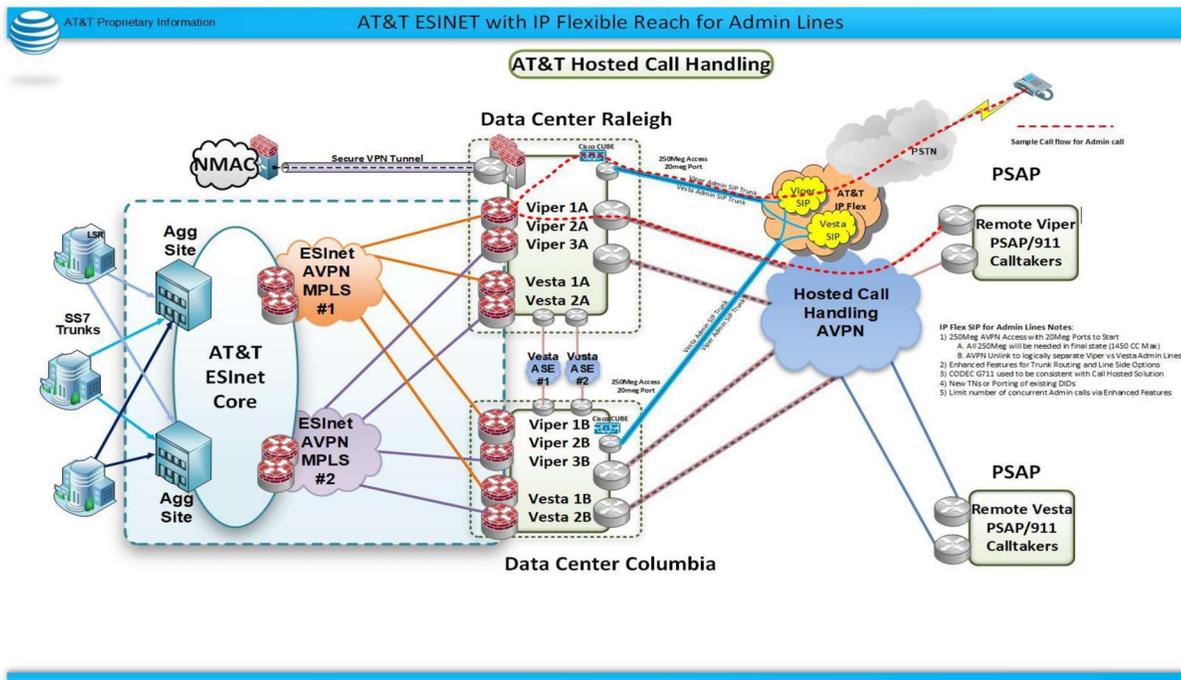
## Cost Elements

SIP Admin lines will require an initial investment of 2-3 months of network service fee charges for ethernet access capacity and SBC access port capacity to establish the service. Once PSAP line numbers are ported, the ongoing monthly charges will also include the charges for CCPs for each PSAP. For purpose of account address, the AT&T Raleigh data center will serve as the address of record for all the SIP admin lines put into service. The service will be registered to the NC 911 Board versus the today’s registration by PSAP

At each AT&T Hosted site data center, a 100MB AVPN circuit will be established for call delivery to the PSAPs. Admin line calls utilizing the SIP admin line service will be transported over the dedicated network infrastructure in the Raleigh and Columbia AT&T data centers for call routing to the hosted call handling infrastructure. Both hosted platforms are supported. Each data center will be provisioned with dedicated SIP access ports residing on a shared session border controller. The SBC ports’ call capacity can be easily increased via a simple service order.

The start-up SBC configuration will utilize two 20MB ports capable of handling well over 200 simultaneous calls. The SBC also performs all security and session management functions. Each PSAP can be assigned a dedicated number range in one or more CO exchanges in their operating area at no additional cost. All on net LD is free and 300 minutes of free off net LD calling is allowed per concurrent call path per month (26,100 monthly).

## Design drawing



## Current PSAP Forecast of Use

Five PSAPs have been provided SIP admin line service documentation and have expressed interest in migrating to SIP admin lines. There is a one-to-one relationship between current admin lines in use and concurrent call paths (CCPs)

PSAP Name	Current ADMIN lines in service	Current Admin Line Cost	SIP CCP / Number Block Size	New CCP Apportioned SIP Cost
PSAP A	32	\$1,960.01 monthly (\$23,520.09 annually, based on FY2019 revenue exp rpt initial submission)	32 / 100	\$ 328.00 M \$3,936.00 A
PSAP B	20	\$1,620.78 monthly (\$19,449.35 annually, based on FY2019 revenue exp rpt submission. Also includes long distance charges in this cost.)	20 / 25	\$ 205.00 M \$2,460.00 A
PSAP C	17	\$675.00 monthly (\$8,100.00 annually based on FY2019 rev exp rpt submission.)	17 / 25	\$ 174.25 M \$2,091.00 A
PSAP D	6	\$229.66 monthly (\$2,755.92 annually based on the FY2019 rev exp rpt submission.)	6/ 50	\$ 61.50 M \$ 738.00 A
PSAP E	12	(Information not available)	12 / 100	\$ 123.00 M \$1,476.00 A
<b>Totals</b>	<b>87</b>	<b>Existing Monthly \$ 4,485.45</b> <b>Existing Annual \$ 53,825.36</b>	<b>87 / 300</b>	<b>New Monthly \$ 891.75</b> <b>New Annual \$ 10,701.00</b>

**Current Policy:** For the one (1) administrative line per answering position in a primary PSAP, the features of caller identification (call ID), three-way calling, call forwarding, multi-line hunt and the cost of long distance charges necessary for reestablishing contact with a 911 caller. **Funding for each administrative line will not exceed \$75.00 unless** prior approval is received from 911 Board (NOTE: In the SIP admin line scenario this policy would still apply. SIP admin line costs are applicable to CALL TAKER POSITIONS ONLY.)

## SIP Admin Line Network Configuration at DIT 725T Contract Pricing

Service	Description	Qty	Monthly Cost each	Extended Mo. Cost
AVPN network access	100M access circuits	2	\$948.50	\$1,897.00
AVPN port	20Meg port with CoS included	2	\$535.50	\$1,071.00

Service	Description	Qty	Monthly Cost each	Extended Mo. Cost
AT&T Managed Router	Ethernet Handoff w/SBC	2	\$408.80	\$ 817.60
Advanced Features	For IP Toll Free	n/a	waived	\$ 0.00
Enhanced Features	For IP Flex Reach	n/a	waived	\$ 0.00
DID numbers (if needed)	DID numbers	any	No charge	\$ 0.00
Advanced 911	Ray Baum Act & Kari's Law compliance (dispatchable location per TN)	600	\$.35	\$ 210.00
Concurrent Call Paths	Calling Plan C (5 PSAPs)	87	<b>Network Monthly</b>	<b>\$ 3,995.60</b>
			\$10.25	\$ 891.75
			<b>Total w/CCPs Monthly</b>	<b>\$ 4,887.35</b>

## Summary of Request

Financially, the additional appropriation of funds in the amount of \$4,822.8 over existing annual expenditures of the five test PSAPs will enable the migration of the five test PSAPs to SIP admin service for 12 months and cover much of the infrastructure cost to enable up to ten (10) additional PSAPs to convert. This calculation is based on the average PSAP having 16 admin lines and the capacity of a 20MB ABC port to handle 238 simultaneous calls. The likelihood is remote that all PSAPs will utilize 100% of the capacity offered by the SIP based system. Given the impact of making a change to SIP, it is prudent to provide the monthly expenditure for the network expenditure to enable the five target PSAPs and additional NG911 PSAPs to port numbers to the new solution. Therefore, the total funding request is as follows:

COST ELEMENT	TIME PERIOD	COST CALCULATION
<b>Additional cost for five pilot PSAPs including infrastructure:</b>	<b>(12) Months</b>	<b>\$ 401.90 x 12 = \$ 4,822.84</b>
	<b>Total Funding Request</b>	<b>\$ 4,822.84</b>
The cost listed below are cost that would enable additional PSAPs beyond the initial five pilot PSAPs to convert to SIP admin lines. The cost reflects worst case because no additional PSAPs have been identified at this time. Therefore, the actual existing costs for legacy admin lines for additional PSAPs are not available to illustrate the cost offset by migrating to SIP admin lines		
COST ELEMENT	TIME PERIOD	COST CALCULATION
Add'l cost for 10 new PSAPs w/16 CCPs each:	(9) Months	10 x 16 x 9 x \$10.25 = \$14,760.00
1 <sup>st</sup> phase Network Infrastructure startup cost: *	(3) Months	\$ 3, 995.60 x 3 = \$11,986.80

Optional Additional Funding Request		\$11,986.80+\$14,760.00 = \$26,746.80
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\*Assumes the five pilot sites would operate and test the environment for 90 days before additional PSAPs would be added.

## Final Conclusions

In contrast, 2019 expenses for legacy admin lines totaled \$344,562 for all PSAPs. With full PSAP participation, the SIP admin solution cost is \$206,539 annually. This represents a **potential cost reduction of \$138,023 per year at current per seat count expenditure levels.**

Operationally, the use of SIP admin lines provides a significant increase of the viability of logic-based continuity planning for the PSAP community. By having admin calls travel the same ESInet path as 911 calls, much of the NG911 contingency and backup planning for PSAPs would apply to both types of calls. Hence admin calls can route across the state and follow the PSAP’s personnel wherever they logically appear on the network. The design also removes the need for onsite gateways resulting in lower NG911 recurring costs.

All in all, the SIP admin lines solution offers significant benefit to the NC PSAP community both in efficiency and reduced cost.

Notes:

**Access circuit(s) 100M. Concurrent Call capacity approximately:** 794 concurrent calls (CCPs) [Note: circuit upsizing requires a service order and circuit buildout.] See notes below table.

**AVPN (SBC) 20M port Concurrent Call capacity:** 158 simultaneous calls [Note: AVPN ports can be upsized or downsized with software configurable settings via service request] See notes below table.

**Long Distance Calling:** Each CCP provides for 300 minutes of off-net (not on the ESInet) long distance calling in the US. Based on 87 CCPs, the five trial PSAPs would have access to 26,100 minutes of free LD each month.

**Future growth:** A 100 MB PSTN access circuit connection using G711 can support 794 CCPs (simultaneous calls) on each connection. Circuit capacities up to 500MB are available. As PSAPs onboard and additional capacity is needed, AT&T can upgrade the 20M AVPN port and increase the number of CCPs thru a MACD process. Once the 100M capacity is reached on the AVPN (SBC) port, a larger access circuit will be needed.

***Tab 7 d)***

**Backup Operations Report**

**Regional Coordinators**

## PSAP BACKUP OPERATIONS

<b>INFORMATION BY REGION</b> <i>as of 08/13/20</i>	<b>EASTERN REGION 34 PSAPs</b>	<b>NORTH CENTRAL REGION 26 PSAPs</b>	<b>SOUTH CENTRAL REGION 28 PSAPS</b>	<b>WESTERN REGION 27 PSAPs</b>	<b>TOTALS</b>
<b>PSAPs with Physical Backup Center</b>	22	19	14	15	<b>70</b>
<b>Seats within the Physical Backup Center</b>	109	132	132	62	<b>430</b>
<b>PSAPs that use a Partner PSAP's Primary for Backup Operations</b>	8	6	13	5	<b>32</b>
<b>Seats at Partner PSAP Primary Center Used for Backup Operations</b>	21	20	47	13	<b>101</b>
<b>Shared Backup Center</b>	1	2	1	0	<b>4</b>
<b>Seats at Shared Backup Center</b>	2	18	6	0	<b>26</b>
<b>PSAPs that Route their Calls to Another Primary - No Seats at the Center</b>	3	2	0	7	<b>12</b>
<b>Backup Centers with 3 or less positions</b>	10	2	1	8	<b>21</b>
<b>Backup Centers with 4 to 8 positions</b>	11	14	9	6	<b>40</b>
<b>Backup Centers with more than 8 positions</b>	1	3	4	1	<b>9</b>
<i>Secondaries are not Included.</i>					

***Tab 7 e)***  
**General Report**

***Tab 8***  
**Finance Team Report**  
**Marsha Tapler/Kristen Falco**

***Tab 9***  
**Grant Committee Report**  
**Jeff Shipp/Pokey Harris**

***Tab 9 a)***  
**2021 Grant Program**  
**Committee Recommendations**  
***(Roll Call Vote Required)***

***Tab 9 b)***  
**General Report**

***Tab 10***

**Standards Committee Report**

**Donna Wright/Tina Gardner**

***Tab 11***

**Technology Committee Report**

**Jeff Shipp/Gerry Means/Stanley Meeks**

***Tab 11 a)***

**CGIA NG911 GIS Update**

**Matt McLamb**

***Tab 11 b)***

**AT&T Project Status Update**

**Pat Thetford**

***Tab 11 c)***

**Frontier Communications**

**Maintenance Outage Report**

**Gerry Means**

***Tab 11 d)***

**General NG 911 Project Report**

**Gerry Means**

***Tab 11 e)***

**NMAC Report**

**Stanley Meeks**

## ***Tab 12***

### **911 Regional Coordinator Reports**

**Stephanie Conner/Tina**

**Gardner/David Newberry/Angie**

**Turbeville**

## ***Tab 13***

### ***Other***

**Pokey Harris**

 **A Fond Farewell to Our Friend  
Ronnie Cashwell  
Comments and Best Wishes  
to be Shared All**

*(Please Also Join Use at 12:30 PM for the Virtual Bon Voyage Party via Teams Meeting)*

## ***Adjourn***

***\*\*\*Please reference the 2020 master calendar and NC 911 Board website for upcoming Committee and Board meetings. Notices will be sent prior to all meetings.\*\*\****

