



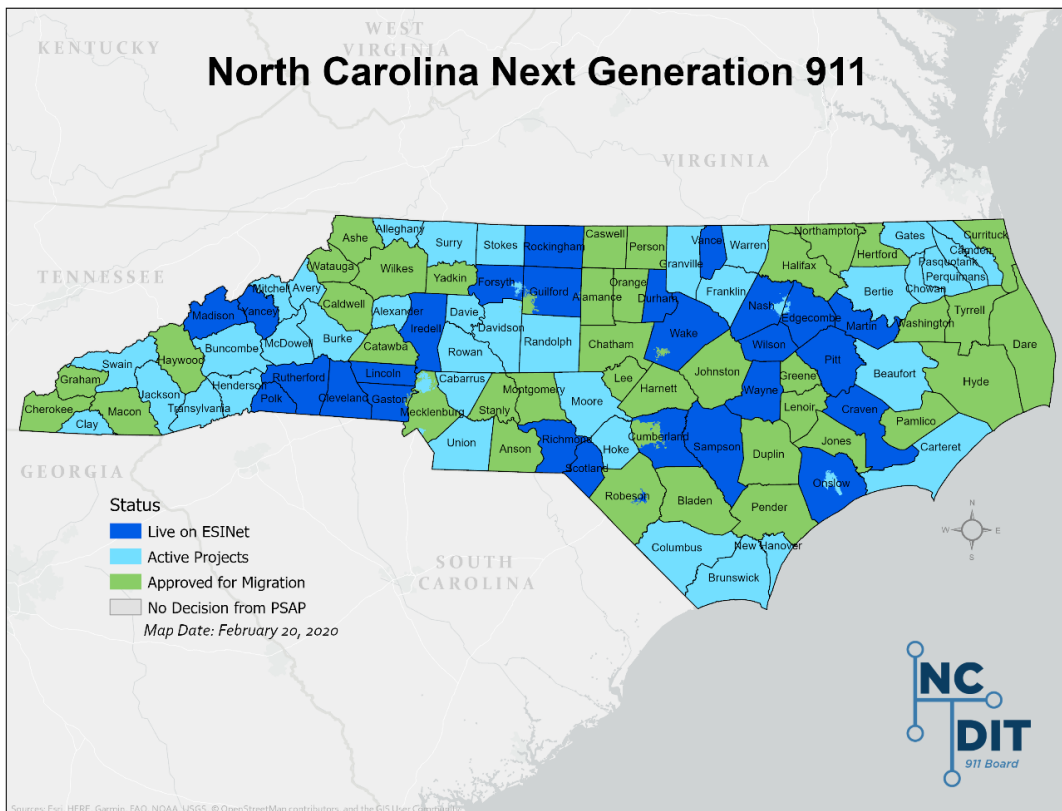
NORTH CAROLINA 911 BOARD MEETING

Friday, February 28, 2020

3514 Bush Street

Raleigh, NC

10:00 AM – Noon



#NexGen911isNowGen911inNC

Call to Order
Donna Wright

Roll Call
***Announcement of Amy Ward's
Resignation from the 911 Board***
Pokey Harris

Tab 1
Vice Chair's Opening Remarks
Donna Wright

Tab 2

Ethics Awareness/Conflict of Interest Statement

Donna Wright

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

Donna Wright

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

(Consent Vote Required)

Tab 4 a)

Minutes of Meeting –

December 6, 2019

North Carolina 911 Board Meeting
MINUTES
Campbell University
School of Osteopathic Medicine
Leon Levine Hall, Medical Science Building
4350 US-421, Lillington NC
Friday, December 6, 2019
1:00 PM – 3:00 PM

<u>Members Present</u>	<u>Staff Present</u>	<u>Guests</u>
Secretary Eric Boyette, (NC CIO) Board Chair	Richard Bradford, (DOJ) NC 911 Board Legal Counsel	Ron Adams, Southern Software
David Bone, (NCACC) Martin County Manager	Ronnie Cashwell, NC DIT/NC 911 Board Staff	Rachel Bello, Wake County
Bo Ferguson, (NCLM) City of Durham	Kristen Falco, DIT/NC 911 Board Staff	Gene Booth, Cumberland County
Greg Foster, (NC Association of Rescue EMS) Alexander County Director of Communications	Tina Gardner, DIT/NC 911 Board Staff	Wayne Coats, Harnett County Sheriff
Stacey Gonyer, (CMRS) Sprint <i>via phone</i>	Pokey Harris, DIT/NC 911 Board Staff	Michael Collier, Pender County Sheriff's Office
J.D. Hartman, (NC Sheriff's Association) Davie County	Gerry Means, NC DIT/NC 911 Board Staff	Jason Compton, Wake County
Buddy Martinette, (NCSFA) Fire Chief, Wilmington	Stanley Meeks, NC DIT/NC 911 Board Staff <i>via phone</i>	Alan Cutler, Pender County Sheriff's Office
John Moore, (VoIP) Spectrum Communications	Don Rice, NC DIT/NC 911 Board Contract Staff	Jackie Ezzell, Pender County Sheriff's Office
Jude O'Sullivan, (CMRS) Carolina West	Marsha Tapler, NC DIT/NC 911 Board Staff	Emily Hughes, DIT
Jeff Shipp, (LEC) Star Telephone	Angie Turbeville, NC DIT/NC 911 Board Staff	Tracy Jackson, Cumberland County
Earl Struble, (CMRS) Verizon Sprint		Adam Johnson, Cumberland County
Amy Ward, (LEC) CenturyLink	<u>Staff Absent</u>	Nicole Meister, DIT
Donna Wright, (NENA) Richmond Co Emergency Services	Chris Carlin, NC DIT/NC 911 Board Staff	Aaron Meredith, Harnett County Sheriff's Office
	James Covington, NC DIT/NC 911 Board Staff	Tammy Myers, Davie County 911
<u>Members Absent</u>	Jesus Lopez, NC DIT/NC 911 Board PM	Melanie Neal, Guilford – Metro 911
Greg Coltrain (LEC) Wilkes Communication Sprint		Niraj Patel, Verizon
Chuck Greene, (LEC) AT&T		Phillip Penny, MCP
Jeff Ledford, (NCACP) City of Shelby PD		Craig Schulz, MCP
		Christy Shearin, Franklin County 911
		Jon Soles, Cumberland County
		Rick Thomas, Town of Apex
		Jennifer Velez, ECaTS
		Mary-Alice Warren, DIT
		Keith Wells, Pender County Sheriff's Office
		Vic Williams, CRS
		Doug Workman, Town of Cary

Call to Order and Roll Call – Chairman Boyette called the meeting to order at 1:00 PM and asked Ms. Harris to proceed with the roll call.

1. Chair’s Opening Remarks – Chairman Boyette welcomed everyone to the meeting and thanked them for their support and taking the time to join. Harnett County Sherriff Wayne Coats welcomed the Board to Harnett County and thanked them for the work they do for the State.

2. Ethics Awareness/Conflict of Interest Statement – Chairman Boyette read the Ethics Awareness/Conflict of Interest statement as referenced in the agenda book.

3. Public Comment – Chairman Boyette extended the invitation for public comment. No one had pre-registered to speak, and no one present or on the phone asked to.

4. Recognition of Outgoing Board Members – On behalf of the 911 Board, Staff and Secretary Boyette, Ms. Harris recognized and thanked outgoing 911 Board members Heather Campbell (2016 – 2019), Eric Cramer (2014 – 2019), Niraj Patel (2017 – 2019) and Mike Reitz (2017 - 2019) for their dedication and service to the citizens of North Carolina and to the NC 911 Board. Mr. Patel was able to join in person, and Ms. Campbell joined by telephone.

5. Consent Agenda – Chairman Boyette asked Ms. Harris to proceed with the consent agenda.

a) Minutes of Previous Meeting – October 25, 2019

b) NG 911 Fund

October 2019 Fund Balance	\$63,999,876
October 2019 Disbursement	-\$27,681

c) CMRS Fund

October 2019 Fund Balance	\$ 8,525,994
October 2019 Disbursement	\$89,750

d) PSAP Fund

October 2019 Fund Balance	\$4,803,755
October 2019 Disbursement	4,209,707

e) Grant Fund

October 2019 Fund Balance	\$9,347,896
October Grant Funds Encumbered	-\$20,664,846

f) Grant Project Updates per Reports

Ms. Wright put forward the motion to accept the consent agenda as presented, with the motion being seconded by Mr. Ferguson and passing unanimously.

6. Executive Director Report

a) NextGen 911 Migration Status – Ms. Harris shared the status map of PSAPs that have migrated to the ESInet. Current stats are 30 PSAPs live with two going online very soon, 40 active projects, 41 approved, and 6 remaining official commitment. At this time, Chairman Boyette noted with the passage of legislation that became SL 2019-200, all PSAPs are required to migrate to the statewide ESInet. Therefore, all PSAP will be considered approved and progressing toward implementation. The status map will be updated to reflect this.

b) NextGen 911 GIS Status – Ms. Harris thanked the CGIA team, GeoComm, and the Regional Coordinators for their efforts in working with the PSAP community to move forward with GIS data being uploaded into DataHub, and for the many informational meetings and work sessions that have been held across the state.

c) NC NG911 and PSAP October & November Statewide Activities – Ms. Harris shared the following information about ESInet migrations. She also introduced Nicole Meister, Mary-Alice Warren and Emily Hughes who work in DIT Communications and Public Relations. They will be helping to publish and release relevant 911 information to the public. Ms. Hughes and Kelly Gardner will also be collaborating with staff to revamp the 911 Board webpage.

- Rockingham County 911 ESInet Migration, 10/22/19 – Rockingham County’s migration took the number of PSAPs to 23 with an overall count of 38 physical locations which include backup facilities. The PSAP is using an on-premise Motorola VESTA call handling solution.
- Edgecombe County 911 ESInet Migration, 10/23/2019 – Edgecombe County 911’s migration to both the ESInet and hosted Viper call handling solution took place on October 23, bringing the project total count to 24 PSAPs and 39 physical locations, which include backup facilities.
- Tarboro PD 911 ESInet Migration, 10/24/2019 –Tarboro PD 911 was successfully cutover to the NC 911 managed service AT&T ESInet and hosted Viper call handling solution at 11:29 EDT on October 24. This brought the count to 25 PSAPs and a total of 40 physical locations that have migrated to the ESInet.
- Currituck County 911, 10/25/2019 – Following the NC 911 Board meeting on Friday, October 25, representatives from Currituck County and the Board participated in a ceremonial PSAP grant signing. Currituck County is one of seven grant recipients of the 2020 PSAP Grant Program with their Public Safety Building Construction Project being awarded \$583,655.
- Cary PD 911, 10/30/2019 – Cary PD 911 was able to answer all their Halloween calls across the NC 911 managed service AT&T ESInet, having successfully cut live on the ESInet and the NC hosted Vesta call handling solution on October 30.
- Sampson County 911, 11/06/2019 – Sampson County 911 migrated to the NC 911 managed service AT&T ESInet and hosted Viper call handling solution on November 6.
- Lincoln County 911, 11/14/2019 – The ribbon cutting for Lincoln County’s new Communications Center was held on November 14. The 7,456 square foot facility and technology, funded in part with a \$2 million dollar award through the PSAP Grant Program, will serve the county’s citizens for many years to come with access to this state-of-the-art 911 facility.
- Rutherford County 911, 11/20/2019 – Rutherford County 911 became PSAP 28 on November 20, to migrate to the NC 911 managed service AT&T ESInet. The PSAP is using an existing on premise geo-diverse Vesta call handling solution.
- Craven County 911, 11/20/2019 – Craven County 911 successfully cutover to the NC 911 managed service ESInet and hosted Viper solution at 1052 hours on November 20.
- New Bern PD 911, 11/20/2019 – The City of New Bern PD 911 successfully cutover to the NC 911 managed service AT&T ESInet and hosted Viper call handling solution at 1450 hours on November 20. This brings the total PSAPs live on the ESInet to 30 PSAP and 48 physical locations including backup facilities.

d) Staffing Update – Ms. Harris and Ms. Gardner are preparing to provide selected candidates for the 911 Regional Coordinator positions to HR to proceed forward in the hiring process. Ms. Harris and Ms. Tapler are going through applications for the second Financial Review Specialist (FRS) position and hope to start interviews in the new year. Ms. Harris has plans to start the hiring process for admin support and is working with HR to create a position description. She also mentioned that Richard Bradford has expended much more than his allocated time of 25% in his capacity as legal counsel for the Board. In concurrence with Secretary Boyette, Mr. Bradford’s time allocation will increase to 50%.

e) Consideration of Nomination for Board Vice Chair – Ms. Harris advised the Vice Chair of the Board will be elected at the February 2020 meeting. Nominations can be provided prior to that meeting if anyone wishes to do so. Ms. Harris thanked current Vice Chair Donna Wright for all she has done for the 911 Board.

7. NC 911 Board Work Session Matters of Consensus for Approval – Ms. Harris stated the work session matters had already been discussed previously during the morning session and are located in the Board packet. She reviewed each item, allowing for the Chairman to call for approval accordingly.

a) NC 911 Board Bylaws – A motion was put forward to approve the NC 911 Board Bylaws as presented, with the motion being seconded and passing unanimously.

b) 2020 NC 911 Board Goals – A motion to approve the 2020 NC 911 Board goals was put forward by Chief Martinette, with the motion being seconded by Ms. Wright and passing unanimously. (The goals denoted below become part of these minutes as reference to the approval action.)

NC 911 Board 2020 Goals

Approved by NC 911 Board, Friday, December 6, 2019

Goal (Per Committee Initiative)	Completion Date
Education	
Complete development of training standards and implementation, in collaboration and consultation with the Standards Committee.	December 31, 2020
Develop an information sharing program to effectively communicate Board and Staff's vision, initiatives and responsibilities for NG911 and other state projects.	Ongoing
Develop processes to ensure the implementation of telecommunicator training and EMD certifications defined in statute 143B-1406(f)(4a) and 143B-1406(f)(5b)(b) for funded PSAPs.	December 31, 2020
Explore the feasibility of expanding Board sponsored training in conjunction with the Community College system.	Ongoing
Funding	
Developing a funding model that takes into consideration the implementation of NextGen 911 technologies.	June 30, 2020
Explore the feasibility of a hosted CAD solution and hosted CAD servers that would be purchased by the NC 911 Board, located at the NC DIT data centers, to assist all PSAPs as they start to migrate to NextGen technologies.	Ongoing
Determine a strategy and develop a policy to address, investigate, and explore options with how to manage excessive PSAP fund balances.	June 30, 2020
Standards	
Review and update potential verbiage of the Rules in order to prepare for the long process of updating them.	Ongoing
Evaluate the newly passed legislation to include the verbiage, if necessary, or if the new language does not require an addition to the rule, establish a policy/procedure to accommodate the new legislation.	Ongoing
Consider how a "checks and balance" would occur if there are new requirements.	Ongoing
Technology	
Develop policy perspectives regarding the impact of NG911 on backup centers in the NextGen environment.	June 30, 2020
Commit to 60 PSAP migrations to the ESInet. Goal is to map a potential conversion plan to meet or exceed the migration goal.	December 31, 2020
Develop policies and rules regarding the implementation of the i3 GIS dataset.	June 30, 2020

c) 2020 NC 911 Board and Committees Meeting Dates – A motion to approve the 2020 NC 911 Board and Committees meeting dates was brought forward by Ms. Ward, with the motion being seconded by Mr. Bone and passing unanimously.

d) 2020/2021 NC 911 Grant Program Priorities – A motion was put forward to approve the 2020/2021 NC 911 Grant Program priorities, with the motion being seconded and passing unanimously.

e) 2020/2021 NC 911 Grant Program Cycle Draft/Tentative Timeline – A motion to approve the 2020/2021 NC 911 Grant Program cycle draft/tentative timeline was brought forward by Ms. Wright, with the motion being seconded by Mr. Shipp and passing unanimously

8. Executive Committee Report – Ms. Wright reported most of the Committee's time this past year was expended working on legislation and the bylaws. She noted the next goal will be to work on long-term strategic planning.

9. Education Committee Report – Ms. Turbeville reported the Committee met via conference call in November. They finished going over the training eligibility list, which has been updated and posted to the

website. They discussed non-traditional training about the Board and staff in the form of a job or informational aid. Such aids will provide information about the Board, its priorities, and other pertinent information that will be placed on the Board's website for access and download. Also, there will be a joint ad hoc committee with Education and Standards to talk about the EMD and training standards. This group will start meeting at the beginning of the new year.

10. Funding Committee Report

a) FY2021 PSAP Estimated Funding Distribution – The only item the Funding Committee put forth as a recommendation was the FY2021 PSAP estimated funding distribution. Mr. Bone reminded everyone these are estimates. The 911 Board is required to provide such estimates to the PSAPs for budgetary forecasting and preparations. The final distribution numbers will be distributed in May. If any adjustments are necessary, there is time between December and May to do so. Staff's estimated funding distribution for FY2021 was unanimously approved at the last meeting of the Funding Committee and was presented to the Board as a motion. Mr. Bone then asked Ms. Tapler to present the estimated funding distribution amounts. Coming from the Funding Committee as a recommendation for approval, the motion passed unanimously.

b) General Report – Mr. Bone advised there were no other items to report.

11. Finance Team Report

a) ECaTS Contract Approval – Ms. Tapler reported the ECaTS contract runs between fiscal years. When the Board budgeted last fiscal year for the statewide grants, ECaTS was not included. Ms. Tapler explained that the contract needs to be approved for another year to maintain the MIS call reporting system that is used for the statewide project. An additional staffing module is also being requested. This will assist the staff and Board in making determinations regarding increased seat count requests from PSAPs now that the Base Seat Count Policy and Overflow Seat Count Policy are in place. The contract for the MIS call reporting system, which will also include texting, Viper and firewall will be done as a tier, based on call volume. The total contract is \$1,089,825.58 and the additional module is \$100,280. Ms. Harris pointed out this would normally go to the Grant Committee first, but due to timing it is being brought directly to the Board. A request for vote was brought forward by Staff, who recommends the contract and module be approved. A motion to approve was brought forward by Ms. Wright, with the motion being seconded and passing unanimously.

b) General Report – Ms. Falco gave an update on what the Finance Team has been working on the past month. They have visited several PSAPs to work on Revenue Expenditure Reports. They have plans to meet with another 20 PSAPs before the end of the year.

12. Grant Committee Report

a) Iredell County 911 Grant Award Expend Remainder Approval – Mr. Shipp reported Iredell County requested to use remaining grant funding of \$411,996.53. He advised the Grant Committee is recommending to fund the requested items of fiber, Motorola Channel Bank, and wireless access points, for a total of \$152,734.30. The Committee decided to not fund the other items based on two factors. These being any item that is eligible for funding would not be considered (e.g. workstations), and any item that the Grant Committee specifically chose to not fund originally. Coming from the Grant Committee as a recommendation to approve funding in the amount of \$152,734.30, the motion passed unanimously.

b) General Report – Mr. Shipp noted moving forward the priority for the Grant Committee is the 2020/2021 grant cycle, referencing the previously approved tentative grant cycle calendar.

13. Standards Committee Report – Ms. Wright advised the upcoming focus of the Standards Committee will be to align policies and procedures with the newest legislation. She also referenced the ad hoc committee Ms. Turbeville previously mentioned that will bring together the Standards and Education Committees to review EMD and training standards.

14. Technology Committee Report – Mr. Shipp congratulated staff on their successful migrations of PSAPs over the last year. Mr. Means gave an update on the status of migration to the ESInet. They are closing out the year with 32 PSAPs live on the ESInet which is the 25% migration goal the Board had set for calendar year 2019. There are 23 PSAPs scheduled for migration in the first quarter of 2020. Four PSAPs are currently i3 compliant. The NMAC has an additional Tier 1 technician starting in the next week, and they have published the PSAP handbook, a policy and procedures document that defines the roles of the NMAC, AT&T, and the PSAPs. There has also been significant progress on the CRM project,

particularly for the ticketing system for the NMAC. The Technology Committee reviewed bids received for the cybersecurity assessment project and is beginning negotiations with two finalists.

15. 911 Regional Coordinator Reports – The 911 Regional Coordinators made 10 PSAP site visits over the last few weeks and coordinated 4 GIS meetings with the CGIA team. Two additional meetings are planned soon.

16. Other – Chairman Boyette offered condolences to Staff member Stanley Meeks for the recent passing of his father.

Ms. Harris reminded everyone that logistics for upcoming Board and Committee meetings are underway. Details will be provided by e-mail and posted to the website.

Adjourn – Chairman Boyette adjourned the meeting at 1:49 PM.

DRAFT

Tab 4 b – e)

b) NG 911 Financial Reporting

November 2019 Month-End Balance \$64,762,505

November 2019 Disbursement \$483,975.31

December 2019 Month-End Balance \$65,967,702

December 2019 Disbursement \$86,813

January 2020 Month-End Balance \$67,238,903

January 2020 Disbursement \$53,423

c) CMRS Financial Reporting

November 2019 Month-End Balance \$6,147,194

November 2019 Disbursement \$213,308

December 2019 Month-End Balance \$6,740,889

December 2019 Disbursement \$0

January 2020 Month-End Balance \$7,175,014

January 2020 Disbursement \$149,594

d) PSAP Financial Reporting

November 2019 Month-End Balance \$6,143,504

November 2019 Disbursement \$4,209,707

December 2019 Month-End Balance \$7,685,922

December 2019 Disbursement \$4,209,707

January 2020 Month-End Balance \$9,409,972

January 2020 Disbursement \$4,209,707

e) Grant Statewide/PSAP Financial Reporting

November 2019 Month-End Balance \$7,469,838

November 2019 Month-End Encumbered \$22,862,117

December 2019 Month-End Balance \$7,519,040

December 2019 Month-End Encumbered \$22,371,993

January 2020 Month-End Balance \$7,567,644

January 2020 Month-End Encumbered \$21,941,226

NG 911 FUND

FY2020 beginning Fund Balance:	\$44,749,221.82						
	July 2019	August 2019	September 2019	October 2019	November 2019	December 2019	January 2020
Revenue	\$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
Interest allocation	\$75,178.79	\$78,596.00	\$108,991.56	\$101,651.90	\$108,419.48	\$105,053.85	\$106,071.96
Grant Fund Transfer-IN		\$16,162,172.00	\$0.00				
NG 911 Disbursement	-\$21,085.01	-\$687,515.79	-\$108,831.74	-\$27,680.92	-\$483,975.31	-\$86,813.29	-\$53,423.60
NG 911 Fund Balance	\$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

CMRS FUND

FY2020 beginning Fund Balance:	\$7,170,087.41						
	July 2019	August 2019	September 2019	October 2019	November 2019	December 2019	January 2020
CMRS Revenue	\$640,474.96	\$624,531.55	\$610,275.75	\$544,846.45	\$524,639.06	\$583,723.66	\$572,880.09
Interest allocation	\$12,045.76	\$13,263.93	\$8,481.51	\$8,683.72	\$9,869.57	\$9,971.61	\$10,838.93
Grant Fund Transfer-OUT		-\$3,000,000.00					
CMRS Disbursement	-\$137,613.04	-\$500,809.07	-\$78,524.26	-\$89,750.24	-\$213,308.42	\$0.00	-\$149,594.37
CMRS Fund Balance	\$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

PSAP FUND

FY2020 beginning Fund Balance:	\$20,324,987.06						
	July 2019	August 2019	September 2019	October 2019	November 2019	December 2019	January 2020
PSAP Revenue	\$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
Wireline Revenue	\$651,001.04	\$763,761.15	\$879,875.62	\$635,037.11	\$591,475.12	\$595,066.30	\$651,442.82
VOIP Revenue	\$456,928.78	\$1,779,813.51	\$1,089,001.59	\$958,352.07	\$1,001,973.89	\$975,367.60	\$962,702.90
Prepaid Wireless Revenue	\$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
Interest allocation	\$34,146.02	\$37,814.50	\$2,148.12	\$5,495.85	\$8,137.84	\$9,965.62	\$12,358.49
Subtotal	\$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
Grant Fund Transfer-OUT		-\$23,677,269.00					
PSAP Distribution	-\$4,353,456.68	-\$4,209,706.59	-\$4,394,082.08	-\$4,209,706.59	-\$4,209,706.59	-\$4,209,706.59	-\$4,209,706.59
PSAP Fund Balance	\$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

OSC Certified through December
Cash Basis

PSAP Grant-Statewide 911 Projects Fund

		Total Disbursed								Remaining
		YTD	Jul-19	Aug-19	Sep-19	Oct-19	Nov-19	Dec-19	Jan-20	Expenditures
										Grant Balance
		\$23,414,561.43	\$23,038,414.95	\$32,825,508.31	\$30,397,544.51	\$30,012,741.54	\$30,331,955.29	\$29,891,033.45		
FY2016	Award Amount									
Graham County G2016-01 (039)	3,401,528.00	-2,619,530.85							-245,390.45	536,606.70
FY2017	Award Amount									
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	462,469.77
Pasquotank G2017-11 (051)	1,010,779.00	-856,567.83	-73,210.00							81,001.17
FY2018	Award Amount									
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								423,949.51
FY2019	Award Amount									
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								1,530,693.00
Rutherford G2019-05 (071)	1,161,548.00	0.00				-505,062.41				656,485.59
FY2020										
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
STATEWIDE PROJECTS:	Award Amount									
E-CATS II (012)	1,458,380.00	-252,120.00	-252,120.00							954,140.00
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	160,652.44
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	713,412.95
Ortho Project III Image 20 (073)	4,108,739.00	0.00					-18,816.00	-34,245.58	-6,237.63	4,049,439.79
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	182,024.65
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	
Revenue 5%						327,438.46	322,485.81	336,304.24	345,256.65	
Total Ending Fund Balance		\$23,414,561.43	\$23,038,414.95	\$32,825,508.31	\$30,397,544.51	\$30,012,741.54	\$30,331,955.29	\$29,891,033.45	\$29,508,870.48	

Committed:
Grant Fund Total

\$ 21,941,226.04
\$7,567,644.44 **

CASH BASIS REPORTING
OSC Certified

**Halifax declined awarded grant funds.

Tab 4 f)

**Grant Project Updates per
Reports**

Tab 4 f i)

Monthly Reports per PSAP

Tab 4 f ii)

**Pasquotank County
Grant Extension Request**



Chatham County Emergency Communications

297 West Street • Pittsboro, NC 27312

Office 919.545.8163
24-hour Warning Point 919.542.2911
www.chathamnc.org

January 9, 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:

As of January 1, 2020, Chatham County does not have anything to report regarding the radio system upgrade project for which grant funds will be expended.

Regards:

A handwritten signature in black ink, appearing to read 'Mike Reitz', is written over a faint, larger version of the same signature.

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

February 3, 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:

During the month of January 2020, myself and the Motorola project team have attended a pre-application meeting with the Chatham County Planning Department, along with other county departments, to begin discussions on permitting the new towers for our radio system project. We have also been working to refine the system design, finalizing site plans and construction drawings for the towers. No grant funds have been expended for this project as of this date.

Regards:

Mike Reitz

Director

Project Status: Davie County End-of-Life CAD System Replacement

January 23, 2020

The new CAD system project is more than 1/3 complete. The business practice review and initial configuration is nearly complete and we are nearing completion of the GIS/mapping portion of the project. The new mapping was January 21 and we will be testing the integration with CAD through simulated calls. In contrast with most other organizations our size, our existing GIS data and configuration has moved seamlessly into the new CAD system with no major changes needed to use the data. The departments are working with the software to continue testing and making additional changes as new features are developed. Copies of our existing CAD and Records databases have been delivered to Zuercher for their review and preparation for data conversion so that we can have access to historical information. Over the next 2 to 3 months, we will begin testing the data conversion and also working on the various interfaces like Firehouse, ESO, SBI/DCI, etc. To date since September 4, this project has involved over 50 meetings and hundreds of hours of County staff time with systems configuration, business practice review, software setup and testing. The Zuercher implementation team and the Zuercher project manager have remarked on several occasions that our project is moving along a lot faster than most other agencies they work with and we are making excellent progress. We have not missed a single deadline or caused any delays developing the new system. The next large phase of the project is data conversion along with continued testing and configuration. User training will begin in June and run into mid-July. Go Live is planned for August.

October 25, 2019

The Zuercher Software project is well underway. Technology Solutions staff have been hard at work setting up servers and building the network needed to support the new system. To prepare for this week, Technology Solutions Staff setup a Business Practice Review computer lab at the 911 Center training room which allowed 911 Communications, Sheriff, EMS and Mocksville PD to participate in the week's activities. Zuercher staff, including our Project Manager and 2 Business Analysts, were onsite at Davie County during the week. The week consisted of 4 days of intense review and system setup where each department made decisions on how the system should work, got a first look at the software, and learned of many new ways that their day to day work will be improved while providing service to the public. There was a lot of excitement and energy from the department personnel as they were able to see how this new system will greatly improve operations and streamline processes within their own department and between other departments. The next phase of the project involves 6 weeks of continuing setup, process review and system configuration. The project build team, which has staff from each department, has the new software on their individual computer and will be assigned work tasks by Zuercher to complete the initial system setup over the next 6 weeks. We have sent copies of the existing databases to Zuercher for the data conversion including GIS information for the map setup. Overall, the start of the project has been very productive and the departments are ready to move forward to the next phase. The project is on time, within budget, and is meeting expectations for the new software.

Milestone	Owner	Start Date	End Date	Total Days	Signed Doc needed	Notes
County of Davie Project Timeline		08/06/2019	08/06/2020	367		
Kickoff Call	Zuercher/County of Davie	09/04/2019	09/04/2019	1	Y	Kickoff Verification Doc
Infrastructure (Server)	Zuercher/County of Davie	08/06/2019	10/18/2019	74	Y	Server, connection, and set up
BPR Date	Zuercher/County of Davie	10/21/2019	10/24/2019	4	Y	BPR Agenda will be provided
GIS	Zuercher/County of Davie	12/23/2019	01/17/2020	26		
Configuration	Zuercher/County of Davie	10/21/2019	01/20/2020	92		Configuration Guide will be provided
System Review	Zuercher/County of Davie	01/21/2020	02/28/2020	39	Y	Full Review of Configuration done with the BA Team
Data Conversion Walk through's	Zuercher/County of Davie	04/27/2020	05/17/2020	21	Y	Scope Documents to start Data Conversion
Data Conversion Mappings	County of Davie	05/17/2020	07/26/2020	71		
Data Conversion Review	County of Davie	05/25/2020	07/26/2020	63		
Interface Configuration & Testing	Zuercher/County of Davie	06/01/2020	07/31/2020	61		
Training - Train the End User	Zuercher	06/22/2020	07/24/2020	33	Y	Training Agenda will be provided
Go Live	Zuercher/County of Davie	08/05/2020	08/06/2020	2	Y	GO Live Schedule will be provided
Post Go Live Follow up/Transition	Zuercher/County of Davie	08/07/2020	08/28/2020	22		

8/1/19

Project Timeline

9/20/19

11/9/19

12/15/19

2/17/20

4/7/20

5/27/20

7/16/20

9/4/20

367

1

74

4

26

92

39

21

71

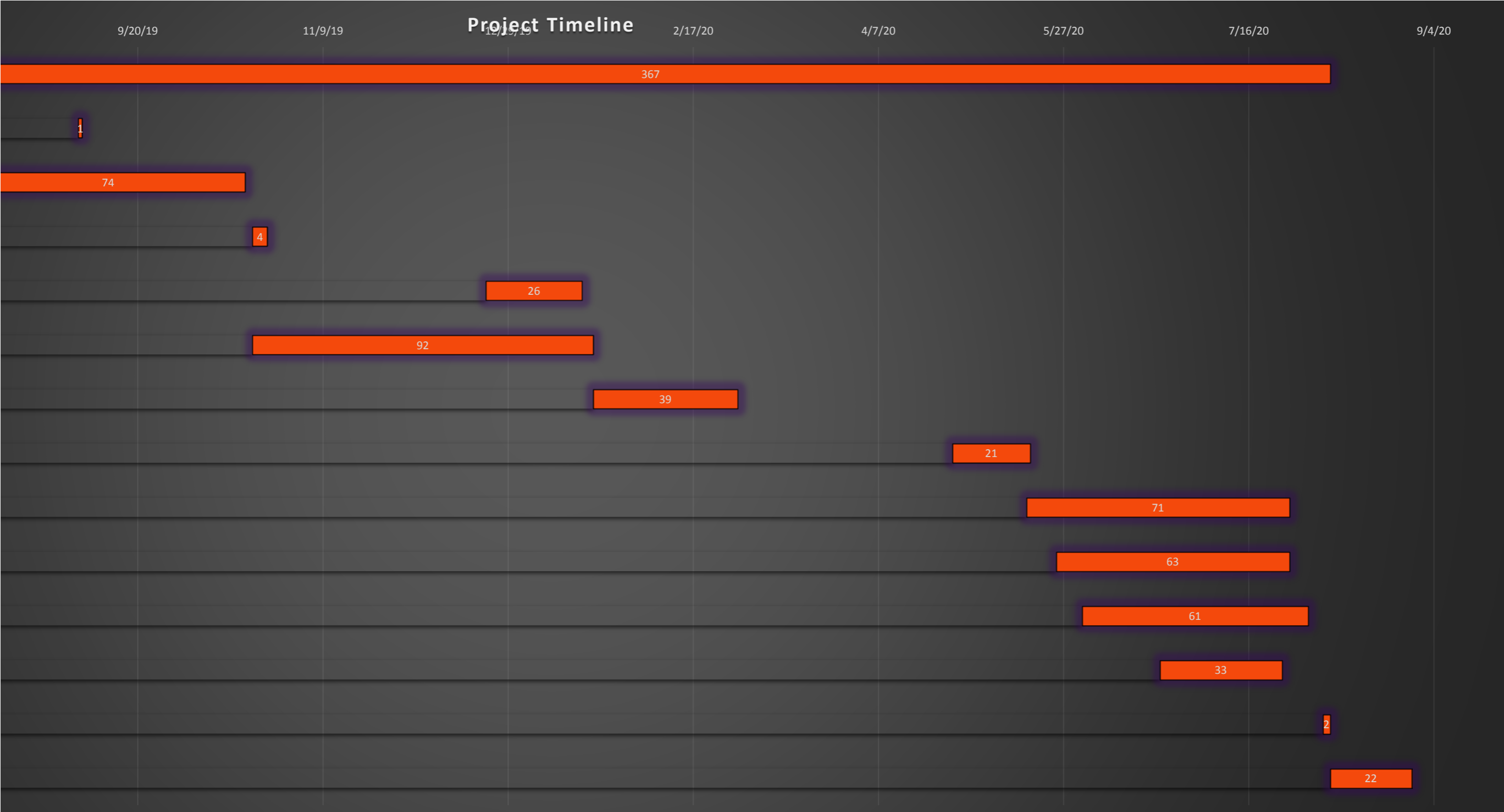
63

61

33

2

22





Franklin County, NC Grant Report – November 2019

Activities – November 2019

- Held project kick-off meeting with Franklin County team and Mission Critical Partners
- Prepared request for qualifications (RFQ) for architectural/engineering services
- Participated in site walk of land identified for project

Anticipated Activities – December 2019

- Receive request for qualifications (RFQ) for architectural/engineering services
- Review RFQ responses, identifying top contenders
- Decide on next steps to make a decision on the design team
- Prepare recommendation for County Commissioners for architect selection
- Prepare revised budget and schedule for NC 911 Board, if applicable
- Track project budget expenditures (on-going)
- Communicate regularly with project team (on-going)



Franklin County, NC Grant Report – December 2019

Activities – December 2019

- Released request for qualifications (RFQ) for architectural/engineering services
- Submitted revised workplan to North Carolina 911 Board

Anticipated Activities – January 2020

- Receive architectural/engineering services RFQ responses – January 15
- Open RFQ responses – January 16
- Review and score RFQ responses – January 17–26
- Determine shortlist of architectural firms – January 27
- Track project budget expenditures (ongoing)
- Communicate regularly with project team (ongoing)



Franklin County, NC Grant Report – January 2020

Activities – January 2020

- Prepared RFQ scoring spreadsheet
- Received architectural/engineering services RFQ responses – January 15
- Opened RFQ responses – January 16
- Reviewed RFQ scoring spreadsheet with project team – January 16
- Evaluated RFQ responses – January 17–29
- Determined shortlist of three architectural firms – January 30

Anticipated Activities – February 2020

- Hold architect shortlist presentations – February 11
- Request permission from Commissioners to negotiate with selected architectural firm
- Negotiate fee with selected architectural firm
- Communicate regularly with project team (ongoing)

Greene County, NC

911 Facility Relocation

MCP Project Number 18-128

Monthly Progress Report – November, 2019

Activity	This Period	Next Period
1. Design	<ul style="list-style-type: none"> Release and receive responses to a Request For Qualifications (RFQ) Evaluate RFQ responses Select design team and negotiate contract 	<ul style="list-style-type: none"> Finalize contract with design team Hold project kick-off meeting
2. Permits	<ul style="list-style-type: none"> None in this period 	<ul style="list-style-type: none"> None expected in this period
3. Construction	<ul style="list-style-type: none"> None in this period 	<ul style="list-style-type: none"> None expected in this period
4. Communications Systems	<ul style="list-style-type: none"> None expected in this period 	<ul style="list-style-type: none"> None expected in this period
5. Other Activity	<ul style="list-style-type: none"> Held routine project status meetings with Mission Critical Partners 	<ul style="list-style-type: none"> Continue to participate in routine project planning and working meetings to facilitate the next steps of the project

Greene County, NC

911 Facility Relocation

MCP Project Number 18-128

Monthly Progress Report – December, 2019

Activity	This Period	Next Period
1. Design	<ul style="list-style-type: none"> Released and received responses to a Request For Qualifications (RFQ) Evaluated RFQ responses Selected design team and negotiated contract MCP held Q&A with selected design team 	<ul style="list-style-type: none"> Finalize contract with design team. Hold project kick-off meeting
2. Permits	<ul style="list-style-type: none"> None in this period 	<ul style="list-style-type: none"> None expected in this period
3. Construction	<ul style="list-style-type: none"> None in this period 	<ul style="list-style-type: none"> None expected in this period
4. Communications Systems	<ul style="list-style-type: none"> None expected in this period 	<ul style="list-style-type: none"> None expected in this period
5. Other Activity	<ul style="list-style-type: none"> Held routine project status meetings with Mission Critical Partners 	<ul style="list-style-type: none"> Continue to participate in routine project planning and working meetings to facilitate the next steps of the project.

Greene County, NC

911 Facility Relocation

MCP Project Number 18-128

Monthly Progress Report – January, 2020

Activity	This Period	Next Period
1. Design	<ul style="list-style-type: none"> Select and begin discussion with design team 	<ul style="list-style-type: none"> Hold project kick-off meeting Begin specific design elements
2. Permits	<ul style="list-style-type: none"> None in this period 	<ul style="list-style-type: none"> None expected in this period
3. Construction	<ul style="list-style-type: none"> None in this period 	<ul style="list-style-type: none"> None expected in this period
4. Communications Systems	<ul style="list-style-type: none"> None expected in this period 	<ul style="list-style-type: none"> None expected in this period
5. Other Activity	<ul style="list-style-type: none"> None 	<ul style="list-style-type: none"> Continue to participate in routine project planning and working meetings to facilitate the next steps of the project.



Iredell County PSAP Enhancement and Regional Backup Initiative

PSAP Grant Project

MCP Project Number 16-114

Monthly Progress Report – November, 2019

Activity	This Period	Next Period
1. Design	<ul style="list-style-type: none"> No actions required 	<ul style="list-style-type: none"> No actions expected
2. Permits	<ul style="list-style-type: none"> No actions required 	<ul style="list-style-type: none"> No actions expected
3. Construction	<ul style="list-style-type: none"> No action required 	<ul style="list-style-type: none"> No actions expected
4. Communications Systems	<ul style="list-style-type: none"> Continued biweekly meetings with AT&T – Text-to-911 Finalized Audio Visual System Internal coordination meetings on punch list items Continued work on radio system and console systems 	<ul style="list-style-type: none"> No actions expected
5. Other Activity	<ul style="list-style-type: none"> MCP continued biweekly project meetings with the client Continued discussions on grant reimbursement 	<ul style="list-style-type: none"> Await final grant reimbursement decision Finalize and close-out grant



Iredell County PSAP Enhancement and Regional Backup Initiative

PSAP Grant Project

MCP Project Number 16-114

Monthly Progress Report – December, 2019

Activity	This Period	Next Period
1. Design	<ul style="list-style-type: none"> No actions required 	<ul style="list-style-type: none"> No actions expected
2. Permits	<ul style="list-style-type: none"> No actions required 	<ul style="list-style-type: none"> No actions expected
3. Construction	<ul style="list-style-type: none"> No action required 	<ul style="list-style-type: none"> No actions expected
4. Communications Systems	<ul style="list-style-type: none"> Continued biweekly meetings with AT&T – Text-2-911 Cutover to Text-2-911 Continued work on radio system 	<ul style="list-style-type: none"> No actions expected
5. Other Activity	<ul style="list-style-type: none"> MCP continued biweekly project meetings with the client Continued discussions on grant reimbursement Received final grant reimbursement decision 	<ul style="list-style-type: none"> Finalize and close-out grant



Iredell County PSAP Enhancement and Regional Backup Initiative

PSAP Grant Project

MCP Project Number 16-114

Monthly Progress Report – January, 2020

Activity	This Period	Next Period
1. Design	<ul style="list-style-type: none">• No actions required	<ul style="list-style-type: none">• No actions expected
2. Permits	<ul style="list-style-type: none">• No actions required	<ul style="list-style-type: none">• No actions expected
3. Construction	<ul style="list-style-type: none">• No action required	<ul style="list-style-type: none">• No actions expected
4. Communications Systems	<ul style="list-style-type: none">• No action required	<ul style="list-style-type: none">• No actions expected
5. Other Activity	<ul style="list-style-type: none">• Finalize grant reimbursements	<ul style="list-style-type: none">• Finalize and close-out grant

Lincoln County PSAP, NC

PSAP Grant Project

MCP Project Number 17-125

Monthly Progress Report – November, 2019

Activity	This Period	Next Period
1. Design	<ul style="list-style-type: none"> No actions required 	<ul style="list-style-type: none"> No actions expected
2. Permits	<ul style="list-style-type: none"> No actions required 	<ul style="list-style-type: none"> No actions expected
3. Construction	<ul style="list-style-type: none"> Finalize owner manuals, as-builts and warranty information Finalize punch list items 	<ul style="list-style-type: none"> No actions expected
4. Communications Systems	<ul style="list-style-type: none"> Participate in AT&T project status calls Finalize installation of radio antenna systems 	<ul style="list-style-type: none"> Continue to participate in biweekly AT&T project meetings Finalize punch list items
5. Other Activity	<ul style="list-style-type: none"> MCP held as-needed project meetings with the client 	<ul style="list-style-type: none"> Prepare for grant close-out

Martin County PSAP and Regional Backup Facility, NC

PSAP Consolidation Project – Phase II – Grant Project
 Monthly Progress Report – November 2019

MCP Project Number 16-184

Activity	This Period	Next Period
1. Design	<ul style="list-style-type: none"> No action required 	<ul style="list-style-type: none"> No action expected
2. Permits	<ul style="list-style-type: none"> No additional permits required 	<ul style="list-style-type: none"> No additional permits required
3. Construction	<ul style="list-style-type: none"> Continue to work through punch list items Finalize chemical suppression system 	<ul style="list-style-type: none"> Receive final owner manuals and warranty information
4. Communications Systems	<ul style="list-style-type: none"> Continue biweekly meetings with AT&T on hosted call handling Continue working with Bertie County technology needs Continue working on punch list for audio visual system 	<ul style="list-style-type: none"> Continue coordination with Bertie and Pasquotank on facility / technology needs Finalize punch list for technology
5. Other Activity	<ul style="list-style-type: none"> MCP conducted periodic conference calls with the clients 	<ul style="list-style-type: none"> MCP will participate in as-needed project team meetings with the clients



Martin County PSAP and Regional Backup Facility, NC

PSAP Consolidation Project – Phase II – Grant Project
 Monthly Progress Report – December 2019

MCP Project Number 16-184

Activity	This Period	Next Period
1. Design	<ul style="list-style-type: none"> No action required 	<ul style="list-style-type: none"> No action expected
2. Permits	<ul style="list-style-type: none"> No additional permits required 	<ul style="list-style-type: none"> No additional permits required
3. Construction	<ul style="list-style-type: none"> Continued to track final items with the facility Worked with vendors on minor water leaks 	<ul style="list-style-type: none"> Receive final owner manuals and warranty information
4. Communications Systems	<ul style="list-style-type: none"> Continued working with Bertie County technology needs Continued working on punch list for audio visual system On-site meeting with audio visual vendor 	<ul style="list-style-type: none"> Continue coordination with Bertie and Pasquotank on facility / technology needs Finalize punch list for technology
5. Other Activity	<ul style="list-style-type: none"> MCP conducted periodic conference calls with the clients 	<ul style="list-style-type: none"> MCP will participate in as-needed project team meetings with the clients



Martin County PSAP and Regional Backup Facility, NC

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

MCP Project Number 16-184

Activity	This Period	Next Period
1. Design	<ul style="list-style-type: none"> No action required 	<ul style="list-style-type: none"> No action expected
2. Permits	<ul style="list-style-type: none"> No additional permits required 	<ul style="list-style-type: none"> No additional permits required
3. Construction	<ul style="list-style-type: none"> Continue to track final items with the facility Work with vendors on minor water leaks 	<ul style="list-style-type: none"> Receive final owner manuals and warranty information
4. Communications Systems	<ul style="list-style-type: none"> Continue working with Bertie County technology needs Continue working on punch list for audio visual system 	<ul style="list-style-type: none"> Continue coordination with Bertie and Pasquotank on facility / technology needs Finalize punch list for technology
5. Other Activity	<ul style="list-style-type: none"> MCP conducted periodic conference calls with the clients 	<ul style="list-style-type: none"> MCP will participate in as-needed project team meetings with the clients

Mitchell County, NC

PSAP Construction and Regional Backup
 Monthly Progress Report – November 2019

MCP Project Number 16-173

Activity	This Period	Next Period
1. Design	<ul style="list-style-type: none"> N/A 	<ul style="list-style-type: none"> No further activity
2. Permits	<ul style="list-style-type: none"> N/A 	<ul style="list-style-type: none"> No further activity
3. Construction	<ul style="list-style-type: none"> Installed foundation for radio tower Installed additional conduits to radio tower Designed and installed RF cable management on exterior of facility Finalized data cabling for wireless access points Held meeting to discuss grading remediation Performed final cleaning and punch list corrections 	<ul style="list-style-type: none"> Final punch list Conduct site review(s) (ongoing)
4. Communications Systems	<ul style="list-style-type: none"> Installed AT&T call handling equipment in data center Finalized AT&T call-handling Began testing AT&T call-handling equipment Finalized 10-digit circuit installation Installed radio consoles Finalized radio infrastructure in back room Installed and tested internet connectivity Prepared for tower and antenna installation Finished monitor setup 	<ul style="list-style-type: none"> Finalize testing of AT&T call handling equipment in center Install remaining radio infrastructure Receive and stack tower Finalize grounding of racks and data center equipment Procure network equipment for data center

Activity	This Period	Next Period
5. Other Activity	<ul style="list-style-type: none"> • Continued to track grant spending • Updated budget tracking spreadsheet • Ordered additional office items • Purchased ancillary items for facility 	<ul style="list-style-type: none"> • Regular communications with project team, as needed • Track grant budget (ongoing) • Hold status meeting between County and MCP

Mitchell County, NC

PSAP Construction and Regional Backup
 Monthly Progress Report – December 2019

MCP Project Number 16-173

Activity	This Period	Next Period
1. Design	<ul style="list-style-type: none"> N/A 	<ul style="list-style-type: none"> No further activity
2. Permits	<ul style="list-style-type: none"> N/A 	<ul style="list-style-type: none"> No further activity
3. Construction	<ul style="list-style-type: none"> Installed exterior ladder rack Connected tower to ground ring 	<ul style="list-style-type: none"> Conduct punch list review Conduct site review(s) (ongoing)
4. Communications Systems	<ul style="list-style-type: none"> Erected tower Procured network equipment for data center 	<ul style="list-style-type: none"> Install remaining radio infrastructure, including antennas Finalize grounding of racks and data center equipment Continue installation of network equipment
5. Other Activity	<ul style="list-style-type: none"> Continued to track grant spending Updated budget tracking spreadsheet Met with new county manager for project status update 	<ul style="list-style-type: none"> Regular communications with project team, as needed Track grant budget (ongoing)

Cutover to the new facility was slated for January 7, 2020. Due to grading deficiencies at the site and other civil engineering work, the County will not issue a certificate of occupancy (CO) for the new public safety answering point (PSAP) until the work is complete in the spring. In addition, the radio infrastructure is not complete. As such, the cutover has been pushed out. The decision was also made to cutover Mitchell County 911 as i3. When a new cutover date has been established, it will be reported herein.

Mitchell County, NC

PSAP Construction and Regional Backup
 Monthly Progress Report – January 2020

MCP Project Number 16-173

Activity	This Period	Next Period
1. Design	<ul style="list-style-type: none"> N/A 	<ul style="list-style-type: none"> No further activity
2. Permits	<ul style="list-style-type: none"> N/A 	<ul style="list-style-type: none"> No further activity
3. Construction	<ul style="list-style-type: none"> Conducted punch list review Began remediation of punch list items 	<ul style="list-style-type: none"> Remediate punch list items Begin civil engineering work, weather-dependent Conduct site review
4. Communications Systems	<ul style="list-style-type: none"> Installed remaining radio infrastructure, including antennas Finalized grounding of racks and data center equipment Completed second 10 Mb circuit and AVPN Completed 10 Mb circuit and AVPN for backup site Completed wide area network (WAN) Tested AVPN WAN and local area network (LAN) Pulled and terminated cable for administrative lines 	<ul style="list-style-type: none"> Continue installation of network equipment Test AVPN WANs and LANs
5. Other Activity	<ul style="list-style-type: none"> Continued to track grant spending Updated budget tracking spreadsheet 	<ul style="list-style-type: none"> Regular communications with project team, as needed Track grant budget (ongoing)

Due to grading deficiencies at the site and other civil engineering work, the County will not issue a certificate of occupancy (CO) for the new public safety answering point (PSAP) until the work is complete in the spring. A cutover date is dependent on the civil engineering work and AT&T's availability. The decision was also made to cutover Mitchell County 911 as i3. When a new cutover date has been established, it will be reported herein.

Pasquotank County PSAP, NC

PSAP Consolidation Project

MCP Project Number 16-185

Monthly Progress Report – November, 2019

Activity	This Period	Next Period
1. Design	<ul style="list-style-type: none"> No action required 	<ul style="list-style-type: none"> No action expected
2. Permits	<ul style="list-style-type: none"> No action 	<ul style="list-style-type: none"> No action
3. Construction	<ul style="list-style-type: none"> Continue to work through punch list items Finalize chemical suppression system 	<ul style="list-style-type: none"> Receive final owner manuals and warranty information
4. Communications Systems	<ul style="list-style-type: none"> Continue biweekly meetings with AT&T on hosted call handling Continue coordination of admin lines and data circuits for Martin Backup facility Continue discussions on migration of equipment to new backup site Finalize and begin testing radio paging system Evaluate radio console upgrades 	<ul style="list-style-type: none"> Continue biweekly coordination calls with AT&T Continue to participate in equipment migration planning and documentation Finalize the testing and punch-list of the radio paging system Continue to evaluate needs at the Martin Backup facility
5. Other Activity	<ul style="list-style-type: none"> MCP conducted periodic project communications with the stakeholders 	<ul style="list-style-type: none"> MCP will conduct periodic communications with the stakeholders

Pasquotank County PSAP, NC

PSAP Consolidation Project

MCP Project Number 16-185

Monthly Progress Report – December, 2019

Activity	This Period	Next Period
1. Design	<ul style="list-style-type: none"> No action required 	<ul style="list-style-type: none"> No action expected
2. Permits	<ul style="list-style-type: none"> No action 	<ul style="list-style-type: none"> No action
3. Construction	<ul style="list-style-type: none"> Continued to work through punch list items 	<ul style="list-style-type: none"> Receive final owner manuals and warranty information
4. Communications Systems	<ul style="list-style-type: none"> Continued biweekly meetings with AT&T on hosted call handling Continued coordination of admin lines and data circuits for Martin Backup facility Continued discussions on migration of equipment to new backup site Finalized and began testing radio paging system Issued procurement for new radio console system 	<ul style="list-style-type: none"> Continue biweekly coordination calls with AT&T Continue to participate in equipment migration planning and documentation Finalize the testing and punch-list of the radio paging system Continue to evaluate needs at the Martin Backup facility
5. Other Activity	<ul style="list-style-type: none"> MCP conducted periodic project communications with the stakeholders 	<ul style="list-style-type: none"> MCP will conduct periodic communications with the stakeholders

Pasquotank County PSAP, NC

PSAP Consolidation Project

MCP Project Number 16-185

Monthly Progress Report – January, 2020

Activity	This Period	Next Period
1. Design	<ul style="list-style-type: none"> No action required 	<ul style="list-style-type: none"> No action expected
2. Permits	<ul style="list-style-type: none"> No action 	<ul style="list-style-type: none"> No action
3. Construction	<ul style="list-style-type: none"> Continue to work through punch list items 	<ul style="list-style-type: none"> Receive final owner manuals and warranty information
4. Communications Systems	<ul style="list-style-type: none"> Continue biweekly meetings with AT&T on hosted call handling Continue coordination of admin lines and data circuits for Martin Backup facility Continue discussions on migration of equipment to new backup site Final testing on radio paging system Successful cutover to radio paging system 	<ul style="list-style-type: none"> Continue biweekly coordination calls with AT&T Continue to participate in equipment migration planning and documentation Continue to evaluate needs at the Martin Backup facility Plan and prepare for new radio console system
5. Other Activity	<ul style="list-style-type: none"> MCP conducted periodic project communications with the stakeholders 	<ul style="list-style-type: none"> MCP will conduct periodic communications with the stakeholders

Rutherford 911

Monthly Progress Report

Current Activity

December 2019

Rutherford PSAP Relocation / Enhancement

- Received construction cost estimates.
- Met with Rutherford County *Planning* to review and discuss budget constraints.
- Additional work was needed by Structural Engineer prior to executing the bidding process. Expect construction-ready prints by December 15th.
- Electrical engineer revised electrical drawings based on county suggestions for UPS/Battery power design/layout.
- Brady Trakas will begin and administer bidding process.
- Maintain Budget Performance Reports.

Next Month's Activity

January 2020

Rutherford PSAP Relocation / Enhancement

- Conclude bidding process.
- Interview contractors during this period.
- Select General Contractor.
- Reforecast project time line – and confirm project start date.
- Maintain Budget Performance Reports.

Rutherford 911

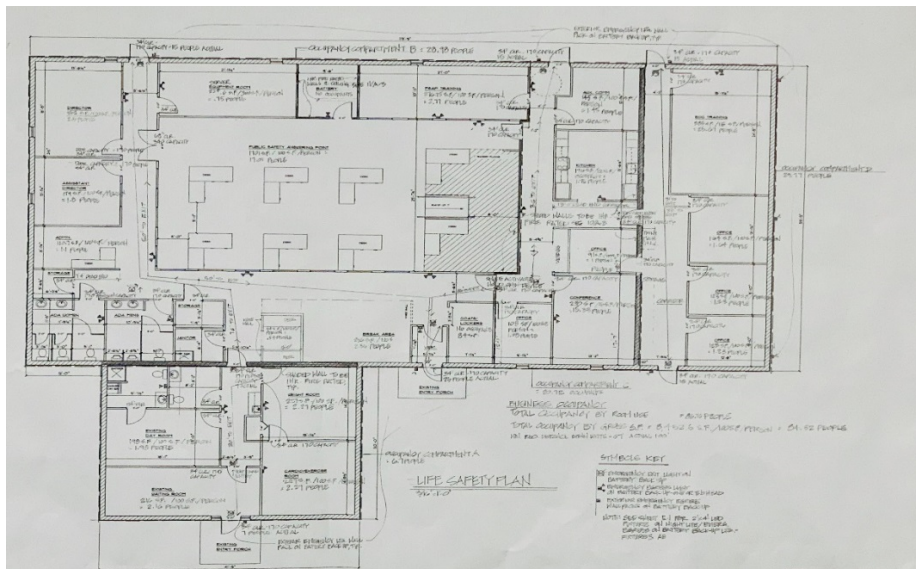
Monthly Progress Report

Current Activity

January 2020

Rutherford PSAP Relocation / Enhancement

- Unexpected delays of construction documents from the Structural Engineer greatly delayed executing the bidding process last month.
- Bid advertisement is being sent out for publication.
- Brady Trakas will administer bidding process.
- Bid opening slated for the last week of January.



Next Month's Activity

February 2020

Rutherford PSAP Relocation / Enhancement

- Interview contractors during this period.
- Select General Contractor.
- Reforecast project time line – and confirm project start date.
- Maintain Budget Performance Reports.

Rutherford County SO 911 - 240. North Washington St, Rutherfordton, NC 28139
Lt. Greg Dotson - 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

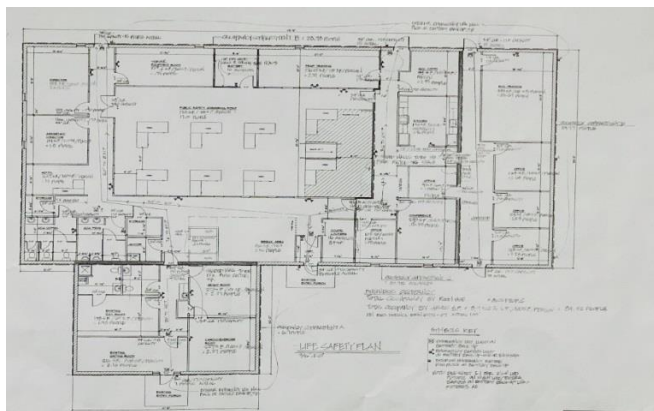
Monthly Progress Report

Current Activity

February 2020

Rutherford PSAP Relocation / Enhancement

- A clear understanding of the structural requirements has slowed the bidding process.
- **Advertisement for Bids** was sent out for a February 19th 2020 Bid Opening. After our Pre-Bid Meeting the Architect ask to extend the **Bid Opening** to March 4th, 2020. Bid Advertisement and Bid Invitations will be updated in publications within the next 48 hours (02-03-2020).
- Brady Trakas is overseeing the bidding process.



Next Month's Activity

March 2020

Rutherford PSAP Relocation / Enhancement

- Conduct formal **Bid Opening March 4th, 2020 at 10am** in the Commissioners Chamber.
- Interview contractors during this period.
- Select General Contractor.
- Reforecast project time-line – and confirm project start date.
- Prepare *contract* for presentation to the County Commissioners.
- Maintain Budget Performance Reports.

Rutherford County SO 911 - 240. North Washington St, Rutherfordton, NC 28139
Lt. Greg Dotson - 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.

Wayne County, NC

911 New Facility

MCP Project Number 18-117

Monthly Progress Report – November, 2019

Activity	This Period	Next Period
1. Design	<ul style="list-style-type: none"> No changes in this period 	<ul style="list-style-type: none"> Change-order for upfit of UPS system to include dispatch consoles
2. Permits	<ul style="list-style-type: none"> No actions required 	<ul style="list-style-type: none"> No actions expected
3. Construction	<ul style="list-style-type: none"> Continued exterior walls Roof over 911 center Beginning brick work Window frames framed Continue brick veneer Waterproofing Steel work Electrical rough-in 	<ul style="list-style-type: none"> Continue construction site work Finalize brick veneer Continue roof work Finalize walls Continue steel work Prep for other areas
4. Communications Systems	<ul style="list-style-type: none"> Participated in AT&T project status calls Began work on dispatch furniture RFP Finalized cabling / cable management design Continued discussions on data center rack, power and UPS specifications Began design of audio visual needs Continued discussions on desktop automatic transfer switches Decided on CAD Workstation and monitor needs Reviewed need for desktop KVM Held meetings with Duplin County to continue planning for new facility needs 	<ul style="list-style-type: none"> Continue participation in biweekly AT&T project calls Continue planning for technical systems Release RFP for dispatch furniture Release RFP for UPS, data center items and other electrical needs related to UPS Release RFP for cabling and other facility needs Continue radio coordination meetings Continue technology planning with Duplin County

Activity	This Period	Next Period
5. Other Activity	<ul style="list-style-type: none"> MCP held routine meetings with the County for project coordination 	<ul style="list-style-type: none"> Continue monthly meetings with design team and general contractor MCP to continue routine meetings for project coordination tasks

Wayne County, NC

911 New Facility

MCP Project Number 18-117

Monthly Progress Report – December, 2019

Activity	This Period	Next Period
1. Design	<ul style="list-style-type: none"> No changes in this period 	<ul style="list-style-type: none"> Change-order for extension of raised flooring
2. Permits	<ul style="list-style-type: none"> No actions required 	<ul style="list-style-type: none"> No actions expected
3. Construction	<ul style="list-style-type: none"> Clear story brick Set steel Blocking for the roof Begin plumbing and electrical Finish structural masonry 	<ul style="list-style-type: none"> Roof dampening Brick veneer Insulation Setup samples glass/glazing Dried by end of period
4. Communications Systems	<ul style="list-style-type: none"> Participate in AT&T project status calls Cutover main PSAP to hosted Call Handling and ESINet Publish dispatch furniture RFP Publish RFP for cabling / cable management design Publish RFP on data center rack, power and UPS specifications Continue discussions on design of audio visual needs Continued discussions on desktop automatic transfer switches Decided on CAD Workstation and monitor needs Reviewed need for desktop KVM Held meetings with Duplin County to continue planning for new facility needs 	<ul style="list-style-type: none"> Continue participation in biweekly AT&T project calls Continue planning for technical systems Review responses for dispatch furniture RFP Review responses for UPS, data center items and other electrical RFP Review responses for cabling and other facility needs RFP Continue radio coordination meetings Continue technology planning with Duplin County
5. Other Activity	<ul style="list-style-type: none"> MCP held routine meetings with the County for project coordination 	<ul style="list-style-type: none"> Continue monthly meetings with design team and general contractor

Activity	This Period	Next Period
		<ul style="list-style-type: none">• MCP to continue routine meetings for project coordination tasks

Wayne County, NC

911 New Facility

MCP Project Number 18-117

Monthly Progress Report – January, 2020

Activity	This Period	Next Period
1. Design	<ul style="list-style-type: none"> Several changes / modifications discussed and priced Data cable sleeves increased 	<ul style="list-style-type: none"> Continued review / implementation of change requests
2. Permits	<ul style="list-style-type: none"> No actions required 	<ul style="list-style-type: none"> No actions expected
3. Construction	<ul style="list-style-type: none"> Plumbing rough-ins Electrical and conduit rough-ins Roof nears completion Brick masonry complete Damp proofing underway Dried in, interior work can continue 	<ul style="list-style-type: none"> Electrical work continues Concrete floors going in Framing begins HVAC ductwork Roof fully complete
4. Communications Systems	<ul style="list-style-type: none"> Receive proposals for dispatch furniture RFP Receive proposals for RFP for cabling / cable management design Continue to prepare RFP on data center rack, power and UPS specifications Continue discussions on design of audio visual needs Held meetings with Duplin County to continue planning for new facility needs Continued technology coordination meetings Reviewed submittals for floor boxes and evaluated underfloor cabling needs 	<ul style="list-style-type: none"> Continue planning for technical systems Award dispatch furniture project Determine procurement method for UPS, data center items and other electrical RFP Begin scheduling for cabling and other facility needs Continue radio coordination meetings Continue technology planning with Duplin County Begin schedule for technology implementation Start on migration strategy
5. Other Activity	<ul style="list-style-type: none"> MCP held routine meetings with the County for project coordination 	<ul style="list-style-type: none"> Continue monthly meetings with design team and general contractor.

Activity	This Period	Next Period
		<ul style="list-style-type: none">• MCP to continue routine meetings for project coordination tasks

January 17, 2020

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

This report summarizes the project status for the Southern Piedmont and Mountains Orthoimagery 2019 Project, funded by the NC 911 Board. The report summarizes project status for the period from September 1, 2019 – December 31, 2019.

Accomplishments

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

CGIA

- Performed outreach to PSAPs and GIS end-users in 21 counties to coordinate the completion of the quality review process and to resolve any issues users had in accessing the system.
- VOICE Quality Review was complete for all 21 counties on September 20.
- Screened calls from remaining counties and passed along issues to vendors to be fixed.
- Confirmed issues were resolved for all submitted issues in all counties by October 14.
- Documented all submitted issues by scripting process that captured screenshots of all issues and how they were addressed.
- Created documentation of all submitted issues to be delivered with final deliveries to PSAPs.
- Received final deliveries from vendors containing full resolution TIFF imagery for all 21 counties.
- Validated final deliveries to ensure all files were correct and without issue.
- Coordinated and processed latest imagery products from partners in Tennessee, Georgia, and South Carolina to be incorporated into the single-file SID mosaic deliverable for each county.
- Created 20:1 compressed SID tiles and 50:1 compressed single-file SID mosaics for each county.
- Created map for each county outlining the extent of deliverables and types of products on the final hard drive.
- Assembled final hard drives for each PSAP that incorporated all final imagery products, vendor submitted documentation, map of deliverables, and other documentation.
- Performed outreach by presenting on the Imagery Program at the NC ArcGIS User's Group. GIS users from county and local governments attended conference.
- Held delivery meetings during the first week of December for 27 Primary PSAPs in 21 counties. Every PSAP in project area attended one of 5 regional meetings and received their hard drive.
- Initiated online streaming imagery services and downloadable products of final imagery hosted through the NC OneMap platform.
- Updated project website to reflect delivery meetings and overall status of the project.
- Received and reviewed Lessons Learned documentation and Final Project Reports from all vendors.
- Other tasks include regular team meetings and ongoing outreach to federal, state and local partners.

NC Department of Transportation (NCDOT)

- Attended team strategy meetings and weekly status meetings.

- Coordinated NCDOT personnel performing quality review and trained as necessary.
- Assisted in creation of final SID mosaics as needed.
- Completed review of all 21 counties.
- Assisted in confirming that all issues were resolved by vendors.
- Provided technical support for project planning.

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

- Developed a horizontal quality control plan and identified location of QC points in all 21 counties.
- Performed quality control field surveys to obtain control to be used in horizontal quality control.
- Performed initial horizontal quality control assessment and gave preliminary approval for horizontal accuracy of imagery in all 21 counties.
- Attended team strategy meetings.

Acquisition Vendors

This section summarizes the accomplishments of the four prime acquisition vendors selected through the Qualifications-Based Selection (QBS) process. The selected vendors are Atlas Geographic Data, Sanborn Map Company, Spatial Data Consultants, and Surdex Corporation. The fully executed contracts were awarded on December 10, 2018. 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 December 2019 reporting period, the status of all tasks is listed below:

Task	Reported Percent Complete (as of latest invoice)			
	Atlas Geographic Data	Sanborn Map Company	Spatial Data Consultants	Surdex Corporation
Task 1: Flight Planning	100%	100%	100%	100%
Task 2: Acquisition	100%	100%	100%	100%
Task 3: Aerotriangulation and Ortho Generation	100%	100%	100%	100%
Task 4: Product Delivery and Data Acceptance	100%	100%	100%	100%
Task 5: Quality Review Resolutions	95%	100%	95%	100%
Task 6: Closeout	30%	0%	50%	100%

[Acquisition of imagery for 21 counties began on February 1st, 2019 and was completed on April 3rd, 2019.]

VOICE Application Contractor:

This section summarizes the accomplishments of Quantum Spatial, the sole-source contractor developing the VOICE QC Application. The fully executed contract was awarded on March 6, 2019. That agreement consists of six primary tasks as follows:

- Task 1: Requirements Workshop
- Task 2: System Design Document
- Task 3: Development
- Task 4: Beta Release Testing
- Task 5: Production Release
- Task 6: Hosting and Project Close

The following tasks were completed or underway through this reporting period:

- Task 1: Requirements Workshop
 - Workshop held on 3/21/19.
- Task 2: System Design Document
 - Design document revised and approved on 4/4/19.
- Task 3: Development
 - Initial application development was completed prior to beta testing period beginning in mid-May.
- Task 4: Beta Release Testing
 - Beta testing completed and all development priorities were approved.
- Task 5: Production Release
 - System is live on 7/29/19.
- Task 6: Hosting and Project Close
 - Image service hosting began on 7/29/19 and was closed down on 12/28.
 - All Tasks now complete.

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
1	Project Initiation	7/1/2018	12/31/2018	12/31/2019
	Issue RFQ for Orthoimagery QBS	7/31/2018	7/31/2018	7/31/2018
	Closing date for RFQ responses	8/23/2018	8/23/2018	8/23/2018
	Contract NCGS and NCDOT	8/1/2018	8/1/2018	11/5/2018
	Host workshop for selected applicants	10/2/2018	10/2/2018	10/2/2018
	Technical and cost proposals due	10/16/2018	10/16/2018	10/16/2018
	Negotiate with selected applicants	10/31/2018	10/31/2018	10/31/2018
	Issue Purchase Orders	11/22/2018	11/22/2018	12/10/2018
	Conduct Kickoff Meeting	12/13/2018	12/13/2018	12/13/2018
	Contract QC Service Provider	1/1/2019	1/1/2019	3/7/2019
2	Planning and Design	10/15/2018	4/30/2019	3/28/2019
	CORS Upgrades	10/15/2018	3/1/2019	1/23/2019

	Validation Range	10/15/2018	1/15/2019	11/1/2018
	RTN Maintenance	10/15/2018	Ongoing	Ongoing
	Control Surveys and Attachment C-1: Control Surveys Report	4/2/2019	4/2/2019	3/28/2019
3A	Acquisition	1/20/2019	5/15/2019	5/13/2019
	Acquire Imagery for 21 Counties	1/20/2019	4/15/2019	4/2/2019
	Attachment D: Imagery Acquisition Compliance Report	2/1/2019	5/15/2019	5/13/2019
3B	Acquisition Post-Processing	2/1/2019	6/7/2019	6/7/2019
	Attachment E: GNSS-IMU Post Processing & Aerotriangulation Report	3/1/2019	5/27/2019	5/27/2019
	Ortho Generation Workshop	4/17/2019	4/17/2019	4/17/2019
	Study Area Web Map Service	6/7/2019	6/7/2019	6/7/2019
4	Quality Review Production and Product Delivery	7/29/2019	11/16/2019	
	QC Production Cycle	7/29/2019	11/16/2019	11/16/2019
5	Implementation	12/1/2019	2/28/2020	
	Product Delivery	12/1/2019	12/10/2019	12/4/2019
	Implement the NC OneMap Geospatial Portal solution	12/1/2019	Ongoing	Ongoing
	60-day End-User Evaluation	12/1/2019	2/28/2020	
6	Project Closeout	1/1/2020	5/31/2020	
	Final Data Packaging and Final Reports	1/1/2020	5/31/2020	
	Project Closeout	5/1/2020	5/31/2020	

Budget

The expenditures for the project are summarized below. Note the current reporting period represents September 1, 2019 – December 31, 2019. The total budget for the project is \$3,273,555.

Item	This Reporting Period	Cumulative to Date	Percent Expended to Date
CGIA			
CGIA Labor**	\$19,740.00	\$122,052.00	29.8%
ITS Hosting and Information Technology	\$2,782.67	\$2,782.67	6.7%
CGIA Travel	\$528.11	\$658.28	10.1%
CGIA Reimbursable Expenses	\$5,966.89	\$6,152.89	87.9%
CGIA Total	\$29,017.67	\$131,645.84	28.3%
Subcontractors			
NCDPS-NCGS	\$19,400.51	\$161,336.89	80.1%
NCDOT	\$52,758.26	\$98,323.74	68.5%
Sanborn Map Company	\$30,048.50	\$595,697.50	94.4%

Atlas Geographic Data	\$43,529.00	\$547,884.00	95.0%
Surdex	\$56,525.12	\$390,236.20	92.8%
Spatial Data Consultants	\$44,460.00	\$587,100.00	94.3%
VOICE	\$29,400.00	\$59,300.00	68.3%
Subcontractor Total	\$276,121.39	\$2,439,878.33	91.0%
Total (for Project)	\$305,139.06	\$2,571,524.17	78.6%

**Received guidance from DIT-Finance that CGIA labor costs will continue to be receipts-based for the remainder of FY18-19. This month's CGIA labor expenditures cover the period of September 1, 2019 – December 31, 2019.

Major Tasks Identified for January 2020

CGIA

- Begin creation of Project Final Report.
- Document lessons learned.
- Continue 60-day quality assurance period and work with end-users to resolve any issues.
- Other tasks include regular team meetings and ongoing outreach to federal, state and local partners.

NCDOT

- None. All project tasks complete.

NCGS

- Complete final horizontal quality control reports.
- Perform CORS maintenance where necessary in the project area.

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 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 regarding technical matters related to the project.

Sincerely,



Tim Johnson, GISP
 Director
 Center for Geographic Information and Analysis

COMPUTER BILL

BILLABLE CGIA CHARGES
FOR SEPTEMBER 2019

----- APPL=MGH -----

Obs	APPL	COSTCTR	CHGITEM	Qty	charges
2	MGH	1082	870059	14801.00	14801.00
3	MGH	1082	870059	3213.30	3213.30
4	MGH	1082	870059	8400.00	8400.00
5	MGH	1082	870059	26960.46	26960.46
6	MGH	1082	870066	48.50	4074.00
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APPL				53423.26	57448.76

BILLABLE CGIA CHARGES
FOR OCTOBER 2019

06:28 Thursday, November 7, 2019 2

----- APPL=MGH -----

Obs	APPL	COSTCTR	CHGITEM	Qty	charges
2	MGH	1082	870059	5966.89	5966.89
3	MGH	1082	870059	42.10	42.10
4	MGH	1082	870059	183.29	183.29
5	MGH	1082	870066	58.00	4872.00
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APPL				6250.28	11064.28

BILLABLE CGIA CHARGES
FOR NOVEMBER 2019

Thursday, December 5, 2019 2

----- APPL=MGH -----

Obs	APPL	COSTCTR	CHGITEM	Qty	charges
2	MGH	1082	870059	49226.58	49226.58
3	MGH	1082	870059	18278.00	18278.00
4	MGH	1082	870059	19760.00	19760.00
5	MGH	1082	870059	9873.26	9873.26
6	MGH	1082	870059	8400.00	8400.00
7	MGH	1082	870059	24580.52	24580.52
8	MGH	1082	870059	7298.54	7298.54
9	MGH	1082	870059	11770.50	11770.50
10	MGH	1082	870059	10716.00	10716.00
11	MGH	1082	870059	7049.00	7049.00
12	MGH	1082	870059	4489.92	4489.92
13	MGH	1082	870059	8400.00	8400.00
14	MGH	1082	870059	1217.28	1217.28
15	MGH	1082	870059	1824.03	1824.03
16	MGH	1082	870066	79.50	6678.00
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APPL				182963.1	189561.63

BILLABLE CGIA CHARGES
FOR DECEMBER 2019

13:42 Tuesday, January 7, 2020 2

----- APPL=MGH -----

Obs	APPL	COSTCTR	CHGITEM	Qty	charges
2	MGH	1082	870059	28158.00	28158.00
3	MGH	1082	870059	4655.00	4655.00
4	MGH	1082	870059	2850.00	2850.00
5	MGH	1082	870059	4200.00	4200.00
6	MGH	1082	870059	302.72	302.72
7	MGH	1082	870066	49.00	4116.00
-----				-----	-----
APPL				40214.72	44281.72

ACCOUNTS PAYABLE

									282,616.39							
FUND	CENTER	ACCOUNT	PAY ENTITY	CTRL NO	PAYMENT DATE	CHECK NO	INVOICE NO	AMOUNT PAID	VENDOR NO	VENDOR GROUP	VENDOR NAME	INVOICE DATE	LINE ITEM DESCRIPTION	PO NUMBER	PO LINE NO	REMIT MESSAGE
7115	1082	532199	41PT	1987	9/12/2019	139385	90721041	26,960.46	566000967	Y	NC DEPT OF TRANSPORTATION	9/9/2019	IMAGE19 - FY19-20	NC10465392	2	INV#90721041
7115	1082	532199	41PT	1987	9/12/2019	200420	S-502	3,213.30	300712287	13	NC DPS GENERAL OPERATIONS	9/9/2019	IMAGE19 - FY19-20	NC10477025	2	INV#S-502
7115	1082	532199	41PT	1987	9/12/2019	139273	34694-004	8,400.00	391133181	A	QUANTUM SPATIAL, INC.	9/3/2019	FY19-20: PRODUCTION,	NC10500749	2	INV#34694-004
7115	1082	532199	41PT	1987	9/12/2019	139295	SPM19-09	14,801.00	561963091	02	SPATIAL DATA CONSULTANTS	9/3/2019	ORTHO GENERATION, PR	NC10483409	2	INV#SPM19-09
7115	1082	533110	41PT	1989	10/1/2019	139583	TLW5782	175.52	364230110	B	CDW GOVERNMENT INC	8/13/2019	WD MY BOOK WDBBG8008	NC10535243	1	
7115	1082	533110	41PT	1989	10/1/2019	139583	TMH5177	81.05	364230110	B	CDW GOVERNMENT INC	8/14/2019	SAMSUNG FIT PLUS MUF	NC10535243	2	
7115	1082	533110	41PT	1989	10/1/2019	139583	TMH5177	865.20	364230110	B	CDW GOVERNMENT INC	8/14/2019	WD MY PASSPORT SSD W	NC10535243	3	
7115	1082	533110	41PT	1989	10/1/2019	139583	TNB3701	173.04	364230110	B	CDW GOVERNMENT INC	8/16/2019	WD MY PASSPORT SSD W	NC10535243	3	
7115	1082	533110	41PT	1989	10/1/2019	139583	TNM2216	4,152.96	364230110	B	CDW GOVERNMENT INC	8/19/2019	WD MY PASSPORT SSD W	NC10535243	3	TNM2216
7115	1082	533110	41PT	1989	10/1/2019	139583	TNP0789	519.12	364230110	B	CDW GOVERNMENT INC	8/20/2019	WD MY PASSPORT SSD W	NC10535243	3	
7115	1082	532724	41PE	2001	10/7/2019	139680	EXP091819-082019	42.10	4495	01	BENJAMIN SHELTON	10/4/2019			0	TRAVEL 9/18/19 - 9/20/19
7115	1082	532521	41PT	1972	10/10/2019	139701	72V5TW	183.29	431241935	04	ENTERPRISE RENT A CAR	9/30/2019			0	JOHN DERRY 9/17/19 - 9/21/19
7115	1082	532199	41PT	2006	11/14/2019	140161	AGD-SPM19-808	18,278.00	203251160	01	ATLAS GEOGRAPHIC DATA INC	10/10/2019	ORTHO GENERATION, PR	NC10483407	2	AGD-SPM19-808
7115	1082	532199	41PT	2006	11/14/2019	140188	90725014	24,580.52	566000967	Y	NC DEPT OF TRANSPORTATION	10/9/2019	IMAGE19 - FY19-20	NC10465392	2	#90725014
7115	1082	532199	41PT	2006	11/14/2019	203525	S-505	9,873.26	300712287	13	NC DPS GENERAL OPERATIONS	9/18/2019	IMAGE19 - FY19-20	NC10477025	2	#S-505
7115	1082	532199	41PT	2006	11/14/2019	140166	34694-005	8,400.00	391133181	A	QUANTUM SPATIAL, INC.	10/7/2019	FY19-20: PRODUCTION,	NC10500749	2	#34694-005
7115	1082	532199	41PT	2006	11/14/2019	140183	SPM19-10	19,760.00	561963091	02	SPATIAL DATA CONSULTANTS	10/3/2019	ORTHO GENERATION, PR	NC10483409	2	#SPM19-10
7115	1082	532199	41PT	2006	11/14/2019	140158	COS00006424R	24,286.37	133980333	03	THE SANBORN MAP COMPANY INC.	10/10/2019	PLANNING, ACQUISITIO	NC10483408	1	#COS00006424R
7115	1082	532199	41PT	2006	11/14/2019	140158	COS00006424R	24,940.21	133980333	03	THE SANBORN MAP COMPANY INC.	10/10/2019	ORTHO GENERATION, PR	NC10483408	2	#COS00006424R
7115	1082	532199	41PT	2013	11/21/2019	140346	AGD-SPM19-809	11,770.50	203251160	01	ATLAS GEOGRAPHIC DATA INC	11/8/2019	ORTHO GENERATION, PR	NC10483407	2	#AGD-SPM19-809
7115	1082	532199	41PT	2013	11/21/2019	140377	90728223	1,217.28	566000967	Y	NC DEPT OF TRANSPORTATION	11/14/2019	IMAGE19 - FY19-20	NC10465392	2	#90728223
7115	1082	532199	41PT	2013	11/21/2019	203768	S-507	4,489.92	300712287	13	NC DPS GENERAL OPERATIONS	11/14/2019	IMAGE19 - FY19-20	NC10477025	2	#S-507
7115	1082	532199	41PT	2013	11/21/2019	203768	S-508	1,824.03	300712287	13	NC DPS GENERAL OPERATIONS	11/12/2019	IMAGE19 - FY19-20	NC10477025	2	#S-508
7115	1082	532199	41PT	2013	11/21/2019	140349	34694-006	8,400.00	391133181	A	QUANTUM SPATIAL, INC.	11/4/2019	FY19-20: PRODUCTION,	NC10500749	2	#34694-006
7115	1082	532199	41PT	2013	11/21/2019	140375	SPM19-11	7,049.00	561963091	02	SPATIAL DATA CONSULTANTS	11/11/2019	ORTHO GENERATION, PR	NC10483409	2	#SPM19-11
7115	1082	532199	41PT	2013	11/21/2019	140351	4685	10,716.00	430690641	B	SURDEX CORPORATION	11/6/2019	ORTHO GENERATION, PR	NC10483410	2	#4685
7115	1082	532199	41PT	2013	11/21/2019	140341	COS00006458	7,298.54	133980333	03	THE SANBORN MAP COMPANY INC.	11/6/2019	PLANNING, ACQUISITIO	NC10483408	1	#COS00006458
7115	1082	532199	41PT	2015	12/5/2019	140498	4663	28,158.00	430690641	B	SURDEX CORPORATION	10/2/2019	ORTHO GENERATION, PR	NC10483410	2	#4663
7115	1082	532721	41PE	2027	12/9/2019	140558	EXP120219-120419	212.62	4495	01	BENJAMIN SHELTON	12/5/2019			0	TRAVEL 12/2/19 - 12/4/19
7115	1082	532724	41PE	2027	12/9/2019	140558	EXP120219-120419	90.10	4495	01	BENJAMIN SHELTON	12/5/2019			0	TRAVEL 12/2/19 - 12/4/19
7115	1082	532199	41PT	2021	12/30/2019	140817	34694-007	4,200.00	391133181	A	QUANTUM SPATIAL, INC.	12/2/2019	FY19-20: PRODUCTION,	NC10500749	2	#34694-007
7115	1082	532199	41PT	2021	12/30/2019	140831	SPM19-12	2,850.00	561963091	02	SPATIAL DATA CONSULTANTS	12/4/2019	ORTHO GENERATION, PR	NC10483409	2	#SPM19-12
7115	1082	532199	41PT	2021	12/30/2019	140820	4715	4,655.00	430690641	B	SURDEX CORPORATION	12/4/2019	ORTHO GENERATION, PR	NC10483410	2	#4715

LABOR

DIT - CGIA
Staff Billing Report
Activity: September 2019

	Client	Activity Date	Product/Service	Memo/Description	Rates	Duration	Billable	Amount
Ben Shelton								
	IMAGE19	09/03/2019	Services:55	Project Management	84.00	4	Yes	336.00
	IMAGE19	09/04/2019	Services:55	Project Management	84.00	2	Yes	168.00
	IMAGE19	09/05/2019	Services:55	Project Management	84.00	2	Yes	168.00
	IMAGE19	09/06/2019	Services:55	Project Management	84.00	2	Yes	168.00
	IMAGE19	09/06/2019	Services:40	Presentations/Demonstrations/Meetings	84.00	1	Yes	84.00
	IMAGE19	09/09/2019	Services:55	Project Management	84.00	6	Yes	504.00
	IMAGE19	09/10/2019	Services:55	Project Management	84.00	4	Yes	336.00
	IMAGE19	09/11/2019	Services:55	Project Management	84.00	2	Yes	168.00
	IMAGE19	09/12/2019	Services:55	Project Management	84.00	3	Yes	252.00
	IMAGE19	09/13/2019	Services:55	Project Management	84.00	2	Yes	168.00
	IMAGE19	09/13/2019	Services:40	Presentations/Demonstrations/Meetings	84.00	1	Yes	84.00
	IMAGE19	09/16/2019	Services:55	Project Management	84.00	4	Yes	336.00
	IMAGE19	09/17/2019	Services:55	Project Management	84.00	3	Yes	252.00
	IMAGE19	09/18/2019	Services:40	Presentations/Demonstrations/Meetings	84.00	4	Yes	336.00
	IMAGE19	09/19/2019	Services:40	Presentations/Demonstrations/Meetings	84.00	4	Yes	336.00
	IMAGE19	09/20/2019	Services:40	Presentations/Demonstrations/Meetings	84.00	2	Yes	168.00
Total for Ben Shelton						46		\$ 3,864.00
Matthew McLamb								
Total for Matthew McLamb						0		\$ -
Tim Johnson								
	IMAGE19	09/06/2019	Services:15	Consulting	84.00	0.5	Yes	42.00
	IMAGE19	09/10/2019	Services:15	Consulting	84.00	2	Yes	168.00
Total for Tim Johnson						2.5		\$ 210.00
TOTAL						48.5		\$ 4,074.00

DIT - CGIA
Staff Billing Report
Activity: October 2019

	Client	Date	vice	Memo/Description	Rates	Duration	Billable	Amount
Ben Shelton								
	IMAGE19	10/01/2019	Services:55	Project Management	84.00	4	Yes	336.00
	IMAGE19	10/02/2019	Services:55	Project Management	84.00	3	Yes	252.00
	IMAGE19	10/04/2019	Services:55	Project Management	84.00	3	Yes	252.00
	IMAGE19	10/07/2019	Services:55	Project Management	84.00	4	Yes	336.00
	IMAGE19	10/08/2019	Services:55	Project Management	84.00	2	Yes	168.00
	IMAGE19	10/09/2019	Services:55	Project Management	84.00	3	Yes	252.00
	IMAGE19	10/10/2019	Services:55	Project Management	84.00	4	Yes	336.00
	IMAGE19	10/11/2019	Services:55	Project Management	84.00	4	Yes	336.00
	IMAGE19	10/14/2019	Services:55	Project Management	84.00	2	Yes	168.00
	IMAGE19	10/15/2019	Services:55	Project Management	84.00	2	Yes	168.00
	IMAGE19	10/16/2019	Services:55	Project Management	84.00	2	Yes	168.00
	IMAGE19	10/17/2019	Services:55	Project Management	84.00	4	Yes	336.00
	IMAGE19	10/18/2019	Services:55	Project Management	84.00	4	Yes	336.00
	IMAGE19	10/21/2019	Services:55	Project Management	84.00	3	Yes	252.00
	IMAGE19	10/22/2019	Services:55	Project Management	84.00	2	Yes	168.00
	IMAGE19	10/23/2019	Services:55	Project Management	84.00	2	Yes	168.00
	IMAGE19	10/24/2019	Services:55	Project Management	84.00	3	Yes	252.00
	IMAGE19	10/25/2019	Services:55	Project Management	84.00	2	Yes	168.00
	IMAGE19	10/29/2019	Services:55	Project Management	84.00	2	Yes	168.00
	IMAGE19	10/30/2019	Services:55	Project Management	84.00	2	Yes	168.00
	IMAGE19	10/31/2019	Services:55	Project Management	84.00	1	Yes	84.00
Total for Ben Shelton						58		\$ 4,872.00
Matthew McLamb								
Total for Matthew McLamb						0		\$ -
Tim Johnson								
Total for Tim Johnson						0		\$ -
TOTAL						58		\$ 4,872.00

DIT - CGIA
Staff Billing Report
Activity: November 2019

	Client	Date	vice	Memo/Description	Rates	Duration	Billable	Amount
Ben Shelton								
	IMAGE19	11/01/2019	Services:55	Project Management	84.00	5	Yes	420.00
	IMAGE19	11/06/2019	Services:55	Project Management	84.00	2	Yes	168.00
	IMAGE19	11/08/2019	Services:55	Project Management	84.00	3	Yes	252.00
	IMAGE19	11/12/2019	Services:55	Project Management	84.00	3	Yes	252.00
	IMAGE19	11/13/2019	Services:55	Project Management	84.00	4	Yes	336.00
	IMAGE19	11/14/2019	Services:55	Project Management	84.00	3	Yes	252.00
	IMAGE19	11/15/2019	Services:55	Project Management	84.00	2	Yes	168.00
	IMAGE19	11/16/2019	Services:55	Project Management	84.00	3	Yes	252.00
	IMAGE19	11/18/2019	Services:55	Project Management	84.00	6	Yes	504.00
	IMAGE19	11/19/2019	Services:55	Project Management	84.00	4	Yes	336.00
	IMAGE19	11/20/2019	Services:55	Project Management	84.00	4	Yes	336.00
	IMAGE19	11/21/2019	Services:55	Project Management	84.00	5	Yes	420.00
	IMAGE19	11/22/2019	Services:55	Project Management	84.00	8	Yes	672.00
	IMAGE19	11/23/2019	Services:55	Project Management	84.00	3	Yes	252.00
	IMAGE19	11/25/2019	Services:55	Project Management	84.00	6	Yes	504.00
	IMAGE19	11/26/2019	Services:55	Project Management	84.00	5	Yes	420.00
	IMAGE19	11/27/2019	Services:55	Project Management	84.00	8	Yes	672.00
Total for Ben Shelton						74		\$ 6,216.00
Matthew McLamb								
Total for Matthew McLamb						0		\$ -
Tim Johnson								
	IMAGE19	11/08/2019	Services:15	Consulting	84.00	2	Yes	168.00
	IMAGE19	11/14/2019	Services:15	Consulting	84.00	1	Yes	84.00
	IMAGE19	11/15/2019	Services:15	Consulting	84.00	1	Yes	84.00
	IMAGE19	11/18/2019	Services:15	Consulting	84.00	1	Yes	84.00
	IMAGE19	11/22/2019	Services:15	Consulting	84.00	0.5	Yes	42.00
Total for Tim Johnson						5.5		\$ 462.00
TOTAL						79.5		\$ 6,678.00

DIT - CGIA
Staff Billing Report
Activity: December 2019

	Client	Date	vice	Memo/Description	Rates	Duration	Billable	Amount
Ben Shelton								
	IMAGE19	12/02/2019	Services:40	Presentations/Demonstrations/Meetings	84.00	9	Yes	756.00
	IMAGE19	12/03/2019	Services:40	Presentations/Demonstrations/Meetings	84.00	10	Yes	840.00
	IMAGE19	12/04/2019	Services:40	Presentations/Demonstrations/Meetings	84.00	10	Yes	840.00
	IMAGE19	12/05/2019	Services:55	Project Management	84.00	2	Yes	168.00
	IMAGE19	12/06/2019	Services:55	Project Management	84.00	2	Yes	168.00
	IMAGE19	12/09/2019	Services:55	Project Management	84.00	2	Yes	168.00
	IMAGE19	12/11/2019	Services:55	Project Management	84.00	2	Yes	168.00
	IMAGE19	12/12/2019	Services:55	Project Management	84.00	3	Yes	252.00
	IMAGE19	12/17/2019	Services:55	Project Management	84.00	2	Yes	168.00
	IMAGE19	12/18/2019	Services:55	Project Management	84.00	1	Yes	84.00
	IMAGE19	12/19/2019	Services:55	Project Management	84.00	2	Yes	168.00
	IMAGE19	12/20/2019	Services:55	Project Management	84.00	2	Yes	168.00
Total for Ben Shelton						47		\$ 3,948.00
Matthew McLamb								
Total for Matthew McLamb						0		\$ -
Tim Johnson								
	IMAGE19	12/18/2019	Services:15	Consulting	84.00	1	Yes	84.00
	IMAGE19	12/19/2019	Services:15	Consulting	84.00	1	Yes	84.00
Total for Tim Johnson						2		\$ 168.00
TOTAL						49		\$ 4,116.00

APPROVED INVOICES



INVOICE

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

Order Information	
Invoice Number	AGD-SPM19-808
CGIA Contract Number	IMAGE19-04
Purchase Order Number	NC10483407
Invoice Amount	\$18,278.00
Invoice Date	October 10, 2019
Performance Period	Aug. 1 thru Sept. 30, 2019

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

Contact Information
Issuing Vendor Administrator: Larry Kirkpatrick Issuing Vendor Email: kirkpatrick@atlasgeodata.com hlambert@atlasgeodata.com Issuing Vendor Phone: 910 256 9892 Issuing Vendor Fax: 910 256 9979

Invoice Summary (per Primary Task)		
Task	Item Description	Amount
3.	Aerotriangulation and Ortho generation	\$ 2,432.00
4.	Product Delivery and Data Acceptance	\$ 10,374.00
5.	Quality Review Resolutions	\$ 5,472.00
	Total	\$ 18,278.00

APPROVED

Digitally signed by Tim Johnson
Date: 2019.11.08 13:42:54 -05'00'

RECEIVED
By Ben Shelton at 9:34 am, Oct 10, 2019



INVOICE

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

Order Information	
Invoice Number	AGD-SPM19-809
CGIA Contract Number	IMAGE19-04
Purchase Order Number	NC10483407
Invoice Amount	\$11,770.50
Invoice Date	November 08, 2019
Performance Period	Oct. 1 thru Oct. 31, 2019

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

Contact Information
Issuing Vendor Administrator: Larry Kirkpatrick Issuing Vendor Email: kirkpatrick@atlasgeodata.com hlambert@atlasgeodata.com Issuing Vendor Phone: 910 256 9892 Issuing Vendor Fax: 910 256 9979

Invoice Summary (per Primary Task)		
Task	Item Description	Amount
5.	Quality Review Resolutions	\$ 10,573.50
6.	Closeout	\$ 1,197.00
	Total	\$ 11,770.50

APPROVED

Digitally signed by Tim Johnson
Date: 2019.11.15 16:42:54 -05'00'

RECEIVED
By Ben Shelton at 12:27 pm, Nov 08, 2019



STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

ROY COOPER
GOVERNOR

JAMES H. TROGDON, III
SECRETARY

Invoice

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

Order Information
Customer Number: 67549
Invoice Number: 90721041
Purchase Order #: 006224-001_7775_0001 **NC10465392**
Purchase Order Date: 08/24/2018
Sales Order Number: 647189
Payment Terms: Net due 30 days
Billing Date: 09/09/2019
Due Date: 10/09/2019

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 08/24/18 WITH NORTH CAROLINA DEPARTMENT OF INFORMATION TECHNOLOGY CENTER FOR GEOGRAPHIC INFORMATION AND ANALYSIS CONSISTING OF PROVIDING ORTHOIMAGERY ADVISORY AND TECHNICAL SERVICES FOR THE DIGITAL SOUTHERN PIEDMONT AND MOUNTAINS 2019 PROJECT IN 21 COUNTIES OF NORTH CAROLINA, TOTALING APPROXIMATELY 10,397 SQUARE MILES AND 11,595 ORTHOIMAGERY TILES (THE STUDY AREA). COSTS INCURRED FOR THE MONTH OF AUGUST 2019 TOTAL \$26,960.46 PER ATTACHED E-MAIL AND DOCUMENTATION RECEIVED FROM RANDY DILLARD OF NCDOT'S PHOTOGRAMMERY UNIT.	1 EA	26,960.46	26,960.46
	Total Amount Due			\$ 26,960.46

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.

RECEIVED
By Ben Shelton at 9:05 am, Sep 10, 2019

APPROVED

Digitally signed
by Tim Johnson
Date:
2019.09.10
12:16:40 -04'00'



STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

ROY COOPER
GOVERNOR

JAMES H. TROGDON, III
SECRETARY

Invoice

Bill To: ITS-CGIA ATTN: TIM JOHNSON PO Box 17209 RALEIGH NC 27609-7209	Order Information Customer Number: 67549 Invoice Number: 90725014 Purchase Order #: 006224-001_7775_00 NC10465392 Purchase Order Date: 08/24/2018 Sales Order Number: 649504 Payment Terms: Net due 30 days Billing Date: 10/09/2019 Due Date: 11/08/2019
---	---

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

Page 1 of 1

Invoice Details				
Item	Description	Quantity	Unit Price	Amount
0010	NC State Agency Participation Reim. INTERAGENCY REIMBURSEMENT AGREEMENT EXECUTED ON 08/24/18 WITH NORTH CAROLINA DEPARTMENT OF INFORMATION TECHNOLOGY CENTER FOR GEOGRAPHIC INFORMATION AND ANALYSIS CONSISTING OF PROVIDING ORTHOIMAGERY ADVISORY AND TECHNICAL SERVICES FOR THE DIGITAL SOUTHERN PIEDMONT AND MOUNTAINS 2019 PROJECT IN 21 COUNTIES OF NORTH CAROLINA, TOTALING APPROXIMATELY 10,397 SQUARE MILES AND 11,595 ORTHOIMAGERY TILES (THE STUDY AREA). COSTS INCURRED FOR THE MONTH OF SEPTEMBER 2019 TOTAL \$24,580.52 PER ATTACHED E-MAIL AND DOCUMENTATION RECEIVED FROM RANDY DILLARD OF NCDOT'S PHOTOGRAMMERY UNIT.	1 EA	24,580.52	24,580.52
Total Amount Due				\$ 24,580.52

APPROVED
 Digitally signed by Tim Johnson
 Date: 2019.11.08 13:38:18 -05'00'

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.

RECEIVED
 By Ben Shelton at 9:56 am, Oct 09, 2019



STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

ROY COOPER
GOVERNOR

JAMES H. TROGDON, III
SECRETARY

Invoice

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

Order Information
Customer Number: 67549
Invoice Number: 90728223
Purchase Order #: 006224-001_7775_0001 **NC10465392**
Purchase Order Date: 08/24/2018
Sales Order Number: 652360
Payment Terms: Net due 30 days
Billing Date: 11/14/2019
Due Date: 12/14/2019

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 08/24/18 WITH NORTH CAROLINA DEPARTMENT OF INFORMATION TECHNOLOGY CENTER FOR GEOGRAPHIC INFORMATION AND ANALYSIS CONSISTING OF PROVIDING ORTHOIMAGERY ADVISORY AND TECHNICAL SERVICES FOR THE DIGITAL SOUTHERN PIEDMONT AND MOUNTAINS 2019 PROJECT IN 21 COUNTIES OF NORTH CAROLINA, TOTALING APPROXIMATELY 10,397 SQUARE MILES AND 11,595 ORTHOIMAGERY TILES (THE STUDY AREA). COSTS INCURRED FOR THE MONTH OF OCTOBER 2019 TOTAL \$1,217.28 PER ATTACHED E-MAIL AND DOCUMENTATION RECEIVED FROM RANDY DILLARD OF NCDOT'S PHOTOGRAMMERY UNIT.	1 EA	1,217.28	1,217.28
Total Amount Due				\$ 1,217.28

APPROVED
Tim Johnson

Digitally signed
by Tim Johnson
Date:
2019.11.15
16:46:12 -05'00'

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 \$25.00 fee may be imposed for a check on which payment has been refused.

RECEIVED
By Ben Shelton at 8:29 am, Nov 14, 2019

Invoice



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

Date	Invoice #
9/9/2019	S-502

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

P.O. No.	Terms	Project
EP NC10477025	Net 30	Southern Piedmont and Mo...

Quantity	Description	Rate	Amount
15	2019 Southern Piedmont and Mountain Orthoimagery July 1 - July 31 2019	46.77	701.55
	CORS receiver firmware upgrade and equipment warranty (three CORS sites: Troy (Montgomery County), Swannanoa (Buncombe County) and Rosman (Transylvania County))	2,511.75	2,511.75
Digitally signed by Tim Johnson Date: 2019.09.10 12:25:03 -04'00' 			
Total			\$3,213.30

RECEIVED

By Ben Shelton at 8:30 am, Sep 10, 2019

Invoice




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

Date	Invoice #
9/18/2019	S-505

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

P.O. No.	Terms	Project
EP NC10477025	Net 30	Southern Piedmont and Mo...

Quantity	Description	Rate	Amount
	2019 Southern Piedmont and Mountain Orthoimagery		
30	Developing a horizontal quality control plan and identifying location of QC points (Task 3.1 and 3.2) August 1 through August 31, 2019 WR	46.77	1,403.10
1.5	Quality control field surveys (Task 3.3) August 30, 2019 RH	46.77	70.16
	GNSS upgrades (4 CORS sites) to Galileo and BeiDou (Task 2.1.1) July 30, 2019	8,400.00	8,400.00
<div data-bbox="459 1539 743 1732" data-label="Text"> <p>APPROVED </p> </div>		<div data-bbox="755 1514 1049 1766" data-label="Text"> <p>Digitally signed by Tim Johnson Date: 2019.11.08 13:40:06 -05'00'</p> </div>	
Total			\$9,873.26

RECEIVED

By Ben Shelton at 9:00 am, Oct 10, 2019

Invoice




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

Date	Invoice #
11/14/2019	S-507

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

P.O. No.	Terms	Project
EP NC10477025	Net 30	Southern Piedmont and Mo...

Quantity	Description	Rate	Amount
	2019 Southern Piedmont and Mountains Project		
2	Developing a horizontal quality control plan and identifying location of QC points (Task 3.1 and 3) September 1 through September 30, 2019. WR	46.77	93.54
41	Quality control field surveys (Task 3.3) September 3 through September 16, 2019. RH	46.77	1,917.57
53	Quality control field surveys (Task 3.3) September 19 through September 30, 2019. WK	46.77	2,478.81
<div data-bbox="386 1486 706 1701" data-label="Text"> <p>APPROVED </p> </div>		<div data-bbox="711 1457 1040 1738" data-label="Text"> <p>Digitally signed by Tim Johnson Date: 2019.11.15 16:41:00 -05'00'</p> </div>	
Total			\$4,489.92

RECEIVED

By Ben Shelton at 12:31 pm, Nov 13, 2019

Invoice



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

Date	Invoice #
11/12/2019	S-508

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

P.O. No.	Terms	Project
EP NC10477025	Net 30	Southern Piedmont and Mo...

Quantity	Description	Rate	Amount
	2019 Southern Piedmont and Mountains Project		
16	Developing a horizontal quality control plan and identifying location of QC points (Task 3.1 and 3.2) October 1 through October 30, 2019. WR	46.77	748.32
13	Quality control field surveys (Task 3.3) October 1 thorough October 3, 2019. WK	0.00 46.77	608.01
10	CORS maintenance and upgrade (Task 2.1.2) October 7, 2019. MR	46.77	467.70

Digitally signed
 by Tim Johnson
 Date: 2019.11.15 16:41:48 -05'00'

APPROVED

			Total	\$1,824.03
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RECEIVED
 By Ben Shelton at 12:31 pm, Nov 13, 2019



INVOICE

Bill To		
41PT		
ITS	ACCOUNTS	PAYABLE
POBOX17209		
Raleigh, NC		27619-7209
UnitedStates		
Phone: 919-754-6314		


Order Information	
Invoice Number	34694-004
CGIA Contract Number	IMAGE19-07
Purchase Order Number	NC10500749
Invoice Amount	\$8,400
Invoice Date	September 3, 2019
Performance Period	08-01-19 to 08-31-19

Remit To
Updated Remittance info with Jason Pollard

Contact Information
Chris Holder cholder@quantumspatial.com Vendor Phone: (859) 277-8700 Vendor Fax: 859-277-8701

Invoice Summary (per Primary Task)		
Task	Item Description	Amount
6	Hosting and Project Close	\$8,400.00
	TOTAL	\$8,400.00

APPROVED



Digitally signed by Tim Johnson
Date: 2019.09.10 12:10:40 -04'00'

RECEIVED
By Ben Shelton at 9:31 am, Sep 03, 2019



INVOICE

Bill To		
41PT		
ITS ACCOUNTS	PAYABLE	
POBOX17209		
Raleigh,NC	27619-7209	
UnitedStates		
Phone: 919-754-6314		


Order Information	
Invoice Number	34694-005
CGIA Contract Number	IMAGE19-07
Purchase Order Number	NC10500749
Invoice Amount	\$8,400
Invoice Date	October 7, 2019
Performance Period	09-01-19 to 09-30-19

Remit To
Updated Remittance info with Jason Pollard

Contact Information
Chris Holder cholder@quantumspatial.com Vendor Phone: (859) 277-8700 Vendor Fax: 859-277-8701

Invoice Summary (per Primary Task)		
Task	Item Description	Amount
6	Hosting and Project Close	\$8,400.00
	TOTAL	\$8,400.00

APPROVED



Digitally signed by Tim Johnson
Date: 2019.11.08 13:41:23 -05'00'

RECEIVED
By Ben Shelton at 7:28 am, Nov 06, 2019



INVOICE

Bill To		
41PT		
ITS ACCOUNTS	PAYABLE	
POBOX17209		
Raleigh, NC	27619-7209	
UnitedStates		
Phone: 919-754-6314		


Order Information	
Invoice Number	34694-006
CGIA Contract Number	IMAGE19-07
Purchase Order Number	NC10500749
Invoice Amount	\$8,400
Invoice Date	November 4, 2019
Performance Period	10-01-19 to 10-31-19

Remit To
Updated Remittance info with Jason Pollard

Contact Information
Chris Holder cholder@quantumspatial.com Vendor Phone: (859) 277-8700 Vendor Fax: 859-277-8701

Invoice Summary (per Primary Task)		
Task	Item Description	Amount
6	Hosting and Project Close	\$8,400.00
	TOTAL	\$8,400.00

APPROVED



Digitally signed by Tim Johnson
Date: 2019.11.15 16:45:10 -05'00'

RECEIVED
By Ben Shelton at 7:32 am, Nov 06, 2019



INVOICE

Bill To		
41PT		
ITS	ACCOUNTS	PAYABLE
POBOX17209		
Raleigh,NC		27619-7209
UnitedStates		
Phone: 919-754-6314		

Order Information	
Invoice Number	34694-007
CGIA Contract Number	IMAGE19-07
Purchase Order Number	NC10500749
Invoice Amount	\$4,200
Invoice Date	December 2, 2019
Performance Period	11-01-19 to 11-30-19

Remit To
Updated Remittance info with Jason Pollard

Contact Information
Chris Holder cholder@quantumspatial.com Vendor Phone: (859) 277-8700 Vendor Fax: 859-277-8701

Invoice Summary (per Primary Task)		
Task	Item Description	Amount
6	Hosting and Project Close	\$4,200.00
	TOTAL	\$4,200.00
<div data-bbox="431 1539 743 1749" data-label="Text"> <p>APPROVED </p> </div>		<div data-bbox="753 1516 1062 1785" data-label="Text"> <p>Digitally signed by Tim Johnson Date: 2019.12.19 10:50:16 -05'00'</p> </div>

RECEIVED
By Ben Shelton at 3:54 pm, Dec 06, 2019



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


INVOICE

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

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

Order Information	
Invoice Number	SPM19-09
CGIA Contract Number	IMAGE19-06
Purchase Order Number	NC10483409
Invoice Amount	\$14,801.00
Invoice Date	09/03/19
Performance Period	08/01/19 through 08/31/19

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
4	Product Delivery and Data Acceptance	\$14,801.00
	<div style="border: 1px solid black; padding: 5px; display: inline-block;"> APPROVED  </div> Digitally signed by Tim Johnson Date: 2019.09.10 12:07:45 -04'00'	
	Invoice Total	\$14,801.00

RECEIVED
 By Ben Shelton at 9:32 am, Sep 03, 2019



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 High Point, NC 27262
 Phone: (336) 841-1247
 Fax: (336) 841-1248
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INVOICE

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

Order Information	
Invoice Number	SPM19-10
CGIA Contract Number	IMAGE19-06
Purchase Order Number	NC10483409
Invoice Amount	\$19,760.00
Invoice Date	10/03/19
Performance Period	09/01/19 through 09/30/19

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

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
5	Quality Review Resolutions	\$19,760.00
	<div style="display: flex; align-items: center;"> <div style="border: 1px solid black; padding: 5px; margin-right: 10px;"> <p style="margin: 0;">APPROVED</p> </div> <div> <p>Digitally signed by Tim Johnson</p> <p>Date: 2019.11.08 13:34:24 -05'00'</p> </div> </div>	
	Invoice Total	\$19,760.00

RECEIVED
 By Ben Shelton at 7:15 am, Oct 04, 2019



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INVOICE

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

Order Information	
Invoice Number	SPM19-11
CGIA Contract Number	IMAGE19-06
Purchase Order Number	NC10483409
Invoice Amount	\$7,049.00
Invoice Date	11/11/19
Performance Period	10/01/19 through 10/31/19

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

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
5	Quality Review Resolutions	\$7,049.00
	Invoice Total	\$7,049.00

APPROVED


Digitally signed by Tim Johnson
 Date: 2019.11.18 09:54:42 -05'00'

RECEIVED
 By Ben Shelton at 7:16 am, Nov 18, 2019


INVOICE

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

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

Order Information	
Invoice Number	SPM19-12
CGIA Contract Number	IMAGE19-06
Purchase Order Number	NC10483409
Invoice Amount	\$2,850.00
Invoice Date	12/04/19
Performance Period	11/01/19 through 11/30/19

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
6	Project Closeout	\$2,850.00
	<div style="border: 1px solid black; padding: 5px; display: inline-block;"> <p style="margin: 0;">APPROVED</p>  </div> <p>Digitally signed by Tim Johnson Date: 2019.12.19 10:52:16 -05'00'</p>	
	Invoice Total	\$2,850.00

RECEIVED
By Ben Shelton at 3:57 pm, Dec 06, 2019



INVOICE


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

Order Information	
Invoice Number	4685
CGIA Contract Number	IMAGE19
Purchase Order Number	NC10483410
Invoice Amount	\$10,716.00
Invoice Date	November 6, 2019
Performance Period	October 1, 2019 – October 31, 2019

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
5	Quality Review Resolutions	10,716.00
	Total	\$10,716.00

APPROVED

Digitally signed by Tim Johnson
Date: 2019.11.15 16:44:26 -05'00'

RECEIVED
By Ben Shelton at 12:32 pm, Nov 08, 2019



INVOICE

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


Order Information	
Invoice Number	4663
CGIA Contract Number	IMAGE19
Purchase Order Number	NC10483410
Invoice Amount	\$28,158.00
Invoice Date	October 2, 2019
Performance Period	September 1, 2019 – September 30, 2019

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
4	Product Delivery and Data Acceptance	18,354.00
5	Quality Review Resolutions	9,804.00
	Total	\$28,158.00

APPROVED



Digitally signed
by Tim Johnson
Date:
2019.11.08
13:36:09 -05'00'

RECEIVED
By Ben Shelton at 7:15 am, Oct 04, 2019



INVOICE

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

Order Information	
Invoice Number	4715
CGIA Contract Number	IMAGE19
Purchase Order Number	NC10483410
Invoice Amount	\$4655.00
Invoice Date	December 4, 2019
Performance Period	November 1, 2019 – November 30, 2019

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
6	Project Closeout	4655.00
	Total	\$4655.00

APPROVED

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Date: 2019.12.19 10:51:15 -05'00'

RECEIVED
By Ben Shelton at 3:58 pm, Dec 06, 2019



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	COS00006424R
CGIA Contract Number	IMAGE19-05
Purchase Order Number	NC10483408
Invoice Amount	\$49,226.58
Invoice Date	October 10, 2019
Performance Period	August 1, 2019 through September 30, 2019

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

Contact Information
Maralyn Kuenstler mkuenstler@sanborn.com Phone: (719) 264.5564 Fax: (719) 623.0074

Invoice Summary (per Primary Task)		
Task	Item Description	Amount
3	Aerotriangulation and Ortho Generation	\$18,714.09
4	Level 1 Review and Initial GeoTIFF Submission	\$16,779.94
5	Quality Review Resolutions	\$13,732.55
	Total	\$49,226.58

RECEIVED
 By Ben Shelton at 7:40 am, Nov 06, 2019

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 by Tim Johnson
 Date:
 2019.11.08
 13:44:59 -05'00'



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	COS00006458
CGIA Contract Number	IMAGE19-05
Purchase Order Number	NC10483408
Invoice Amount	\$7,298.54
Invoice Date	November 6, 2019
Performance Period	October 1, 2019 through October 31, 2019

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
5	Quality Review Resolutions	\$7,298.54
	Total	\$7,298.54

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 By Ben Shelton at 12:29 pm, Nov 08, 2019

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 Date: 2019.11.15 16:43:41 -05'00'

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ACH INFORMATION:
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CHICAGO, IL 60675

E-mail Remittance To: gachremittance@cdw.com

ROUTING NO.: 071000152
ACCOUNT NAME: CDW GOVERNMENT
ACCOUNT NO.: 91057



CDW Government
75 Remittance Drive, Suite 1515
Chicago, IL 60675-1515



RETURN SERVICE REQUESTED

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AUG 27 2019

INVOICE NUMBER	INVOICE DATE	CUSTOMER NUMBER
TNP0789	08/20/19	5640050
SUBTOTAL	SHIPPING	SALES TAX
\$519.12	\$0.00	\$0.00
DUE DATE		AMOUNT DUE
09/19/19		\$519.12

500 1 MB 0.428 E0183X I0244 D5 108786294 S2 P8872544 0001:0002



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RALEIGH NC 27619-7209



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75 Remittance Drive
Suite 1515
Chicago, IL 60675-1515

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INVOICE DATE	INVOICE NUMBER	PAYMENT TERMS			DUE DATE	
08/20/19	TNP0789	Net 30 Days			09/19/19	
ORDER DATE	SHIP VIA	PURCHASE ORDER NUMBER			CUSTOMER NUMBER	
08/13/19	UPS Ground (2-3 Day)	10535243			5640050	
ITEM NUMBER	DESCRIPTION	QTY ORD	QTY SHIP	QTY B/O	UNIT PRICE	TOTAL
5347237	WD 1TB MY PASSPORT USB 3.1 EXT SSD Manufacturer Part Number: WDBK VX0010PSL-WESN Serial No: 19284R440106 Serial No: 19284R445404 Serial No: 884116269274	33	3	0	173.04	519.12

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ACCOUNT MANAGER	SHIPPING ADDRESS:	SUBTOTAL	
FRANK LIEBERMAN 703-262-8026 franlie@cdwg.com	NC ITS DEPT BEN SHELTON 3700 WAKE FOREST RD RALEIGH NC 27609-6833	\$519.12	
SALES ORDER NUMBER		SHIPPING	\$0.00
KVCZ771		SALES TAX	\$0.00
		AMOUNT DUE	\$519.12



Cage Code Number 1KH72
DUNS Number 02-615-7235

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 50 SOUTH LASALLE STREET
 CHICAGO, IL 60675

E-mail Remittance To: gachremittance@cdw.com
 ROUTING NO.: 071000152
 ACCOUNT NAME: CDW GOVERNMENT
 ACCOUNT NO.: 91057



CDW Government
 75 Remittance Drive, Suite 1515
 Chicago, IL 60675-1515



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DIT
 ACCOUNTING

496 1 MB 0.428 E0179 I0250 D5166269896 S2 P6667774 0002:0002



NC-ITS
 ACCOUNTS PAYABLE
 PO BOX 17209
 RALEIGH NC 27619-7209

INVOICE NUMBER	INVOICE DATE	CUSTOMER NUMBER
TNM2216	08/19/19	5640050
SUBTOTAL	SHIPPING	SALES TAX
\$4,152.96	\$0.00	\$0.00
DUE DATE		AMOUNT DUE
09/18/19		\$4,152.96



CDW Government
 75 Remittance Drive
 Suite 1515
 Chicago, IL 60675-1515

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INVOICE DATE	INVOICE NUMBER	PAYMENT TERMS			DUE DATE	
08/19/19	TNM2216	Net 30 Days			09/18/19	
ORDER DATE	SHIP VIA	PURCHASE ORDER NUMBER			CUSTOMER NUMBER	
08/13/19	UPS Ground (2- 3 Day)	10535243			5640050	
ITEM NUMBER	DESCRIPTION	QTY ORD	QTY SHIP	QTY B/O	UNIT PRICE	TOTAL
5347237	WD 1TB MY PASSPORT USB 3.1 EXT SSD Manufacturer Part Number: WDBKVBX0010PSL-WESN Serial No: 19272E442609 Serial No: 19272E453701 Serial No: 19284Q442708 Serial No: 19284Q443303 Serial No: 19284Q447301 Serial No: 19284Q447811 Serial No: 19284Q447902 Serial No: 19284Q450211 Serial No: 19284Q451201 Serial No: 19284Q451203 Serial No: 19284Q451303 Serial No: 19284Q451514 Serial No: 19284Q453213 Serial No: 19284Q453304 Serial No: 19284R444005 Serial No: 19284R446105 Serial No: 19284R447606 Serial No: 19284R447713 Serial No: 19284R448002 Serial No: 19284R448003 Serial No: 19284R448013 Serial No: 19284R448113 Serial No: 19284R448302 Serial No: 420276096833	33	24	3	173.04	4,152.96
ACCOUNT MANAGER		SHIPPING ADDRESS:			SUBTOTAL	\$4,152.96
FRANK LIEBERMAN 703-262-8026 franlie@cdwg.com		NC ITS DEPT BEN SHELTON 3700 WAKE FOREST RD RALEIGH NC 27609-6833			SHIPPING	\$0.00
SALES ORDER NUMBER					SALES TAX	\$0.00
KVCZ771					AMOUNT DUE	\$4,152.96

Cage Code Number 1KH72
 DUNS Number 02-615-7235

ISO 9001 and ISO 14001 Certified
 CDW GOVERNMENT FEIN 36-4230110

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 50 SOUTH LASALLE STREET
 CHICAGO, IL 60675

E-mail Remittance To: gachremittance@cdw.com
 ROUTING NO.: 071000152
 ACCOUNT NAME: CDW GOVERNMENT
 ACCOUNT NO.: 91057



CDW Government
 75 Remittance Drive, Suite 1515
 Chicago, IL 60675-1515



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 ACCOUNTING**

496 1 MB 0.428 E0179X I0249 D5164124334 S2 P6667774 0001:0002



INVOICE NUMBER	INVOICE DATE	CUSTOMER NUMBER
TNB3701	08/16/19	5640050
SUBTOTAL	SHIPPING	SALES TAX
\$173.04	\$0.00	\$0.00
DUE DATE		AMOUNT DUE
09/15/19		\$173.04



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 Suite 1515
 Chicago, IL 60675-1515



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 RALEIGH NC 27619-7209

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INVOICE DATE	INVOICE NUMBER	PAYMENT TERMS			DUE DATE	
08/16/19	TNB3701	Net 30 Days			09/15/19	
ORDER DATE	SHIP VIA	PURCHASE ORDER NUMBER			CUSTOMER NUMBER	
08/13/19	UPS Ground (2- 3 Day)	10535243			5640050	
ITEM NUMBER	DESCRIPTION	QTY ORD	QTY SHIP	QTY B/O	UNIT PRICE	TOTAL
5347237	WD 1TB MY PASSPORT USB 3.1 EXT SSD Manufacturer Part Number: WDBKVBX0010PSL-WESN Serial No: 19167C442012	33	1	27	173.04	173.04

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ACCOUNT MANAGER	SHIPPING ADDRESS:	SUBTOTAL	
FRANK LIEBERMAN 703-262-8026 franlie@cdwg.com	NC ITS DEPT BEN SHELTON 3700 WAKE FOREST RD RALEIGH NC 27609-6833	\$173.04	
SALES ORDER NUMBER		SHIPPING	\$0.00
KVCZ771		SALES TAX	\$0.00
		AMOUNT DUE	\$173.04

Cage Code Number 1KH72
 DUNS Number 02-615-7235

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January 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 will be referred to as the Coastal 2020 Orthoimagery Project. This report summarizes the project status for the period from July 1, 2019 – December 31, 2019.

Accomplishments

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

CGIA

- CGIA initiated the project in July 2019 and held weekly project management meetings with the project team.
- Performed initial project management procurement activities.
- Developed sub-contract agreement with the NC Department of Transportation for technical and advisory roles.
- Developed sub-contract agreement with the NC Department of Public Safety for performing horizontal quality control and serving an advisory role.
- Initiated a Qualifications-Based Selection (QBS) process to develop sub-contractor agreements with acquisition contractors.
- Posted the Request for Qualifications through the state Interactive Purchasing System on July 31 and closed on August 26.
- Received and evaluated seven RFQ responses. Five contractors were selected with one alternate.
- Developed a draft scope of work and received cost proposals from the five selected contractors.
- Evaluated cost proposals and performed detailed analysis of project cost estimates to facilitate cost negotiations with contractors.
- Compiled all QBS documentation and submitted to DOA – Purchase and Contract Division for review.
- Conducted contractor negotiations on October 28 for a total contractor budget of \$2,778,656, which is \$486,083 under budget.
- Submitted tickets to issue Purchase Orders for contractor agreements and Purchase Orders were issued on December 30.
- Coordinated and held project kickoff meeting on December 12, 2019 with all project team members and contractors.
- Created and distributed project data for contractors.
- Selected and distributed imagery radiometry target to facilitate contractor color balancing.
- Initiated development of the project website and project SharePoint site for sharing documents among the project team and for receiving contracted deliverables from contractors.
- Other tasks include regular team meetings and ongoing outreach to federal, state and local partners.

NC Department of Transportation (NCDOT)

- Attended team strategy meetings and weekly status meetings.
- Assisted with the development of the QBS RFQ.
- Evaluated RFQ proposals.
- Attended RFQ scoring workshop and served as scoring team member.
- Assisted with development of draft scope of work.
- Assisted with contractor cost evaluations and attended negotiations.
- Evaluated and performed detailed analysis of submitted flight plans from contractors.
- Attended project kickoff meeting on December 12, 2019.
- Provided technical support for project planning.

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

- Attended team strategy meetings.
- Assisted with the development of the QBS RFQ.
- Evaluated RFQ proposals.
- Attended RFQ scoring workshop and served as scoring team member.
- Performed update of the validation range and CORS maintenance.
- Assisted with contractor cost evaluations and attended negotiations.
- Evaluated submitted validation range reports for new cameras to the project.
- Attended project kickoff meeting on December 12, 2019.
- Purchased necessary equipment to support the project and renewed software licenses necessary to support the project.

Acquisition Vendors

This section summarizes the accomplishments of the five prime acquisition vendors selected through the Qualifications-Based Selection (QBS) process. The selected vendors 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

Task	Reported Percent Complete (as of latest invoice)				
	Atlas Geographic Data	Quantum Spatial	Sanborn Map Company	Spatial Data Consultant	Surdex Corporation
Task 1: Flight Planning	0%	0%	0%	0%	0%
Task 2: Acquisition	0%	0%	0%	0%	0%

Task 3: Aerotriangulation and Ortho Generation	0%	0%	0%	0%	0%
Task 4: Product Delivery and Data Acceptance	0%	0%	0%	0%	0%
Task 5: Quality Review Resolutions	0%	0%	0%	0%	0%
Task 6: Closeout	0%	0%	0%	0%	0%

For the July through December 2019 reporting period, the status of all tasks is listed below:

[Acquisition of imagery for 27 counties is estimated to begin on January 31st, 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
1	Project Initiation	7/1/2019	12/31/2019	
	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	Planning and Design	10/15/2019	4/30/2020	
	CORS Upgrades	10/15/2019	3/1/2020	
	Validation Range	10/15/2019	1/14/2020	
	RTN Maintenance	10/15/2019	Ongoing	
	Control Surveys and Attachment C-1: Control Surveys Report	12/12/2019	4/2/2020	
3A	Acquisition	1/20/2020	4/27/2020	
	Acquire Imagery for 27 Counties	1/20/2020	3/15/2020	
	Attachment D: Imagery Acquisition Compliance Report	2/1/2020	4/27/2020	
3B	Acquisition Post-Processing	2/1/2020	5/21/2020	
	Attachment E: GNSS-IMU Post Processing & Aerotriangulation Report	3/1/2020	5/15/2020	
	Ortho Generation Workshop	3/24/2020	3/24/2020	
	Study Area Web Map Service	4/1/2020	5/21/2020	
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 July 1, 2019 – December 31, 2019. The total budget for the project is \$4,108,739.

Item	This Reporting Period	Cumulative to Date	Percent Expended to Date
CGIA			
CGIA Labor	\$27,762.00	\$27,762.00	7.9%
ITS Hosting and Information Technology	\$0.00	\$0.00	0.0%
CGIA Travel	\$315.63	\$315.63	7.9%
CGIA Reimbursable Expenses	\$0.00	\$0.00	0.0%
CGIA Total	\$28,077.63	\$28,077.63	6.9%
Subcontractors			
NCDPS-NCGS	\$15,937.80	\$15,937.80	7.8%
NCDOT	\$15,283.78	\$15,283.78	9.9%
Sanborn Map Company	\$0.00	\$0.00	0.0%
Atlas Geographic Data	\$0.00	\$0.00	0.0%
Surdex	\$0.00	\$0.00	0.0%
Spatial Data Consultants	\$0.00	\$0.00	0.0%
VOICE	\$0.00	\$0.00	0.0%
Subcontractor Total	\$31,221.58	\$31,221.58	1.1%
Total (for Project)	\$59,299.21	\$59,299.21	1.4%

Major Tasks Identified for January 2020

CGIA

- Develop and submit agreement to the VOICE contractor.
- Submit requisition for VOICE purchase order.
- Initiate DIT exception request process for sole source contracting for the VOICE contract.
- Continue to develop project website and SharePoint site.
- Other tasks include regular team meetings and ongoing outreach to federal, state and local partners.

NCDOT

- Attend weekly project meetings.
- Continue to evaluate submitted flight plans and ground control from contractors.
- Evaluate vendor technical reports for NC Validation Range Tasks.
- Continue technical support for project planning.

NCGS

- Attend weekly project meetings
- Perform CORS maintenance when needed in the project area
- Post quality control RFQ

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 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 regarding technical matters related to the project.

Sincerely,

A handwritten signature in black ink that reads "Tim Johnson". The signature is written in a cursive style with a large, prominent "T" and "J".

Tim Johnson, GISP
Director
Center for Geographic Information and Analysis

COMPUTER BILL

BILLABLE CGIA CHARGES
FOR OCTOBER 2019

06:28 Thursday, November 7, 2019 2

----- APPL=MGL -----

Obs	APPL	COSTCTR	CHGITEM	Qty	charges
6	MGL	1082	870066	224.00	18816.00

BILLABLE CGIA CHARGES
FOR NOVEMBER 2019

Thursday, December 5, 2019 2

----- APPL=MGL -----

Obs	APPL	COSTCTR	CHGITEM	Qty	charges
17	MGH	1082	870059	4944.29	4944.29
18	MGL	1082	870059	15937.80	15937.80
19	MGL	1082	870059	10339.49	10339.49
20	MGL	1082	870066	36.00	3024.00
----				-----	-----
APPL				26313.29	29301.29

BILLABLE CGIA CHARGES
FOR DECEMBER 2019

13:42 Tuesday, January 7, 2020 2

----- APPL=MGL -----

Obs	APPL	COSTCTR	CHGITEM	Qty	charges
8	MGL	1082	870059	315.63	315.63
9	MGL	1082	870066	70.50	5922.00
----				-----	-----
APPL				386.13	6237.63

ACCOUNTS PAYABLE

								31,221.58								
FUND	CENTER	ACCOUNT	PAY ENTITY	CTRL NO	PAYMENT DATE	CHECK NO	INVOICE NO	AMOUNT PAID	VENDOR NO	VENDOR GROUP	VENDOR NAME	INVOICE DATE	LINE ITEM DESCRIPTION	PO NUMBER	PO LINE NO	REMIT MESSAGE
7115	1082	532199	41PT	2006	11/14/2019	140188	90725046	4,944.29	566000967	Y	NC DEPT OF TRANSPORTATION	10/10/2019	IMAGE20 - FY19-20	NC10546123	1	#90725046
7115	1082	532199	41PT	2013	11/21/2019	140377	90728198	10,339.49	566000967	Y	NC DEPT OF TRANSPORTATION	11/13/2019	IMAGE20 - FY19-20	NC10546123	1	#90728198
7115	1082	532199	41PT	2013	11/21/2019	203768	S-506	15,937.80	300712287	13	NC DPS GENERAL OPERATIONS	11/4/2019	IMAGE20 - FY19-20	NC10550604	1	#S-506

LABOR

DIT - CGIA
Staff Billing Report
Activity: August 2019

	Client	Date	vice	Memo/Description	Rates	Duration	Billable	Amount
Ben Shelton								
	IMAGE20	08/06/2019	Services:55	Project Management	84.00	2	Yes	168.00
	IMAGE20	08/07/2019	Services:55	Project Management	84.00	2	Yes	168.00
	IMAGE20	08/08/2019	Services:55	Project Management	84.00	2	Yes	168.00
	IMAGE20	08/12/2019	Services:55	Project Management	84.00	1	Yes	84.00
	IMAGE20	08/13/2019	Services:55	Project Management	84.00	2	Yes	168.00
	IMAGE20	08/14/2019	Services:55	Project Management	84.00	1	Yes	84.00
	IMAGE20	08/19/2019	Services:55	Project Management	84.00	1	Yes	84.00
	IMAGE20	08/20/2019	Services:55	Project Management	84.00	3	Yes	252.00
	IMAGE20	08/21/2019	Services:55	Project Management	84.00	1	Yes	84.00
	IMAGE20	08/22/2019	Services:55	Project Management	84.00	2	Yes	168.00
	IMAGE20	08/23/2019	Services:55	Project Management	84.00	3	Yes	252.00
	IMAGE20	08/26/2019	Services:55	Project Management	84.00	6	Yes	504.00
	IMAGE20	08/27/2019	Services:55	Project Management	84.00	3	Yes	252.00
	IMAGE20	08/28/2019	Services:55	Project Management	84.00	3	Yes	252.00
	IMAGE20	08/29/2019	Services:55	Project Management	84.00	5	Yes	420.00
Total for Ben Shelton						37		\$ 3,108.00
Matthew McLamb								
Total for Matthew McLamb						0		\$ -
Tim Johnson								
	IMAGE20	08/09/2019	Services:15	Consulting	84.00	0.5	Yes	42.00
	IMAGE20	08/16/2019	Services:15	Consulting	84.00	0.5	Yes	42.00
	IMAGE20	08/20/2019	Services:15	Consulting	84.00	2	Yes	168.00
	IMAGE20	08/26/2019	Services:15	Consulting	84.00	1	Yes	84.00
Total for Tim Johnson						4		\$ 336.00
TOTAL						41		\$ 3,444.00

DIT - CGIA
Staff Billing Report
Activity: September 2019

	Client	Activity Date	Product/Service	Memo/Description	Rates	Duration	Billable	Amount
Ben Shelton								
	IMAGE20	09/03/2019	Services:55	Project Management	84.00	4	Yes	336.00
	IMAGE20	09/04/2019	Services:55	Project Management	84.00	4	Yes	336.00
	IMAGE20	09/05/2019	Services:55	Project Management	84.00	5	Yes	420.00
	IMAGE20	09/06/2019	Services:55	Project Management	84.00	5	Yes	420.00
	IMAGE20	09/09/2019	Services:55	Project Management	84.00	2	Yes	168.00
	IMAGE20	09/10/2019	Services:55	Project Management	84.00	3	Yes	252.00
	IMAGE20	09/11/2019	Services:55	Project Management	84.00	4	Yes	336.00
	IMAGE20	09/12/2019	Services:55	Project Management	84.00	5	Yes	420.00
	IMAGE20	09/13/2019	Services:55	Project Management	84.00	5	Yes	420.00
	IMAGE20	09/14/2019	Services:55	Project Management	84.00	3	Yes	252.00
	IMAGE20	09/16/2019	Services:55	Project Management	84.00	4	Yes	336.00
	IMAGE20	09/17/2019	Services:55	Project Management	84.00	2	Yes	168.00
	IMAGE20	09/18/2019	Services:40	Presentations/Demonstrations/Meetings	84.00	4	Yes	336.00
	IMAGE20	09/19/2019	Services:40	Presentations/Demonstrations/Meetings	84.00	4	Yes	336.00
	IMAGE20	09/20/2019	Services:40	Presentations/Demonstrations/Meetings	84.00	3	Yes	252.00
	IMAGE20	09/23/2019	Services:55	Project Management	84.00	2	Yes	168.00
	IMAGE20	09/24/2019	Services:55	Project Management	84.00	3	Yes	252.00
Total for Ben Shelton						62		\$ 5,208.00
Matthew McLamb								
	IMAGE20	09/24/2019	Services:15	Consulting	84.00	1	Yes	84.00
Total for Matthew McLamb						1		\$ 84.00
Tim Johnson								
	IMAGE20	09/06/2019	Services:15	Consulting	84.00	0.5	Yes	42.00
	IMAGE20	09/10/2019	Services:15	Consulting	84.00	4	Yes	336.00
	IMAGE20	09/11/2019	Services:15	Consulting	84.00	1	Yes	84.00
	IMAGE20	09/12/2019	Services:15	Consulting	84.00	2	Yes	168.00
	IMAGE20	09/13/2019	Services:15	Consulting	84.00	3	Yes	252.00
Total for Tim Johnson						10.5		\$ 882.00
TOTAL						73.5		\$ 6,174.00

DIT - CGIA
Staff Billing Report
Activity: October 2019

	Client	Date	vice	Memo/Description	Rates	Duration	Billable	Amount
Ben Shelton								
	IMAGE20	10/01/2019	Services:40	Presentations/Demonstrations/Meetings	84.00	1	Yes	84.00
	IMAGE20	10/01/2019	Services:55	Project Management	84.00	4.5	Yes	378.00
	IMAGE20	10/02/2019	Services:55	Project Management	84.00	4	Yes	336.00
	IMAGE20	10/02/2019	Services:40	Presentations/Demonstrations/Meetings	84.00	1	Yes	84.00
	IMAGE20	10/03/2019	Services:55	Project Management	84.00	3	Yes	252.00
	IMAGE20	10/04/2019	Services:55	Project Management	84.00	2	Yes	168.00
	IMAGE20	10/04/2019	Services:40	Presentations/Demonstrations/Meetings	84.00	1	Yes	84.00
	IMAGE20	10/07/2019	Services:55	Project Management	84.00	4	Yes	336.00
	IMAGE20	10/08/2019	Services:55	Project Management	84.00	4	Yes	336.00
	IMAGE20	10/09/2019	Services:55	Project Management	84.00	2	Yes	168.00
	IMAGE20	10/10/2019	Services:55	Project Management	84.00	2	Yes	168.00
	IMAGE20	10/14/2019	Services:55	Project Management	84.00	3	Yes	252.00
	IMAGE20	10/15/2019	Services:55	Project Management	84.00	4	Yes	336.00
	IMAGE20	10/16/2019	Services:55	Project Management	84.00	3	Yes	252.00
	IMAGE20	10/17/2019	Services:55	Project Management	84.00	4	Yes	336.00
	IMAGE20	10/18/2019	Services:55	Project Management	84.00	4	Yes	336.00
	IMAGE20	10/21/2019	Services:55	Project Management	84.00	3	Yes	252.00
	IMAGE20	10/22/2019	Services:55	Project Management	84.00	6	Yes	504.00
	IMAGE20	10/23/2019	Services:55	Project Management	84.00	4	Yes	336.00
	IMAGE20	10/24/2019	Services:55	Project Management	84.00	5	Yes	420.00
	IMAGE20	10/25/2019	Services:55	Project Management	84.00	5	Yes	420.00
	IMAGE20	10/28/2019	Services:55	Project Management	84.00	5	Yes	420.00
	IMAGE20	10/29/2019	Services:55	Project Management	84.00	5	Yes	420.00
	IMAGE20	10/30/2019	Services:55	Project Management	84.00	3	Yes	252.00
	IMAGE20	10/31/2019	Services:55	Project Management	84.00	3	Yes	252.00
Total for Ben Shelton						85.5		\$ 7,182.00
Matthew McLamb								
	IMAGE20	10/28/2019	Services:15	Consulting	84.00	1.5	Yes	126.00
Total for Matthew McLamb						1.5		\$ 126.00
Tim Johnson								
	IMAGE20	10/28/2019	Services:15	Consulting	84.00	3	Yes	252.00
	IMAGE20	10/30/2019	Services:15	Consulting	84.00	1	Yes	84.00
	IMAGE20	10/31/2019	Services:15	Consulting	84.00	0.5	Yes	42.00
Total for Tim Johnson						4.5		\$ 378.00
TOTAL						91.5		\$ 7,686.00

DIT - CGIA
Staff Billing Report
Activity: November 2019

	Client	Date	vice	Memo/Description	Rates	Duration	Billable	Amount
Ben Shelton								
	IMAGE20	11/01/2019	Services:55	Project Management	84.00	3	Yes	252.00
	IMAGE20	11/06/2019	Services:55	Project Management	84.00	2	Yes	168.00
	IMAGE20	11/08/2019	Services:55	Project Management	84.00	3	Yes	252.00
	IMAGE20	11/12/2019	Services:55	Project Management	84.00	5	Yes	420.00
	IMAGE20	11/13/2019	Services:55	Project Management	84.00	4	Yes	336.00
	IMAGE20	11/14/2019	Services:55	Project Management	84.00	3	Yes	252.00
	IMAGE20	11/15/2019	Services:55	Project Management	84.00	3	Yes	252.00
	IMAGE20	11/18/2019	Services:55	Project Management	84.00	2	Yes	168.00
	IMAGE20	11/19/2019	Services:55	Project Management	84.00	1	Yes	84.00
	IMAGE20	11/20/2019	Services:55	Project Management	84.00	3	Yes	252.00
	IMAGE20	11/21/2019	Services:55	Project Management	84.00	3	Yes	252.00
	IMAGE20	11/25/2019	Services:55	Project Management	84.00	2	Yes	168.00
Total for Ben Shelton						34		\$ 2,856.00
Matthew McLamb								
	IMAGE20	11/08/2019	Services:15	Consulting	84.00	0.5	Yes	42.00
Total for Matthew McLamb						0.5		\$ 42.00
Tim Johnson								
	IMAGE20	11/18/2019	Services:15	Consulting	84.00	1	Yes	84.00
	IMAGE20	11/22/2019	Services:15	Consulting	84.00	0.5	Yes	42.00
Total for Tim Johnson						1.5		\$ 126.00
TOTAL						36		\$ 3,024.00

DIT - CGIA
Staff Billing Report
Activity: December 2019

	Client	Date	vice	Memo/Description	Rates	Duration	Billable	Amount
Ben Shelton								
	IMAGE20	12/05/2019	Services:55	Project Management	84.00	4	Yes	336.00
	IMAGE20	12/06/2019	Services:55	Project Management	84.00	6	Yes	504.00
	IMAGE20	12/09/2019	Services:55	Project Management	84.00	5	Yes	420.00
	IMAGE20	12/10/2019	Services:55	Project Management	84.00	4	Yes	336.00
	IMAGE20	12/11/2019	Services:55	Project Management	84.00	4	Yes	336.00
	IMAGE20	12/12/2019	Services:40	Presentations/Demonstrations/Meetings	84.00	4	Yes	336.00
	IMAGE20	12/12/2019	Services:55	Project Management	84.00	1	Yes	84.00
	IMAGE20	12/13/2019	Services:40	Presentations/Demonstrations/Meetings	84.00	4	Yes	336.00
	IMAGE20	12/17/2019	Services:55	Project Management	84.00	5	Yes	420.00
	IMAGE20	12/18/2019	Services:55	Project Management	84.00	4	Yes	336.00
	IMAGE20	12/19/2019	Services:40	Presentations/Demonstrations/Meetings	84.00	1	Yes	84.00
	IMAGE20	12/19/2019	Services:55	Project Management	84.00	3	Yes	252.00
	IMAGE20	12/20/2019	Services:55	Project Management	84.00	5	Yes	420.00
Total for Ben Shelton						50		\$ 4,200.00
Matthew McLamb								
	IMAGE20	12/11/2019	Services:15	Consulting	84.00	1	Yes	84.00
	IMAGE20	12/12/2019	Services:15	Consulting	84.00	5	Yes	420.00
	IMAGE20	12/19/2019	Services:15	Consulting	84.00	0.5	Yes	42.00
Total for Matthew McLamb						6.5		\$ 546.00
Tim Johnson								
	IMAGE20	12/10/2019	Services:15	Consulting	84.00	1	Yes	84.00
	IMAGE20	12/11/2019	Services:15	Consulting	84.00	2	Yes	168.00
	IMAGE20	12/12/2019	Services:15	Consulting	84.00	2	Yes	168.00
	IMAGE20	12/13/2019	Services:15	Consulting	84.00	3	Yes	252.00
	IMAGE20	12/16/2019	Services:15	Consulting	84.00	1	Yes	84.00
	IMAGE20	12/17/2019	Services:15	Consulting	84.00	2	Yes	168.00
	IMAGE20	12/18/2019	Services:15	Consulting	84.00	2	Yes	168.00
	IMAGE20	12/19/2019	Services:15	Consulting	84.00	1	Yes	84.00
Total for Tim Johnson						14		\$ 1,176.00
TOTAL						70.5		\$ 5,922.00

APPROVED INVOICES



STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

ROY COOPER
GOVERNOR

JAMES H. TROGDON, III
SECRETARY

Invoice

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

Order Information
Customer Number: 67549
Invoice Number: 90725046
Purchase Order #: 006474-001_8188_0001
Purchase Order Date: 08/29/2019
Sales Order Number: 649533
Payment Terms: Net due 30 days
Billing Date: 10/10/2019
Due Date: 11/09/2019

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 SEPTEMBER 2019 TOTAL \$4,944.29 PER ATTACHED EMAIL AND DOCUMENTATION RECEIVED FROM RANDY DILLARD OF NCDOT'S PHOTOGRAMMERY UNIT.	1 EA	4,944.29	4,944.29
Total Amount Due				\$ 4,944.29

APPROVED
Tim Johnson

Digitally signed by Tim Johnson
Date: 2019.11.08 13:46:23 -05'00'

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.

RECEIVED
By Ben Shelton at 7:58 am, Oct 15, 2019



STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

ROY COOPER
GOVERNOR

JAMES H. TROGDON, III
SECRETARY

Invoice

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

Order Information
Customer Number: 67549
Invoice Number: 90728198
Purchase Order #: 006474-001_8188_0001
Purchase Order Date: 08/29/2019
Sales Order Number: 652343
Payment Terms: Net due 30 days
Billing Date: 11/13/2019
Due Date: 12/13/2019

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 OCTOBER 2019 TOTAL \$10,339.49 PER ATTACHED EMAIL AND DOCUMENTATION RECEIVED FROM RANDY DILLARD OF NCDOT'S PHOTOGRAMMERY UNIT.	1 EA	10,339.49	10,339.49
Total Amount Due				\$ 10,339.49

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 \$25.00 fee may be imposed for a check on which payment has been refused.

RECEIVED
By Ben Shelton at 10:22 am, Nov 18, 2019

APPROVED
Tim Johnson

Digitally signed
by Tim Johnson
Date: 2019.11.18
10:25:45 -05'00'

Invoice




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

Date	Invoice #
11/4/2019	S-506

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

P.O. No.	Terms	Project
EP NC10550604	Net 30	Coastal Orthoimagery 2020

Quantity	Description	Rate	Amount
	Contract IMAGE 20-02 EP NC10550604 Coastal Orthoimagery 2020		
	CORS receivers firmware upgrades and hardware warranty (Task 2.1.2) 10/25/2019	7,537.80	7,537.80
	CORS receivers Galileo and Compass upgrades (Task 2.1.1)	8,400.00	8,400.00
		Total	\$15,937.80

APPROVED

 Digitally signed by Tim Johnson
 Date: 2019.11.18 10:17:50 -05'00'

RECEIVED
 By Ben Shelton at 7:46 am, Nov 06, 2019



Pasquotank County, North Carolina

February 20, 2020

Ms. Pokey Harris
Executive Director
NC 911 Board
Department of Information Technology
P.O. Box 17209
Raleigh, NC 27619-7209

Re: Grant Contract No. G2017-11

Dear Ms. Harris,

Pasquotank County respectfully requests a 6-month grant extension until September 30, 2020. Currently the grant contract expires March 31, 2020, after a previous extension was approved by the North Carolina 911 Board in March 2019. The original grant contract was signed on February 15, 2017.

Pasquotank County is participating in the new public safety answering point (PSAP) facility in Martin County, which will serve as a backup center for Pasquotank County. Martin County's new facility is complete; however, the 9-1-1 center is awaiting cutover to the State's Emergency Services Internet Protocol (IP) network (ESInet) and hosted solution. As the Board is aware, due to contractual issues, Pasquotank County will continue to use on-premise call-handling equipment (CHE) at the primary PSAP until the term of the contract ends. This coordination between vendors added some complexity and lead to a slight delay.

The majority of \$1,010,779 grant award has been expended; however, the County prefers to not close out the grant until we are able to utilize Martin County as a backup center. We are looking forward to being able to function fully in the new facility, should the need arise.

Thank you for the consideration to this request, and we look forward to receiving approval to extend the grant until March 31, 2020.

Respectfully,

Kylie Felton, 911 Director
Pasquotank County Central Communications
cc: Pasquotank County Manager

Pasquotank County Central Communications
200 E Colonial Avenue
Elizabeth City, NC 27909

Tab 5

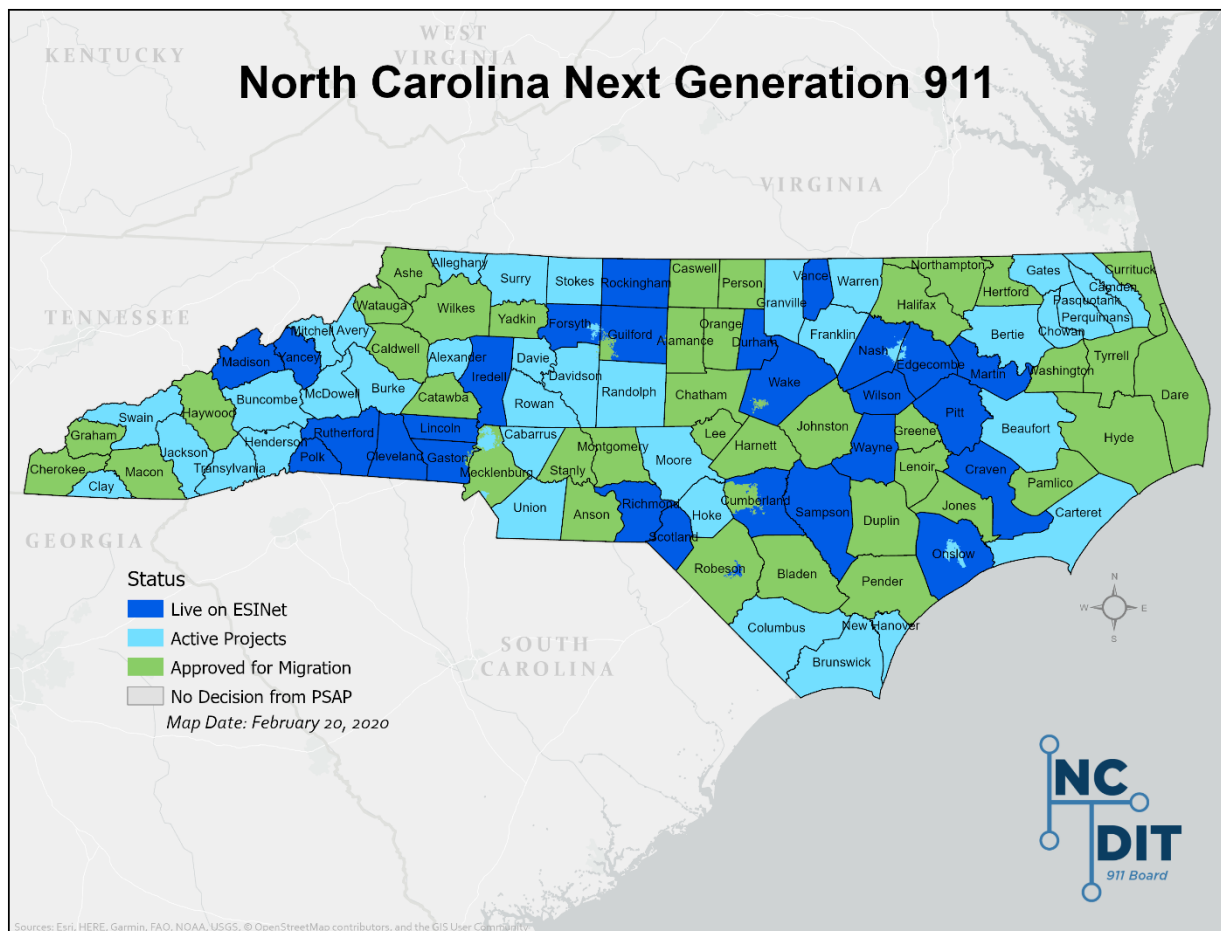
Executive Director Report

Pokey Harris

Tab 5 a)

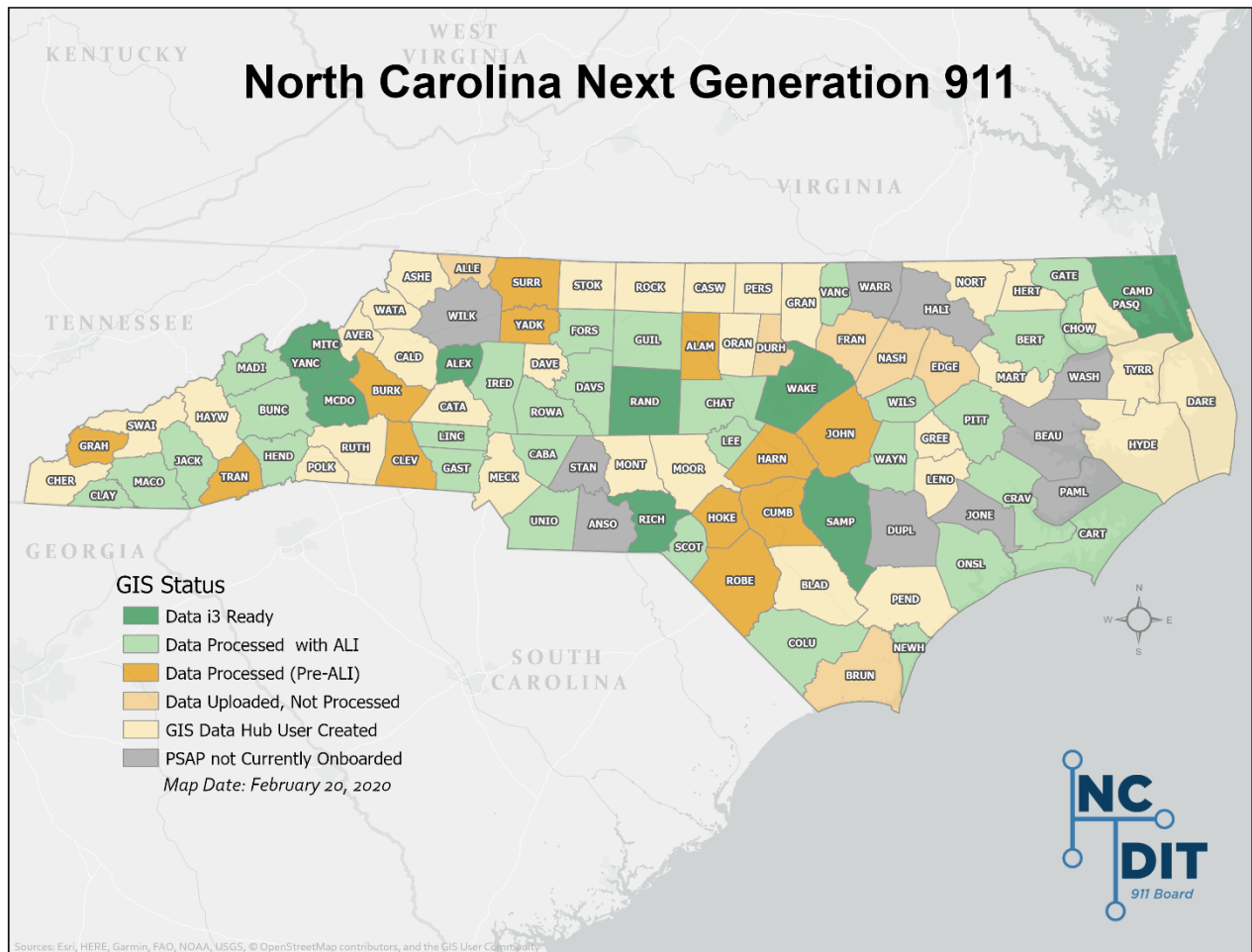
NextGen 911 Migration Status

NC NG911 Migration Status



Tab 5 b) NextGen 911 GIS Status

NC NG911 GIS Status



Tab 5 c)

NC NG911 and PSAP

Statewide Activities

December 2019 – February 2020

PSAP Grant Program

Agreement Signing Event

December 6, 2019

Following the December 6 Board meeting, Secretary Boyette and NC 911 Board Executive Director Pokey Harris hosted ceremonial grant signings recognizing grants awarded to Cumberland, Davie, Franklin and Pender counties. Cumberland County was awarded \$2,251,387 to relocate its 911 communications center. Davie County was awarded \$232,767 to replace its CAD system. Franklin County was awarded \$3,958,873 for a new PSAP. Pender County was awarded \$45,873 to upgrade its CAD system. Representatives from each county participated in the signings.

Cumberland County 911



Seated – Adam Johnson, Telecommunications Manager, Cumberland County Emergency Services; Eric Boyette, NC 911 Board Chair and State CIO

First Row, Standing – Tracy Jackson, Cumberland County Assistant County Manager; Gene Boothe, Director, Cumberland County Emergency Services; Pokey Harris; NC 911 Board Executive Director; Richard Bradford, NC 911 Board Legal Counsel

Second Row, Standing - Kristen Falco, NC 911 Board Staff; Tina Gardner, NC 911 Board Staff; Donna Wright NC 911 Board Member; Jude O’Sullivan, NC 911 Board Member; Buddy Martinette, NC 911 Board Member

Third Row, Standing - John Moore, NC 911 Board Member; Ronnie Cashwell, NC 911 Board Staff; Bo Ferguson, NC 911 Board Member; Earl Struble, NC 911 Board Member; Sheriff J.D. Hartman, NC 911 Board Member; Jeff Shipp, NC 911 Board Member; Amy Ward, NC 911 Board Member; David Bone, NC 911 Board Member; Marsha Tapler, NC 911 Board Staff; Gerry Means; NC 911 Board Staff

Davie County 911



Seated - Tammy Myers, Assistant Director, Davie County 911 Communications; Eric Boyette, NC 911 Board Chair and State CIO

First Row, Standing – Jeff Shipp, NC 911 Board Member; Kristen Falco, NC 911 Board Staff; Tina Gardner, NC 911 Board Staff; Pokey Harris; NC 911 Board Executive Director; Angie Turbeville, NC 911 Board Staff; Jude O’Sullivan, NC 911 Board Member; Marsha Tapler, NC 911 Board Staff; Donna Wright NC 911 Board Member; Richard Bradford, NC 911 Board Legal Counsel

Second Row, Standing - Earl Struble, NC 911 Board Member; John Moore, NC 911 Board Member; Greg Foster, NC 911 Board Member; Sheriff J.D. Hartman, NC 911 Board Member; Amy Ward, NC 911 Board Member; David Bone, NC 911 Board Member; Buddy Martinette, NC 911 Board Member; Gerry Means; NC 911 Board Staff

Franklin County 911



Seated - Angela Harris, County Manager; Eric Boyette, NC 911 Board Chair and State CIO

First Row, Standing - Christy Shearin, Director Franklin County Communications Manager; Pokey Harris; NC 911 Board Executive Director; Jude O'Sullivan, NC 911 Board Member; Richard Bradford, NC 911 Board Legal Counsel; Donna Wright NC 911 Board Member

Second Row, Standing - Ronnie Cashwell, NC 911 Board Staff; Kristen Falco, NC 911 Board Staff; Tina Gardner, NC 911 Board Staff; Angie Turbeville, NC 911 Board Staff

Third Row, Standing - Earl Struble, NC 911 Board Member; Sheriff J.D. Hartman, NC 911 Board Member; Jeff Shipp, NC 911 Board Member; John Moore, NC 911 Board Member; Greg Foster, NC 911 Board Member; Bo Ferguson, NC 911 Board Member; Amy Ward, NC 911 Board Member; Buddy Martinette, NC 911 Board Member; David Bone, NC 911 Board Member; Marsha Tapler, NC 911 Board Staff; Gerry Means; NC 911 Board Staff

Pender County 911



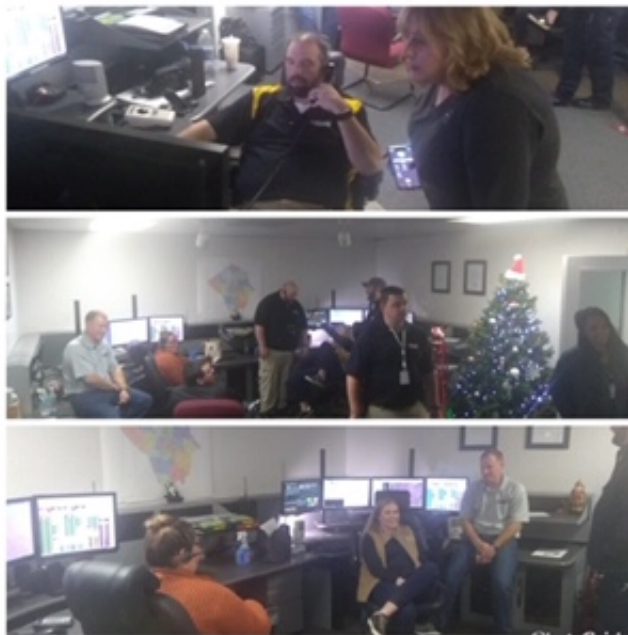
Seated – Jackie Ezzell, Director E-911, Pender County Sheriff's Office; Eric Boyette, NC 911 Board Chair and State CIO

First Row, Standing – Major Michael Collier, Pender County Sheriff's Office; Sheriff Alan Cutler, Pender County Sheriff's Office, Jeff Shipp, NC 911 Board Member; Kristen Falco, NC 911 Board Staff; Tina Gardner, NC 911 Board Staff; Pokey Harris, NC 911 Board Executive Director; Angie Turbeville, NC 911 Board Staff; Jude O'Sullivan, NC 911 Board Member; Marsha Tapler, NC 911 Board Staff; Donna Wright, NC 911 Board Member; Richard Bradford, NC 911 Board Legal Counsel

Second Row, Standing – Bo Ferguson, NC 911 Board Member; Earl Struble, NC 911 Board Member; John Moore, NC 911 Board Member; Greg Foster, NC 911 Board Member; Sheriff J. D. Hartman, NC 911 Board Member; Amy Ward, NC 911 Board Member; David Bone, NC 911 Board Member; Buddy Martinette, NC 911 Board Member; Gerry Means, NC 911 Board Staff

Pitt County 911 ESInet Migration December 11, 2019

Pitt County 911 migrated to the NC 911 managed service AT&T ESInet on December 11, 2019, receiving the first live call at 1033 hours (EST), also becoming part of the NC hosted Viper call handling solution. Though I was “scolded” by Jimmy Hodges, Deputy Director EM/ E 911 Communications, for not joining them that day, Jimmy was gracious enough to share his comments...”everything today has gone beautifully with some minor hiccups here and there but nothing that the techs can’t handle. For a project of this magnitude it has gone very smooth from start to finish and I am very thankful for that. AT&T Intrado, and the 911 Board have been awesome to work with and the staff here in Pitt County are very excited to be taking the steps forward providing the best service possible to our citizenry. Next step is to work on GIS data and get ready for i3. I cannot thank you all enough for the help and support. Pictures will be sent, but you should have come and taken them yourself, lol.”



Help us congratulate Jimmy and Pitt County on their migration in the #31 slot!
And, yes, wish I could have been there. I will be to visit soon!

Wayne County 911 ESInet Migration December 11, 2019

As the second PSAP to migrate to the NC 911 managed service AT&T ESInet on December 11, 2019, Wayne County received their first call at 1059 hours (EST), also as part of the NC hosted Viper call handling solution. As the final NG911 migration in the state for 2019, Wayne County brought the year-end total to 32 PSAPs and 52 physical sites including backup facilities.

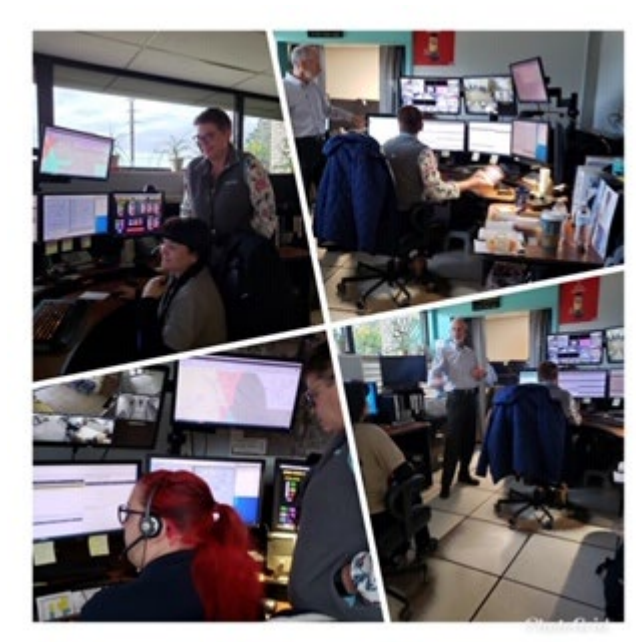


Christ Barnes, 911 Communications Manager said, “I cannot express adequately how excited we were to be a part of this project. This was the first of many projects that I inherited once taking over as 911 Manager and I am thrilled to see it nearing completion. All the supporting personnel from AT&T, RCC, Carolina Recording, ECaTS, and NMAC helped to make this cutover as seamless as possible. This was a great first project to take on and a huge step towards developing the Wayne County 911 center into a better organization overall. Thank you.”

Congrats to Chris and crew for helping us end 2019 with such success of reaching the 25% migration goal for the NC 911 Board.

Havelock PD 911 ESInet Migration January 21, 2020

Havelock PD 911 became PSAP #33 on January 21, 2020, to migrate to the NC 911 managed service AT&T ESInet. The PSAP is using an existing on premise geo-diverse Vesta call handling solution. This brings the total number of physical locations on the ESInet to 54, including backup facilities.



Congratulations to Megan Daub, Havelock PD 911 Manager of Support Services/Comm Supervisor, on this successful project and being the first migration of 2020.

Madison County 911 ESInet Migration February 5, 2020

Madison County 911 migrated to the NC 911 managed service AT&T ESInet and hosted Viper call handling solution on February 5, 2020, at 1121 hours (EST). This was the first Frontier PSAP to migrate to the statewide ESInet. This brought the number of PSAP agencies live on the ESInet in NC to 34, with the total being 55 physical PSAP locations.

Caleb Dispenza, Emergency Operations Director, Madison County EOC said, “the ESInet migration went great. I really appreciate the help from everyone involved. We had a few hiccups, as expected, but overall it was a great day. Thanks again to everyone involved for all the hard work and support throughout this process. See you all at the next PSAP meeting!”



Congratulations and kudos to Caleb and all his team at Madison County 911!!!

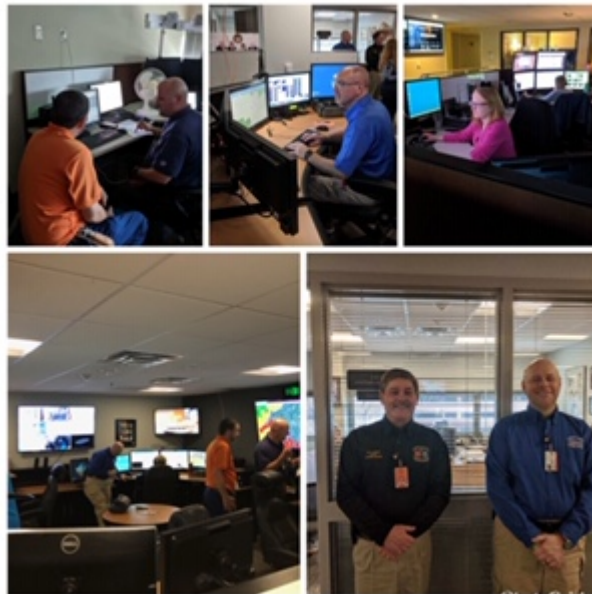
North Carolina and Virginia NG911 Collaboration February 5, 2020

On February 5, 2020, PSAP and GIS representatives from Alleghany County 911, Surry County 911, and Stokes County 911 attended a meeting in Yadkin County hosted by the NC 911 Board staff. Virginia representatives from Twin County Regional 911 and Patrick County 911 were in attendance. In addition, the 911 Regional Coordinators from both NC and VA were in attendance to promote NG911 teamwork and collaboration between the two states. The purpose of the meeting was to discuss jurisdictional boundaries between the corresponding counties along the NC and VA borders. The meeting was facilitated by GeoComm and NC CGIA. A big thank you to Christi Colbert, 911 Director with Yadkin County Sheriff's Office, for providing the meeting location.



Forsyth County 911 ESInet Migration February 12, 2020

Valentine's week was busy for NG911 in North Carolina. On February 12, 2020, Forsyth County 911 migrated to the NC 911 managed service AT&T ESInet receiving the first live call at 1120 hours (EST), also becoming part of the NC hosted Viper call handling solution.



Shout out to Herb Swaim, Communications System Manager, and his awesome team of telecommunicators at Forsyth County 911 for becoming PSAP #35 to migrate to the ESInet. This migration brings the total number of physical locations to 57, which also includes backup facilities.

Yancey County 911 ESInet Migration February 13, 2020

Jeff Howell, Emergency Services Director at Yancey County 911, and the staff were able to celebrate Valentine's Day as PSAP #36 on the NC 911 managed service AT&T ESInet. On February 13, their successful migration took place with the receipt of their first live 911 call at 1057 hours (EST). They also became part of the NC hosted Viper call handling solution.



This brings the total number of PSAPs live on ESInet in NC to 36 agencies and 58 physical PSAP locations including backups.

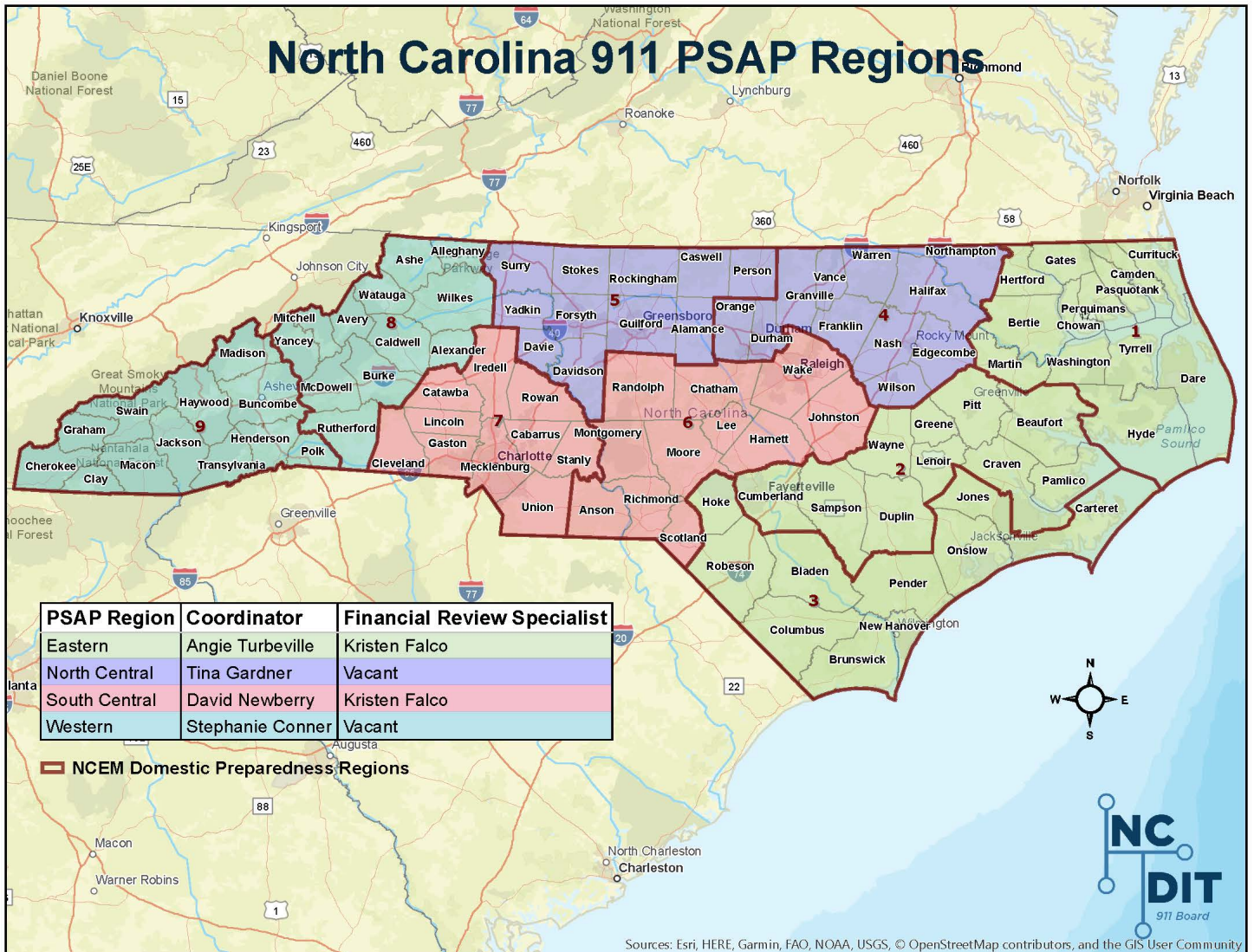
Congratulations to Jeff and all the folks in Yancey County on their success and for helping to *share the NG911 love* as Valentine's week 2020 came to a close.

Tab 5 d) Staffing Update

Tab 5 d i) New 911 Regional Coordinators

Tab 5 d ii) Realignment of PSAP Regions

Tab 5 d iii) Discussion of PAT Concept



Tab 5 e)

**2020 PSAP Managers' Meeting
April 14 and 15, Greensboro**

Tab 5 f)

**North Carolina PSAP
Information Portal Demo**

Angie Turbeville

Tab 5 g)

Kari's Law

Richard Bradford

Tab 6

Executive Committee Report

Donna Wright

Tab 7

Education Committee Report

Chuck Greene/Angie Turbeville

Tab 8

Funding Committee Report

David Bone/Marsha Tapler

Tab 8 a)

**Scotland County Reconsideration
(Primary PSAP)**

(Vote Required)

North Carolina 911 Board

PSAP Name: Scotland County Emergency Communications
 Contact Name: Mike Edge
 Contact Address: 1403 West Blvd
 City: Laurinburg, NC
 Zip: 28352
 Contact Email: medge@scotlandcounty.org

Instructions: All requests for review of PSAP Distribution amount must use this form with each request. Please do not change block descriptors, formulas or formatting. *PLEASE SEE INSTRUCTIONS tab for further details*** All requests are due by Aug. 6, 2018.** Email this form and all supporting documentation to marsha.tapler@nc.gov. If you have questions regarding this form or filing a request, please call Marsha Tapler at 919-754-6344 or email at marsha.tapler@nc.gov.

June 30, 2019 Emergency Telephone System Fund Balance: \$57,368.42

	FY2020 (2019-2020) Requested Increase Amount ONE-TIME Capital Purchase Cost	FY2020 (2019-2020) Requested Increase Amount Recurring MONTHLY Cost	FY2020 (2019-2020) Requested Increase Amount Recurring ANNUAL Cost	Comments
Software Expenditures:				
Radio console software. Some Radio console software will include many additional modules that are not a part of the 911 process and are not eligible.	46,995.85			Radio Console Software
TOTAL	\$46,995.85	\$0.00	\$0.00	

Hardware Expenditures:				
UPS				UPS Battery Replacement (50% eligible)

Radio Network Switching Equipment used exclusively for PSAP's Radio Dispatch Consoles (i.e.: CEB, IMC, NSS)				Network Switches & Interface Materials
Radio Console Dispatch Workstations	67,014.17			Radio Console, Installation, Test/Train
TOTAL	\$67,014.17	\$0.00	\$0.00	

Remaining Fund Balance from worksheet. -\$114,010.02

List expenditures planned for payment against remaining fund balance.

Total remaining Fund balance: \$0.00

Items below this cell are to be completed by 911 Board Staff

APPROVED FY2020 FUNDING	\$322,057.30
FY2019 Anticipated Capital Expenditures	\$114,010.02
FY2019 Anticipated Monthly Recurring	\$0.00
FY2019 Anticipated Annual Recurring	\$0.00

Requested FY2020 Funding \$436,067.32

Maximum 20% carry forward amount: 61,667.61

10% carry forward is current policy for reconsiderations \$30,833.81

Staff recommendation is to approve reconsideration request of \$114,010.02.

TEMPLATE

FY2020 Funding Reconsideration Worksheet:

PSAP Name:

Scotland County 911

FY2019 Ending Fund Balance	\$57,368.42
PSAP Funding Distribution for FY2020	\$322,057.30
Approved Budgeted Operational for fiscal year.	\$296,198.00
Approved Budgeted Capital for fiscal year.	\$166,403.93
Fund balance before carry forward:	-\$83,176.21
10% allowable carryforward:	\$30,833.81

Total Remaining Fund Balance for Use: -\$114,010.02

If fund balance remains, apply funding reconsideration expenditure request against total to deter



Scotland County Department of Emergency Communications



1403 West Blvd, Laurinburg, NC 28352 | Phone: (910) 277-3231 | Fax: (910) 276-1043

December 20, 2019

Marsha Tapler, Financial Analyst
Office of Information Technology Systems
NC 911 Board
PO Box 17209
Raleigh, NC 27619-7209

NC 911 Funding Committee,

Scotland County Emergency Communications is requesting a reconsideration of funding in order to upgrade equipment on our replacement plan. There are two very specific reasons for this request.

To give some background, we have partnered with Verizon Wireless to build a new communications tower. In order to prevent us from losing the significant amount of funding that Verizon has put into this project, the deadline of March 01, 2020 must be met. Our county is replacing the 50 pair copper cable that has been prone to damage by lightning strikes with a fiber cable that runs from our communications room to the communications center.

The upgrade will not only put us in line with our backup center, Richmond County, which is using the Zetron Max Dispatch radio console but will also prevent us from needing to train our staff on two different radio systems.

Our radio vendor has informed us that our current radio consoles cannot run on the fiber system, so we would need to install the new radio console to connect to the new tower so the old tower can be removed. Only then would Verizon would be able to install their equipment by the March 01, 2020 deadline.

There is a great need in Scotland County for upgrades to remain operational while meeting industry standards. These upgrades would not be possible without the financial support of this board.

Thank you,

Mike Edge
Communications Director
Scotland County Emergency Communications

2020 FROM ACCOUNT: 216-1010-300.00-00 THRU ACCOUNT: 216-1010-999.99-99

ACCOUNT	DESCRIPTION	BUDGET	ACTUAL	BALANCE
216-1010-361.10-00	Interest Revenue			
216-1010-384.20-41	E911 Wireless	322,057.00		322,057.00
216-1010-399.10-00	Fund Balance Appropriated			
216-1010-421.28-85	Network Tech Assist/GIS	44,360.00	40,360.00	4,000.00
216-1010-421.31-30	Equipment-Repairs/Maint	59,838.00	15,835.37	44,002.63
216-1010-421.41-10	Telephone/Fax/Pagers	182,000.00	135.84	181,864.16
216-1010-421.44-20	In Service Training Trav	10,000.00	74.57	9,925.43
216-1010-421.47-10	Motor Fuels			
216-1010-421.49-10	Office Supplies			
216-1010-421.53-10	Equipment			
216-1010-421.68-30	Debt Reserve			
216-1010-421.74-10	Property under \$5000.00			
216-1010-421.74-40	Property over \$5000.00	166,404.00		166,404.00
216-1010-421.95-10	Interfund Transfers Out			
	TOTALS:	784,659.00	56,405.78	784,659.00



Zetron MAX Dispatch Console System

Revised
17 January 2020





RADIO COMMUNICATIONS COMPANY

8035 Chapel Hill Road
Cary, North Carolina 27513
P. O. Box 68, Cary, North Carolina 27512
(919) 467-2421 • Fax (919) 467-6548

17 January 2020

Mike Edge, Director
Scotland County E-911 Communications
1403 West Blvd.
Laurinburg, NC 28352

Radio Communications Company (RCC) is pleased to provide Scotland County (the County) this proposal for a new Zetron MAX Dispatch Console System.

We encourage the County to thoroughly examine our offer and consider its merits. Utilizing our years of experience in Critical Communications, RCC is prepared to work closely with the County to deliver a state of the art console system that meets and exceeds its expectations.

RCC is familiar with the situation that the County faces and is qualified to execute this project in partnership with the County. RCC has the experience, knowledge, trained technical staff, and references to confirm the company's excellent qualifications to execute this project professionally and on time.

Name of Provider:	Radio Communications Company
Contact Person:	Matthew Dean
Email address:	mdean@rccws.com
Address:	8035 Chapel Hill Road, Cary, NC 27513
Telephone Number:	919-467-2421
Fax Number:	919-467-6548

Please contact us with any questions or comments regarding this proposal. Thank you for the opportunity and we look forward to working with you in this important matter.

Matthew Dean

Radio Communications Company



Zetron MAX Dispatch Console Solution

Radio Communications Company is pleased to provide Scotland County this proposal for a Zetron MAX Dispatch console solution with related radio equipment. This proposal is based on a site visit and discussion with County personnel for the known system requirements.

Radio Communications Company (RCC), founded in 1959, has been providing quality two-way communications products and systems from our present location in Cary, North Carolina for over 59 years. RCC has a long history of providing and supporting critical communications systems for government and private radio users. RCC is staffed with experienced and factory trained professionals available for sales consulting, engineering, installation, and service from its fully equipped and staffed service facility.

From its 8,500 sq. ft. facility near the Research Triangle Park and an office in Asheville, North Carolina, RCC is focused on selling, installing, and servicing products and systems that communicate voice and data over local and wide area networks for public safety, public service, and business users. Behind a core team of highly qualified and motivated professionals, RCC delivers value and service to its clients by providing cost effective and reliable solutions. RCC maintains a broad supplier base in order to best select the appropriate solution for the client based on their particular needs. RCC participates in supplier training, seminars, and certification programs to maintain an up to date understanding of products and market trends. RCC is a turnkey operation, offering its clients the full complement of services including product sales, design engineering, installation, repair, and maintenance agreements tailored to meet each client's particular requirements. We have qualified technicians on call 24 x 7 x 365 in support of these agreements.

As a full-service sales and service/engineering firm that provides turnkey communications solutions, our offerings include:

- Radio dispatch and E911 console solutions.
- Radio system infrastructure – a single site to statewide; consultation, design, installation and maintenance.
- Portable and Mobile radios, from a variety of manufacturers to meet your needs and budget.
- New technology migrations.
- Multicast and Simulcast systems.
- RF Coverage modeling.

- Interoperability solutions.
- Mobile radio and emergency equipment installation, on-site or in-house.
- Customizable service agreements tailored to the customer's needs.

RCC's continued success in North Carolina is directly related to its excellent relationships with its customers. We have a number of radio dispatch references, all of which confirm RCC's track record of delivering complex communication systems competently to demanding communications end users, and then providing quality post sale maintenance and support. Below are a few specifically related to Zetron MAX Dispatch systems. We encourage you to contact our references.

County of Richmond

Donna Wright – 910-997-8238

As part of Richmond County's new Emergency Services building project, RCC won a competitive process in 2018 to provide the County a new **Zetron MAX Dispatch** system that includes twelve (12) operator positions and numerous conventional and Viper control station interfaces. The system was installed and brought online on schedule for the new facility's opening. The County also contracted with RCC for additional solutions at the new center.

County of Moore

Bryan Phillips – 910-947-6500

RCC has worked with the County of Moore for over 15 years, and has sold, engineered, installed and maintained the countywide public safety radio system and 911 Center consoles. When Moore County built their new Public Safety building, RCC was selected to provide and install their new 10 position Zetron 911 MAX Call Taking and **Zetron MAX Dispatch** System, as well as the multi-hop licensed broad band microwave radio system to link the Center with their main tower and 2 other RF sites. As part of the project, RCC developed a new paging software system tailored to the County's unique paging requirements. Following the Go Live, RCC completed installation of a new three (3) site, two channel simulcast UHF system for Fire and EMS paging. RCC has been providing ongoing 24/7/365 system service and maintenance.

Moore County contracted with RCC in June of 2017 to provide and install a Zetron MAX Call Taking and MAX Radio Dispatch System for their backup location. It comprises 6 positions, a new logging recorder, GPS Net Clock, custom paging system, and control station equipment. A fiber connection between its main and backup center allows the two centers to share resources.

County of Anson

Holli Mullis – 704-694-4972

RCC has worked closely with Anson 911 officials since 2009 to provide a seamless VOIP Zetron Model 3200 Call Taking System Upgrade that included a stand-alone ALI Database System, and a new IP Telex Radio Dispatch Console system interfaced to control base stations and other county system equipment. In early 2014 RCC was contracted to provide and install a new 9 position Zetron MAX Call Taking and **MAX Dispatch** System for their new 911 Center. The system went live September 30, 2014. RCC has been providing ongoing 24/7/365 system service.



Zetron MAX Dispatch Overview

Radio Communications Company is pleased to provide Scotland County the industry-leading Zetron MAX Dispatch Radio Dispatch Console system solution.

A leader in the communications system market for 39 years, Zetron has been designing, developing, manufacturing and implementing mission-critical communications solutions for public safety, transportation, utilities, manufacturing, healthcare and business applications throughout the world. Zetron has installed thousands of systems and deployed over 20,000 console operator positions worldwide. The scope and success of these projects demonstrate the performance, effectiveness, robustness, and reliability of Zetron's products.

Zetron's MAX Dispatch system is a pure, end-to-end, IP-based telecommunications console system designed for mission-critical dispatch applications. Because MAX Dispatch employs the latest, standards-based IP protocols and IT best practices, it offers the highest levels of interoperability, scalability and usability. It is designed to streamline the console operator's job and help them focus on the incident or task at hand. It is also designed to meet the needs of the full range of other personnel who interact with the system, including administrators, supervisors, and radio and IT technicians.

Control-room functions and operations are evolving along with the increasing availability of multiple data sources to the dispatcher. The MAX Dispatch system's hardware and software foundation is designed to adapt to this rapidly changing environment. It provides an easy path to move forward—whether you want to add positions and interfaces to a system, share resources across multiple systems, increase mobility options for staff, or ensure that your control room can interface to both legacy and emerging technologies.

Please see the following pages for additional information on the MAX Dispatch system.



MAX Dispatch System

Maximize Your Control



Improving Your Operations, Preparing You for the Future

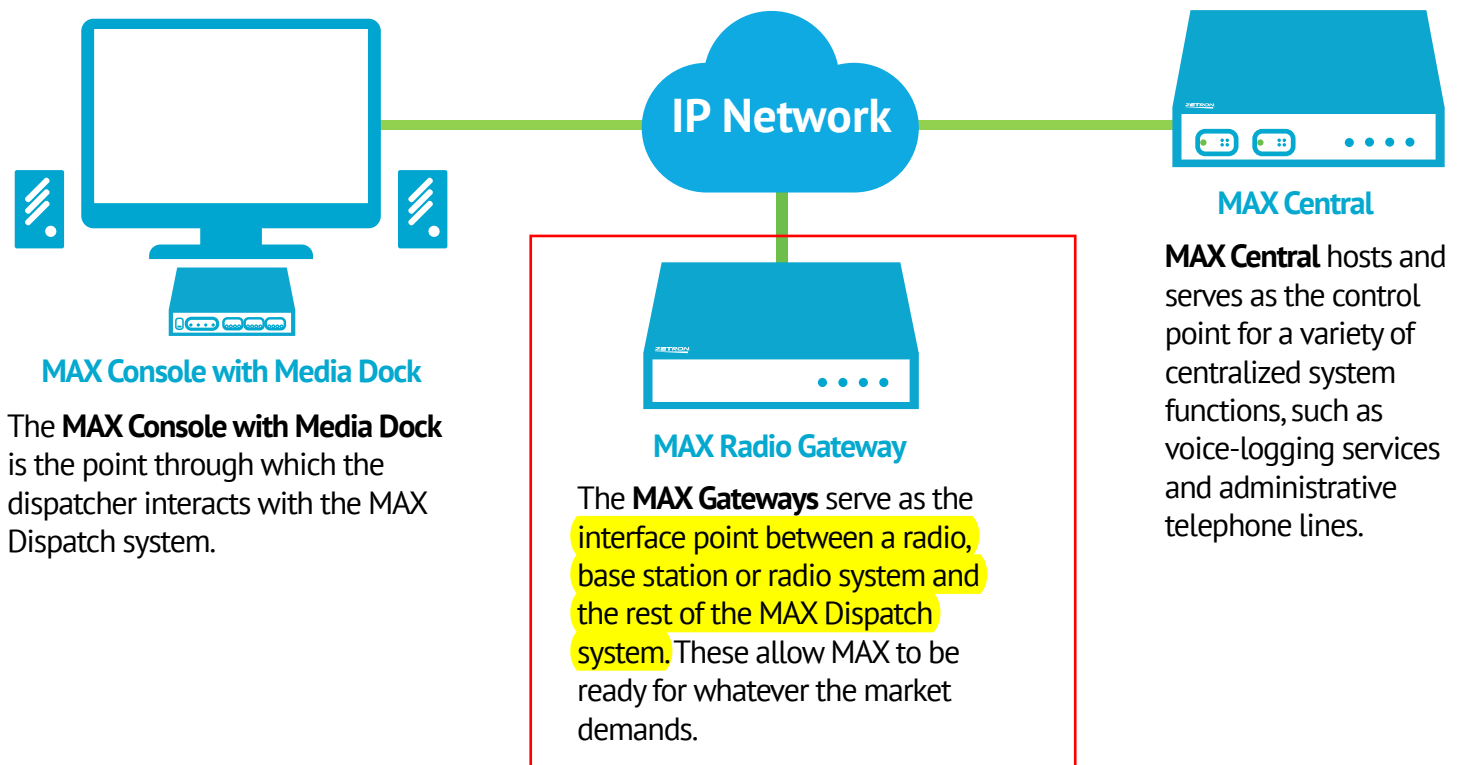
There's a lot riding on your dispatch system. That's why we've designed MAX Dispatch to be one of the most effective tools available for managing a range of operations—from routine to mission-critical. It links those who need services with those who provide them. It connects the control center with staff in the field and field staff with each other. It coordinates operations that span departments, agencies, or geographic regions. And it gets your critical messages through, even when other communication modes can't.

What Is MAX Dispatch?

Zetron's IP-based MAX Dispatch integrates a full range of tools and resources into a single console system and presents them to the dispatcher through a streamlined graphical user interface (GUI). This gives your dispatchers instant access to the information they need from a single, centralized point. MAX Dispatch can be set up to display information pertinent to an incident only when it's needed. Its IP functionality not only eliminates the need for costly leased lines, but supports mobile, remote, and geographically diverse operations.

How MAX Dispatch Works

Three basic components—the **MAX Console with Media Dock**, the **MAX Gateway**, and **MAX Central**—form the building blocks of each MAX Dispatch system. The size and capabilities of your system will determine how many of each of the three basic components your system will require. The flexibility and simplicity of the MAX Dispatch architecture allows you to easily scale your system up or down to accommodate changes in your organization.





Why MAX Dispatch?

A streamlined UI that improves response times and efficiency. The clean design of the MAX Dispatch user interface (UI) reduces screen clutter, operational steps, and response times. It gives dispatchers instant access to information pertinent to the task at hand. And it's easy for dispatchers to grasp—trainers report that it takes about 30 minutes to learn. This reduces training time and costs. Plus, MAX Dispatch is highly configurable, allowing you to create screen layouts that meet the unique needs of your dispatch center.

Redundancy you can rely on. Because MAX Dispatch supports network redundancy for every end point, it can tolerate any single point of failure in the IP network with no loss of service. This keeps your vital operations up and running, even if a fault condition occurs.

Low-cost expansion, upgrades, and maintenance. MAX Dispatch is built to not only support your current operations, but to adapt as your operations change over time. You can easily add channels and consoles to MAX Dispatch. The system hardware and software architecture also provides an easy upgrade path that keeps your technology current without the need for a large-scale system overhaul. Plus, it can be configured and maintained remotely. This keeps your costs low and ensures that changes and updates can be made quickly.

High interoperability. Its compatibility with all major radio interfaces and major radio manufacturers' equipment makes MAX Dispatch one of the most interoperable systems available. This is critically important when you have to manage events across departments or jurisdictions.

Resource sharing and backup across geo-diverse locations. MAX Dispatch can be used with the MAX Geo-diverse Portal to link and share resources across geographically distributed locations. This maximizes the efficient use of resources, reduces costs, and allows systems at different sites to back each other up—with just the click of a mouse.

Dispatch from anywhere. Because MAX Dispatch can be operated over a laptop or tablet, it gives you the flexibility to deploy remote, temporary, backup, or mobile operations quickly and securely. And delivers all of the features, functionality, and interoperability available in the control room.

MAX Dispatch is future ready. Its design is well suited for anywhere the market moves.

Why Zetron?

Zetron Services and Support

Your MAX Dispatch system comes with a standard 12-month hardware warranty, 12-month software warranty, operator web training, and exclusive membership into the Zetron MAX Users Group (ZMUG). Zetron also offers a range of optional support services to ensure that your system is installed and configured to run optimally. These services include: 24/7 telephone support, software maintenance, hardware replacement and repair, remote and on-site configuration assistance, system re-optimization, and technical and operational training. Many of these options are available as standalone services. For more information, see Services at www.zetron.com.

Help with Financing

Looking for alternate ways to fund your new dispatch system? Zetron is partnering with a leader in public finance to offer tax-exempt financing to help public-safety agencies purchase new equipment. The program not only applies to a full range of public-safety products, but can be “bundled” to include installation and dispatch furniture as well as other equipment.

Performance You Can Count On

Zetron has a reputation for the reliability and robustness of its products. They are specifically designed to meet the needs of mission-critical operations that must stay up and running 24/7. Zetron solutions are also known for their longevity. Not only do they continue to deliver a rock-solid performance over time, but they have the flexibility to keep pace with emerging technologies and changing operational requirements.

About Zetron

Founded in 1980, Zetron manufactures and provides communications systems designed to equip the entire mission-critical control room. Its integrated solutions include IP-based dispatch, NG9-1-1 call-taking, voice logging, IP fire station alerting, CAD, mapping, and automatic vehicle location (AVL) systems. Zetron has offices in the United States, the United Kingdom, Australia, and numerous field locations; and a worldwide network of resellers, system integrators and distributors. Zetron is a wholly owned subsidiary of JVCKenwood Corporation. For more information, visit www.zetron.com.



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The Power to Respond

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See Zetron price list for option pricing. Specifications subject to change without notice.

MAX Dispatch

Zetron's IP-based MAX Dispatch console system is designed to meet the varying needs of the dispatch community while providing a low cost of ownership to the customer. Whether it is expanding the positions and interfaces of one system, sharing resources across multiple systems, increasing mobility options for staff or ensuring your control room can interface to legacy and emerging technologies, the MAX Dispatch radio dispatch console provides the customer an easy path on which to move forward.

Features

- **Simpler Operation, Lower Training Cost:** The user interface is designed to focus attention on the incident by reducing screen clutter, improving response times, and therefore reducing user stress. MAX Dispatch requires minimal training and fewer steps to perform tasks and access information.
- **Three workstations** supports standard PC with Media Dock, laptop version, and CommandIQ complete desktop station.
- **Map-based dispatching:** Available for systems that support location services.
- **High reliability:** End-to-end network redundancy keeps the system up and running even if the IP network goes down.
- **Minimize Maintenance Time and Cost:** Configure, troubleshoot and maintain the system from the convenience of the office.
- **Scalable Operations:** The architecture provides scalability for system designs ranging from dedicated LAN network to multi-node, geographically diverse WAN applications.
- Support for PTT/C applications.

MAX Dispatch Standard Console w/ Media Dock:

The MAX Dispatch console is the system element that provides the critical user interface to dispatchers. Each console consists of a Windows®-based client running the MAX Dispatch application software and the optional Media Dock. The console PC is equipped with two, full-duplex Ethernet ports for full network redundancy. If your system has a Media Dock it provides additional audio interfaces and connection points for accessories.

Media Dock Interfaces Support:

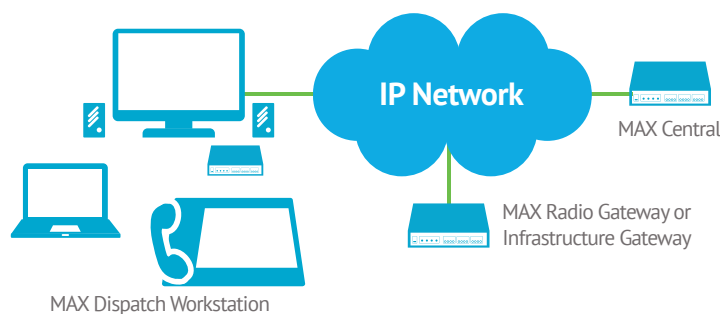
- Up to eight speakers.
- Desktop microphone.
- 4-wire or 6-wire headset jackbox.
- PTT and monitor footswitches.
- Four local binary inputs and output that can be used for workstation status.
- Four local relay contact closure outputs.

MAX Dispatch Laptop WorkStation:

The MAX Dispatch Laptop provides the same critical user interface on a Laptop computer running Windows 7 or 10. The application uses the internal speakers and microphone of the laptop. With the laptop you retain full access to your radio, telephone, aux I/O, and paging networks.

CommandIQ for MAX Dispatch

The CommandIQ workstation is a compact, fully functional hardware console option for MAX Dispatch with an embedded PC, internal speaker and microphone, 10.1" touchscreen display, handset, and supports external accessories (e.g., additional speakers, headsets, microphones, footswitches, etc.). Its efficient 15" X 10" x 4.5" footprint saves space on desks, enables it to be stored easily, and is configured to easily wall mount. The CommandIQ workstation provides mobility, flexibility, and adaptability to meet any command center, office, or field work environment while maintaining full access to radio, telephone, auxiliary I/O, and paging networks.



MAX Radio Gateway:

The Radio Gateway serves as the interface point between a radio or base station and the rest of the MAX system. Radio Gateways are available in both analog and digital forms depending on the radio interface requirement.

Supported Features:

- Analog gateways support up to two radio connections.
- Digital gateway supports Ethernet connection to digital base station infrastructure.
- Dual Ethernet ports for network redundancy.
- Analog voice logger output.
- Four binary inputs and outputs for generic site monitoring and control use (analog gateways only). Relay closures available via optional Zetron Model 6080.

Supported Radio Interfaces (Inquire for additional radios supported):

- 2-wire, 4-wire local (PTT/COR).
- Tone Remote Control (per TIA102.BAHA Section 7).
- Analog/conventional radios: Kenwood TK-x180, Motorola XTL 5000 (O5), Harris M7300/XG75, & XG100.
- P25 conventional/trunking radios: Kenwood TK-5x10, Motorola APX 7500 (O5 Mobile), Motorola XTL 5000 (O5 Mobile), Motorola Quantar with DIU-3000 (conventional only), Harris M7300/XG75 & XG100., Viking VM5000.
- Smartnet/SMARTZONE radios: Motorola APX 7500 (O5 Mobile), Motorola XTL 5000 (O5 Mobile), EFJ VM400/600/900.
- EDACS radios: Harris M7300/XG75 & XG100.
- P25 Digital Fixed Station Interface (DFSI) per TIA102.BAHA.
- Kenwood NEXEDGE radios: NX-700/800/900, NX-720/820
- Kenwood NEXEDGE NXR-700/800 Conventional and Trunking Repeaters.
- DMR AIS Tier II and Tier III, Hytera, Tait and JVCKenwood
- MotoTRBO

MAX Infrastructure Gateway (IG):

The IG serves as the interface point between the radio system and the rest of the MAX system. It is server-based and supports both CSSI and DMR Tier III.

Supported Features

- Unit ID Display
- Talkgroup selection
- Group calls (inbound/outbound)
- Inbound emergency group call
- Individual calls (inbound/outbound)
- Inbound emergency alert
- Inbound call alert
- Encryption (non-FIPS, not to console position)
- Manual encryption key load
- KVL encryption key load support
- Static talkpath to talkgroup mapping through console system acceptable
- Long term voice logging support for voice
- Long Term Logging support for Group call source id
- Patching of talkgroups by operator
- Console behavior same as with current radio interfaces providing consistent visual indications for transmit, receive, audio routing, call state
- Console Pre-emption of inbound calls

MAX Central:

The Central is the hardware platform that hosts several software services used in the MAX Dispatch system. These software services provide essential management and control to the system as well as act as a gateway to various third party devices for additional functionality such as telephony gateways, IP voice loggers, MODBUS IP auxiliary I/O devices and Location Services (AVL). It also hosts the service that provides remote console, remote radio gateway and multiple MAX Dispatch site linkage.

Supported Features:

- Dual network connections
- Dual power connections
- Hot standby capability for Z-Node Manager, Telephony Gateway, Portal services and Location Gateway service.
- Long term IP voice loggers supported: Eventide, Exacom, Stencil, CVDS, REVCORD, Higher Ground, NICE, Verint, DSS Corporation.

Specifications:

Hardware

Dimensions (HxWxD)

Media Dock XS: 2.5 x 7.5 x 10 in. (64 x 192 x 254mm)
Central: 1.25 x 7.5 x 10 in. (31.75 x 191 x 254mm)
Radio Gateway: 1.25 x 7.5 x 10 in. (31.75 x 191 x 254mm)

Weight

Media Dock XS: 2.6 lbs (1.2 kg)
Central: 2.5 lbs (1.13 kg)
Radio Gateway: 2 lbs (0.91 kg)

Operating Temperature

Media Dock XS: 0 to 60 ° C
Central: 0 to 50 ° C
Radio Gateway: 0 to 50 ° C

Maximum Power Draw

Media Dock XS: 3W, 200mA (no speakers), 21W (with speakers)
Central: 1.8A @ 10.5 VDC
Radio Gateway: 1A @ 10.5 VDC

Network

Radio Gateway

Payload (per radio): 168 kbps active. Less than 5kbps idle.

Console Workstation

Payload: 84 kbps maximum for each active audio stream (Tx or Rx).
N*84 kbps for simultaneous Tx on N channels.

Packet Loss: < 0.1% (< 1% for non-mission critical).

Packet Delay: < 40 ms for LAN environments; up to 2 seconds for longhaul (long delay) environments.

Packet Jitter: < 20 ms (< 40 ms for non-mission critical).

Network

Infrastructure: 100 Mbps minimum, full-duplex Ethernet.
Switches and routers must be multicast aware.
Mission-critical applications should use a dedicated network.



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The Power to Respond

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See Zetron price list for option pricing. Specifications subject to change without notice.

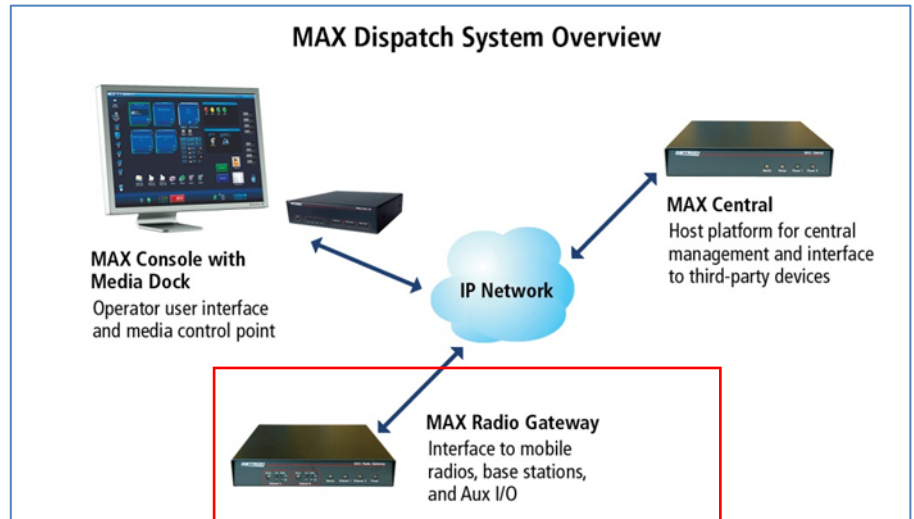
005-1401M December 2018

Zetron MAX Dispatch



Zetron's MAX Dispatch system is a pure, end-to-end, IP-based telecommunications console system designed for mission-critical dispatch applications. Because MAX Dispatch employs the latest, standards-based IP protocols and IT best practices, it offers the highest levels of interoperability, scalability and usability. It is designed to streamline the console operator's job and help them focus on the incident or task at hand. It is also designed to meet the needs of the full range of other personnel who interact with the system, including administrators, supervisors, and radio and IT technicians.

The core of MAX Dispatch system is its use of commercial-off-the-shelf (COTS), Internet Protocol (IP), network equipment. Based on Voice-over-Internet-Protocol (VoIP) technology, MAX Dispatch can be deployed on a dedicated or shared IP network for the most cost effective and flexible system available on the market today.



Using the IP infrastructure and Zetron's engineered hardware and software, the system provides scalability to a large number of system elements in order to address very modest systems to large state wide networks. The MAX Dispatch system allows a variety of radio types to be easily included in the network without changes to the control or display software in addition to providing self-healing protocols and optional end-to-end redundancy and hot standby. The system drawing below depicts this architecture in a simplified diagram.

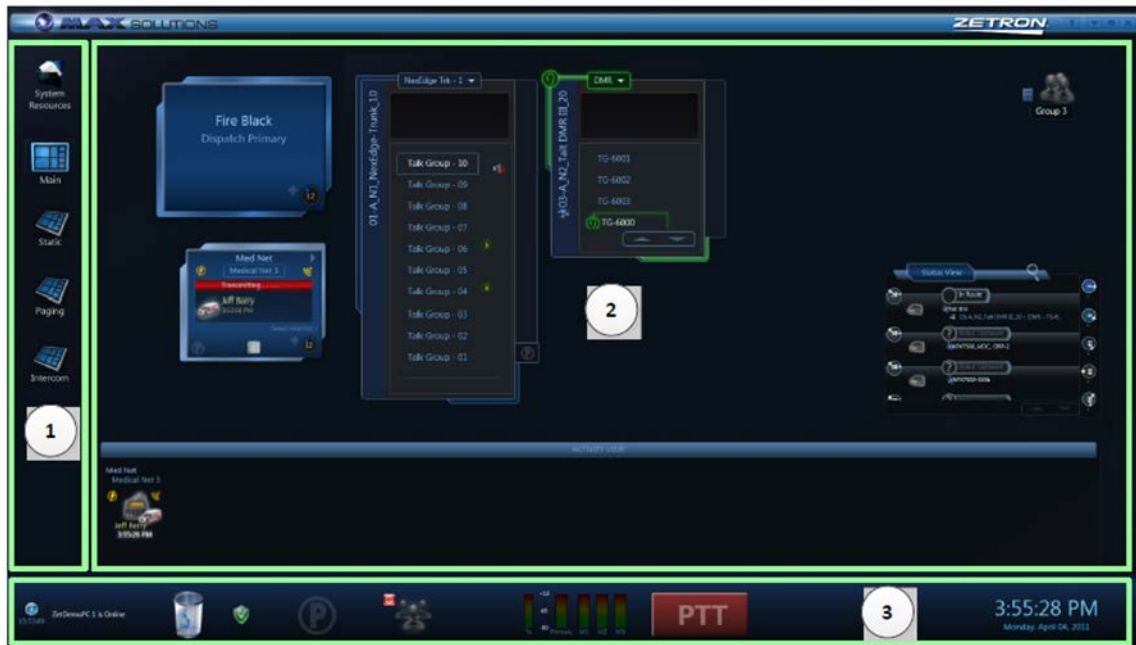
Control-room functions and operations are evolving along with the increasing availability of multiple data sources to the dispatcher. The MAX Dispatch system's hardware and software foundation is designed to adapt to this rapidly changing environment. It provides an easy path to move forward—whether you want to add positions and interfaces to a system, share resources across multiple systems, increase mobility options for staff, or ensure that your control room can interface to both legacy and emerging technologies.

Functionality

MAX Dispatch's state-of-the-art graphical user interface (UI) is specifically designed to accomplish the most frequent tasks with minimal effort. The UI offers a contact-based approach rather than simply a traditional path-based approach. For example, the dispatcher can identify who they wish to communicate with rather than worry about which radio or phone resource to use to contact them. MAX not only raises the bar on visual interfaces via its modern UI, but it also provides the best-in-class audio interfaces designed for rugged, ergonomic 24x7 operations.

Highly configurable features in the MAX Dispatch UI enable each work site or even each individual position to be tailored for a wide variety of work-flow applications and user preferences.

A Layout contains a customizable and configurable selection of tools, widgets, controls, workspaces, views, and other user interface elements for MAX Dispatch. The following example layout shows the three major areas used during typical operation of a MAX Dispatch Console. Because MAX Dispatch is extremely configurable, each system may be arranged differently.



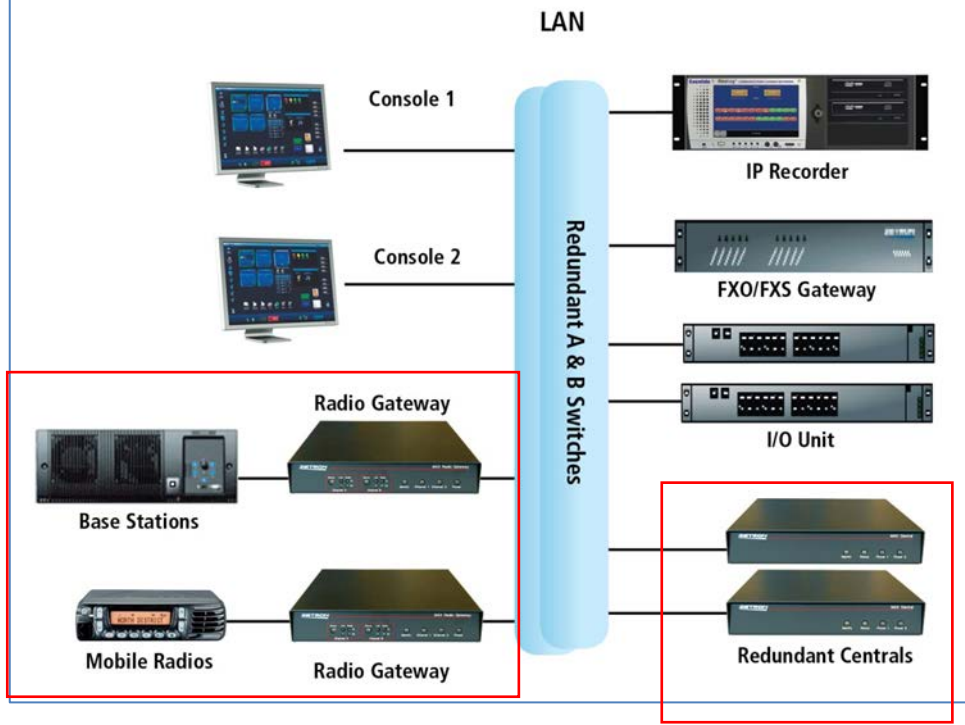
1. Side Bar - There can be up to four Side Bars, one at each edge of the screen. If there is a Side Bar enabled at the bottom, it resides just above the Notification Bar (3). The Side Bar contains items that always remain on the screen regardless of which Workspace View is being used.
2. Workspace View - This displays the currently active workspace, an area containing the controls and resources you are currently working with. The layout can be configured with multiple Workspaces, e.g. dedicated to specific areas of responsibility or operational situations.
3. Notification Bar - This displays commonly used information, status, and controls.

MAX Dispatch's innovative user interface (UI) reduces screen clutter, response times, and user stress. Its blend of unique and traditional console element results in an easy-to-use UI that requires minimal training and fewer steps to perform tasks and access information. Its flexibility also allows you to create screen layouts that match the unique needs of your dispatch center. Unique one-click operations and intuitive UI give operators immediate access to information and controls. This improves response times and reduces operator fatigue and errors.

MAX Dispatch supports patching and conferencing among multiple resources. Support for off-site access allows MAX Dispatch to be maintained and operated remotely. This facilitates appropriate staffing as well as the timely diagnosis and resolution of system issues. The dual end-to-end network option allows fully redundant IP networks. This ensures that a single failure in the network infrastructure has no effect on MAX Dispatch operation for all endpoints.

MAX Dispatch is scalable from a single LAN configuration to a multi-node, geographically diverse WAN configuration.

MAX Dispatch System Network Architecture



System Overview

The MAX Dispatch System comprises four key elements working together over an IP network. The MAX Console is the dispatcher's graphical user interface for all system control points. The Media Dock is a sub-element of the MAX Console and provides the audio interface and connection point for operator workstation peripherals such as a footswitch or desktop microphone. The MAX Central is a hardware platform that hosts several key applications that are important to the MAX Dispatch system. The Radio Gateway provides the interfaces to control station radios.

MAX Dispatch is the only IP-based dispatch system that supports network redundancy for every end-point. This allows MAX Dispatch to tolerate any single failure in the IP network infrastructure with no loss of service. Because MAX Dispatch is IP based, it can be geographically dispersed over a wide area. It can also give dispatchers at multiple locations access to each other's radio resources.

A basic MAX Dispatch system consists of:

- A Windows-based workstation with a MAX Dispatch software
- Media Dock XS for audio routing and connection to peripheral devices.
- Radio gateways that serve as interface devices to mobile radios, base stations and auxiliary controls.
- A Central platform that serves as a host for system management software and as an interface point to third-party devices.



System Components

MAX Console

The MAX Dispatch console is the system element that provides the critical user interface to dispatchers. Each console consists of a Windows based client running the MAX Dispatch, Graphic User Interface (GUI) software as well as controlling critical audio functions in conjunction with the Media Dock. The Media Dock provides the audio interface and connection point for accessories such as microphone, speakers, handset, headset, and PTT foot switch. The console PC is equipped with two full-duplex Ethernet ports for connecting into a redundant IP network using NIC bonding.

MAX Dispatch's user interface introduces new concepts to the dispatcher to reduce stress, screen clutter and response time. These unique elements are combined with the familiar concepts of traditional dispatch consoles resulting in an intuitive user interface that requires minimal training time. It offers the flexibility to create user layouts that match the needs of the dispatch center.

The dispatchers work in a "workspace" screen concept where there may be multiple workspaces that perform different functions. Screen and button templates are used to select the general layouts with flexibility for additional modifications as required. Also, the screens can be dynamic or locked down by administrators. Dispatchers can select from the following screen features:

- Configurable on a per Z-Node, per workstation, and per user basis
- Move channels around the workspace
- Resize objects as needed
- Add or remove channels
- Dynamic drag and drop capabilities
- Group channels together to manage them as a single incident
- An activity view for interacting with active items



Media Dock XS

The Media Dock XS serves as the primary audio routing device for the console position. This arrangement provides for a highly flexible setup to support up to four independent speakers, up to two dual-pronged headset jack boxes, a desktop microphone, and a foot switch. Eight speakers are supported at a console by adding a second media dock. The Media Dock XS also has connection capabilities for adding local auxiliary I/O function to each console position. There are

a total of 4 inputs and 4 outputs available on each device. The console software routes and controls all audio through the use of display screens and the Media Dock XS. The console receives VoIP packets, de-packetizes, and sends the digital audio signals via a USB port connection to the Media Dock XS. It receives the digital USB audio signals, uses a powerful digital signal processor (DSP) to convert it back into analogue signals and sends it to one of the audio devices such as a headset for the dispatcher or a designated speaker. It also works in reverse for outgoing audio, using the DSP to process the audio signals from a microphone and sending them via the USB port to the console. This Media Dock XS arrangement allows headset side tones, TRHI, microphones, and four speakers to be independently connected to various channels via console setup controls.

MAX Radio Gateway

The Radio Gateway serves as the interface point between a radio or base station and the rest of the MAX system. The Radio Gateway supports both analog and digital radios, including P25 radios. It converts the radio specific messaging into MAX messaging for use throughout the internal system. Each Radio Gateway may interface up to two radios and also has two independent Ethernet ports available to accommodate full MAX network redundancy. The Radio Gateway interfaces to a wide range of conventional and trunked protocols, both manufacturer proprietary and open standard, all of which can coexist on a single MAX Dispatch system. The Radio Gateway is also equipped with physical I/O's to provide system-wide, auxiliary I/O functions that can be used for monitoring site alarms and controlling site devices such as generators. The functions of the Radio Gateway include:



- Operation for up to two radio channels simultaneously with four inputs and four outputs of AUX I/O per unit.
- Harmonization of various fixed station interfaces with MAX internal protocols.
- Controlling the operating frequency of the attached fixed station.
- Controlling various features of the attached fixed station. (e.g. CTCSS, talk-group control)
- Signal processing capabilities to support in-band tone signaling, vocoding, mixing, and encryption.
- Supports patching and conferencing among multiple resources.
- Able to interface to several analog and digital radio types.

MAX Central

MAX Central is a centralized hardware platform that hosts several services that are critical to the MAX Dispatch system. If a specific system has multiple, geographically disparate sites, MAX Central acts as the communication portal among them. In addition, the MAX Central provides the interface to other console system essentials, such as SIP telephony gateways, third-party IP voice loggers, auxiliary I/O devices, Location Gateway Service, AVL Service, and CAD Gateway Service. A minimum of one MAX Central device is required at each site. Adding a second MAX Central at each site provides redundancy for the core functions of the MAX Dispatch system.

MAX Dispatch System Summary

Zetron has been designing and delivering communications systems for mission-critical control rooms and communication centers worldwide since 1980. Zetron is the dispatch industry premier supplier and prides itself for consistently providing customers best-in-class console systems. MAX Dispatch offers the following features and functionality:

- The system's intelligent user interface (UI) selectively displays important information so operators can focus on the incident at hand without the distraction of unnecessary information.
- Unique one-click operations and intuitive UI give operators immediate access to information and controls. This improves response times and reduces operator fatigue and errors.
- Support for off-site access allows MAX Dispatch to be maintained and operated remotely. This facilitates appropriate staffing as well as the timely diagnosis and resolution of system issues.
- The system's analog and digital radio gateways interface to a wide range of conventional and trunked protocols, both manufacturer proprietary and open standard, all of which can reside on a single system.
- MAX Dispatch is scalable from a single LAN configuration to a multi-node, geographically diverse WAN configuration.
- The use of standards-based IP protocols ensures the system's compatibility with commercial, off-the-shelf (COTS) IP network devices.



Hardware and Services Summary

The following items are included in the hardware/equipment and services that RCC will provide Scotland County for the Zetron MAX Dispatch radio console system.

Equipment and Software

Five (5) MAX Pro workstation positions, each including:

- Workstation PC with the following Software Licenses
 - MAX Base Software
 - Individual Call
 - Tone Signaling/Paging
 - Telephony
 - Event Replay
 - Aux I/O Control Feature Set
- Media Dock
- Two (2) Speakers
- Two (2) Dual Prong Headset Jackbox with Dual Volume Control
- Footswitch

MAX Dispatch System Control and Endpoint radio interface equipment:

- Two (2) MAX Central redundant hardware platforms that hosts Z-Node Manager
- Two (2) Z-Node Managers, redundant
- One (1) MAX Central Portal Host and Portal Z-Node License (for connectivity to Richmond County MAX Dispatch system to share resources; requires Portal on Richmond County side, as well)
- Thirty (30) radio channel licenses
- Power supplies and mounting hardware
- 19" equipment racks
- Network switches with fiber interfaces

Services

- Preparation, configuration, and programming of the system
- Installation of the console operator positions and common system equipment
- Up to two (2) days of training, divided into Supervisor and Operator
- First year warranty, software services, and 24x7 emergency service response for critical system failures

RCC welcomes the opportunity to discuss options of critical spare equipment and extended service agreements, if the County wants to consider these items.

Special Notes:

- The County is responsible to provide the following for a successful implementation:
 - Full access to site(s), as required
 - Appropriate AC power for all equipment
 - Appropriate IT network and connectivity, as required
 - Appropriate indoor climate controlled installation space at the site(s)



17 January 2020

Zetron MAX Dispatch Pricing Summary

Radio Communications Company is pleased to provide Scotland County the following pricing for a new Zetron MAX Dispatch console solution. This is based on information provided from the County as well as on-site visits.

System Equipment and Hardware:

- Zetron MAX Dispatch Operator Positions \$91,953.35
- Zetron MAX Dispatch System Control Equipment \$68,044

Services:

- Installation, Testing, Cutover, Post-Implementation Documentation \$28,036
- First year factory warranty, software services, and RCC's 24x7
Emergency Service Response Included
- Two (2) days of On-Site Training \$5,000

Total \$193,033.35

Taxes are additional, as applicable. Pricing included herein is valid for 60 days.



Itemized Hardware Summary

MAX Dispatch Operator Positions

Five (5) MAX Pro Workstations, each including:

- Workstation PC \$1,700 each position
- Software Licenses ~~\$9,939.17~~ each position
Transposed \$9,399.17
 - MAX Base Software
 - Individual Call
 - Tone Signaling/Paging
 - Telephony
 - Event Replay
 - Aux I/O Control Feature Set
- Media Dock \$3,890 each position
- Two (2) Speakers (standard) \$1,130.50 each position
- Desk Microphone \$635 each position
- Two (2) Dual Prong Headset Jackbox with Dual Volume Control \$1,520 each position
- Footswitch \$116 each position

Total for 5 Operator Positions: \$91,953.35

MAX Dispatch System Control Equipment

- ~~(2)~~ MAX Central redundant hardware platforms that hosts MAX Z-Node Manager \$12,702
- (30) Radio Channel Licenses \$9,078
- ~~(1)~~ MAX Central Portal Host and Portal Z-Node License \$7,296
- Power Supplies and Distribution, Redundant Network Switches, Miscellaneous Hardware \$38,968 50%

Adjusted for ineligible expenses.



RADIO COMMUNICATIONS COMPANY

8035 Chapel Hill Road
Cary, North Carolina 27513
P. O. Box 68, Cary, North Carolina 27512
(919) 467-2421 • Fax (919) 467-6548

Payment Terms

RCC respectfully submits the following suggested Payment Terms:

25% non-refundable deposit upon written notice to proceed

50% payment when equipment is delivered to the site (or ready to be delivered)

15% upon installation

10% upon final acceptance



Preliminary Project Schedule

Following receipt of an award, RCC and Scotland County Emergency Services will schedule a Kickoff Meeting, where project managers will be identified, any issues and additional implementation details will be discussed. This should be scheduled as soon as possible after a purchase order.

Following the Kickoff meeting, the Preliminary Project Schedule to be considered is:

Week 1-4 Preliminary Project Review

By the end of this time period, RCC and Scotland County will complete an understanding of:

- Installation responsibility details
- Cutover planning
- Functional Acceptance Test Plan (FATP)

Weeks 5-8 Final Project Review

By the end of this time period, RCC will complete and present the Cutover plan and FATP.

Weeks 9-12

Equipment will be received at RCC and readied. Assuming the site is ready, the equipment will be delivered and installed.

Week 13-14

System will be tested and accepted.

Week 15-16

Training will be performed and cutover will take place.



Training

Radio Communications Company is pleased to provide systems training to Scotland County, performed by qualified personnel. Courses will include Supervisor and Operator training to provide the users the tools to successfully use the new Zetron MAX Dispatch system.

RCC proposes two days of training. The first day will consist of a class for the supervisory staff and a class for general user operators. The second day will consist of two general user operator classes.

Each class will utilize the 911 center and the operator positions for actual hands-on training on the new systems.

Tab 8 b)

**CMPD-Charlotte Fire
(Secondary PSAP)
(Vote Required)**



August 29, 2019

Pokey Harris
NC Department of Information Technology
PO Box 17209
Raleigh NC 27619

Dear Ms. Harris,

As the primary PSAP, Charlotte-Mecklenburg Police Department would like to submit the FY2020 Funding Reconsideration Request on behalf of our secondary PSAP, Charlotte Fire Department.

The Charlotte Fire Department's Communications Division is a recognized secondary PSAP. While the Division only receives approximately 22,000 911 calls per year, over 130,000 calls are dispatched; including EMS, Fire, Rescue, and Hazardous Materials calls. Calls are received via other means than 911, including CADTOCAD interface with the County's EMS agency, administrative lines, and radio talkgroups.

FY18's funds were not used causing a reduction of of \$29,139. This was caused by a change in leadership positions and the way funding was utilized and accessed prior. In addition, until a meeting in August of 2018 this was not known by members of our Division and Finance.

The Department is required to pay for telephone services. This money was requested to be added to the budget and this was not approved in the City budget. This totals \$126,172.40 to be paid to West/Intrado. The Department/Division also was not approved for funding for our 911 recorder. Carolina Recording's invoices total \$25,630.00. The Department is having to encumber the additional expenses into the Fire Department's FY20 budget. There were additional cuts to the technology budget as well.

This year the City also lost its UASI (Urban Area Security Initiative) designation. This is a loss of two million dollars. This is causing the Department to have to cover expenses previously covered under this program. There are also costs that are being incurred in preparation of and will be incurred with the addition of the RNC coming in August of 2020.

Charlotte Fire is requesting reconsideration of funds for FY20 totaling \$180,941.40. These are by no means the entire expenses for the 911 center but to help mediate the changes and challenges that are being faced in this budget year.

Building Partnerships To Prevent The Next Crime.

Police Department • 601 East Trade Street • Charlotte, N.C. 28202-2940

Call Summary**11 Positions****22,219 Total 911 Calls**

Charlotte Fire (INT)

221 N Myers

Charlotte, NC 28202

County: Mecklenburg

Year: 2018

Agency Affiliation

Fire

Report Date: 01/16/2020 13:15:32

Report Date From: 07/01/2018

Report Date To: 06/30/2019

Period Group: Month

Days Of Week: All

Call Type: 911 Calls

Abandoned Filters: Include Abandoned

NSI Filters: NSI Included in 911 Totals

Agency Affiliation: All

	July 2018	August 2018	September 2018	October 2018	November 2018	December 2018	Total	
911	Inbound	1,977	1,898	2,016	2,039	1,606	1,858	11,394
	Abandoned	3	2	4	1	3	16	29
	Abandoned %	0.15%	0.11%	0.20%	0.05%	0.19%	0.85%	0.25%
	Unparsed	0	0	0	0	0	0	0
	Total	1,980	1,900	2,020	2,040	1,609	1,874	11,423
Avg Call Duration	89.2	87.9	94.5	96.9	94.6	91.0	92.3	
Total	1,980	1,900	2,020	2,040	1,609	1,874	11,423	

Page 1 of 2

Call Summary

Charlotte Fire (INT)

221 N Myers

Charlotte, NC 28202

County: Mecklenburg

Year: 2019

Agency Affiliation

Fire

Report Date: 01/16/2020 13:15:32

Report Date From: 07/01/2018

Report Date To: 06/30/2019

Period Group: Month

Days Of Week: All

Call Type: 911 Calls

Abandoned Filters: Include Abandoned

NSI Filters: NSI Included in 911 Totals

Agency Affiliation: All

	January 2019	February 2019	March 2019	April 2019	May 2019	June 2019	Total	
911	Inbound	1,634	1,560	1,635	1,762	2,093	2,067	10,751
	Abandoned	4	6	8	10	10	7	45
	Abandoned %	0.24%	0.38%	0.49%	0.56%	0.48%	0.34%	0.42%
	Unparsed	0	0	0	0	0	0	0
	Total	1,638	1,566	1,643	1,772	2,103	2,074	10,796
Avg Call Duration	92.9	89.3	91.2	92.1	90.3	90.4	91.0	
Total	1,638	1,566	1,643	1,772	2,103	2,074	10,796	

Page 2 of 2

Call Summary

Charlotte Fire (INT)

221 N Myers

Charlotte, NC 28202

County: Mecklenburg

Years: 2016 - 2017

Agency Affiliation: Fire

Report Date: 02/14/2020 13:28:49

Report Date From: 07/01/2016

Report Date To: 06/30/2017

Period Group: Year

Days Of Week: All

Call Type: 911 Calls

Abandoned Filters: Include Abandoned

NSI Filters: NSI Included in 911 Totals

Agency Affiliation: All

		2016	2017	Total
911	Inbound	12,012	10,889	22,901
	Abandoned	33	22	55
	Abandoned %	0.27%	0.20%	0.24%
	Unparsed	0	0	0
	Total	12,045	10,911	22,956
	Avg Call Duration	86.2	87.4	86.8
	Total	12,045	10,911	22,956

North Carolina 911 Board

PSAP Name: Charlotte Fire
 Contact Name: Johnny Horn
 Contact Address: 221 N Myers Street
 City: Charlotte
 Zip: 28202
 Contact Email: jhorn@charlottenc.gov

Instructions: All requests for review of PSAP Distribution amount must use this form with each request. Please do not change block descriptors, formulas or formatting. *PLEASE SEE INSTRUCTIONS tab for further details*** All requests are due by February 28 2019. Email this form and all supporting documentation to marsha.tapler@nc.gov. If you have questions regarding this form or filing a request, please call Marsha Tapler at 919-754-6344 or email at marsha.tapler@nc.gov.**

June 30, 2019 Emergency Telephone System Fund Balance: \$2,597.01

	FY2020 Requested Increase Amount ONE-TIME Capital Purchase Cost	FY2020 Requested Increase Amount Recurring MONTHLY Cost	FY2020 Requested Increase Amount ANNUAL Cost	Comments
PHONE & FURNITURE Expenditure				
West Safety Solution			114,438.72	Total \$126,172.40 however lowered per 866.96/seat
TOTAL	\$0.00	\$0.00	\$114,438.72	Note this is not being requested for recurring this is being requested as one time funding.
SOFTWARE				
Voice Logging Recorder			24,270.68	Note this is not being requested for recurring this is being requested as one time funding.
Software Maintenance				
TOTAL	\$0.00	\$0.00	\$24,270.68	

List expenditures to be applied to fund balance and submit quotes or invoices for review.:

Expense Amount

Total remaining Fund balance:

\$0.00

Items below this cell are to be completed by 911 Board Staff

APPROVED FY2020 FUNDING

\$26,724.41

FY2020 Annual One Time Request

\$138,709.40

Requested FY2020 Funding

\$165,433.81

Secondary PSAP is funded on a cost per call basis.

TEMPLATE

FY2020 Funding Reconsideration Worksheet:

PSAP Name:

CMPD for Charlotte Fire

FY2019 Estimated Ending Fund Balance	\$2,597.01
PSAP Funding Distribution for FY2020	\$26,724.41
Approved Budgeted Operational for fiscal year.	-\$26,724.41
Approved Budgeted Capital for fiscal year.	
Fund balance:	<hr/> \$2,597.01

PROJECT BUDGET REPORT

FOR 07/01/2019 - 01/31/2020

Original Budget	Net Budget Amendments	Revised Budget	Requisitions	Encumbrances	Actuals	Available Budget	Percent Used
Project: 3081000003 - OTHER - Fire Secondary PSAP							
F 3081000003-5000	-50009000	-2020	Secondary PSAP Fire				
0.00	-26,724.41	-26,724.41	0.00	0.00	0.00	-26,724.41	0.00%
EFF DATE	JNL	LINE	SRC REF1	REF2	REF3	CHECK	AMOUNT D/C GLYrPr GLJnl GLLine
11/21/2019	302277	7	BUA PSAP91	FY20Bud911			26,724.41 C 2020/05 307979 7
TOTALS for Phase/Source: 5000 -							
0.00	-26,724.41	-26,724.41	0.00	0.00	0.00	-26,724.41	0.00%
E 3081000003-9010000000-	-		Fire secondary PSAP				
0.00	352,028.71	352,028.71	0.00	0.00	-120.00	352,148.71	-0.03%
EFF DATE	JNL	LINE	SRC REF1	REF2	REF3	CHECK	AMOUNT D/C GLYrPr GLJnl GLLine
11/21/2019	302277	3	BUA PSAP91	FY20Bud911			26,724.41 D 2020/05 307979 3
TOTALS for Phase/Source: 9010000000 -							
0.00	352,028.71	352,028.71	0.00	0.00	-120.00	352,148.71	-0.03%
EXPENSE TOTALS for Project: 3081000003 - OTHER - Fire Secondary PSAP							
0.00	352,028.71	352,028.71	0.00	0.00	-120.00	352,148.71	-0.03%
FUNDING SOURCE TOTALS for Project: 3081000003 - OTHER - Fire Secondary PSAP							
0.00	-26,724.41	-26,724.41	0.00	0.00	0.00	-26,724.41	0.00%
TOTALS for Project: 3081000003 - OTHER - Fire Secondary PSAP							
0.00	325,304.30	325,304.30	0.00	0.00	-120.00	325,424.30	
TOTALS FOR EXPENSE STRINGS							
0.00	352,028.71	352,028.71	0.00	0.00	0.00	-120.00	352,148.71 -0.03
TOTALS FOR FUNDING SOURCE STRINGS							
0.00	-26,724.41	-26,724.41	0.00	0.00	0.00	0.00	-26,724.41 0.00
REPORT TOTAL							
Original Budget	Net Budget Amendments	Revised Budget	Requisitions	Encumbrances	Actuals	Available Budget	
0.00	325,304.30	325,304.30	0.00	0.00	-120.00	325,424.30	

PROJECT BUDGET REPORT

REPORT OPTIONS

Template Information

Report template code: PROJBUDRPT
Template description: Project Budget Report
Master template: Y

Report Options

Format: 8 columns
Segment description: Short
Print report definitions? Y
Showing funding source strings as credits? Y
Double space the report? N
Exclude project strings with zero balances? Y
Include cents in dollar amounts? Y
Amounts exceed 999 million? N
Only include project strings that exceed 0% of available budget

Column Definitions

Column 1 code:001 Original Budget
Column 2 code:002 Amendments
Column 3 code:005 Revised Budget
Column 4 code:007 Requisitions
Column 5 code:006 Encumbrances
Column 6 code:008 Actuals
Column 7 code:011 Available
Column 8 code:015 PCTUSD(enc/act)

Project String Selection

Expense Funding Source
Project: 3081000003 3081000003
Phase: 9010000000
Task:
Sub-Task: 2020

Report Options

Beginning year/month: 2019/7
Ending year/month: 2020/1
Group by Major Project? N
Group by Budget Level N

Sorting Options

1: Project 2: Phase/Source
Total Y Total Y
Page break Y Page break Y

Detail Options

Include string description: Long
Include Project String Detail: Y
Include Employee Detail: N

PROJECT BUDGET REPORT

REPORT OPTIONS

Include Journal Detail:	Y
Include Actual Detail:	Y
Include Encumbrance Detail:	N
Include Budget Detail:	Y
Include vendor info:	N
Include unposted transactions:	N
Journal source code(s):	

** END OF REPORT - Generated by Crockett, Kim **

2020 FIRE DEPARTMENT
YEAR TO DATE BUDGET REPORT

FOR 2020 13		JOURNAL DETAIL 2020 1 TO 2020 13					
ACCOUNTS FOR: 3130 CFD Communications							
ORIGINAL APPROP	TRANS/ADJSMTS	REVISED BUDGET	YTD EXPENDED	ENCUMBRANCE/REQ	AVAILABLE BUDGET	% USED	

51 Personal Services

510100 Salaries & wages - Regular						
1,847,762.00	0.00	1,847,762.00	0.00	0.00	1,847,762.00	.0%
510140 overtime						
90,000.00	0.00	90,000.00	0.00	0.00	90,000.00	.0%
510195 Employee Merit Pay						
34,040.00	0.00	34,040.00	0.00	0.00	34,040.00	.0%
515130 Social Security Tax						
142,870.00	0.00	142,870.00	0.00	0.00	142,870.00	.0%
515140 Empl Retirement Expns						
168,421.00	0.00	168,421.00	0.00	0.00	168,421.00	.0%
515150 Empl Insurance Premium						
297,400.00	0.00	297,400.00	0.00	0.00	297,400.00	.0%
515190 401k Retirement						
55,846.00	0.00	55,846.00	0.00	0.00	55,846.00	.0%
TOTAL Personal Services						
2,636,339.00	0.00	2,636,339.00	0.00	0.00	2,636,339.00	.0%

2020 FIRE DEPARTMENT
YEAR TO DATE BUDGET REPORT

FOR 2020 13 JOURNAL DETAIL 2020 1 TO 2020 13

ACCOUNTS FOR: 3130 CFD Communications
ORIGINAL APPROP TRANS/ADJSMTS REVISED BUDGET YTD EXPENDED ENCUMBRANCE/REQ AVAILABLE BUDGET % USED

52 Operating Expenses

520030 Uniforms-Prot Clothing								
15,000.00	0.00	15,000.00	0.00	0.00	15,000.00	.0%		
520060 Meals and Subsistence								
4,000.00	0.00	4,000.00	0.00	0.00	4,000.00	.0%		
520110 ISP Fleet - M&R-Auto/Equipme								
3,860.00	0.00	3,860.00	0.00	0.00	3,860.00	.0%		
520160 ISP M&R-Communication Eqp								
480,227.00	0.00	480,227.00	0.00	0.00	480,227.00	.0%		
520610 Education								
8,700.00	0.00	8,700.00	0.00	0.00	8,700.00	.0%		
521910 Misc Contractual Services								
9,172.00	0.00	9,172.00	0.00	0.00	9,172.00	.0%		
522000 Motor Fuels & Lubrcnts								
3,800.00	0.00	3,800.00	0.00	0.00	3,800.00	.0%		
522200 Janitorial & Cleaning Suppli								
1,000.00	0.00	1,000.00	0.00	0.00	1,000.00	.0%		
522210 Specialty Departmental Suppl								
9,100.00	0.00	9,100.00	0.00	0.00	9,100.00	.0%		
522230 Sm Tools & Expnd Eqpt								
6,100.00	0.00	6,100.00	0.00	0.00	6,100.00	.0%		
522240 office Supplies								
4,120.00	0.00	4,120.00	0.00	0.00	4,120.00	.0%		
522490 Other Materials/Supplies								
118,500.00	0.00	118,500.00	0.00	0.00	118,500.00	.0%		
522500 Telecommunications								
3,730.00	0.00	3,730.00	0.00	0.00	3,730.00	.0%		
524020 Rental of Equipment								
3,600.00	0.00	3,600.00	0.00	0.00	3,600.00	.0%		
529020 Training Conf & Meetings-Day								
12,320.00	0.00	12,320.00	0.00	0.00	12,320.00	.0%		
529030 Postage								
300.00	0.00	300.00	0.00	0.00	300.00	.0%		
529040 Printing & Publishing								
2,450.00	0.00	2,450.00	0.00	0.00	2,450.00	.0%		
529050 Dues,Subscr, & Prof Lic								
10,928.00	0.00	10,928.00	0.00	0.00	10,928.00	.0%		
TOTAL Operating Expenses								
696,907.00	0.00	696,907.00	0.00	0.00	696,907.00	.0%		
TOTAL CFD Communications								
3,333,246.00	0.00	3,333,246.00	0.00	0.00	3,333,246.00	.0%		

5 Year Technology Plan

FY20

- CAD Software Upgrade
- Replace CAD workstations and monitors at the Primary Center (Every 3 Years)
- Replace keyboards and Mice at the Primary Center (Every 3 Years)
- Replacement Headsets at the Primary Center (Every 3 Years)
- Replace CAD Servers (Every 5 Years)
- DR solution for CAD (Every 5 Years)
- Replace UPS at the Primary Center (Every 10 Years)

FY21

- E911 Software Upgrade (Every 2 Years)
- Fire Station Alerting System Software Upgrade (Every 2 Years)
- Replace CAD workstations and monitors at the Backup Center (Every 3 Years)
- Replace keyboards and Mice at the Backup Center (Every 3 Years)
- Replacement Headsets at the Backup Center (Every 3 Years)
- ESINet Transition
 - After RNC, CMPD/Fire/Medic start discussions with NC 911 on the transition to ESINet and then follow the upgrade schedule set by NC 911.

FY22

- CAD Software Upgrade (Every 2 Years)
- Replace GIS Server (Every 5 Years)

FY23 Public Safety Communications Building (Joint Communications Building - New Construction)

- E911 Software Upgrade (Every 2 Years)
- Fire Station Alerting System Software Upgrade (Every 2 Years)
- Replace CAD workstations and monitors at the Primary Center (Every 3 Years)
- Replace keyboards and Mice at the Primary Center (Every 3 Years)
- Replacement Headsets at the Primary Center (Every 3 Years)
- E911 Hardware refresh (Every 5 Years)
- Public Safety Network Switches for PSCB (Every 7 Years)
- Emergency Power Generator for PSCB (Every 10 Years)
- UPS for PSCB (Every 10 Years)

- Radio consoles for PSCB (Every 10 Years)

FY24

- CAD Software Upgrade (Every 2 Years)
- Replace CAD workstations and monitors at the Backup Center (Every 3 Years)
- Replace keyboards and Mice at the Backup Center (Every 3 Years)
- Replacement Headsets at the Backup Center (Every 3 Years)

FY25

- E911 Software Upgrade (Every 2 Years)
- Fire Station Alerting System Software Upgrade (Every 2 Years)
- Replace CAD Servers (Every 5 Years)
- DR solution for CAD (Every 5 Years)



Carolina Recording Systems Service/Maintenance Plan Coverage

For: Charlotte Fire Department

Term: February 1, 2020 through January 31, 2023 (3 years) with the option to renew for an additional two years through January 31, 2025.

Annual Invoice Amounts: \$22,630 (2020-2021), \$23,305 (2021-2022), \$24,005 (2021-2022)

Optional year amounts to be determined and sent as budgetary quotes in advance of billing.

SERVICES PROVIDED:

- No charge will be made for necessary service repair due to manufacturer defect or normal wear and tear. Exceptions include when a malfunction is caused by water, fire, flood or other casualty, accident, misuse, abuse, cyber-attacks or viruses, extreme temperatures, power line fluctuations, lightning, or other acts of nature or if the necessary replacement parts are not available. In no event will Carolina Recording Systems, LLC be responsible for consequential or incidental damages beyond our sole obligation to repair or replace the defective unit.
- Agreement provides 24/7 response, free service loan equipment in the case of full system failures (except in circumstances beyond our control), parts, labor and mileage during the contract period.
- Agreement will be for time period agreed and can be renewed each year during system ownership unless canceled by either party or Customer's failure to pay invoice within 60 days. Customer will be invoiced at the beginning of each annual agreement term period.
- The Service agreement amount may be subject to an annual increase to adjust for inflationary costs.
- Customer should provide an onsite contact person(s) designated to perform routine maintenance and be responsible for the overall operation of the recording system.
- While it is our policy to check and respond to system alerts, there are circumstances such as loss of communication, internet connectivity, or other factors that could interfere with our ability to identify an issue. We require that center personnel contact us immediately if they are notified by the recording system of a problem.
- Customers with Systems covered under a Service Agreement are eligible to receive system training as needed for site personnel at no additional cost.
- Our technicians will perform periodic system inspections and provide scheduled preventative maintenance measures to help provide a higher level of system reliability in

a mission-critical environment. CRS technicians will instruct customer site personnel on these requirements.

- Most software revisions and updates designed to maintain system features or repair software flaws will be provided on recording systems under contract at no additional charge. Third party license costs and system relocations/cut-overs due to changes, updates or installation of new CPE equipment as well as radio equipment upgrades such as AIS Astro version licenses will be charged an agreed upon rate.
- Agreement provides for 24/7 technician toll free telephone response within 30 minutes. Toll-free telephone support available at (888) 661-0202
- Agreement provides for 24/7 on site service response



Byron Burns - Carolina Recording Systems

03-13-2019

Date

Documents attached:

- Related invoices
- FY18 Charlotte Fire Department's Annual Program Appraisal (FY19 is not out yet)
- Copy of FY15-FY19 911 fund allocation
- FY20 Communication's Division Budget
- 5 Year Technology Plan
- Secondary PSAP Document
- Reconsideration Spreadsheet

Thank you very much for the consideration.

A handwritten signature in black ink, appearing to read 'Kellie High-Foster', written in a cursive style.

Kellie High-Foster
Business Services Manager
Financial Management Division
Charlotte-Mecklenburg Police Department

RECEIVED
By LJohnson at 3:40 pm, Dec 12, 2018

west
Safety Solutions, Corp
1601 DRY CREEK DRIVE
LONGMONT, CO 80503
USA

PO # 19012839
Line 1 QTY 1

INVOICE #: 169241A Rev2

INVOICE DATE: 6/14/18
PO#: Per Contract
TERMS: NET 30 DAYS

CUSTOMER:
CHARLOTTE FIRE DEPARTMENT
500 DALTON AVE.
CHARLOTTE, NC 28206
USA
1025

SHIPPING LOCATION:
CHARLOTTE FIRE DEPARTMENT
500 DALTON AVE.
CHARLOTTE, NC 28206
USA

CUSTOMER # :

LINE	QTY	PRODUCT #	DESCRIPTION	UNIT COST	TOTAL COST
			As per contract - CFD Site Onsite Maintenance/Help Desk/Evergreen, 07/01/18-06/30/19		90,810.63

Please send remittance to:

West Safety Solutions, Corp
PO Box 74007075
Chicago, IL 60674-7075
Please make note of our new
lockbox address

ACH Information:

Bank Name: Bank of America
Bank Add: 1401 Elm St 2nd Flr, Dallas Tx 7520
Acct Name: West Safety Solu
Acct Number: 334037143583
ABA Routing Number: 061 000 052
For Billing Questions, Please Call:
1-800-269-4165 Or Email:

Wire Information:

Bank Name: Bank of America
Bank Address: 100 West 33rd St NY, NY 10003
Account Name: West Safety Solutions, Corp
Account Number: 334037143583
ABA Routing Number: 026009593
Swift Code: BOFAUS3N

INVOICE TOTAL: 90,810.63
APPLICABLE TAXES: -
PREVIOUS PAYMENTS: -
AMOUNT DUE: \$90,810.63
USD

Project Expense Inquiry - Munis [PRODUCTION DATABASE Jul 12 2014]
ⓘ ? ✕

HOME

Accept Cancel Search Query Builder

Add Update Delete Global* Duplicate

Print Text file PDF Excel Word Email Schedule

Attach Notes Audit Return View Changes

Notify Maplink* Alerts* Detail Employee Detail

Amount View More... Return

Project string

Project 3081000003 ... OTHER - Fire Secondary PSAP Description

Phase 9010000000 ... Operational Needs

Task ... Justification

Sub-Task ...

AP Retainage

Retained to date

Liquidated

Permanently withheld

Unrelieved

Name Fire secondary PSAP

Short Name FirePSAP

Status Active

Projected date range 10/01/2014 to 10/31/2099

Actual date range to to

Project Available Budget Life to Date

Include in budget check

Actual overhead rate 0.00 %

Expense Type O076 ... OperAssist

Project String Balances
GL Accounts
User Defined

Default GL account

Fund	Department	Function	Division	Section	Location	Regulatory
2300	30	30	3080	308100	000000	000

Org Object Project

530500 Allow GL Override

Budget GL account

Fund	Department	Function	Division	Section	Location	Regulatory
2300	30	30	3080	308100	000000	000

Org Object Project

⏪ <
2 of 2
> ⏩



Maintenance Renewal

for

Charlotte FD, NC

(Direct Sale)

Quote Number: 34452

Version: 2

May 16, 2019

The terms and conditions available at west.com/legal-privacy/terms/call-handling will apply to this Quote, unless the parties have entered into a separate mutually executed agreement, or Customer is purchasing under a cooperative purchasing agreement. The terms of this Quote will govern any conflict with the above-mentioned terms, and Customer's issuance of a purchase order for any or all of the items described in this Quote will constitute acknowledgement and acceptance of such terms. No additional terms in Customer's purchase order will apply. This document contains confidential and proprietary information owned by West Safety Solutions Corp. or its affiliates, and such information may not be used or disclosed by any person without prior written consent.

Summary –Partial Year/Years - Charlotte FD

Item	Cost
Maintenance	\$35,361.77
Total:	\$35,361.77

Year	Systems	Professional Services	Recurring Services	Maintenance Services	Totals
Year 1				\$35,271.35	\$35,271.35
Year 2				\$90.42	\$90.42
Totals				\$35,361.77	\$35,361.77

Configuration - Charlotte FD

Site Configuration

Total Positions	11
-----------------	----

Maintenance

Software Subscription	\$8,227.45
Software Protection and Remote Tech Support	\$6,690.42
Sentry Monitoring Service	\$897.60
Dedicated Onsite Maintenance	\$19,546.30

Model#	Description	Qty	List Price	Selling Price	Total
Software Subscription- 1/1/20--6/30/20					
950999/SUB1	Software Subscription Service - 1 Year/Position Partial Year 1	11	\$1,500.00	\$747.95	\$8,227.45
				Subtotal	\$8,227.45
Software Protection and Remote Tech Support- 6/27/19--6/30/20					
950999/PRO1	Software Protection and Remote Technical Support - 1 Year/Position Year 1	11	\$600.00	\$600.00	\$6,600.00
950999/PRO1	Software Protection and Remote Technical Support - 1 Year/Position Partial Year 2	11	\$600.00	\$8.22	\$90.42
				Subtotal	\$6,690.42
Sentry Monitoring Service- 1/1/20--6/30/20					
915137	Sentry Monitoring per Node per Year Partial Year 1	15	\$120.00	\$59.84	\$897.60
				Subtotal	\$897.60
Dedicated Onsite Maintenance- 1/1/20--6/30/20					
950999/DEDOSM	Dedicated On-Site Maintenance Partial Year 1	2	\$150,000.00	\$9,773.15	\$19,546.30
				Subtotal	\$19,546.30
				Total	\$35,361.77

Optional Maintenance Services

Model#	Description	Qty	List Price	Selling Price	Total Price
Antivirus Recurring Fees					
<i>Antivirus Year 1</i>					
914143	Symantec EndPoint Protection Manager (EPM) - per year	13	\$63.00	\$63.00	\$819.00
				Subtotal	\$819.00

Notes

- 1 Prorated Software Pro & Remote Tech Support for 11 positions, from 6/27/19 through 6/30/20. Prorated Sentry, Software Subscription, and Dedicated OSM services from 1/1/20 through 6/30/20, so that all maintenance services co-terminate (with the exception of MapFlex maintenance, which expires 6/26/23) at the end of the Customer's fiscal year.

Previous quotes are 18330 and 22715v3.

One year of Anti-Virus shown as optional, and cannot be prorated. Anti-Virus is for all 11 positions and 2 servers, since we cannot catch the 2 positions up with the other 9. Appears Anti-Virus was purchased 10/10/18, so should be valid until 10/10/19.

- 2 **Software Subscription Service** provides the customer with access to software upgrades including new features. This offering only provides for the availability of the software. Installation and training (if needed) are not included. Any required hardware or operating system changes are also not included.

West Safety Solutions, Corp. will provide periodic software release bulletins to customers which announce and explain new feature releases for West Safety Solutions Corp. software. Customers may then request the new release or version from West Safety Solutions Corp. based on applicability of the release to customer's system. The customer is responsible for installation of all these releases, unless the On-Site Maintenance Service is purchased. If On-Site Maintenance has not been purchased and the customer prefers to have West Safety Solutions Corp. deploy a new release, West Safety Solutions Corp. will dispatch appropriate personnel to perform the upgrade on a mutually agreed upon date at West Safety Solutions Corp.'s then current prices for such services.

- 3 **Software Protection and Remote Technical Support** is a coverage requirement with the purchase and ownership of West Safety Solutions Corp. CPE system equipment. The coverage requirement is effective after the expiration of the system warranty, but a purchase order for the service, for at least one year duration, is required at the time of any new system purchase.

Software Protection and Remote Technical Support cannot be deleted from quotes or system orders.

Once a Software Protection and Remote Technical Support service contract is established for the site during system initial purchase, all items subsequently added to the site will not require an additional contract, but the acquisition of additional positions will increase the price of the services.

a. For sites with one year coverage contracts, the increased price will be reflected in the quote at the next contract renewal point.

b. For sites with multi-year agreements, the customer will be required to retract the remaining years of the original purchase order and issue a new purchase order for the remaining period covering the original system and new positions.

If a contract for Software Protection and Remote Technical Support expires without renewal, causing a lapse in coverage, the customer's access to the Support Center will be discontinued and a notification of services termination will be issued. Reinstatement of the lapsed coverage will require the following from the customer:

- a) Payment in full for the lapsed period at the prevailing per-seat rate
 - b) Purchase of a new maintenance agreement (one-year or five-year)
 - c) System Recertification fees in the form of a Class A inspection at \$1,500.00 per day plus related travel and expense charges.
-

Software Protection

This offering provides for the availability of software product updates. Installation and training (if needed) are not included. West Safety Solutions Corp. will publish periodic software release bulletins to customers which announce important product updates for West Safety Solutions Corp. software. Customers may then request the new update from West Safety Solutions Corp. based on applicability of the release to customer's system. Customer is responsible for installation of all these releases, unless the On-Site Maintenance Service is purchased. If On-Site Maintenance has not been purchased and the customer prefers to have West Safety Solutions Corp. deploy a new release, West Safety Solutions Corp. will dispatch appropriate personnel to perform the upgrade on a mutually agreed upon date at West Safety Solutions Corp.'s then current prices for such services.

Remote Technical Support

Support is provided by associates who specialize in the diagnosis and resolution of system performance issues. Remote Technical Support is available 24/7 through both a toll free hotline and a secure customer Internet portal. All service inquiries are tracked by a state-of-the-art CRM trouble ticket system that can be queried by customers through the online portal to obtain the most up-to-date status on their issues.

Terms

VENDOR NAME	West Safety Solutions Corp 1601 Dry Creek Drive Longmont, CO 80503
	Include quote number and customer EIN/Tax Identification Number on P.O.
SUBMIT P.O.	ordermanagement.safetyservices@west.com
PRICING	All prices are in USD Taxes, if applicable, are extra. Handling and Shipping charges are extra unless specified on the quote.
SHIPPING TERMS	FCA (Montreal), INCOTERMS 2010
PAYMENT	Per Contract
DELIVERY	TBD
VALIDITY	Quote expires on September 12, 2019. However, part numbers beginning with Q, such as QXXXXX, constitute unique third-party components. These components, including model and price, (i) may be subject to change at any time; and (ii) are non-cancellable, non-refundable, and non-exchangeable at any time.
COPYRIGHT	The information contained in this document is proprietary to West Safety Solutions Corp and is offered solely for the purpose of evaluation.



QUOTE

FOR: Eventide NexLog Communications Recording System - Decoder

Quote Prepared By

Charlotte Fire Alarm
 221 N. Myers Street
 Charlotte, NC 28202
 Johnny Horn
 (704) 336-8803
jhorn@ci.charlotte.nc.us

Byron Burns
sales@crsnc.com
 (704) 426-3008
 Fax: (888) 776-0201
 Help Desk: (888) 661-0202

Est. Delivery	Terms	Shipping Terms	Quote Valid Through	Quote Number
4 to 6 Weeks	Net 30	FOB - Frieght, Delivery - Prepaid and Add	08/01/2019	CFD0619

Line	Qty	Model	Description	Unit Price	Ext. Price
1	1	324720	DVSI 2-Port USB Decoder Unit (for P25, DMR, MOTOTRBO, NXDN) - Max 8	\$ 3,000.00	\$ 3,000.00

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.

Tab 8 c)

**Charlotte Medic Appeal
Withdrawal**

Pokey Harris

OUR PATIENTS.
OUR PEOPLE.
OUR STEWARDSHIP.
OUR PURPOSE.

7 January 2020

NC 911 Board
Attn: Pokey Harris, Executive Director
c/o NC Office of Information Technology Services
3700 Wake Forest Road
Raleigh, NC 27609

Re: Withdrawal of Reconsideration Request and Appeal

Dear Pokey,

Thank you for meeting on November 15, 2019 with Captain James Wright and me to discuss the Reconsideration and Appeal Requests made by the Mecklenburg EMS Agency. The Reconsideration was paused pending the requested Appeal, and it in turn was paused by our request to facilitate this meeting.

The following summarizes our discussion:

- We requested that the Board make available its Policies and Procedures.
- We related our understanding from the March 2017 WEBEX (recording available) that we were able to file for the Reconsideration.
- You advised that Secondary PSAPs are funded via a cost per call formula, based on the expenditures of the Primary PSAP, and the number of calls transferred to the Secondary PSAP. Only Primary PSAPs are eligible to file a reconsideration.
- You also advised that to your knowledge no other secondary PSAP has received payment for a telephone system via the reconsideration process.
- We were under the impression that CMPD as Primary was instructed to pay for the phone expenses in August 2018 (as we believed they did for another Secondary PSAP), but you have assured us that you are unaware that occurred.
- You suggested we explore seeking reimbursement from any remaining "pre-July 2010" local wire-line funds as an option.

I reiterate my appreciation for the meeting, and based upon the discussion in the meeting, hereby withdraw the initial Reconsideration Request and subsequent Appeal. Please let me know if there is anything else needed with regard to this matter.

Sincerely,



Josef Penner, Executive Director
Mecklenburg EMS Agency



Mecklenburg EMS Agency
4425 Wilkinson Blvd.
Charlotte, NC 28208
p. 704.943.6000
f. 704.943.6001

medic911.com

Tab 8 d)

Jacksonville PD

Seat Count Request

(Vote Required)



City of Jacksonville, NC
Public Safety

PO Drawer 436 • Jacksonville, NC • 28541-0128 • 910 455-1472 • fx 910 455-9987
An internationally accredited Fire Service and Law Enforcement Agency



Public Safety Director, Michael G. Yaniero

September 23, 2019

Jacksonville Public Safety 9-1-1 Center

Jacksonville 9-1-1 Center provides call-taking and dispatching services to both Jacksonville Police Department (JPD) and Jacksonville Fire Department (JFD). The current staffing levels reflect the need for 5.7 positions. The staff is currently restructuring the Communication Division in order to increase staffing levels within the center to reflect this need. The proposed staffing level will include:

- One dispatcher for LEO Primary Dispatch (JPD DISP)
- One dispatcher for LEO Inquiry channel and back up call-taker (JPD Inquiry)
- One dispatcher for Fire Primary Dispatch (JFD DISP)
- One call-taker – when a fire call is received call-taker will operate as an additional Fire Dispatch
- One part-time Telecommunicator call-taker - covering high call volume times on day shift. (also acts as a Fire dispatcher when working as call-taker)
- One part-time Telecommunicator call-taker – covering high call volume times on night shift. (also acts as a Fire dispatcher when working as call-taker)

Jacksonville 9-1-1 Center used the Erlang C Formula model to assist in determining Telecommunicator's Workload and Task Performance for 2018. Jacksonville's 9-1-1 Center requires 95% of emergency calls for answered within 10 seconds or less.

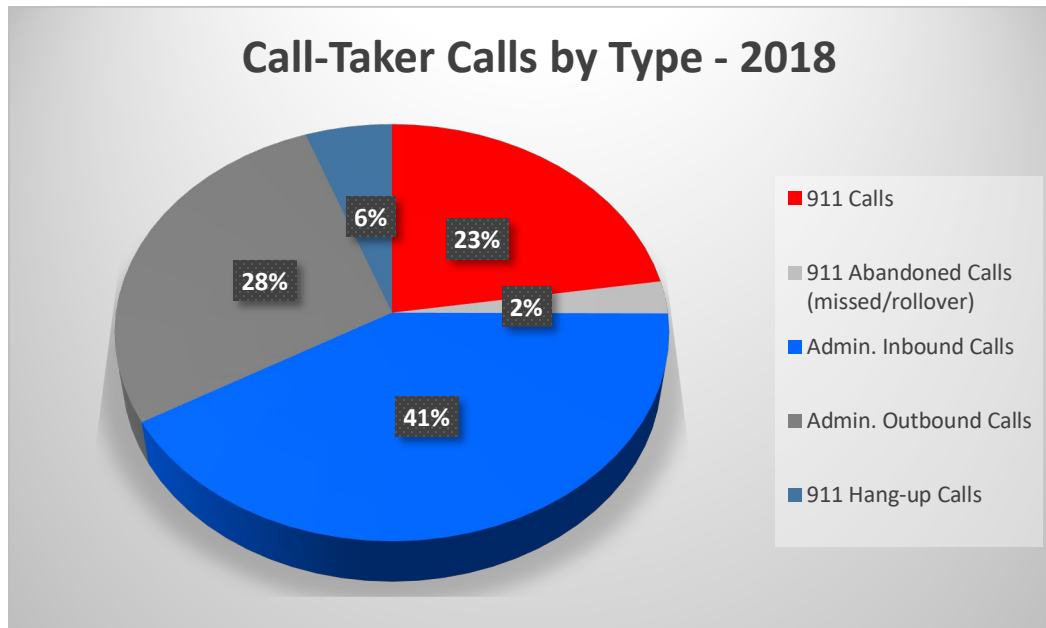
Analyzing the telephone volume and workload provides the data to support the number of Telecommunicators needed at this Agency.

Jacksonville PSAP call data shows in 2018, 149,856 calls answered. The total sum is comprised of inbound emergency 9-1-1, abandoned 9-1-1, administrative inbound calls and administrative outbound calls. Policy states call-takers will answer 9-1-1 calls within 10 seconds and all abandoned 9-1-1 calls are called back and verify no emergency is taking place. During 2018, Telecommunicators answer 9-1-1 calls within 10 seconds 98.77% of the time.

Reviewing calls for 2018 Jacksonville 9-1-1 Center received a total of 149,856 calls.

- 33,750 9-1-1 inbound calls, 24% of the call volume
- 3,777 abandoned 9-1-1 calls, 3% of the call volume (missed/rollover calls)

- 62,189 inbound administrative calls, 44% of the call volume
- 41,744 outbound administrative calls, 29% of the call volume
- 8,313 9-1-1 Hang-up calls, 6% of the calls



9-1-1 Data on Telecommunicator Tasks Performed

Workload Assessment	
Average Task Completion Time Per CAD Incident (in minutes)	1:29 minutes
Average Radio Time Per CAD Incident (in minutes)	1:15 minutes
Average Processing Time (APT) for CAD Incidents (in minutes)	1:17 minutes
Average Hourly Processing Capability (HPC)	25 minutes
Total CAD Incidents	102,776 Incidents
Workload Hours for Dispatchers	20, 311 Hours
Net Availability	
Net Annual Available Work Hours (NAWH)	2008
FTE (Full-Time Equivalent) Needed	
Turnover Rate – 3 years average	74% Turnover Rate
FTE Required to Accommodate Turnover @ 50% AOR	6 Telecommunicators

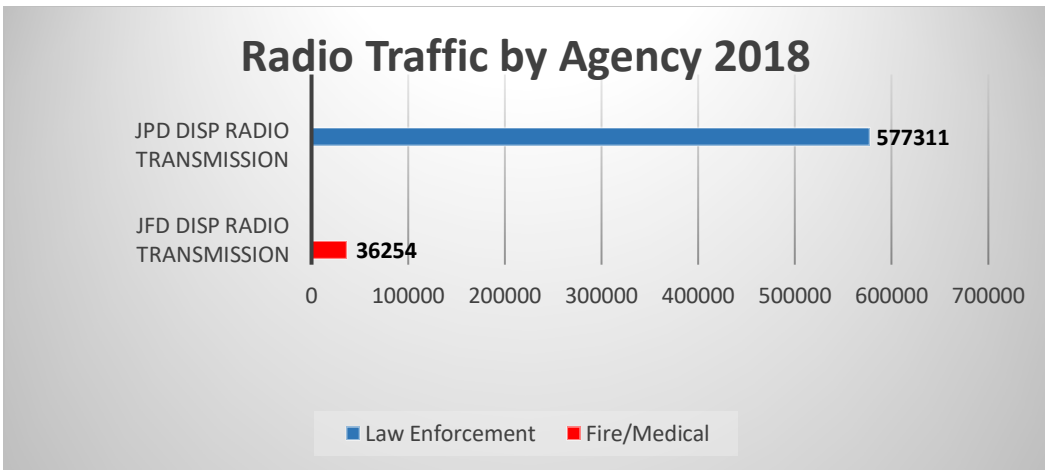
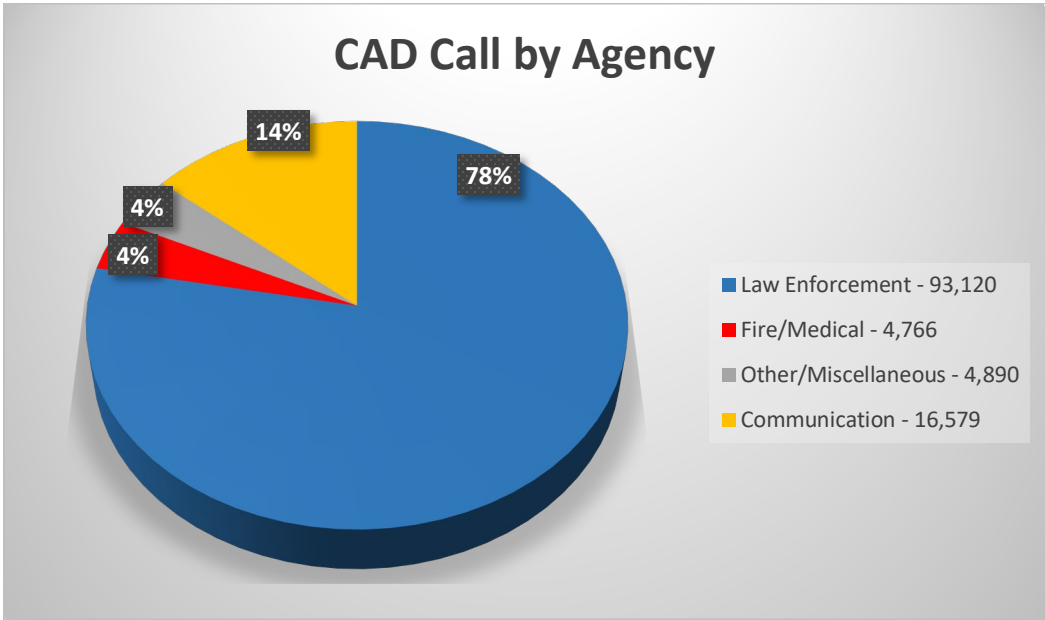
Average Incoming Call Rate – 24 hour period	410
Average Call Duration	86 seconds
Target Answering Time (seconds)	10 seconds
Service Level Required	95%

# of Fixed Post Call-takers Required for Incoming Calls	5.7 Consoles
Percentage of Calls Answered within 10 second	98.45%

The 9-1-1 Center input 102,776 calls into CAD during 2018. Communication's entered 16,579 in CAD; this is 14% of all calls entered into CAD.

Dispatch Telecommunicators interacted with First Responders by radio 613,565 times.

- A Telecommunicator/Dispatcher answered, called, or input transmitted information with Law Enforcement 577,565 times and with Firefighters 36,254 times over the course of 2018.



Call Centre Shrinkage Calculator

Based on					
Working days per year	365				
Working hours per week	48				
External Shrinkage	Hours per week	Days per year	Shrinkage Days	Percentage	
Annual Leave		60.8	60.8	16.7%	
Public holidays		11	11.0	3.0%	
Sickness		50.4	50.4	13.8%	
Absenteeism/ Lateness		10	10.8	3.0%	
Internal Shrinkage					
Training		24	24.0	6.6%	
Counseling		15	16.3	4.5%	
Quality Assurance	65		70.4	19.3%	
Team meetings		4	4.3	1.2%	
Daily Reports	14		15.2	4.2%	
Paid Breaks	5		5.4	1.5%	
Toilet breaks	2.5		2.7	0.7%	
System problems	3		3.3	0.9%	
Other activities		10	10.8	3.0%	
			Shrinkage Days	Percentage	
Total			285.4	78.2%	

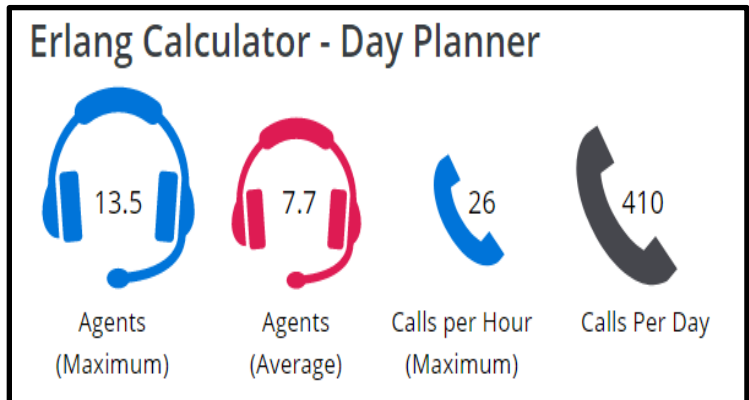
NENA Staffing Worksheet data

	Shift	
	Busy Hour	Normal
9-1-1 calls in Erlangs	0.430	0.143
7-/10-digit emerg # calls in Erlangs	0.454	0.191
Total Erlangs per Shift . . .	0.884	0.334
Call takers required per shift . .	6	5
Number of shifts per day . . .	2	2
Total Call Takers on watch in typical day	4	
Staffing Ratio	4.35	
Telecommunicators required for 24 x 7	17.4	

The staffing Recommendation.

Data Collected Using the Erlang Calculator

Summary	
Maximum Calls per Period	26
Maximum Number of Agents	13.5
Average Number of Agents	7.7
Average Occupancy	17.7%
Service Level for Day	97.9%
Answered in	10 Seconds
Average Speed of Answer (ASA)	1 Seconds
Answered Immediately	97.1%



Jacksonville Public Safety 9-1-1 input current data from 2018 into the online Erlang Calculator – Day Planner. This formula reviewed multiple contacts/data to conclude our Agency requires a maximum of 13.5 Agents and an Average of 7.7 Agents when shrinkage is taken into account.

2018 - Inbound & Outbound Calls (per ECaTS)

Hours	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Avg.
12a	450	417	441	448	502	573	610	526	544	570	378	450	492.42
1a	263	220	240	240	299	268	353	333	355	245	235	315	280.50
2a	221	178	221	262	291	247	287	242	312	243	202	244	245.83
3a	201	147	210	177	200	141	222	215	239	222	212	236	201.83
4a	182	194	139	156	155	166	180	149	223	233	162	198	178.08
5a	159	142	185	115	149	152	180	186	285	137	159	179	169.00
6a	229	282	320	214	254	241	221	274	341	248	290	252	263.83
7a	476	370	453	297	444	413	421	403	457	392	348	381	404.58
8a	512	488	262	426	488	470	420	543	533	412	423	425	450.17
9a	559	600	519	520	504	575	591	636	642	500	511	514	555.92
10a	683	572	596	605	616	620	612	636	712	573	493	567	607.08
11a	683	672	545	632	633	674	692	713	814	656	552	633	658.25
12p	605	583	626	608	642	723	678	738	808	690	556	693	662.50
1p	695	555	629	704	706	787	725	768	818	691	685	745	709.00
2p	767	652	747	667	659	736	711	724	752	706	772	738	719.25
3p	715	604	819	642	751	723	729	938	756	747	685	698	733.92
4p	733	658	756	662	668	753	727	891	785	747	661	617	721.50
5p	738	659	658	619	676	706	768	705	790	692	641	633	690.42
6p	594	533	642	572	625	724	681	761	784	688	620	657	656.75
7p	583	532	596	549	561	650	640	667	746	697	561	575	613.08
8p	588	483	580	527	570	594	630	694	792	510	463	517	579.00
9p	465	429	463	490	453	550	578	608	662	588	482	602	530.83
10p	456	357	390	432	418	522	483	508	596	428	367	379	444.67
11p	320	300	396	307	355	439	501	419	444	464	286	355	382.17
Total	11877	10627	11433	10871	11619	12447	12640	13277	14190	12079	10744	11603	
Avg.	494.88	442.79	476.38	452.96	484.13	518.63	526.67	553.21	591.25	503.29	447.67	483.46	

Tab 8 e)

Estimated Three-Year

Forecast/Service Charge Rate

(Vote Required)

ESTIMATED 3-Year Projection NC 911 Fund __Service Charge \$0.65

FY2019-2020

Comments

Estimated Total Revenue Collection FY2020 \$95,288,871

CMRS Cost Recovery

CMRS Cost Recovery - Ending FY2019 Balance: \$7,558,951
 Balance transfer-out to Statewide/PSAP Grant EOY FY2019 -\$3,000,000
 Adjusted Ending Balance Total: \$4,558,951

CMRS Cost Recovery Revenue thru January 31 2020 \$4,101,372
 Revenues estimated for February-Jun 2020 \$1,094,535
 Total \$5,195,907

CMRS Cost Recovery Budgeted FY2020: \$4,000,000

Expenditures:
 Incurred Expenses July-January 2020 -\$1,169,599
 Remaining expense budget amount for FY2020 -\$2,830,401
 CMRS Cost Recovery Ending Balance FY2020 \$5,754,858

PSAP Distribution

PSAP-Ending FY2019 Balance: \$23,677,269
 Balance transfer-out to Statewide/PSAP Grant EOY FY2019 -\$23,677,269
 Adjusted Ending Balance FY2019 Total: \$0

PSAP Revenues received thru January 31 2020 \$42,448,260
 Revenues estimated for February-Jun 2020 \$22,830,328
 Total \$65,278,588

PSAP Distribution Budgeted FY2020: \$56,000,000

Expenditures:
 Incurred Expenses July-January 2020 -\$29,796,072
 Remaining budgeted amount for FY2020 -\$26,203,928

PSAP Ending Balance FY2020 \$9,278,588

Administrative

Administrative Ending FY2019 Balance: \$1,729,914

Admin Revenue Received thru January 31 2020 \$470,198
 Revenues estimated for February-Jun 2020 \$241,665
 Total \$711,864

Administrative Expenditures Budgeted FY2020: \$1,824,000

Expenditures:
 Admin Incurred Expenses July-January 2020 -\$541,493
 Remaining budgeted amount for FY2020 -\$1,282,507

**Administrative Estimated use of ending balance: -\$1,112,136
 Administrative Ending Balance FY2020 \$617,778

Grant	
Grant Statewide/PSAP Ending FY2019 Fund Balance:	\$23,038,415
Transfer-in PSAP Fund EOY FY2019	\$23,677,269
Transfer-in CRMS Fund EOY FY2019	\$3,000,000
Grant Statewide/PSAP Ending Balance	<u>\$49,715,684</u>

Transfers out from Grant_Statewide/PSAP to other line items:	
NG 911 EOY FY2019	-\$16,162,172
Sub-total	\$33,553,512
Grant_Statewide/PSAP Encumbered Amount	-\$27,346,651
Grant_Statewide/PSAP Adjusted Ending Balance	\$6,206,861

Legislative Change August 21,2020:	
Grant_Statewide/PSAP Revenues received thru Jan. 31 2020	\$1,331,485
Remaining Estimated Revenue Collection for FY2020	\$5,086,944
	<u>\$6,418,429</u>
Grant_Statewide/PSAP Estimated Ending Balance FY2020	\$12,625,289

Recurring Statewide Grants approximate cost 5.7- \$6.1M (ECaTs, Interpretive Services, Orthoimagery, CRM)

NG 911 Fund	
NG 911 - Ending FY2019 Fund Balance:	\$44,749,222
Fund balance transfer-in Grant Fund EOY FY2019	\$16,162,172
NG 911 Adjusted Balance:	<u>\$60,911,394</u>

NG 911 Revenues received thru January 31 2020	\$7,112,872
Revenues estimated for February-Jun 2020	\$10,571,212
Total	<u>\$17,684,084</u>

NG 911 Expenditures <u>Budgeted</u> FY2020:	\$20,714,129
---	---------------------

Expenditures:	
Incurred Expenses July-January 2020	-\$1,469,326
Remaining expense budget amount for FY2020	-\$19,244,803

ESINET Special Construction, NMAC, GIS, ATT MRC, (STATE 40% Match)

NG 911 Transfer-out State Match Federal Grant:	<u>-\$875,863</u>
NG 911 Estimated End-of-Year Balance	<u>\$57,005,486</u>

Federal Grant Award	
Estimated Drawdown for fiscal year 2020:	\$1,079,183
Expenditures:	
Federal Grant Diverse Routing	-\$106,684
Federal Grant GIS	-\$433,840
Federal Grant Cybersecurity	-\$538,659
NC 911 State Match 40%	-\$875,863

NG 911 Transfer-out State Match Federal Grant:	<u>\$875,863</u>
Ending Balance FY2020	<u><u>\$0</u></u>

FY2020-2021	
Estimated Total Revenue Collection FY2021	<u>\$96,241,760</u>

CMRS Cost Recovery	
CMRS Cost Recovery - FY2020 Balance Forward:	\$5,754,858
Balance transfer-out to Statewide/PSAP Grant EOY	<u>\$0</u>
Adjusted Ending Balance Total:	<u>\$5,754,858</u>

CMRS Cost Recovery Estimated Revenue FY2021	<u>\$938,357</u>
Subtotal	<u>\$6,693,215</u>

Expenditures:

CMRS Cost Recovery <u>Budgeted</u> FY2021:	<u>\$4,000,000</u>
CMRS Cost Recovery Estimated Ending Balance FY2021	<u>\$2,693,215</u>

PSAP Distribution	
PSAP-Ending FY2020 Balance:	\$9,278,588
Balance transfer-out to Statewide/PSAP Grant EOY	<u>\$0</u>
Adjusted Ending Balance Total:	<u>\$9,278,588</u>

PSAP Estimated Revenue FY2021	<u>\$45,979,501</u>
Subtotal	<u>\$55,258,089</u>

Expenditures:

PSAP Monthly Distribution <u>Budgeted</u> FY2021:	<u>\$50,890,287</u>
PSAP Funding Reconsideration <u>Budgeted</u> FY2021:	<u>\$3,109,713</u>
PSAP Estimated Ending Balance FY2021	<u>\$1,258,089</u>

Administrative	
Administrative Ending FY2020 Balance:	\$617,778
Admin Estimated Revenue 2.5% FY2021	<u>\$1,203,022</u>
Total	<u>\$1,820,800</u>

Expenditures:

Administrative Expenditures <u>Budgeted</u> FY2021:	<u>\$1,674,251</u>
Administrative Estimated Ending Balance FY2021	<u>\$146,549</u>

Grant	
Grant Statewide/PSAP Balance Carry forward FY2020:	\$12,625,289
Transfer-in PSAP Fund EOY	\$0
Transfer-in CRMS Fund EOY	<u>\$0</u>
Grant Statewide/PSAP Ending Balance	<u>\$12,625,289</u>

FY2021-2022	
Estimated Total Revenue Collection FY2022	<u>\$96,241,760</u>

CMRS Cost Recovery	
CMRS Cost Recovery - Ending FY2021 Balance:	\$2,693,215
Balance transfer-out to Statewide/PSAP Grant EOY	<u>\$0</u>
Adjusted Ending Balance Total:	<u>\$2,693,215</u>

CMRS Cost Recovery Estimated Revenue FY2022	<u>\$1,568,356</u>
Subtotal	<u>\$4,261,571</u>

Expenditures:

CMRS Cost Recovery <u>Budgeted</u> FY2022:	<u>\$4,000,000</u>
CMRS Cost Recovery Estimated Ending Balance FY2022	<u>\$261,571</u>

PSAP Distribution	
PSAP-Ending FY2021 Balance:	\$1,258,089
Balance transfer-out to Statewide/PSAP Grant EOY	<u>\$0</u>
Adjusted Ending Balance Total:	<u>\$1,258,089</u>

PSAP Estimated Revenue FY2022	<u>\$50,710,168</u>
Subtotal	<u>\$51,968,257</u>

Expenditures:

PSAP Monthly Distribution <u>Budgeted</u> FY2022:	<u>\$43,890,287</u>
PSAP Funding Reconsideration <u>Budgeted</u> FY2022:	<u>\$3,109,713</u>
PSAP Estimated Ending Balance FY2022	<u>\$4,968,257</u>

Administrative	
Administrative Ending FY2021 Balance:	\$146,549
Admin 3% Estimated Revenues FY2022	<u>\$1,616,863</u>
Total	<u>\$1,763,411</u>

Expenditures:

Administrative Expenditures <u>Budgeted</u> FY2022:	<u>\$1,674,251</u>
Administrative Estimated Ending Balance FY2022	<u>\$89,160</u>

Grant	
Grant Statewide/PSAP Balance Carry forward FY2021:	\$14,961,553
Transfer-in PSAP Fund EOY	\$0
Transfer-in CRMS Fund EOY	<u>\$0</u>
Grant Statewide/PSAP Ending Balance	<u>\$14,961,553</u>

Grant_ Statewide/PSAP Awarded FY2021 Grants	<u>-\$12,100,000</u>
Grant_ Statewide/PSAP Adjusted Ending Balance	\$525,289
Grant_ Statewide/PSAP Estimated Revenues	<u>\$14,436,264</u>
Grant_ Statewide/PSAP Estimated FY2021 Ending Balance	<u><u>\$14,961,553</u></u>

Grant_ Statewide/PSAP Awarded FY2022 Grants	<u>-\$12,100,000</u>
Grant_ Statewide/PSAP Adjusted Ending Balance	\$2,861,553
Grant_ Statewide/PSAP Estimated Revenues	<u>\$10,586,594</u>
Grant_ Statewide/PSAP Estimated FY2022 Ending Balance	<u><u>\$13,448,147</u></u>

NG 911 Fund	
NG 911 - Ending FY2020 Fund Balance:	\$57,005,486
Fund balance transfer-in Grant Fund	<u>\$0</u>
Adjusted NG 911 - Ending Fund Balance:	<u><u>\$57,005,486</u></u>

NG 911 Fund	
NG 911 - Ending FY2021 Fund Balance:	\$55,632,572
Fund balance transfer-in Grant Fund	<u>\$0</u>
Adjusted NG 911 - Ending Fund Balance:	<u><u>\$55,632,572</u></u>

NG 911 Estimated Revenues FY2021 \$33,684,616

NG 911 Estimated Revenues FY2022 \$31,759,781

Expenditures:	
NG 911 Expenditures <u>Budgeted</u> FY2021:	\$34,181,667
NG 911 Transfer-out State Match Federal Grant:	<u>-\$875,863</u>
NG 911 Estimated FY2021 Ending Balance	<u><u>\$55,632,572</u></u>

Expenditures:	
NG 911 Expenditures <u>Budgeted</u> FY2022:	\$35,587,317
NG 911 Transfer-out State Match Federal Grant:	<u>-\$875,863</u>
NG 911 Estimated FY2022 Ending Balance	<u><u>\$50,929,173</u></u>

Federal Grant Award	
Estimated Drawdown for fiscal year 2021	\$1,471,260
Expenditures:	
Federal Grant Diverse Routing	-\$137,241
Federal Grant GIS	-\$433,840
Federal Grant Cybersecurity	-\$900,179
NC 911 State Match 40%	-\$875,863
NG 911 Transfer-out State Match Federal Grant:	<u>\$875,863</u>
Ending Balance FY2021	<u><u>\$0</u></u>

Federal Grant Award	
Estimated Drawdown for fiscal year 2022	\$1,390,940
Expenditures:	
Federal Grant Diverse Routing	-\$137,241
Federal Grant GIS	-\$190,890
Federal Grant Cybersecurity	-\$1,062,809
NC 911 State Match 40%	-\$875,863
NG 911 Transfer-out State Match Federal Grant:	<u>\$875,863</u>
Ending Balance FY2022	<u><u>\$0</u></u>

FY2022-2023	
Estimated Total Revenue Collection FY2023	\$96,241,760

CMRS Cost Recovery	
CMRS Cost Recovery - Ending FY2022 Balance:	\$261,571
Balance transfer-out to Statewide/PSAP Grant EOY	\$0
Adjusted Ending Balance Total:	<u>\$261,571</u>

CMRS Cost Recovery Estimated Revenue FY2023	<u>\$4,597,228</u>
Subtotal	<u>\$4,858,799</u>

Expenditures:

CMRS Cost Recovery <u>Budgeted</u> FY2023:	\$4,000,000
CMRS Cost Recovery Estimated Ending Balance FY2023	<u>\$858,799</u>

PSAP Distribution	
PSAP-Ending FY2022 Balance:	\$4,968,257
Balance transfer-out to Statewide/PSAP Grant EOY FY2019	
Adjusted Ending Balance FY2019 Total:	<u>\$4,968,257</u>

PSAP Estimated Revenue FY2023	<u>\$46,483,086</u>
Subtotal	<u>\$51,451,343</u>

Expenditures:

PSAP Monthly Distribution <u>Budgeted</u> FY2023:	\$43,890,287
PSAP Funding Reconsideration <u>Budgeted</u> FY2023:	\$3,109,713
PSAP Estimated Ending Balance FY2023	<u>\$4,451,343</u>

Administrative	
Administrative Ending FY2022 Balance:	\$89,160
Admin 3.5% Estimated Revenues FY2023	<u>\$1,852,654</u>
Total	<u>\$1,941,814</u>

Expenditures:

Administrative Expenditures <u>Budgeted</u> FY2023:	\$1,674,251
Administrative Estimated Ending Balance FY2023	<u>\$267,563</u>

Grant	
Grant Statewide/PSAP Balance Carry forward FY2022:	\$13,448,147
Transfer-in PSAP Fund EOY	\$0
Transfer-in CRMS Fund EOY	\$0
Grant Statewide/PSAP Ending Balance	<u>\$13,448,147</u>

Grant_ Statewide/PSAP Awarded FY2023 Grants	<u>-\$12,100,000</u>
Grant_ Statewide/PSAP Adjusted Ending Balance	\$1,348,147
Grant_ Statewide/PSAP Estimated Revenues	<u>\$11,549,011</u>
Grant_ Statewide/PSAP Estimated FY2023 Ending Balance	<u><u>\$12,897,158</u></u>

NG 911 Fund	
NG 911 - Ending FY2022 Fund Balance:	\$50,929,173
Fund balance transfer-in Grant Fund	<u>\$0</u>
Adjusted NG 911 - Ending Fund Balance:	<u>\$50,929,173</u>

NG 911 Estimated Revenues FY2023 \$31,759,781

Expenditures:
 NG 911 Expenditures Budgeted FY2023: **\$34,976,378**

NG 911 Estimated FY023 Ending Balance \$47,712,576

Comments

Tab 8 f)

Funding Model Talking Points

Pokey Harris



NC 911 Board Funding Model Discussion Points

- I. Developing a funding model that takes into consideration the implementation of NextGen 911 technology.
 - a. PSAP Funding Model Update proposed effective date July 2021
 - b. Ample notification to PSAP and finance department.

- II. Funding distributions following ESInet migration will change based on shifting certain costs from legacy to NG 911 per Board decision in April 2019. Those costs include:
 - a. Selective Routing, Additional Trunks (backup), Wireless Phase II Routing, ANI per 1000, and DBMS per 1000.
 - b. Example PSAP funding distribution change

EXPENDITURES	FY2015	FY2016	FY2017	FY2018	FY2019	FY2015- Estimated		Vendor	CPE Equipment	CPE Maint. YTD	In-house Maint. YTD	Deduction of CPE & In-house Maint. From New ATT		Estimated FY2021 Distribution	Changes in Distribution Amount
						5 YR Total	Yearly Distribution					5-YR Expenditure	Charges Adjusted 5-YR total		
PSAP County Emergency Comm.	229,664	212,430	267,366	342,712	242,180	1,294,352	258,870	ATT							
Legacy Phone Charges	28,008	25,044	27,324	28,457	8,458			Lease	284,015	44,736	2,749				
Total Expenditures	201,656	187,386	240,042	314,255	233,722	1,177,061	235,412					845,561	13,582	872,725	174,545 84,325

- III. Facilitate discussion about inaccurate information provided to PSAP managers from account representatives.

- IV. Integrating knowledge from PSAP technology and operational plans for budgeting and planning purposes.
 - a. PSAP Assistance Team (PAT) role in PSAP planning:
 - Current Planning
 - Future purchases
 - Growth
 - Changes and enhancements in Technology
 - Expenditure Considerations (alignment with general statute)

- V. Engage Leadership – APCO, NENA, and other key stakeholder leadership

- VI. Influence of reconsiderations on overall PSAP funding.

- VII. Refine definitions of implemental functions.

- VIII. Backup capabilities in a NG environment that align with the 911 Board goals.

Tab 8 g)

General Committee Report

Tab 9

Finance Team Report

Marsha Tapler/Kristen Falco

Tab 9 a)

PSAP Reporting Status

FY2018 Reports

Total Received: 125

Completed: 37

Clarification - In Process: 68

Awaiting Review: 0

Review Complete - Awaiting Revised Signed Report: 20

Received - No Documentation for Review: 0

Not Received: 0

FY2019 Reports

Total Received: 127

Completed: 9

Clarification - In Process: 33

Awaiting Review: 75

Review Complete - Awaiting Revised Signed Report: 10

Received - No Documentation for Review: 1

Not Received: 0

Tab 9 b)

General Committee Report

Tab 10

Grant Committee Report

Jeff Shipp/Pokey Harris

Tab 10 a)

2021 PSAP Grant Workshop

March 24, 2020

Tab 10 b)

General Committee Report

TENTATIVE 2021 Grant Cycle Calendar TENTATIVE 2019.10.19				
Milestone	Date	Day of Week	Days to Next Date	
Grant Workshop for PSAPs	3/24/20	Tuesday	8	Meeting Date for Grant Committee, Staff, and Potential Applicants
Beginning of Grant Cycle - Application Posted to Website	4/1/20	Wednesday	61	
Grant Applications Due	6/1/20	Monday	42	
Grant Committee Discussion	7/13/20	Wednesday	4	Meeting Date for Grant Committee and Staff
Grant Applications Presentation Day	7/17/20	Friday	14	Meeting Date for Grant Committee, Staff, and Applicants
Grant Committee Meeting - Review and Vote	7/31/20	Friday	14	Meeting Date or Conference Call for Grant Committee and Staff
Grant Committee Results to Board for Review prior to Board Meeting	8/14/20	Friday	14	
Board Meeting - Vote on Grant Applications	8/28/20	Friday	34	Meeting Date for Board
Results Notification and Grant Agreement to Applicants	10/1/20	Thursday	32	
Grant Acceptance Acknowledgement Due from PSAP	11/2/20	Monday	60	
Final Date for all PSAP Agreements to be Executed (Per Individual Agreement Date Based on Return of Acknowledgement)	1/1/2021	Friday		
Key Timeframes	Calendar Days			
Days from Workshop to Applications Due	69			
Days from Beginning of Grant Cycle to Applications Due	61			
Days from Applications Due to Presentation Day (Grant Comm/Staff Prep Time)	46			
Days from Presentation Day to Grant Committee Meeting	14			
Days from Grant Committee Meeting to Results to Board	14			
Days for Board to Pre-Review Results prior to Vote	14			
Days to Prepare Notification Letters and Grant Agreements to PSAPs	34			
Days to Receive Acceptance Letters from PSAPs	32			
Days for PSAPs to Execute Grant Agreement	92			

Allocate ~30 minutes per applicant, 10 minutes for presentation and 20 minutes for questions

Tab 11

Standards Committee Report

Donna Wright/Tina Gardner

Tab 12

Technology Committee Report

Jeff Shipp/Gerry Means

Tab 13

911 Regional Coordinator

Reports

Conner/Gardner/Newberry/

Turbeville

Tab 14

911 Goes to Washington

Donna Wright/Jeff Shipp



Tab 15

Election 911 Board Vice Chair

Pokey Harris

Tab 16

Telecommunicator Recognitions

Eric Boyette/Pokey Harris/

Regional Coordinators

- Ashe County 911**
- High Point 911**
- Morresville PD**



PSAP Recognition

Ashe County Sheriff's Office Communications

Active Shooter 1/15/2020

On Wednesday January 15th at around 6pm, a call came into Ashe County Communications. 911 Dispatcher Jenni Bryant spoke to a female concerned about the welfare of her father. During their conversation, dispatcher Bryant was able to ascertain that the caller's father had texted disturbing messages stating he was sorry, he loved her very much and to let the rest of the family know this also. He also gave the combination to his safe and other information. the caller indicated she tried to call her father, but he would not answer. the caller gave her father's location as a camper located behind the office where he currently worked at 6534 US Highway 221 south in the Fleetwood Community. when asked, the caller could not advise if her father had any weapons, but she was able to provide his cell phone number. Dispatcher Bryant then advised the caller that she would send an officer to check on her father and either she or the officer would call her back to let her know what they found.

Dispatcher Bryant immediately dispatched a sheriff's deputy to the call. Sheriff's Deputy Curtis Elliott (unit-127) checked enroute to the location. as fate would have it, Deputy Elliott had just checked on duty and had an extended ETA due to his distance from the call.

At approximately 6:20 pm, Dispatcher Bryant answered a 911 call. The male caller making the 911 call was very direct in his statements and threats. The caller refused to answer any of Dispatcher Bryant's questions and was very belligerent. He cursed Dispatcher Bryant throughout the call communicating threats towards her and responding officers. He stated he was in charge and was not afraid to die. He advised Dispatcher Bryant to tell officers to go home to their family's and tell their wives and kids they loved them before they came out to his house because he was going to kill them all. He told Dispatcher Bryant this would be "suicide by cop" and that he had more weapons than we did. During the call, Dispatcher Bryant noticed the caller ID of her caller to be a match to the father in the welfare check she had just taken. She immediately turned to another dispatcher and told them to stop responding Deputy Curtis Elliott before he got on scene.

While Dispatcher Bryant was on the 911 call, 911 Dispatcher Sgt. Janna Suttle contacted Deputy Elliott via radio and advised him of the current 911 call in progress with the person of interest in the welfare check. At that time, Deputy Elliott had just arrived at the scene and had pulled over in a parking lot across the road from the address. He remained there per the instructions of dispatchers until backup arrived.

After backup arrived, officers were quickly “pinned down” by gunfire from the suspect as he had promised. At this point, things heated up on scene and in the 911 center. Dispatcher Bryant and Dispatcher Suttle handled an extremely large amount of radio and phone traffic while contacting additional deputies, local police departments, EMS and fire departments for assistance. They maintained control and executed any and all requests that arrived from this situation in a very efficient manner.

It wasn't until 7pm that additional 911 dispatchers arrived to assist. The incident lasted until around 2:30 am before the subject was taken down. During this time, off duty 911 dispatchers came in to assist and relieve each other as needed. These included: Earnie Eldreth, Keshea Roland, Sgt. Josh Steelman, Curtis Barker and Josh Carter. The following day, off duty dispatchers Renee Ashley and Chris Dollar came in on their day off to cover shifts so others could rest. it was an excellent show of teamwork and dedication by everyone involved.

During the entire event, Dispatcher Bryant stayed in her chair and never moved or faltered. She spoke with the suspect multiple times and dealt with him each time in a polite and professional manner while he proceeded to curse and threaten her and the officers. Dispatcher Suttle played a very large support role in assisting Dispatcher Bryant on this call by handling large amounts of radio traffic and additional incoming calls. Dispatcher Suttle along with 3 other dispatchers also became actively involved in communications with the suspect throughout the night. In the end, there were around 82 officers involved including Wilkes County Bomb Squad, Watauga County Swat Team, Alleghany County armored support, NC State Highway Patrol plus 3 fire departments, Ashe County Rescue Squad, Ashe Medics Tactical EMS team and Ashe County Emergency Management.

It is widely believed by everyone in our agency that Dispatcher Jenni Bryant could have very well played a role in saving the life of Deputy Elliott that day because of her attention to details and quick thinking. A fast response by her and Dispatcher Suttle prevented Deputy Elliott from walking up to that camper alone and unprepared for the deadly threat that was waiting on the other side of the door. By the grace of god plus the dedication and training of the responding officers, as well as the diligent efforts of Dispatcher Bryant and Dispatcher Suttle, all responders went home without injury that day.

PSAP Recognition:

Jenni Bryant, Dispatcher

Sgt. Janna Suttle, 911 Dispatcher

Ashe County Sheriff's Office Communications



PSAP Recognitions

High Point 911

Homicide and Officer Shooting – 05/16/2018

On 05/16/2018 High Point 911 received several different calls at the same time regarding a disturbed male outside of a residence covered in blood acting suspiciously stating he had just killed his father at 207 Dorothy Street High Point. The subject's sister was the first caller reported her intoxicated brother was outside of her house and had possibly driven up using the father's vehicle and was making verbal statements he was going to kill himself. During the call with the sister the intoxicated male left stating he was possibly going to 1506 Overbrook Ct to kill his grandfather as well since they didn't get along. Officers were dispatched to both locations to check the status of reported parties.

Upon arrival at 207 Dorothy St officers found one deceased male who was identified as the Father of the male who by this time was present at 1506 Overbrook Ct and was ringing the doorbell. Grandfather does identify himself as a former law enforcement officer and states he is armed. The intent to use deadly force by the caller to protect himself and his wife who are both trapped inside of the house is clear and Portia addresses this matter within the High Point 911 guidelines and referral to previous training of the caller.

While officers were arriving on scene shots were heard and the Grandfather who was on the phone with Portia reported shots fired outside. At this time officers on the scene reported they were under fire from a subject on the roof with one officer having taken a gunshot to the vest on the side. Officers returned fire and suspect was hit. Suspect taken to hospital. Officers were checked and then transported to the hospital for evaluation as well.

PSAP Recognition:

Portia Clowdis, Telecommunicator



PSAP Recognition

Mooresville Police Department

Officer Down – May 4, 2019

(Letter of Recognition from PSAP Manager)

December 31, 2019

(Ms.) L.V. Pokey Harris, MPA, ENP

Executive Director

North Carolina 911 Board

NC Department of Information Technology

pokey.harris@nc.gov

Re: Telecommunicator Recognition

Dear Pokey,

I would like to recognize Kimberly Sterling and Tiffany Rivera for their exemplary service in their performance of duty during an officer-involved shooting that occurred on May 4, 2019.

On May 4, 2019, Officer Jordan Sheldon, with the Mooresville Police Department, was killed in the line of duty while on a traffic stop.

To say that Kim and Tiffany were the “Calm in the Chaos” is an understatement as to what these two women went through when they heard the words nobody ever wants to hear “Officer Down, Officer Down”. Both Kim and Tiffany persevered in keeping things running smoothly, making notifications, calling multiple agencies for assistance, getting EMS to the scene, all the while not knowing if their friend, Co-worker and Family member was injured or worse.

The not knowing did not stop them from performing their job duties to the fullest. They continued answering multiple calls from staff and citizens wanting to know what happened or if he was ok. They continued answering routine calls because the public didn't know they we had our own emergency in progress, and they continued answering 911 calls because emergencies do not stop. They persevered and performed their duties as they would have on any given day however this was not any given day. This was the day that every telecommunicator fears and hopes to never be a part of. This was the day they lost not only a friend, but a member of their family. They worked this incident and then stayed even after their relief came in, so they could comfort their other family members, their "Guys" before dealing with their own grief.

I have many hero's in my life, but I have added two more to that list. Kim and Tiffany showed us the true meaning of strength, compassion and dedication and for that they should be recognized. Their hurt didn't begin until they were off the console. They had a job to do and they did it, they were the true "Calm in the Chaos".

I appreciate you taking the time to read my letter. Ordinarily, I would send a 911 Recording with this recognition but due to the sensitivity of this event, I am hesitant. This incident is still very fresh for us, I hope you understand. I just believe that these two women should be commended for a job well done.

Sincerely,

Susan M. Davis

Communications Manager

PSAP Recognition:

Kimberly Sterling, Telecommunicator

Tiffany Rivera, Telecommunicator

Tab 17

Other

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.****

