

## PSAP Grant Program Grant Ranker

# View Application--28--Brunswick Radio Consoles

**Grant Period:** 2010

**Tier:** Replacement of technically outdated wireless E-911 equipment or service to enable primary PSAP to maintain current service levels to the general public (**TECHNICALLY OUTDATED**)

**Grant Program:** Enhancement **Grant Type:** Individual PSAP

**Priority:** Radio consoles (**CONSOLES**)

**Primary PSAP Applicants:** Brunswick County

**Jurisdictions Served:** Alberta, Town of  
Brodnax, Town of  
Brunswick, County of  
Lawrenceville, Town of

### Project Director:

Trina Cox  
Chief of Communications  
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### Project Description:

**Total Project Cost** \$141,600.00

**Amount Requested:** \$113,280.00

### Statement of Need:

The Brunswick County E-911 Communications Center is committed to providing the citizens of Brunswick County with the highest level of service. One of the components for maintaining this level of service is through dispatching emergency calls for service to officers and responders in the field, by use of radio consoles. The radio consoles that we currently utilize are Zetron model 4010. These units were installed seven (7) years ago and with today's standards are technically outdated and should be upgraded in order to maintain the current service level to the citizens of Brunswick County. Over the last several years, operability has declined at a rapid rate. Service issues include continuous time spans of static, severe squealing or squelching during transmissions, involuntary keying up of microphones, non-functioning wireless counterparts and repeated unsuccessful transmissions, among many others. Repeated repair on the radio consoles has caused downtime for workstations and required Communications Officers to function without their most direct line of communication with field units and responders, in which case causes their safety to become compromised. The loss of an operational radio console in our two person Center directly affects call processing time, data entry, and causes a breakdown in communication with units on all levels. We received a 'Radio System Analysis' which was prepared by Paul Hoppes, Communications Engineer, Manager for the Virginia Information Technologies Agency (VITA) on October 6, 2008. Mr. Hoppes visited our Communications Center and assessed that in terms of Interoperability, our radio consoles were in need of replacement. His analysis states, "These consoles need to be upgraded for operability and

interoperability. There is no way to achieve interoperability without replacing them." Mecklenburg E-911 Center serves as the back up for our department should our 911-system fail. However, the diversion of these calls to Mecklenburg does not allow Mecklenburg to dispatch any of our calls for service to our units, because of our lack of interoperability through the use of our current radio consoles. This causes a serious delay in response time of responders to citizens in need of help. In order to achieve sustainability, the Center must remain abreast of changes within the 911 arena which includes, but is not limited to: replacing outdated equipment, enhancement of services, training personnel and implementing new programs to make service delivery more effective.

### **Comprehensive Project Description:**

The purpose of this project is to replace technically outdated radio consoles in the Communications Center with an enhanced, modern radio system. We seek to replace three (3) Zetron 4010 consoles, two of which are a part of fully operational workstations. The third console functions in a workstation that serves as backup to the other two and is utilized for training. We have received a quote for Motorola 5500 series radio consoles. Accomplishing this goal will help us to achieve interoperability, which is essential in times of natural or man-made disasters. If grant funding is awarded August 2009, the tentative timeline will be as follows: Activity Date Grant Funding Award August 2009 Contract Award and Administration September 2009 Contract Design Review and Approval October 1-15, 2009 Perform Staging Acceptance Test Procedure October 16-31 2009 Console Installation January 2010 Training Classes Completed January 2010 Perform Functional Testing and Evaluation January-March 2010

### **How will the equipment purchased will support future technologies for PSAP readiness?:**

New technologies will be compatible with products requested in the Radio Console Upgrade Project. The new radio consoles will come with more technologically advanced specifications and will prepare our Center to implement emerging technology. Another movement toward the continuation and enhancement of services is the continuity of training for the Communications Staff members. All full-time and part-time staff members participate in training throughout the year to keep their skills current and to allow them to bring new ideas back to the organization.

### **Budget and Budget Narrative:**

Please review the attached budget and narrative titled Brunsick Budget 2010.

### **Evaluation:**

The MCC 5500 Dispatch Console not only automates the monitoring and testing of system components, it can also generate statistical reports and complete Log Dispatcher Operations, which will assist in the evaluation process. After installation of the equipment, there will be measures to test the stability and performance of the equipment under realistic conditions. We will monitor the effectiveness of the new radio console and our response times to calls for service.

### **Attachments**

<a href="#">BrunswickBudget2010.xls</a>

## Brunswick County Sheriff's Office

PSAP Grant Program Budget

2010

Quantity	Item
	CES Shelf 1
1	CONSOLE ELECTRONIC SHELF (CES) II
1	ENH: (2) YR EXT SVC PL A/ADV RPLCMT PER OPERATOR POSTION
1	MCC SERIES I/O SHELF W/ CONTROLLER & CABLE
1	DAP II FOR ANALOG,SB9600,ASTRO INTERFACES,INCL 2 ANALOG LICENSES
1	T3 CABLE 2 FEET
	CES Shelf 2
1	CONSOLE ELECTRONIC SHELF (CES) II
1	ENH: (2) YR EXT SVC PL A/ADV RPLCMT PER OPERATOR POSTION
1	DAP II FOR ANALOG,SB9600,ASTRO INTERFACES,INCL 2 ANALOG LICENSES
1	T3 CABLE 2 FEET
	CES Shelf 3
1	CONSOLE ELECTRONIC SHELF (CES) II
1	ENH: (2) YR EXT SVC PL A/ADV RPLCMT PER OPERATOR POSTION
1	DAP II FOR ANALOG,SB9600,ASTRO INTERFACES,INCL 2 ANALOG LICENSES
1	T3 CABLE 5 FEET
	CAB 1
1	MCC 5500 OPERATOR POSITION (CAB) II
1	ADD: 50' CES/CAB CABLE
2	MCC SERIES HEADSET JACK
1	MCC SERIES DESKTOP GOOSENECK MICROPHONE
1	FOOT, SWITCH TRADITIONAL
2	MCC SERIES DESKTOP SPEAKER
2	PROTECTION MODULE FOR MCC 5500/5700 OPERATOR HEADSET INTERFACE
1	CES/CAB CABLE 50 FOOT
	CAB 2
1	MCC 5500 OPERATOR POSITION (CAB) II
1	ADD: 50' CES/CAB CABLE
2	MCC SERIES HEADSET JACK
1	MCC SERIES DESKTOP GOOSENECK MICROPHONE
1	FOOT, SWITCH TRADITIONAL
2	MCC SERIES DESKTOP SPEAKER
2	PROTECTION MODULE FOR MCC 5500/5700 OPERATOR HEADSET INTERFACE
1	CES/CAB CABLE 50 FOOT
	CAB 3
1	MCC 5500 OPERATOR POSITION (CAB) II
1	ADD: 50' CES/CAB CABLE
2	MCC SERIES HEADSET JACK
1	MCC SERIES DESKTOP GOOSENECK MICROPHONE
1	FOOT, SWITCH TRADITIONAL
2	MCC SERIES DESKTOP SPEAKER



Unit Price	Total Price
\$ 9,500.00	\$ 9,500.00
\$ 900.00	\$ 900.00
\$ 1,100.00	\$ 1,100.00
\$ 2,300.00	\$ 2,300.00
\$ 180.00	\$ 180.00
\$ 9,500.00	\$ 9,500.00
\$ 900.00	\$ 900.00
\$ 2,300.00	\$ 2,300.00
\$ 180.00	\$ 180.00
\$ 9,500.00	\$ 9,500.00
\$ 900.00	\$ 900.00
\$ 2,300.00	\$ 2,300.00
\$ 200.00	\$ 200.00
\$ 8,350.00	\$ 8,350.00
\$ 150.00	\$ 150.00
\$ 200.00	\$ 400.00
\$ 250.00	\$ 250.00
\$ 106.00	\$ 106.00
\$ 450.00	\$ 900.00
\$ 220.00	\$ 440.00
\$ 175.00	\$ 175.00
\$ 8,350.00	\$ 8,350.00
\$ 150.00	\$ 150.00
\$ 200.00	\$ 400.00
\$ 250.00	\$ 250.00
\$ 106.00	\$ 106.00
\$ 450.00	\$ 900.00
\$ 220.00	\$ 440.00
\$ 175.00	\$ 175.00
\$ 8,350.00	\$ 8,350.00
\$ 150.00	\$ 150.00
\$ 200.00	\$ 400.00
\$ 250.00	\$ 250.00
\$ 106.00	\$ 106.00
\$ 450.00	\$ 900.00

\$ 220.00	\$ 440.00
\$ 175.00	\$ 175.00
\$ 680.00	\$ 680.00
\$ 50.00	\$ 50.00
\$ 350.00	\$ 350.00
\$ 7,500.00	\$ 7,500.00
\$ 520.00	\$ 520.00
\$ 2,300.00	\$ 2,300.00
\$ 72.25	\$ 72.25
\$ 200.00	\$ 200.00
\$ 100.00	\$ 100.00
\$ 2,550.00	\$ 7,650.00
\$ 189.00	\$ 567.00
\$ 4,500.00	\$ 4,500.00
\$ 2,000.00	\$ 2,000.00
\$ 90.00	\$ 90.00
\$ 40.00	\$ 120.00
\$ 242.00	\$ 726.00
\$ 85.00	\$ 255.00
\$ 2,553.00	\$ 7,659.00
\$ 2,250.00	\$ 2,250.00
\$ 70.00	\$ 70.00
\$ 1,520.00	\$ 6,080.00
\$ 128.00	\$ 128.00
\$ 59.00	\$ 118.00
	116058.25
Install	25,500.00
Total	141558.25