

**AGENDA**  
**SOUTHERN NEVADA AREA COMMUNICATIONS COUNCIL**  
**BOARD OF DIRECTORS**  
**REGULAR MEETING**

**10:00 A.M. – APRIL 18, 2018**  
**Mead 3 Conference Room – Las Vegas Valley Water District**  
**1001 S. Valley View Blvd, Las Vegas, NV 89107**  
**702-455-7390**

**ALL ITEMS LISTED ON THIS AGENDA ARE FOR ACTION BY THE BOARD OF DIRECTORS, UNLESS OTHERWISE INDICATED. ITEMS MAY BE TAKEN OUT OF ORDER. THE BOARD OF DIRECTORS MAY COMBINE TWO OR MORE AGENDA ITEMS FOR CONSIDERATION, AND/OR MAY REMOVE AN ITEM FROM THE AGENDA OR DELAY DISCUSSIONS RELATING TO AN ITEM ON THE AGENDA AT ANY TIME. COPIES OF WRITTEN MATERIALS PROVIDED TO THE BOARD MEMBERS IN ADVANCE OR AT THE MEETING MAY BE OBTAINED FROM DAVE GOSS, SNACC OFFICE, 6000 EAST ROCHELLE AVE, LAS VEGAS, NV OR BY CALLING (702) 455-7390.**

**COMMENTS BY THE GENERAL PUBLIC**

**NO ACTION MAY BE TAKEN:** At this time, the Board of Directors will hear general comments from the public on matters under the jurisdiction of the Southern Nevada Area Communications Council.

**ITEM NO.**

1. FOR POSSIBLE ACTION: Approve the April agenda with the inclusion of tabled and/or reconsidered items, emergency items, and/or deletion of items, and approve the minutes of the February 21, 2018 meeting.
2. FOR DISCUSSION: Receive the Administrator's Report with the inclusion of the Strategic Plan Updates and SNACC Monthly Budget Report for the month of February 2018 and March 2018.
3. FOR DISCUSSION: Discuss the need to upgrade voice recorders to version 7.17 to maintain compatibility within the SNACC system.
4. FOR POSSIBLE ACTION: Approve Motorola change order #5- Adjustments to SUAI and Maintenance agreements.
5. FOR DISCUSSION/ACTION: Adding the Motorola Outdoor Location Services (GPS) and Enhanced Data to the SNACC system.

**COMMENTS BY THE GENERAL PUBLIC**

**NO ACTION MAY BE TAKEN:** At this time, the Board of Directors will hear general comments from the public on matters under the jurisdiction of the Southern Nevada Area Communications Council.

**NEXT MEETING DATE/ADJOURN**

**LOCATIONS OF POSTING**

This is a public meeting. In conformance with the Nevada Open Meeting Law, this agenda has been posted in the following locations:

Clark County Government Center – 500 S. Grand Central Parkway, Las Vegas, NV 89155  
Clark County Water Reclamation District - 5857 E Flamingo Rd, Las Vegas, NV 89122  
Clark County Courthouse - 200 Lewis Ave, Las Vegas, NV 89101  
Las Vegas Valley Water District - 1001 S. Valley View Boulevard, Las Vegas, NV 89107  
<http://snacconline.com> & <https://notice.nv.gov>

**Chair:** Dane Mattoon **Vice Chair:** Jeff Buchanan

**Board Members:** Sarah McCrear, Scott Mazick, Bill Baltas, Chris Vasquez, Frank Milligan, Brian Nebeker & Kevin Nicholson

**AGENDA**  
**SOUTHERN NEVADA AREA COMMUNICATIONS COUNCIL**  
**BOARD OF DIRECTORS**  
**REGULAR MEETING**

**PLEASE POST**

**Chair: Dane Mattoon Vice Chair: Jeff Buchanan**

**Board Members: Sarah McCrea, Scott Mazick, Bill Baltas, Chris Vasquez, Frank Milligan, Brian Nebeker & Kevin Nicholson**

# Southern Nevada Area Communications Council Agenda Item

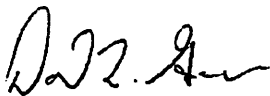
|   |                             |
|---|-----------------------------|
| <b>Issue:</b> Approve the April agenda with the inclusion of tabled and/or reconsidered items, emergency items and/or deletion of items, and approve the minutes of the February 21, 2018 meeting.  | <b>Date:</b> April 18, 2018 |
| <b>Petitioner:</b> David L. Goss, SNACC Administrator   | <b>Agenda Item:</b> 1       |
| <b>Recommendation - FOR POSSIBLE ACTION:</b><br>That the Board approve the April agenda with the inclusion of tabled and/or reconsidered items, emergency items and/or deletion of items, and approve the minutes of the February 21, 2018 meeting and/or take action as necessary. |                             |

**Fiscal Impact:** None

**Background:**

The Southern Nevada Area Communications Council operates an 800 megahertz (MHz) Public Safety radio communications system in the Clark County/Las Vegas urban area. This will be a reoccurring item.

**Respectfully Submitted:**



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**DAVID L. GOSS**  
SNACC Administrator



# Southern Nevada Area Communications Council

## MEETING MINUTES

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Date: February 21, 2018

Location: Las Vegas Valley Water District  
Mead 3 Conference Room  
1001 S. Valley Boulevard  
Las Vegas, NV 89107

Time: 10:00 A.M.

Board members present:

|                           |               |
|---------------------------|---------------|
| Jeff Buchanan, Vice Chair | Sarah McCrea  |
| Chris Vasquez             | James Morwood |
| Scott Mazick              | Bill Baltas   |

### Call to Order

### Public Comment:

Unless otherwise stated, items may be taken out of the order presented on the agenda, and two or more items may be combined for consideration. The Board may also remove an item from the agenda or delay discussion relating to an item at any time

1. Approve the February agenda with the inclusion of tabled and/or reconsidered items, emergency items, and/or deletion of items, and approve the minutes of the December 2017 meeting. (**FOR POSSIBLE ACTION**):
  - A motion was made to approve; motion passed unanimously.
2. Receive the Administrator's Report with the inclusion of the status on the P25 migration upgrade and SNACC Budget Report for the month of December 2017 and January 2018. (**FOR DISCUSSION**):

SNACC Administrator's Report  
February 21, 2018

**Administrative Items:**

**Hoover Dam-** National Park Service is looking into the possibility of installing a site, further discussion to be had with them.

**New Year's Eve event-** All went well with no issues.

**Boulder City Water Tank Site-** Worked with Las Vegas Metropolitan Police Department and Boulder City Fire Department on allowing them to put a site on the Water tank. They have agreed to do the tower work that was originally going to be given to a third party by Motorola when we move our site.

**AES Encryption-** Meetings are being held on a continuing basis with entities requiring encryption.

**Programming-** Programming has been on-going for both adding encryption and removing the old analog information. SNACC has programmed units for Las Vegas Marshals, Henderson PD, Las Vegas Detention Center, and the ambulance companies, over the last several weeks.

**Training-** All SNACC employees attended various training offered by the City of Henderson.

**System Items:**

Only system issues of note are AC failures at the Boulder City Water Tank Site. This caused no down time of the site. A listing of all minor non-system affecting instances is on the SNACC website.

**Strategic Plan Updates:**

***Budget Variances for December 2017:***

1. Equipment maintenance to include Motorola contract 46.5% -**\$441,789.70**  
Payment for the Motorola SUAll Contract.
2. Operating Supplies 10.8% - **\$81.00** -
3. Vehicle Maintenance 6.3% - **\$1268.52** - PM of SNACC Vehicle
4. Telecommunications 7.2% - **\$522.42** - CenturyLink T1's, Cell phone, and landline phone bills
5. Print/Reproduction 7.4% - **\$118.40** - Toshiba printer repair

***Budget Variances for January 2018:***

1. Professional Services 23.4% - **\$300** -
2. Janitorial 15.4% -**\$420** - Paid 2 invoices in one, November and December's
3. Equipment Maintenance to include Motorola contract 30.6% - **\$291,290.91** -  
Payment for the Motorola Lease Agreement.
4. Operating Supplies 15.7% - **\$117.49** -

5. Office Supplies 6.3% - **\$95.25** – Ordered Paper, pens, page markers, business card holders, and binders
6. Vehicle Maintenance 6.4% - **\$1279.28** – PM on SNACC Vehicle
7. CC Agreement, ERP, IT Support, etc. 20.2% - **\$6203.18** – Clark County Contract

**Site Preventative Maintenance for February:**

Brooks

Apex

**Monthly Reports (Seconds)**

**December:**

1. Airtime – 3701.6
2. PTT's – 2,790,762
3. Busies - 6

**January:**

- 1 Airtime – 3823.6
- 2 PTT's – 2,887,254
- 3 Busies – 6

- Jeff Buchanan – Finds that having the variables over 5% helpful and transparent for the public to understand what SNACC is doing every month and appreciates the work that is being done.
- Chris Vasquez – Since Las Vegas Metropolitan Police Department has gone AES encryption. The focus has now been turned to SNACC. It would be good to, in the future, get AES encryption for the security that comes along with it.

**3. Discuss the need to upgrade voice recorders to version 7.17 to maintain compatibility within the SNACC system. (FOR DISCUSSION):**

- Henry John, Motorola Sales – three recorders have been in processed for Boulder City and is going through approvals. City of Las Vegas should be getting their approvals in March. Henderson has their requests submitted as well and everyone is pending approvals.
- Jeff Buchanan – Asked Sarah McCrea what the status is on the new recorders for FAO (Fire Alarm Office). Sarah McCrea – City Managers are reviewing.

**4. Provide an end date for allowing XTS/XTL Radios on SNACC system. (FOR DISCUSSION/ACTION):**

- Dave Goss – When do we want to say “No more XTS/XTL radios on the SNACC system?”
- Jeff Buchanan – Wants to give all of the SNACC users time to discuss this further.
- Bill Baltas – Asked for a list of all XTS/XTL series radios.
- A recommendation was made to keep this item on future agendas.

**5. Receive a report from the Nevada Public Safety Communications Committee from SNACC's representative member for a meeting held on February 15, 2018. (FOR DISCUSSION):**

- Dave Goss – There was a RFP (Request for Proposal) with the State on the type of system they were going to be on. If they join our system that would be great, if they don't that could cause some issues for us.
- Curtis Steadman – There should be a decision by February 22, 2018.

**6. Approve the purchase of Diagnostx DX-2002 Over-The-Air (OTA) Radio Analyzer. (FOR POSSIBLE ACTION):**

- Dave Goss recommends that this equipment would be beneficial to not only SNACC, but to the SNACC users as well.
- Jeff Buchanan – Is there other equipment like this one? He wants to make sure we are going through the proper process. No, per David Goss.
- A motion was made to approve the purchase of the DiagnostX; motion passed unanimously.

**COMMENTS BY THE GENERAL PUBLIC:**

Rory Neslund from Motorola Solutions – There is a group that will be meeting, Motorola Trunked Users Group, users from Southern Nevada will meet and have input and influence on current and future products. More information will be provided to SNACC as these meetings occur.

Henry Johnson from Motorola Solutions – Motorola is now partnering with AT&T when they were awarded for FirstNet. If anyone has any questions or would like my contact information, please call 702-617-1734.

**NEXT MEETING DATE/ADJOURN:**

Next SNACC meeting: April 18, 2018

Meeting adjourned: 10:28 A.M.

Respectfully submitted:

Dane Mattoon, Chairman  
Attachments

# Southern Nevada Area Communications Council Agenda Item

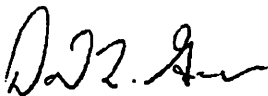
|  |                             |
|--|-----------------------------|
| <b>Issue:</b> Receive the Administrator's Report with the inclusion of the Strategic Plan Updates and SNACC Monthly Budget Report for the month of February and March 2018.  | <b>Date:</b> April 18, 2018 |
| <b>Petitioner:</b> David L. Goss, SNACC Administrator  | <b>Agenda Item:</b> 2       |
| <b>Recommendation - FOR DISCUSSION:</b><br>For the Board receive the Administrator's Report with the inclusion of the Strategic Plan Updates and SNACC Monthly Budget Report for the month of February and March 2018. |                             |

**Fiscal Impact:** None

**Background:**

The Board gave the request to the SNACC Administrator, in August 2015, to have the SNACC Budget presented in his Administrator's Report on a monthly basis. This was requested to inform the Board on the monthly SNACC expenses and to show what is currently available. The Administrator also includes any current system issues, deficiencies and/or updates. As of November 2017 a synopsis of the Strategic Plan reports are to be included as well.

**Respectfully Submitted:**



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**DAVID L. GOSS**  
SNACC Administrator



## **SNACC Administrators Report**

**April 18, 2018**

### **Administrative items –**

**Off Brand Radio Testing-** SNACC has completed testing BK KNG-P800 and KNG2-P800 and also Kenwood radios VP 5000 and VP 6000 for use on the system. They meet all qualifications and can be allowed for use on the SNACC system.

#### **Programming:**

**Medic West –** All programming has been completed.

**Community Ambulance-** All units have been re-programmed with some changes and the removal of the analog channels.

**Boulder City Police Department –** All radios have been reprogrammed to customer requested channels, And all analog Channels have been removed.

**Clark County Fire Department-** Units have been reprogrammed and analog channels removed.

### **System Items-**

Dave Goss and Jason Manzo met with Shawn Mollus, the Deputy General Manager of Engineering and Construction. We discussed the importance of SNACC to the community and what the effect of moving would have on SNACC users in functionality and expense. He understands the importance of the SNACC system to public safety. Shawn Mollus said he would keep us informed of the progress of the Water Reclamation District's expansion.

The DiagnostX box has been in operation, and attached is a list of radios that are falling out of tolerance. The radio owner/agencies are being notified as we continue to monitor. (Report attached)

A letter was sent to all users notifying them that as of April 15<sup>th</sup> no additional XTS/XTL radios will be added to the system. Existing radios may still be used. This is to allow the SNACC system to continue moving forward to the newest technologies. (See attached)

**Monthly Budget Reports for February and March - (Attached)**

## Strategic Plan Updates:

### **Budget Variances for February 2018:**

1. Overtime 8.1% - **\$610.15** – There was some overtime during programming
2. Call Backs 7.7% - **\$193.37** –
3. Janitorial 7.7% - **\$210.00** – Monthly bill
4. Office Supplies 9.5% - **\$142.44** – Staples order: Conference room container and extra bins for programming.
5. Minor Equipment (Tools/cables) 8.3% - **\$283.58** – Tools and canvas bags for cables.
6. Vehicle Maintenance 8.8% - **\$1760.62** – Jan & Feb charges
7. Telecommunications – 12.1% - \$871.86 – Centurylink, AT&T, and Verizon
8. Print/Reproduction 14.8% - **\$118.69 – Toshiba charges**

### **Budget Variances for March 2018:**

1. Professional Services 24% - **\$2715.00** – Federal Communications Commission fees
2. Janitorial 7.7% - **\$210.00** – Monthly bill
3. Site Rentals 51.7% - **\$4266.32** – Payment to State of Nevada for the APEX site rack space.
4. Operating Supplies 6.7% - **\$48.97** – Brady Supplies
5. Office Supplies 6.3% - **\$48.83** – Staples
6. Electricity for repeater sites 31.1% - **\$7033.43** – Payment to Las Vegas Valley Water District for Electricity for Elkhorn Site **\$6000** & Boulder City **\$1033.43**
7. Telecommunications – 16.4% - **\$1188.05** – Centurylink, AT&T, and Verizon
8. Print/Reproduction 7.5% - **\$118.69 – Toshiba charges**
9. CC Agreement, ERP, IT Support, etc. 5.1% - **\$2316.25** –

**Preventative Maintenance-** This was performed on the following sites:

Beacon  
Angels Peak  
Mandalay Bay  
Arden

## Monthly Reports

### **February:**

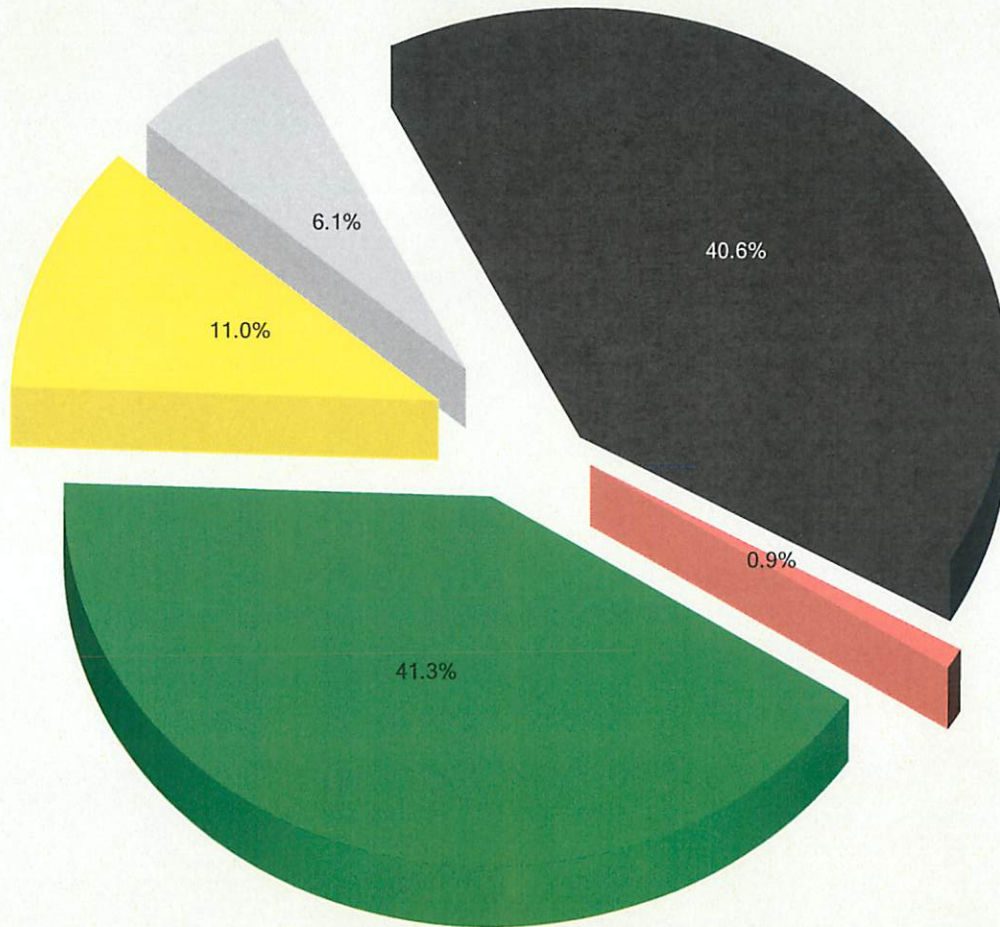
1. *Airtime* – 3,498.6
2. *PTT's* – 2,652,099
3. *Busies* – 192 (Seconds)

### **March:**

1. *Airtime* – 3,977.4
2. *PTT's* – 3,043,492
3. *Busies* – 222 (Seconds)

### System Status

- Failed 99
- Passed 4490
- Not Enough 1192
- Not Suitable 668
- Never Received 4415



# SNACC

## DiagnostX\_Failed Radios

### As of 04-16-2018



| Radio Id | Alias       | Radio Id | Alias     | TTI Failed Radios: |
|----------|-------------|----------|-----------|--------------------|
| 12030    | BP-V213     | 34898    | RTC-34898 | 99                 |
| 15459    | HP-P822     | 34900    | RTC-34900 |                    |
| 15534    | HP-V5887    | 34920    | RTC-34920 |                    |
| 15613    | HP-V5678-1  | 34933    | RTC-34933 |                    |
| 15842    | HP-P2127-2  | 34941    | RTC-34941 |                    |
| 16611    | PT-16611    | 34965    | RTC-34965 |                    |
| 23761    | n-VEH 1089  | 34966    | RTC-34966 |                    |
| 23924    | n-VEH 1360  | 34969    | RTC-34969 |                    |
| 24601    | LVVWD-24601 | 34981    | RTC-34981 |                    |
| 24680    | LVVWD-24680 | 35009    | RTC-35009 |                    |
| 24795    | LVVWD-24795 | 35021    | RTC-35021 |                    |
| 26166    | SD-26166    | 35036    | RTC-35036 |                    |
| 26180    | SD-V1502-1  | 35052    | RTC-35052 |                    |
| 26269    | SD-V1452-1  | 35092    | RTC-35092 |                    |
| 27231    | 27231       | 35109    | RTC-35109 |                    |
| 27310    | 27310       | 35113    | RTC-35113 |                    |
| 27693    | 27693       | 35180    | RTC-35180 |                    |
| 27696    | 27696       | 35503    | RTC-35503 |                    |
| 29184    | SNWA-29184  | 35507    | RTC-35507 |                    |
| 34408    | RTC-34408   | 35524    | RTC-35524 |                    |
| 34422    | RTC-34422   | 35532    | RTC-35532 |                    |
| 34428    | RTC-34428   | 35547    | RTC-35547 |                    |
| 34431    | RTC-34431   | 35565    | RTC-35565 |                    |
| 34453    | RTC-34453   | 35567    | RTC-35567 |                    |
| 34456    | RTC-34456   | 35572    | RTC-35572 |                    |
| 34483    | RTC-34483   | 35576    | RTC-35576 |                    |
| 34512    | RTC-34512   | 35592    | RTC-35592 |                    |
| 34565    | RTC-34565   | 41164    | C-R25     |                    |
| 34577    | RTC-34577   | 41392    | C-256-1   |                    |
| 34582    | RTC-34582   | 41401    | C-C/P-17  |                    |
| 34586    | RTC-34586   | 41408    | C-C/P-24  |                    |
| 34589    | RTC-34589   | 41412    | C-C/P-10  |                    |
| 34599    | RTC-34599   | 41417    | C-FEMA-04 |                    |
| 34605    | RTC-34605   | 41418    | C-R34-1   |                    |
| 34613    | RTC-34613   | 41425    | C-C/P-20  |                    |
| 34619    | RTC-34619   | 42151    | L-E3-4    |                    |
| 34630    | RTC-34630   | 42281    | L-EMS1-2  |                    |
| 34633    | RTC-34633   | 42461    | L-E1-1    |                    |
| 34636    | RTC-34636   | 42512    | L-BIRT2   |                    |
| 34637    | RTC-34637   | 42755    | EMS 06    |                    |
| 34657    | RTC-34657   | 43702    | 43702     |                    |
| 34676    | RTC-34676   | 43716    | 43716     |                    |
| 34687    | RTC-34687   | 43764    | 43764     |                    |
| 34742    | RTC-34742   | 45911    | 45911     |                    |
| 34764    | RTC-34764   | 45923    | 45923     |                    |
| 34844    | RTC-34844   | 45934    | 45934     |                    |
| 34865    | RTC-34865   | 45942    | 45942     |                    |
| 34869    | RTC-34869   | 57579    | 57579     |                    |
| 34886    | RTC-34886   | 58026    | HF-V2024  |                    |
| 34893    | RTC-34893   |          |           |                    |



# Southern Nevada Area Communications Council

6000 E Rochelle Ave · Las Vegas NV 89122  
(702) 455-7390 · Fax (702) 434-4276 · E-Mail: [SNACC@ClarkCountyNV.gov](mailto:SNACC@ClarkCountyNV.gov)

January 17, 2018

Re: SNACC System Upgrade to Phase II

To: ALL CUSTOMERS

SNACC is currently on a FDMA (Frequency Division Multiple Access) system. Transitioning to TDMA (Time Division Multiple Access) will all require SNACC system users to have Phase II capable radios. TDMA doubles the channel capacity of the system. It will also allow us to communicate with other agencies such as LVMPD (Las Vegas Metropolitan Police Department), and the upcoming State of Nevada system. (See attached 'SNACC Compatible Radios and Description Requirements'). This policy was adopted by the Board on 10/18/2017.


Currently, some system users are using XTS and XTL series radios that are only FDMA capable. SNACC will no longer permit any additional XTS/XTL radios on the system. Existing radios will be and can be used until a cutoff date is established in the future. This is in compliance with the minimum standard set forth by the Board.

If you have any questions or concerns, please call 702-455-7390 at your earliest convenience.

Thank you,

A handwritten signature in black ink, appearing to read "D.L. Goss".

David L. Goss  
SNACC Administrator

|  |  |
|--|--|
| <p>SOUTHERN NEVADA AREA<br/>COMMUNICATIONS COUNCIL<br/>POLICIES AND PROCEDURES</p> |  <p>Southern Nevada Area<br/>Communications Council</p> |
|  | <p><b>No.</b></p> <p style="font-size: 2em;"><b>1</b></p>  |
| <p><b>Subject:</b><br/><b>SNACC System Compatible Radios</b></p>                   | <p><b>Effective Date</b></p> <p style="font-size: 1.2em;"><b>10/18/2017</b></p>  |

**1.0 Purpose**

- 1.1. Defines a policy and process for the use of compatible branded radios to be used on the SNACC system.

**2.0 Owner**

- 2.1. SNACC Operations/Governance Working Group (OGWG).

**3.0 Applies To**

- 3.1. Entities requesting to use P25 compatible branded radios on the SNACC system.

**4.0 Background**

- 4.1. With the upgrade to P25 operations, the SNACC system is no longer a proprietary system and other brand radios may work with perhaps some limitations.

**5.0 Policy Statement**

- 5.1. The SNACC will test and approve non-Motorola radios to be used on the SNACC system. All non-Motorola radios must be approved by SNACC Board.

**6.0 Supporting Rules**

- 6.1. A SNACC user may request to use a non-Motorola radio on the system.
- 6.2. Any non-Motorola radio will be thoroughly tested by the Technical Working Group (TWG) and SNACC technicians, for proper operations on the system.
- 6.3. Any features that will not be available to the affected user will be brought to their attention.

6.4. Radios that have not gone through the SNACC performance evaluation will not be allowed on the system.

## **7.0 Responsibilities**

7.1. Requests use non-Motorola radios on the system must be submitted to the SNACC Administrator.

7.2. Submissions must include:

7.2.1. Agency name and single point of contact.

7.2.2. Any special needs or applications (i.e., Emergency, Encryption, or other functions required).

7.2.3. All brands and models must have complete specifications to work on P25 system.

7.2.4. Customer is responsible for bringing in equipment ready for testing.

7.3. The Administrator will provide the SNACC Board with an evaluation of the unit's performance and request an approval/disapproval of acceptance.

7.3.1. The SNACC Administrator will inform the requesting user, in writing, of the evaluation results, and the SNACC Boards decision.

## **8.0 Conditions for Exemption or Waiver**

8.1. As provided in the Waiver or Exception Policy.

## **9.0 Applicable Policies and/or Procedures**

9.1. As listed at <http://snacconline.com/about-us/>

## *NON-LAW ENFORCEMENT*

### **DESCRIPTION REQUIREMENTS**

PORTABLE and MOBILE RADIOS  
DIGITAL  
P25 TRUNKING  
ADVANCED SYSTEM KEY - HARDWARE KEY  
TDMA OPERATION (Phase II)  
PROGRAMMING OVER P25 (OTAP)  
RADIO MANAGEMENT ONLINE

## *LAW ENFORCEMENT*

### **METRO DESCRIPTION REQUIREMENTS**

PORTABLE and MOBILE  
DIGITAL  
P25 TRUNKING  
ADVANCED SYSTEM KEY - HARDWARE KEY  
TDMA OPERATION (Phase II)  
PROGRAMMING OVER P25 (OTAP)  
OTAR W/MULTIKEY  
AES ENCRYPTION  
RADIO MANAGEMENT ONLINE





## Southern Nevada Area Communications Council

6000 E Rochelle Ave • Las Vegas NV 89122  
(702) 455-7390 • Fax (702) 434-4276 • E-Mail: [SNACC@ClarkCountyNV.gov](mailto:SNACC@ClarkCountyNV.gov)

March 20, 2018

Dear Valued Customers,

Please submit a list (If any) of all XTS/XTL 700/800MHz public safety radios not affiliated to the SNACC system (No associated Radio ID). These might include radios that are stored for replacing currently used/inventoried radios.

A response to this notice is required by **April 15, 2018**. Any radios submitted after this date will not be activated on the system.

Also, I have attached the previous letter with regard to future upgrades and the 'SNACC System Compatible Radios' policy, which includes the radio feature requirements for new radios brought on the SNACC system.

Please note: Any radios that do not have the minimum radio requirements provided (See attached) will not be allowed on the system.

Respectfully,

A handwritten signature in blue ink, appearing to read "Dave Goss", is positioned above the printed name.

David L. Goss  
SNACC Administrator

SNACC BOARD OF TRUSTEES

Dane Mattoon, *Chair*. Jeff Buchanan, *Vice Chair*.

Dave Goss, *System Administrator*.

Kevin Nicholson, Chris Vasquez. Brian Nebeker. Sarah McCrea. Frank Milligan. Scott Mazick. Bill Baltas.

**FUND 2520.000**

**Southern Nevada Area Communications Council**

**SNACC BUDGET REPORT: FEBRUARY 2018**

| <b>CATEGORY</b>                                    | <b>BUDGET</b>       | <b>ACTUALS TO DATE</b> | <b>FEBRUARY ACTUALS</b> | <b>% REMAINING</b> |
|--|---------------------|------------------------|-------------------------|--------------------|
| Annual Radio Fees and Buy Ins Billed               | 2,044,183.00        | 2,211,510.44           | 4,287.20                |                    |
| Cost Recovery Billed (Console SUA II)              | 256,355.00          |                        |                         |                    |
| Interest   | 15,226.00           | 36,851.06              | 3,732.04                |                    |
| <b>TOTAL REVENUES</b>                              | <b>2,315,764.00</b> | <b>2,248,361.50</b>    | <b>8,019.24</b>         | <b>-</b>           |
| Salaries & Benefits                                | 416,915.00          | 285,396.81             | 32,708.26               |                    |
| Longevity  | 14,711.00           | 15,005.43              |                         |                    |
| Overtime   | 7,500.00            | 2,414.75               | 610.15                  | 67.8%              |
| Call Back  | 2,500.00            | 1,064.89               | 193.37                  | 57.4%              |
| Professional services                              | 1,280.00            | 300.00                 |                         | 76.6%              |
| Janitorial   | 2,720.00            | 1,570.00               | 210.00                  | 42.3%              |
| Equipment maintenance to include Motorola contract | 951,050.00          | 446,990.95             |                         | 53.0%              |
| Site rentals                                       | 8,248.00            |                        |                         | 100.0%             |
| Office space (Water Reclamation)                   | 12,000.00           | 12,000.00              |                         | 0.0%               |
| Business liability insurance                       | 21,000.00           | 20,579.33              |                         | 2.0%               |
| Operating supplies                                 | 750.00              | 427.65                 |                         | 43.0%              |
| Office supplies                                    | 1,500.00            | 396.33                 | 142.44                  | 73.6%              |
| Minor equip (tools, cables)                        | 3,400.00            | 661.17                 | 283.58                  | 80.6%              |
| Computers and supplies                             | 5,000.00            | 329.17                 |                         | 93.4%              |
| Electricity for repeater sites                     | 22,600.00           | 8,717.04               | 597.01                  | 61.4%              |
| Freight  | 100.00              |                        |                         | 100.0%             |
| Travel/Training                                    | 10,000.00           | 129.00                 |                         | 98.7%              |
| Vehicle Maint.                                     | 20,000.00           | 11,527.69              | 1,760.62                | 42.4%              |
| Telecommunications                                 | 7,222.00            | 4,866.89               | 871.86                  | 32.6%              |
| Print/Reproduction                                 | 1,600.00            | 947.99                 | 118.69                  | 40.8%              |
| CC Agreement, ERP, IT Support, etc.                | 42,137.00           | 25,324.29              |                         | 39.9%              |
| Capital Projects                                   | 350,000.00          |                        |                         | 100.0%             |
| <b>P25 PROJECT</b>                                 |                     |                        |                         |                    |
| Capital lease interest                             | 141,014.00          | 72,617.20              |                         | 48.5%              |
| Capital lease principal                            | 441,568.00          | 218,673.71             |                         | 50.5%              |
| <b>TOTAL EXPENSES</b>                              | <b>2,484,815.00</b> | <b>1,129,940.29</b>    | <b>37,495.98</b>        | <b>54.5%</b>       |

|  |              |
|--|--------------|
| Beginning FY fund balance                                    | 2,242,727.48 |
| Fund balance as of report date:                              | 3,437,282.00 |
| Estimated ending fund balance at end of current fiscal year; | 2,073,676.48 |

**FUND 2520.000**

**Southern Nevada Area Communications Council**

**SNACC BUDGET REPORT: MARCH 2018**

| CATEGORY   | BUDGET              | ACTUALS TO          |                  | % REMAINING  |
|--|---------------------|---------------------|------------------|--------------|
|  |                     | DATE                | MARCH ACTUALS    |              |
| Annual Radio Fees and Buy Ins Billed               | 2,044,183.00        | 2,212,515.32        | 1,004.88         |              |
| Cost Recovery Billed (Console SUA II)              | 256,355.00          |                     |                  |              |
| Interest   | 15,226.00           | 40,938.28           | 4,087.22         |              |
| <b>TOTAL REVENUES</b>                              | <b>2,315,764.00</b> | <b>2,253,453.60</b> | <b>5,092.10</b>  | <b>-</b>     |
| Salaries & Benefits                                | 416,915.00          | 316,709.09          | 31,312.28        |              |
| Longevity  | 14,711.00           | 15,005.43           |                  |              |
| Overtime   | 7,500.00            | 2,428.05            | 13.30            | 67.6%        |
| Call Back  | 2,500.00            | 1,064.89            |                  | 57.4%        |
| Professional services                              | 6,280.00            | 3,015.00            | 2,715.00         | 52.0%        |
| Janitorial   | 2,720.00            | 1,780.00            | 210.00           | 34.6%        |
| Equipment maintenance to include Motorola contract | 951,050.00          | 448,478.45          | 1,487.50         | 52.8%        |
| Site rentals                                       | 8,248.00            | 4,266.32            | 4,266.32         | 48.3%        |
| Office space (Water Reclamation)                   | 12,000.00           | 12,000.00           |                  | 0.0%         |
| Business liability insurance                       | 21,000.00           | 20,579.33           |                  | 2.0%         |
| Operating supplies                                 | 750.00              | 476.62              | 48.97            | 36.5%        |
| Office supplies                                    | 1,500.00            | 445.16              | 48.83            | 70.3%        |
| Minor equip (tools, cables)                        | 3,400.00            | 708.77              | 47.60            | 79.2%        |
| Computers and supplies                             | 5,000.00            | 644.77              | 315.60           | 87.1%        |
| Electricity for repeater sites                     | 22,600.00           | 15,750.47           | 7,033.43         | 30.3%        |
| Freight  | 100.00              |                     |                  | 100.0%       |
| Travel/Training                                    | 5,000.00            | 129.00              |                  | 97.4%        |
| Vehicle Maint.                                     | 20,000.00           | 11,527.69           |                  | 42.4%        |
| Telecommunications                                 | 7,222.00            | 6,054.94            | 1,188.05         | 16.2%        |
| Print/Reproduction                                 | 1,600.00            | 1,066.68            | 118.69           | 33.3%        |
| CC Agreement, ERP, IT Support, etc.                | 42,137.00           | 27,640.54           | 2,316.25         | 34.4%        |
| Capital Projects                                   | 350,000.00          |                     |                  | 100.0%       |
| <b>P25 PROJECT</b>                                 |                     |                     |                  |              |
| Capital lease interest                             | 141,014.00          | 72,617.20           |                  | 48.5%        |
| Capital lease principal                            | 441,568.00          | 218,673.71          |                  | 50.5%        |
| <b>TOTAL EXPENSES</b>                              | <b>2,484,815.00</b> | <b>1,181,062.11</b> | <b>51,121.82</b> | <b>52.5%</b> |

|  |              |
|--|--------------|
| Beginning FY fund balance                                    | 2,242,727.48 |
| Fund balance as of report date:                              | 3,441,452.42 |
| Estimated ending fund balance at end of current fiscal year; | 2,073,676.48 |

**Southern Nevada Area Communications Council  
Agenda Item**

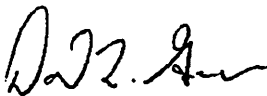
|  |                             |
|--|-----------------------------|
| <b>Issue:</b> Discuss the need to upgrade voice recorders to version 7.17 to maintain compatibility within the SNACC system.   | <b>Date:</b> April 18, 2018 |
| <b>Petitioner:</b> David L. Goss, SNACC Administrator  | <b>Agenda Item:</b> 3       |
| <b>Recommendation - FOR DISCUSSION:</b><br>For the Board to discuss the need to upgrade voice recorders to version 7.17 to maintain compatibility within the SNACC system. |                             |

**Fiscal Impact:** None

**Background:**

The voice recorders at FAO, Henderson, and Boulder City are not compatible with the 7.17. Currently, we are at 7.14. Once SNACC upgrades to 7.17 these recorders will no longer function on the SNACC system. This is a reoccurring item.

**Respectfully Submitted:**



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**DAVID L. GOSS**  
SNACC Administrator

**Southern Nevada Area Communications Council  
Agenda Item**

|   |                             |
|---|-----------------------------|
| <b>Issue:</b> Approve Motorola Change Order #5 - Adjustments to SUAll and Maintenance agreements.   | <b>Date:</b> April 18, 2018 |
| <b>Petitioner:</b> David L. Goss, SNACC Administrator   | <b>Agenda Item:</b> 4       |
| <b>Recommendation - FOR POSSIBLE ACTION:</b><br>That the Board approve Motorola Change Order #5 - Adjustments to SUAll and Maintenance agreement and/or take action as necessary. |                             |

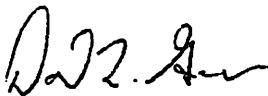
**Fiscal Impact:**

\$74,716.81 for the remaining term of the agreement.  
Average annual fiscal impact \$8,302.00.

**Background:**

The adjustments made are for SNACC users adding consoles to their communications centers.

**Respectfully Submitted:**



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**DAVID L. GOSS**  
SNACC Administrator



# CHANGE ORDER #005

Change Order No. #005- Services Changes Mar 2018

Date: 3-26-2018

Project Name: SNACC P-25 Migration Project - NV-I4I108A

Customer Name: SNACC

Customer Project Mgr: David Goss

The purpose of this Change Order is to: *(highlight the key reasons for this Change Order)*

## SUMMARY OF COST CHANGE ORDER

This change order has been created to make adjustments to the SUA2 and Maintenance agreements for the SNACC P-25 upgrade Project.

Adjustment to correct Change Order 4 contract value= \$285.32  
Added One AIS at Las Vegas Detention, \$1799.54, SUA2 Effective Year 4  
Added Two MCC7100 at RTC, \$1799.54 x 2 = \$3599.08, SUA2 Effective Year 4  
Added Two MCC7100 at RTC, \$1286.00 x 2 = \$2572.00, MA Effective Year 4

Contract # B&Q #31428, Lease Contract Date: 12-11-2014  
Purchase #23636

In accordance with the terms and conditions of the contract identified above between SNACC and Motorola Solutions, Inc., the following changes are approved:

### Contract Price Adjustments

|   |                        |
|---|------------------------|
| Original Contract Value:  | \$18,735,778.92        |
| Previous Change Order amounts for Change Order numbers<br>000 through 004 | -\$100,820.17          |
| This Change Order:  | <b>\$74,716.81</b>     |
| New Contract Value:   | <b>\$18,709,675.56</b> |

### Completion Date Adjustments

|   |            |
|---|------------|
| Original Completion Date:                           | 06/15/2016 |
| Current Completion Date prior to this Change Order: | 09/18/2018 |
| New Completion Date:                                | 11/18/2018 |

**Changes in Equipment:** *(additions, deletions or modifications)*

N/A

**Changes in Services:** (additions, deletions or modifications)

| Changes  | Years            |
|--|------------------|
| Net Changes-Added One AIS at Las Vegas Detention, \$1799.54 SUA2 effective Year 4                        | Effective Year 4 |
| Net Changes-Added Two MCC7100 at RTC, \$1799.54 X 2 = \$3599.08, SUA2 effective Year 4                   | Effective Year 4 |
| Net Changes-Added Two MCC7100 at RTC, \$1286.00 X 2 = \$2572.00, MA Effective Year 4 (3-1-18 to 2-28-19) | Effective Year 4 |

**Schedule Changes:** (describe change or N/A)

N/A

**Pricing Changes:** (describe change or N/A)

July 27, 2017

SNACC ANNUAL PAYMENTS FOR INFRASTRUCTURE SUAI & MAINTENANCE - AS CONSTRUCTED-  
System Accepted 2-28-2016, Warranty ended 2-28-2017

|   | Yr1-System Construction- Dec 30, 2014-Ends Feb 28, 2016 | Yr2-Warranty- Mar 1, 2016, Ended Feb 28, 2017 | Yr3-Mar 1, 2017 start, Ends Feb 28, 2018 | Yr4-Mar 1, 2018 start, Ends Feb 28, 2019 | Yr5-Mar 1, 2019 start, Ends Feb 28, 2020 | Yr6-Mar 1, 2020 start, Ends Feb 28, 2021 | Yr7-Mar 1, 2021 start, Ends Feb 28, 2022 | Yr8-Mar 1, 2022 start, Ends Feb 28, 2023 | Yr9-Mar 1, 2023 start, Ends Feb 28, 2024 | Yr10-Mar 1, 2024 start, Ends Feb 28, 2025 | Yr11-Mar 1, 2025 start, Ends Feb 28, 2026 | Yr12-Mar 1, 2025 start, Ends Feb 28, 2027 |                  |
|---|---|---|--|--|--|--|--|--|--|---|---|---|------------------|
| Maintenance   |   |   |  |  |  |  |  |  |  |   |   |   |                  |
| SUA2  | Yr1-Dec 1, 2014 start, Ends Nov 30, 2015                | Yr2-Dec 1, 2015 start, Ends Nov 30, 2016      | Yr3-Dec 1, 2016 start, Ends Nov 30, 2017 | Yr4-Dec 1, 2017 start, Ends Nov 30, 2018 | Yr5-Dec 1, 2018 start, Ends Nov 30, 2019 | Yr6-Dec 1, 2019 start, Ends Nov 30, 2020 | Yr7-Dec 1, 2020 start, Ends Nov 30, 2021 | Yr8-Dec 1, 2021 start, Ends Nov 30, 2022 | Yr9-Dec 1, 2022 start, Ends Nov 30, 2023 | Yr10-Dec 1, 2023 start, Ends Nov 30, 2024 | Yr11-Dec 1, 2024 start, Ends Nov 30, 2025 | Yr12-Dec 1, 2025 start, Ends Nov 30, 2026 |                  |
| TOTAL SNACC SUAI - Infrastructure \$3,404,903.40        | \$ 283,741.95   | \$ 283,741.95                                 | \$ 283,741.95                            | \$ 283,741.95                            | \$ 283,741.95                            | \$ 283,741.95                            | \$ 283,741.95                            | \$ 283,741.95                            | \$ 283,741.95                            | \$ 283,741.95                             | \$ 283,741.95                             | \$ 283,741.95                             | \$ 3,404,903.40  |
| Total SNACC Maintenance - Infrastructure \$4,546,077.30 |   | Current Contract = \$485,000 Warranty         | \$ 396,556.63                            | \$ 408,453.32                            | \$ 420,706.92                            | \$ 433,328.13                            | \$ 446,327.98                            | \$ 459,717.82                            | \$ 473,509.35                            | \$ 487,714.63                             | \$ 502,346.07                             | \$ 517,416.45                             | \$ 4,546,077.30  |
| TOTAL SNACC SUAI - Consoles \$1,878,723.12              | \$156,560.26  | \$156,560.26                                  | \$156,560.26                             | \$156,560.26                             | \$156,560.26                             | \$156,560.26                             | \$156,560.26                             | \$156,560.26                             | \$156,560.26                             | \$156,560.26                              | \$156,560.26                              | \$156,560.26                              | \$1,878,723.12   |
| Maintenance - Consoles \$1,109,718.80                   |   | System Deployment Warranty                    | \$ 88,093.98                             | \$ 90,736.80                             | \$ 93,458.90                             | \$ 96,262.67                             | \$ 99,150.55                             | \$ 102,125.07                            | \$ 105,188.82                            | \$ 108,344.48                             | \$ 111,594.82                             | \$ 114,942.66                             | \$ 1,009,898.75  |
| Total Lifecycle Services \$10,940,422.50                | \$ 440,302.21   | \$ 440,302.20                                 | \$ 924,952.82                            | \$ 939,492.33                            | \$ 954,468.04                            | \$ 969,893.01                            | \$ 985,780.74                            | \$ 1,002,145.09                          | \$ 1,019,000.38                          | \$ 1,036,361.32                           | \$ 1,054,243.10                           | \$ 1,072,661.32                           | \$ 10,839,602.55 |
| (Estimated Annual Lease Payment /780)                   | \$ -  | \$ -  | \$ -                                     | \$ -                                     | \$ -                                     | \$ -                                     | \$ -                                     | \$ -                                     | \$ -                                     | \$ -                                      | \$ -                                      | \$ -                                      | \$ -             |
| TOTAL SNACC PAYMENT DUE ANNUALLY ON JULY 20th:          | \$ 925,302.20   | \$ 440,302.20                                 | \$ 924,952.82                            | \$ 939,492.33                            | \$ 954,468.04                            | \$ 969,893.01                            | \$ 985,780.74                            | \$ 1,002,145.09                          | \$ 1,019,000.38                          | \$ 1,036,361.32                           | \$ 1,054,243.10                           | \$ 1,072,661.32                           | \$ 11,324,602.55 |
| SUA2 TOTALS   | \$ 440,302.21   | \$ 440,302.21                                 | \$ 440,302.21                            | \$ 440,302.21                            | \$ 440,302.21                            | \$ 440,302.21                            | \$ 440,302.21                            | \$ 440,302.21                            | \$ 440,302.21                            | \$ 440,302.21                             | \$ 440,302.21                             | \$ 440,302.21                             | \$ 5,283,626.52  |
| MA TOTALS   | \$ -  | \$ -  | \$ 484,650.61                            | \$ 499,190.12                            | \$ 514,165.83                            | \$ 529,590.80                            | \$ 545,478.53                            | \$ 561,842.88                            | \$ 578,698.17                            | \$ 596,059.11                             | \$ 613,940.89                             | \$ 632,359.11                             | \$ 5,555,976.05  |



# CHANGE ORDER #005

January 17, 2018

SNACC ANNUAL PAYMENTS FOR INFRASTRUCTURE SUAII & MAINTENANCE - AS CONSTRUCTED-  
System Accepted 2-28-2016, Warranty ended 2-28-2017

|   | Yr1-System Construction-Dec 30, 2014-Ends Feb 28, 2016 | Yr2-Warranty- Mar 1, 2016, Ended Feb 28, 2017     | Yr3-Mar 1, 2017 start, Ends Feb 28, 2018 | Yr4-Mar 1, 2018 start, Ends Feb 28, 2019 | Yr5-Mar 1, 2019 start, Ends Feb 28, 2020 | Yr6-Mar 1, 2020 start, Ends Feb 28, 2021 | Yr7-Mar 1, 2021 start, Ends Feb 28, 2022 | Yr8-Mar 1, 2022 start, Ends Feb 28, 2023 | Yr9-Mar 1, 2023 start, Ends Feb 28, 2024 | Yr10-Mar 1, 2024 start, Ends Feb 28, 2025 | Yr11-Mar 1, 2025 start, Ends Feb 28, 2026 | Yr12-Mar 1, 2026 start, Ends Feb 28, 2027 |                 |
|---|--|---|--|--|--|--|--|--|--|---|---|---|-----------------|
|   | Yr1-Dec 1, 2014 start, Ends Nov 30, 2015               | Yr2-Dec 1, 2015 start, Ends Nov 30, 2016          | Yr3-Dec 1, 2016 start, Ends Nov 30, 2017 | Yr4-Dec 1, 2017 start, Ends Nov 30, 2018 | Yr5-Dec 1, 2018 start, Ends Nov 30, 2019 | Yr6-Dec 1, 2019 start, Ends Nov 30, 2020 | Yr7-Dec 1, 2020 start, Ends Nov 30, 2021 | Yr8-Dec 1, 2021 start, Ends Nov 30, 2022 | Yr9-Dec 1, 2022 start, Ends Nov 30, 2023 | Yr10-Dec 1, 2023 start, Ends Nov 30, 2024 | Yr11-Dec 1, 2024 start, Ends Nov 30, 2025 | Yr12-Dec 1, 2025 start, Ends Nov 30, 2026 |                 |
| Maintenance   |  |   |  |  |  |  |  |  |  |   |   |   |                 |
| SUA2  |  |   |  |  |  |  |  |  |  |   |   |   |                 |
| TOTAL SNACC SUAII - Infrastructure \$3,404,903.40       | \$ 283,741.95  | \$ 283,741.95                                     | \$ 283,741.95                            | \$ 283,741.95                            | \$ 283,741.95                            | \$ 283,741.95                            | \$ 283,741.95                            | \$ 283,741.95                            | \$ 283,741.95                            | \$ 283,741.95                             | \$ 283,741.95                             | \$ 283,741.95                             | \$ 3,404,903.40 |
| Total SNACC Maintenance - Infrastructure \$4,546,077.30 |  | Current Maintenance Contract + \$485,000 Warranty | \$ 396,556.63                            | \$ 408,453.32                            | \$ 420,706.92                            | \$ 433,328.13                            | \$ 446,327.98                            | \$ 459,717.82                            | \$ 473,509.35                            | \$ 487,714.63                             | \$ 502,346.07                             | \$ 517,416.45                             | \$ 4,546,077.30 |
| TOTAL SNACC SUAII - Consoles                            | \$156,560.26   | \$156,560.26                                      | \$156,560.26                             | \$161,958.88                             | \$161,958.88                             | \$161,958.88                             | \$161,958.88                             | \$161,958.88                             | \$161,958.88                             | \$161,958.88                              | \$161,958.88                              | \$161,958.88                              | \$ 1,927,310.70 |
| Total SNACC Maintenance - Consoles \$1,110,718.80       |  | System Deployment Warranty                        | \$ 88,093.98                             | \$ 93,308.80                             | \$ 96,108.06                             | \$ 98,991.31                             | \$ 101,961.05                            | \$ 105,019.88                            | \$ 108,170.47                            | \$ 111,415.59                             | \$ 114,758.05                             | \$ 118,200.80                             | \$ 1,036,027.98 |
| Total Lifecycle Services \$10,940,422.50                | \$ 440,302.20  | \$ 440,302.20                                     | \$ 924,952.82                            | \$ 947,462.95                            | \$ 962,515.82                            | \$ 978,020.27                            | \$ 993,989.85                            | \$ 1,010,438.52                          | \$ 1,027,380.65                          | \$ 1,044,831.05                           | \$ 1,062,804.95                           | \$ 1,081,318.08                           | \$10,914,319.36 |
| Annual Lease Payment (TBD)                              |  | \$ -  | \$ -                                     | \$ -                                     | \$ -                                     | \$ -                                     | \$ -                                     | \$ -                                     | \$ -                                     | \$ -                                      | \$ -                                      | \$ -                                      | \$ -            |
| TOTAL SNACC PAYMENT DUE ANNUALLY ON JULY 20th:          | \$ 925,302.20  | \$ 440,302.20                                     | \$ 924,952.82                            | \$ 947,462.95                            | \$ 962,515.82                            | \$ 978,020.27                            | \$ 993,989.85                            | \$ 1,010,438.52                          | \$ 1,027,380.65                          | \$ 1,044,831.05                           | \$ 1,062,804.95                           | \$ 1,081,318.08                           | \$11,399,319.36 |
| SUA2 TOTALS   | \$ 440,302.21  | \$ 440,302.21                                     | \$ 440,302.21                            | \$ 445,700.83                            | \$ 445,700.83                            | \$ 445,700.83                            | \$ 445,700.83                            | \$ 445,700.83                            | \$ 445,700.83                            | \$ 445,700.83                             | \$ 445,700.83                             | \$ 445,700.83                             | \$ 5,337,214.10 |
| MA TOTALS   | \$ -   | \$ -  | \$ 484,650.61                            | \$ 501,762.12                            | \$ 516,814.99                            | \$ 532,319.44                            | \$ 548,289.02                            | \$ 564,737.69                            | \$ 581,679.82                            | \$ 599,130.22                             | \$ 617,104.12                             | \$ 635,617.25                             | \$ 5,587,105.28 |





# CHANGE ORDER #005

| Amended 2017   |                         | Amended 2-23-2018  |                         |
|--|-------------------------|--|-------------------------|
| TOTAL SNACC SUAIL - Infrastructure<br>\$3,404,903.40       | \$ 3,404,903.40         | TOTAL SNACC SUAIL - Infrastructure<br>\$3,404,903.40       | \$ 3,404,903.40         |
| Total SNACC Maintenance - Infrastructure<br>\$4,546,077.30 | \$ 4,546,077.30         | Total SNACC Maintenance - Infrastructure<br>\$4,546,077.30 | \$ 4,546,077.30         |
| TOTAL SNACC SUAIL - Consoles<br>\$1,878,723.00             | \$ 1,878,723.12         | TOTAL SNACC SUAIL - Consoles<br>\$1,878,723.00             | \$ 1,927,310.70         |
| Total SNACC Maintenance - Consoles<br>\$1,110,718.80       | \$ 1,009,898.75         | Total SNACC Maintenance - Consoles<br>\$1,110,718.80       | \$ 1,036,027.98         |
| Total Lifecycle Services<br>\$10,940,422.50                | \$ 10,839,602.55        | Total Lifecycle Services<br>\$10,940,422.50                | \$ 10,914,319.36        |
| Estimated Annual Lease Payment (TBD)                       |                         | Estimated Annual Lease Payment (TBD)                       |                         |
| TOTAL SNACC PAYMENT DUE ANNUALLY ON JULY 20th:             | \$ 11,324,602.55        | TOTAL SNACC PAYMENT DUE ANNUALLY ON JULY 20th:             | \$ 11,399,319.36        |
| SUA2 TOTALS  | \$ 5,283,626.52         | SUA2 TOTALS  | \$ 5,332,214.10         |
| MA TOTALS  | \$ 5,555,976.05         | MA TOTALS  | \$ 5,582,105.28         |
|  | <b>\$ 10,839,602.57</b> |  | <b>\$ 10,914,319.38</b> |

|      | Amended 2017               | Amended 2-23-2018 | Difference          |
|------|----------------------------|-------------------|---------------------|
| SUA2 | \$ 5,283,626.52            | \$ 5,332,214.10   | \$ 48,587.58        |
| MA   | \$ 5,555,976.05            | \$ 5,582,105.28   | \$ 26,129.23        |
|      | <b>Contract Adjustment</b> |                   | <b>\$ 74,716.81</b> |

|  |  |
|--|--|
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|  |  |

**Customer Responsibilities:** *(describe change or N/A)*

- N/A

**Payment Terms for this Change Order:**  
*(describe new payment terms applicable to this change order)*  
 N/A

**Terms and Conditions for this Change Order:**  
*(describe new terms and conditions applicable to this change order)*  
 N/A



# CHANGE ORDER #005

## Approvals

Unless amended above, all other terms and conditions of the Contract shall remain in full force. Here are any inconsistencies between the provisions of this Change Order and the provisions of the Contract, the provisions of this Change Order and cited documents will prevail.

IN WITNESS WHEREOF the parties have executed this Change Order as of the last date signed below.

**Motorola Solutions, Inc**

**Customer**

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

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

Printed Name: John St.Peter

Printed Name: \_\_\_\_\_

Title: System Integration and  
Services, Regional Manager

Title: \_\_\_\_\_

Date: \_\_\_\_\_

Date: \_\_\_\_\_

Reviewed by: Lauren Heise  
Motorola Project Manager

Date: 03/26/2018

**Southern Nevada Area Communications Council  
Agenda Item**

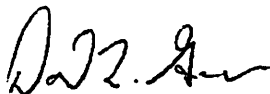
|   |                             |
|---|-----------------------------|
| <b>Issue:</b> Adding the Motorola Outdoor Location Services (GPS) and Enhanced Data to the SNACC system.  | <b>Date:</b> April 18, 2018 |
| <b>Petitioner:</b> David L. Goss, SNACC Administrator   | <b>Agenda Item:</b> 5       |
| <b>Recommendation - FOR DISCUSSION/ACTION:</b><br>That the Board discuss adding the Motorola Outdoor Location Services (GPS) and Enhanced Data to the SNACC System and/or take action as necessary. |                             |

**Fiscal Impact:** None

**Background:**

GPS would allow dispatchers to locate the position of radios whether handhelds or vehicle units. Dispatchers would know where exactly their first responders are and when they need to send help.

**Respectfully Submitted:**



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**DAVID L. GOSS**  
SNACC Administrator

# OUTDOOR LOCATION SERVICES (GPS) AND ENHANCED DATA



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# TABLE OF CONTENTS

## Section 1

|  |     |
|--|-----|
| System Overview .....                                    | 1-1 |
| 1.1 Introduction .....                                   | 1-1 |
| 1.2 ASTRO 25 Outdoor Location Solution Description ..... | 1-1 |
| 1.2.1 ASTRO® 25 Trunking with IV&D.....                  | 1-1 |
| 1.2.2 Data Enabled ASTRO® 25 Portable Radios .....       | 1-1 |
| 1.2.3 Data Enabled ASTRO® 25 Mobile Radios .....         | 1-2 |
| 1.2.4 Intelligent Middle Ware.....                       | 1-2 |
| 1.2.5 IMW Location Service .....                         | 1-3 |
| 1.2.6 Enhanced Data.....                                 | 1-3 |
| 1.2.7 Design Assumptions:.....                           | 1-3 |

## Section 2

|                               |     |
|-------------------------------|-----|
| System Components.....        | 2-5 |
| 2.1 Equipment Components..... | 2-5 |

## Section 3

|   |     |
|---|-----|
| Services .....                          | 3-1 |
| 3.1 Motorola Integration Services ..... | 3-1 |
| 3.2 Excluded Services.....              | 3-1 |
| 3.3 Motorola System Support.....        | 3-1 |

## Section 4

|                       |     |
|-----------------------|-----|
| System Estimate ..... | 4-1 |
|-----------------------|-----|



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July 18, 2017

Mr. David Goss  
Southern Nevada Area Communications Council  
System Administrator  
6000 East Rochelle  
Las Vegas, NV 89122

Subject: Budgetary Estimate for Outdoor Location Services (GPS) and Enhanced Data

Dear Mr. Goss:

Motorola Solutions, Inc. ("Motorola") is pleased to present the Southern Nevada Communications Council (SNACC) with this budgetary estimate. The development of this document provided us an opportunity to evaluate our current mutual business and to further explore the means by which we can best fulfill the SNACC's communications needs.

This information is provided to assist you in your budget planning and evaluation processes. We will be pleased to submit a comprehensive proposal with firm pricing, based upon a more detailed analysis of your requirements.

As the industry's premier supplier of radio communications solutions, Motorola possesses many unique capabilities. Our state-of-the-art technology and successful deployment history allow us to provide effective solutions to your complex business problems while contributing to your organizational productivity and effectiveness.

Questions or inquiries may be addressed to me at 702-617-1734 or [henry.johnson@motorolasolutions.com](mailto:henry.johnson@motorolasolutions.com). We look forward to your review and feedback regarding this document.

Sincerely,

Motorola Solutions, Inc.

Henry Johnson  
Senior Account Manager

# SYSTEM OVERVIEW

## 1.1 INTRODUCTION

Based on the Southern Nevada Area Communications Council's (SNACC) request for a budgetary quote, Motorola is proposing the ASTRO Outdoor Location Solution which includes the addition of an Intelligent Middleware (IMW) Server and Enhanced Data capability to the SNACC System. The IMW server will allow SNACC to poll the location of their subscribers on demand and to receive an APX subscriber location upon Emergency activation over the existing SNACC IV&D radio system. The ASTRO® 25 Outdoor Location Solution provides location data for both persons (using portables) and vehicles (using mobiles) over the ASTRO® 25 Trunking IV&D system. Additionally, included in this proposal is the licensing for Motorola's Enhanced Data capabilities. Enhanced Data provides for a more efficient means of communications for inbound-only packet data service. Though not required, Enhanced Data is recommended for cadence based unsolicited location reporting from fielded units as it drastically improves the data channel capacity capabilities over a standard IV&D data channel.

Included in this proposal is Motorola's Location on PTT feature. Location on PTT allows subscriber units to report their GPS location each time the radio is keyed for a voice call. This transmission of location data is sent with the voice transmission and does not require the use of a data channel. Location on PTT requires the SNACC system be at release 7.17 or later.

## 1.2 ASTRO 25 OUTDOOR LOCATION SOLUTION DESCRIPTION

The ASTRO® 25 Outdoor Location Solution is as a resource-tracking solution using Global Positioning System (GPS) satellites to enable operators to locate and track outdoor personnel and vehicles.

The solution uses the ASTRO® 25 system to transport location, presence, and telemetry data over the air to the Location Service. The IMW server routes the data to third-party mapping applications through the IMW Location Application Programming Interfaces (APIs), including the LRRP API, IMW REST & WebSocket APIs, and the 3GPP Parlay X Web services-based API.

The ASTRO® 25 Outdoor Location Solution includes the following components:

### 1.2.1 ASTRO® 25 Trunking with IV&D

For location reporting, the use of the Integrated Voice and Data (IV&D) Enhanced Data is preferred when possible, due to the higher capacity it provides. Enhanced Data is only supported on ASTRO® 25 Trunked IV&D systems with GTR series site equipment and APX subscriber units.

### 1.2.2 Data Enabled ASTRO® 25 Portable Radios

One or more of the following - the APX portable radio with an internal GPS module, the XTS 5000/XTS 2500 portable radio connected to the GPS-enabled Remote Speaker Microphone (RSM).

## 1.2.3 Data Enabled ASTRO® 25 Mobile Radios

The APX mobile radio with an internal GPS module or connected directly to the Cellocator Olympic for ASTRO GPS and Telemetry unit and the XTL 5000, XTL 2500, XTL 1500, or ASTRO® Spectra Plus™ radios connected directly to an external GPS unit. One of the following three GPS units may be used for the XTL and ASTRO® Spectra Plus™ radios: the Cellocator Olympic for ASTRO GPS and Telemetry unit, the Trimble Placer™ Gold APU, or the Trimble Placer™ Gold Dead Reckoning Unit (DRU) Plus.

## 1.2.4 Intelligent Middle Ware

The ASTRO® 25 Outdoor Location Solution and Intelligent Middle Ware (IMW) platform allow the radio user and third-party applications to determine the current location of portable or mobile radios. Location, telemetry, and presence (alone or combined with other information about the environment) enable powerful applications, which can be of great benefit. Third party location applications, including Computer Aided Dispatch, use an IMW Application Protocol Interface (API) software library to create an interface between the location application and the IMW whereby location and other status information is received.

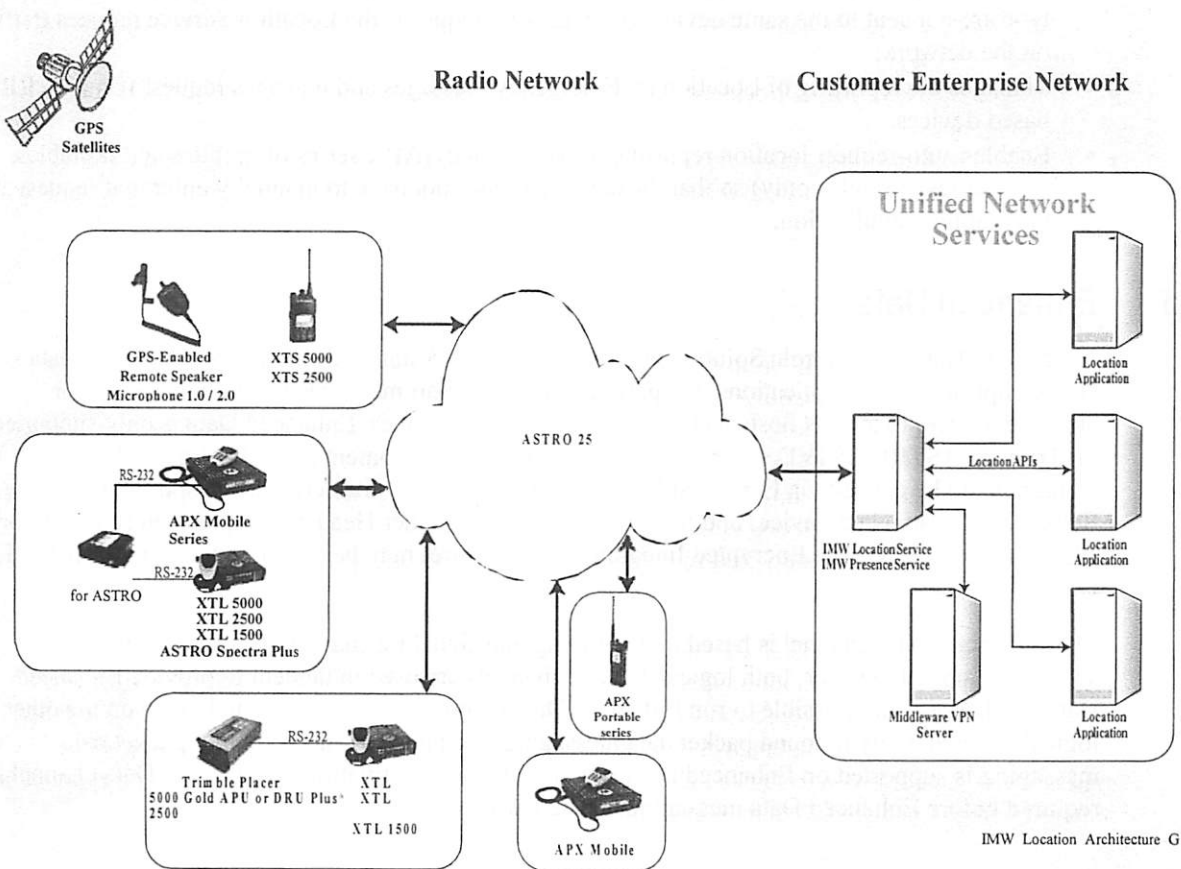


Figure 1-1: Outdoor Location Services



## 1.2.5 IMW Location Service

The Location Service resides on the IMW server within the Customer Enterprise Network (CEN) on a Windows-based server running the Microsoft Windows Server 2012 R2 (64 bit) operating system. The Location Service receives the location information from the GPS devices, which has traveled over the data network. The purpose of the Location Service is to act as a gateway and translate mobile device messages and transfer data to applications. The Location Service has the following functionality:

- Receives the disparate protocols of the GPS devices from Motorola and third-party radios, decompresses them, and translates them out into a unified protocol.
- Provides a single integration point for location, telemetry, and presence information for ASTRO® 25 networks, ASTRO® 25 devices and third-party devices through the IMW Parlay X APIs and the ASTRO® 25 LRRP API.
- Simplifies the integration process for application developers.
- Provides intelligent routing of messages by managing requests to the devices. The Location Service ensures that no messages are sent to absent devices and that multiple requests of the same type are not sent to the same device. By managing requests, the Location Service reduces traffic on the network.
- Manages the reporting of Location on Emergency messages and manages request IDs for LRRP-based devices.
- Enables auto-request location reporting of new devices (APX series of mobiles and portables, XTS series portables only) so that the developer does not have to manually enter that request at the mapping application.

## 1.2.6 Enhanced Data

Enhanced Data is a Motorola Solutions proprietary (not P25 standard) inbound-only packet data service optimized for applications that periodically send short messages from a Subscriber (or attached device) to a CEN host, such as outdoor location services. Enhanced Data is only supported on Trunked ASTRO 25 IVD systems with GTR series site equipment and APX Subscriber units. Datagrams to be carried via Enhanced Data must use UDP/IPv4 for network transport between the Subscriber (or attached device) and the CEN. Optionally, either Header Compression (UDP/IP) or IPsec encryption (via the Encrypted Integrated Data feature) may be used together with Enhanced Data.

The Enhanced Data channel is based on the timing and signaling characteristics of the Phase 2 TDMA channel. However, both logical TDMA channels are used in tandem to provide Enhanced Data service; it is not possible to run Enhanced Data on one logical channel and voice on the other logical channel. Only inbound packet data messaging is supported – no outbound packet data messaging is supported on Enhanced Data channels. Context activation on a Classic Data channel is required before Enhanced Data messaging can be performed.

## 1.2.7 Design Assumptions:

- SNACC will assume responsibility for network connectivity between all interested agencies and the IMW located on the SNACC DATA CEN.
- Adequate power and rack space is available for solutions servers.
- Redundant configuration for the IMW server is not required.



- All subscribers already have IV&D, GPS, and Enhanced Data capability and licensing.
  - ◊ Any required flashes to enable these features are not included in the proposed solution.
- Subscriber reprogramming to enable Location Feature in codeplug will be performed by SNACC.
- All vehicles with mobiles have GPS antennas installed.
- Only emergency reporting and on demand location polling is required on almost all radios. Continuous location updates will only be performed on up to 100 units with only approximately 30 simultaneously active users. Additional use of continuous location updates will require a thorough analysis of the RF system data capacity and may require additional channel capacity.
- Continuous location updates will only be performed on the seven site simulcast system and the Angles Peak ASR.



SECTION 2

# SYSTEM COMPONENTS

## 2.1 EQUIPMENT COMPONENTS

- One (1) IMW Server with the following licenses:
  - 5000 Resources for Location Services
  - 5000 Resources for Presence Services
- Master Site Licenses for the following
  - One (1) Enhanced Data zone level license
  - Eight (8) Enhanced Data site level licenses
  - 3000 Location on PTT user licenses
- One (1) Fortinet 100D Firewall
- One (1) GGM 8000 Border Router
- One (1) HP2620-24 DMZ Switch
- One (1) HP2620-24 CEN Switch



SECTION 3

# SERVICES

## 3.1 MOTOROLA INTEGRATION SERVICES

To ensure a smooth system installation and deployment, our solution for SNACC includes estimates for the following services for each of the proposed phases:

- Project Management.
- Field Engineering.
- Installation and Configuration Services.
- Functional Verification Testing and Documentation.

This solution will be installed, optimized, tested, and cutover by our dedicated Project Implementation Team.

## 3.2 EXCLUDED SERVICES

The following services have not been included in the estimated pricing:

- Reprogramming or reconfiguration of subscriber radios.

## 3.3 MOTOROLA SYSTEM SUPPORT

Motorola has included estimates to add the proposed solution to existing SNACC maintenance/SUAII agreements. These estimates are subject to change based on the purchase and implementation date of the proposed solution and the status of existing SNACC agreements at that time.



SECTION 4

# SYSTEM ESTIMATE

Motorola's budgetary estimate for the proposed solutions and services for SNACC follows:

| ITEM   | PRICE        |
|--|--------------|
| Outdoor Location Services Solution (GPS) as Proposed | \$410,000.00 |
| Enhanced Data Solution as Proposed                   | \$45,000.00  |

Note: Applicable federal, state, and local taxes are not included

Upon request, Motorola can provide SNACC a firm proposal tailored to address your unique solution requirements. We appreciate the opportunity to support your communications needs and look forward to continuing a strong collaboration that achieves your vision.

| Post Warranty Maintenance Agreement Estimate | PRICE    |
|--|----------|
| Year 1 (Warranty Period)                     | Included |
| Year 2                                       | 2,337.81 |
| Year 3                                       | 2,407.95 |
| Year 4                                       | 2,480.19 |
| Year 5                                       | 2,554.59 |
| Year 6                                       | 2,631.23 |
| Year 7                                       | 2,710.17 |
| Year 8                                       | 2,791.47 |
| Year 9                                       | 2,875.22 |

| System Upgrade Agreement Estimate (SUAll) | PRICE     |
|---|-----------|
| Year 1 (Warranty Period)                  | 15,946.55 |
| Year 2                                    | 15,946.55 |
| Year 3                                    | 15,946.55 |
| Year 4                                    | 15,946.55 |
| Year 5                                    | 15,946.55 |
| Year 6                                    | 15,946.55 |
| Year 7                                    | 15,946.55 |
| Year 8                                    | 15,946.55 |
| Year 9                                    | 15,946.55 |

