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

1:30 P.M. – JUNE 15, 2022 Las Vegas Valley Water District 1001 S Valley View Boulevard, MEAD 3 Las Vegas, NV 89153

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 JASON MANZO, SNACC OFFICE, 6000 EAST ROCHELLE, 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 June 15, 2022 agenda and the minutes of the May 18, 2022

Special Board meeting.

2. FOR POSSIBLE ACTION: Receive the Administrator's report with the inclusion of the SNACC monthly

financial reports and budget variances for the month of March and April 2022

and the system reports for the months of April and May 2022.

3. FOR POSSIBLE ACTION: Approve and authorize the administrator to sign the Aviat Quote for Option

1 or Option 2 or take action as appropriate.

4. FOR POSSIBLE ACTION: For the Board to approve the quote from Motorola on the Juniper routers

needed for the Microwave project.

5. FOR DISCUSSION/ACTION: For the Board to set a deadline to get as many radios on the SNACC system

to be TDMA (Time Division Multiple Access) ready by 2024 and for those agencies which are not ready, SNACC will make a reasonable effort to help

facilitate their transition to TDMA (Such as, by temporarily enabling

Dynamic Dual Mode).

6. FOR POSSIBLE ACTION: Approve the Nevada Pool insurance for fiscal year 2023

#### **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**

#### **AFFIDAVIT 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
Clark County Water Reclamation District
Clark County Courthouse Annex
Las Vegas Valley Water District
https://notice.nv.gov/
PLEASE POST

Chairman: Scott Mazick Vice Chairman: Chris Vasquez Board Members: Wendy Lotman, Brian O'Neal, Terrance Holmes, Vince Albowicz, Isaac Henn, Frank Milligan, Mitchell Maciszack & Brad Adams

## Southern Nevada Area Communications Council Agenda Item

<b>Issue:</b> Approve the June 15, 2022 agenda and the minutes of the Special Board meeting.	Date: June 15, 2022
Petitioner: Jason Manzo,SNACC Administrator	Agenda Item: 1
Recommendation - FOR POSSIBLE ACTION: Approve the June 15, 2022 agenda and the minutes of the May 1 action as necessary.	8, 2022 Special Board meeting and/or take

#### **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:** 

Sason Manzo

**SNACC Administrator** 



### Southern Nevada Area Communications Council

### SPECIAL MEETING MINUTES

Date:

May 18, 2022

Location:

Southern Nevada Area Communications Council

6000 E. Rochelle Ave Las Vegas, NV 89122

Time:

1:30 P.M.

Board members present:

Scott Mazick, Chair

Frank Milligan Terrance Holmes Henry Blackeye

Tim White

Chris Vasquez, Vice Chair

Brian O'Neal Wendy Lotman Isaac Henn

#### Call to Order

**Public Comment:** NONE GIVEN

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 May 18, 2022 agenda and the minutes from the April 20, 2022 meeting. (FOR POSSIBLE ACTION)
  - Motion was made to approve, motion passed unanimously.
- 2. Approve the Fiscal Year 2023 SNACC Budget, presented by Jason Manzo. (FOR POSSIBLE ACTION)
  - Motion was made to approve the presented budget with Page 8 to be included, motion passed unanimously

# Southern Nevada Area Communications Council

Fiscal Year 2023 Final Budget

Presented May 18, 2022

#### **SNACC - FY23 BUDGET: REVENUES**

Total	\$ 3,344,459
Reimbursement of Console SUA II & Maintenance	\$ 420,31
Radio Fees	\$ 2,924,141
FY 22 Revenues - Budgeted	

Total	\$ 3,225,220
Reimbursement of Console SUA II & Maintenance	\$ 420,318
Radio Fees	\$ 2,804,902
FY 23 Revenues	

- Fiscal year 2023 revenues ~
  - Annual fee is increased 5.7% to \$311.62 per radio
  - Reimbursement of console maintenance is increased 3% in response to the annual escalation rate as contracted with Motorola

#### **SNACC - FY23 BUDGET: SALARIES and BENEFITS**

Total	\$	462,088
Call Back	\$	2,500
Overtime	\$	7,500
Benefits	\$	144,903
Salaries	\$	307,185
FY22 Salaries, Wages, and Be	nefits (Budget	ed)

Total	\$	502,673
Call Back	\$	2,500
Overtime	\$	7,500
Benefits	\$	153,800
Salaries	\$	338,873
FY23 Sa	laries, Wa	ges and Benefits

- Fiscal year 2023 salaries and benefits budget  $^{\sim}$ 
  - Salaries and Benefits are increased due to Merit and COLA from Labor Contract.

#### **SNACC – FY23 BUDGET: SERVICES AND SUPPLIES**

FY22 Services and Supplies	
FCC licensing assistance	\$ 1,780
Repair, maintain, clean facilities	\$ 2,720
Air Conditioning Service & Repairs	\$ 9,000
UPS maintenance	\$ 5,400
Rack Space Rental at Apex and Suncoast	\$ 8,466
Lease of SNACC offices	\$ 12,000
Elkhorn lease	\$ 6,000
Business Insurance	\$ 23,000
Data Circuit charges	\$ 5,320
Keys	\$ 205
Office, cleaning supplies	\$ 6,400
Hardware and supplies	\$ 13,264
Computer equipment and software	\$ 4,500
Electricity	\$ 16,000
Staff Travel/Training	\$ 10,000
Support, incl Administrative Support Agrmnt	\$ 48,763
Telecommunications	\$ 4,560
Printing	\$ 2,100
Automotive	\$ 20,000
Total	\$ 199,478

Total	\$1	199,479
Automotive	\$	20,000
Printing	\$	2,100
Telecommunications	\$	4,561
Support, incl Administrative Support Agrmnt	\$	48,763
Staff Travel/Training	\$	10,000
Electricity	\$	16,000
Computer equipment and software	\$	4,500
Hardware and supplies	\$	13,264
Office, cleaning supplies	\$	6,400
Keys	\$	205
Data Circuit charges	\$	5,320
Business Insurance	\$	23,000
Elkhorn lease	\$	6,000
Lease of SNACC offices	\$	12,000
Rack Space Rental at Apex and Suncoast	\$	8,466
UPS maintenance	\$	5,400
Air Conditioning Service & Repairs	\$	9,000
Repair, maintain, clean facilities	\$	2,720
FCC licensing assistance	\$	1,780
FY23 Services and Supplies		

 $\bullet$   $\;$  Fiscal year 2023 services and supplies budget  $^{\sim}$ 

#### **SNACC - FY23 BUDGET: SUAII and MAINTENANCE**

Total	\$ 1	,198,977
Maintenance for system infrastructure	\$	495,526
SUAII for system infrastructure	\$	298,881
Maintenance for Consoles (reimbursed)	\$	174,002
SUAII for Consoles (reimbursed)	\$	230,568
FY22 SUAII and Maintenance		

Total	\$1	1,229,582
Maintenance for system infrastructure	\$	510,392
SUAII for system infrastructure	\$	298,870
Maintenance for Consoles (Reimbursed)	\$	189,751
SUAII for Consoles (Reimbursed)	\$	230,568
FY23 SUAII and Maintenance		

- Fiscal year 2023 SUAII and Maintenance ~
  - Infrastructure and console maintenance increases are at the contracted annual escalation rate of 3%.

#### SNACC – FY23 BUDGET: CAPITAL

Total	\$ 2,557,582
Arden Site AC/Genesis/Device Mgmt	\$ 92,500
Replace Vehicle 14236	\$ 75,000
Microwave upgrade	\$ 1,900,000
Capital lease principal	\$ 514,533
Capital lease interest	\$ 68,048
FY22 Capital - Budgeted	

Total	\$	3,982,582
Simulcast	\$	1,500,000
Microwave upgrade	\$	1,900,000
Capital lease principal	\$	534,586
Capital lease interest	\$	47,996
FY23 Capital - Budg	eted	

- Fiscal year 2023 capital budget
- Status of Capital Lease Agreement

• Original amount of issue in fiscal year 2015: \$4,795,356

Final payment date: December of 2024

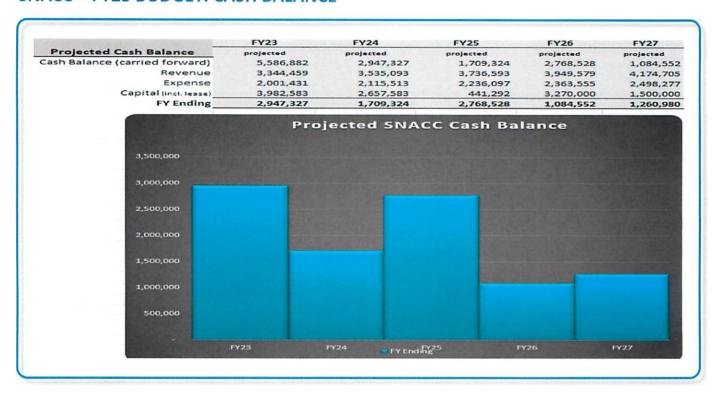
Principal balance at end of fiscal year 2022: \$1,375,782
 Principal balance at end of fiscal year 2023: \$841,196

#### **SNACC – FY23 BUDGET: FUTURE CAPITAL PROJECTS**

5 YEAR CAPITAL PLAN	FY23	FY24	FY25	FY26	FY27
Microwave upgrade	\$1,900,000				
Simulcast Redesign Project	\$1,500,000	\$2,000,000			
Device Management - licenses for 3,000 addt'l radios		\$ 75,000	\$ 75,000		
Replace vehicle # 15722			\$ 75,000		
Device Mangement - licenses for 10,000 radios				\$1,250,000	
Brooks Site Air Conditioners (2x4 Ton Units)				\$ 20,000	
FDMA Migration				\$2,000,000	\$1,500,00
	\$3,400,000	\$2,075,000	\$150,000	\$3,270,000	\$1,500,00

- Proposed Future Capital Projects ~
  - Device Management: This allows for firmware upgrades and is used in conjunction with OTAP. This also automatically tracks codeplug data for each radio on the system.
  - Simulcast Redesign Project This allows SNACC to expand and align our current radio coverage in the Las Vegas Valley to keep pace with the current growth trend.
  - Microwave Upgrade Project: Budgeted amount is \$1.9 Microwaves are at end of life and need to be upgraded to maintain compatibility to the SNACC System. Microwaves have to be upgraded before the next system upgrade which will be taking place in September 2022.

#### SNACC - FY23 BUDGET: CASH BALANCE



- SNACC fund projected cash balance ~
  - With the current capital plan, anticipated cash balance will decline through fiscal year 2027 with an exception in fiscal year 2024 and 2027.

#### **SNACC - FY23 BUDGET: AGENCY BILLINGS**

	SNA	ACC FY23 BILLABLI	E RADIO INVENTORY		
Member	#Radios	FY 23 Fee	Member	#Radios	FY23 Fee
American Medical Reponse	141	43,939.09	Henderson Office of Health and Safety	10	3,116.2
Boulder City Fire	38	11,841.74	Henderson Police Department	1011	315,052.6
Boulder City Marshals	6	1,869.75	Henderson Utilities	54	16,827.7
Boulder City PD	104	32,408.97	Las Vegas Valley Water Department	558	173,886.6
Clark County School District Attendance Officers	31	9,660.37	SNWA	366	114,054.6
Clark County School District Police	381	118,729.03	Las Vegas Animal Control	32	9,971.9
Clark County Water Reclamation	152	47,366.96	Las Vegas Convention & Visitors Authority	2	623.2
Clark County Department of Aviation	998	311,001.49	Las Vegas Court Marshals	36	11,218.4
Clark County Boulder City Constable	5	1,558.12	Las Vegas Detention & Enforcement	207	64,506.3
Clark County Building & Fire Prevention	50	15,581.24	Las Vegas Fire Department	675	210,346.7
Clark County Coroner	1	311.62	Las Vegas Marshals	184	57,338.9
Clark County Family Services	13	4,051.12	Las Vegas Parking Enforcement	38	11,841.7
Clark County Fire Department	551	171,705.23	Las Vegas Water Pollution Facility (WPCF)	2	623.2
Clark County Constable - Henderson	5	1,558.12	Medic West	93	28,981.1
Clark County - Henderson Justice Court Marshals	12	3,739.50	Mercy Air Arizona	4	1,246.5
Clark County IT	9	2,804.62	Mercy Air Nevada	25	7,790.6
Clark County Juvenile Justice	2	623.25	MGM Resorts International	1	311.6
Clark Conunty Office of Emergency Management	16	4,986.00	Moapa Valley Fire District	1	311.6
Community Ambulance	175	54,534.33	North Las Vegas Fire Department	205	63,882.1
CrossRoads of Southern Nevada	1	311.62	North Las Vegas Police Department	929	289,494.9
Elite Medical Center	1	311.62	Nye County IT	169	52,663.7
Diginity Health - St. Rose Micro	5	1,558.12	Nye County IT VHF	395	23,700.0
Guardian Elite Medical Services	26	8,102.24	OptimuMedicine	6	1,869.7
Healthcare America - SHS_ALIANTE ER	1	311.62	Pahrump Valley Fire Department	35	10,906.8
Healthcare America - SHS_LAKES ER	1	311.62	Pahrump Valley Fire Department VHF	24	1,440.0
Healthcare America - SHS_LAS VEGAS ER	1	311.62	Paiute Tribal Police	34	10,595.0
Healthcare America - SHS_SKYE CANYON ER	1	311.62	RTC	1074	334,684.9
Healthcare America - SHS_SUNRISE ER	2	623.25	Southern Nevada Health District	75	23,371.8
Henderson Alternative Sentencing	9	2,804.62	Nevada Gaming Control Board	82	25,553.2
Henderson Attorney	5	1,558.12	United States Air Force - Nellis	3	934.8
Henderson Business License	7	2,181.37	Universal Health Services - Blue Diamond	1	311.6
Henderson Code Enforecement	10	3,116.25	Universal Health Services - Green Valley	1	311.6
Henderson Fire	270	84,138.68	Universal Health Services - Valley Vista	1	311.6
Henderson Jail	75	23,371.86	University Housing & Residential Life-UNLV	24	7,478.8
Henderson Marshals	26	8,102.24	University Parking and Transportation Services	26	8,102.1
			University Police Services	208	64,816.9

- Agency billings for fiscal year 2023 ~
  - Fees shown above are based on current inventory as of the date of this report. These numbers are provided for budgeting purposes only and are subject to change as inventory numbers change.

## **End**

#### **COMMENT BY THE GENERAL PUBLIC:**

#### **NEXT MEETING DATE/ADJOURNED:**

Next meeting is scheduled for June 15, 2022,

Meeting adjourned at 2:09 PM

### Southern Nevada Area Communications Council Agenda Item

Issue: Receive the Administrator's report with the inclusion of the SNACC monthly financial reports and budget variances for the month of March and April 2022 and the system reports for the months of April and May 2022.	<b>Date:</b> June 15, 2022
Petitioner: Jason Manzo, SNACC Administrator	Agenda Item: 2
Recommendation - FOR DISCUSSION: For the Board to receive the Administrator's report with the inclusion of the SNAC budget variances for the month of March and April 2022 and the system reports for 2022.	

#### **Fiscal Impact:**

None

#### Background:

The Board gave the request to the SNACC Administrator on August 2015 to have the SNACC Budget presented in his monthly Administrator's Report. This was requested to inform the Board on the monthly SNACC expenses and to show what is currently available. This will be a reoccurring item.

**Respectfully Submitted:** 

Jason Manzo

**SNACC Administrator** 

#### SNACC ADMINISTRATOR'S REPORT

**JUNE 15, 2022** 

#### **SNACC UPDATES:**

On Wednesday June 8<sup>th</sup> SNACC lost power to our office due to a construction project. We were informed that it would be at least 48 hours, before power would be restored. Because of our ups and generator there was no impact to the SNACC system. I would like to thank Clark County Automotive. I informed our Automotive technicians of the situation. Our generator has enough fuel to run for about 48 hours. Clark County Automotive put us on a rotating schedule and topped our fuel and looked over the generator every 12 hours to ensure no issues would arise during the extended power outage until normal power was restored.

The 2 new AC units have come in for Arden Peak. We placed the order for these units last December. We are scheduled to replace them on Monday June 20<sup>th</sup>.

SNACC has replaced the broken UPS at Elkhorn with a new Eaton UPS on June 1st.

Motorola will be upgrading our system to version 2021.1. Any dispatch center that has an AIS (Archive Interface Server) with a Verint or NICE recorder will need to make sure that their current recording device will be compatible with Motorola Astro version 2021.1. We have 8 dispatch centers with AIS's on our system. If their recorder is not compatible, then they may lose the ability to record radio traffic.

I sent this information to each of the following agencies on May 18<sup>th</sup>, 2021, September 21<sup>st</sup> 2021, and on March 1<sup>st</sup> 2022. SNACC's upgrade will take place from September 26, 2022 thru October 7<sup>th</sup>, 2022.

Site 02-FAO

Site 03- Las Vegas Detention Center

Site 04- Henderson

Site 10- Boulder City

Site 14- National Park Service

Site 16- UNLV

Site 17- Las Vegas Court House

Site 27- North Las Vegas

#### **BUDGET VARIANCES:**

#### March 2022

- 1. Equipment Maintenance Repair \$4443.32 (-44.8) Locus USA warranty DiagnostX
- 2. **Console Maintenance -** \$184,224.62 (-5.9) this is to be reimbursed by the agencies with dispatch centers.
- 3. **Infrastructure Maintenance** \$495,256.36 100% SNACC infrastructure maintenance, that is all of our sites, microwaves and sites belonging to SNACC.
- 4. Electricity \$1,184.87 7.4% City of Boulder, Nevada Power Company
- 5. Vehicle Maintenance \$2,093.41 10.5% March 2022
- 6. **Telecommunications -** \$534.40 5.9% United Teleservice and Telecom
- 7. Print/Reproduction \$310.88 14.8% Konica Minolta

#### April 2022

- 1. Overtime \$1,324.52 17.7%
- **2.** Call Back \$392.04 15.7%
- 3. Cleaning Custodial \$2,450 (-32.4%) Mr. Janitorial cleaning services
- 4. Infrastructure Maintenance \$529,432.52 (-77.1)
- 5. Electricity \$2,460.48 -
- **6. Vehicle Maintenance -** \$4,131.07 20.6% April 2022
- 7. Telecommunications \$1021.42 10.3% United Teleservice and Telecom
- 8. Print/Production \$175.50 8.4% Konica Minolta
- 9. CC Agreement, ERP, IT Support \$10,872.67 County OH, ERP, IT

#### **SYSTEM REPORTS:**

#### April 2022

- 1. Airtime 2,982.9 (hours)
- 2. Push-To-Talks 2,161,734
- 3. Busies 114 (2.66 minutes)

#### May 2022

- 1. Airtime 3088.9 (Hours)
- 2. Push-To-Talks 2,223,068
- 3. Busies 135 (3.42 minutes)

These reports can be found on the SNACC Website: http://SNACConline.com

#### **FUND 2520.000**

#### **Southern Nevada Area Communications Council**

**SNACC BUDGET REPORT: MARCH 2022** 

			MARCH	
CATEGORY	BUDGET	ACTUALS YTD	ACTUALS	% REMAINING
Annual Radio Fees and Buy Ins Billed	2,744,265.00	(2,725,464.80)		
Cost Recovery Billed (Console SUA II and Maintenance)	404,570.00	(415,702.27)	(414,890.17)	
Interest	40,293.00	(7,209.88)	(6,542.58)	
TOTAL REVENUES	3,189,128.00	(3,148,376.95)	(421,432.75)	-
Salaries & Benefits	460,269.00	298,703.76	32,467.61	35.1%
Overtime	7,500.00	2,641.28	326.70	64.8%
Call Back	2,500.00	588.06	-	76.5%
Professional services	1,780.00	96.00	96.00	94.6%
Cleaning/Custodial	2,720.00	1,150.00		57.7%
Equipment maintenance and repair	12,500.00	17,519.32	4,443.32	-40.2%
Console SUAII	230,568.00			100.0%
Console maintenance	174,002.00	184,224.62	184,224.62	-5.9%
Infrastructure SUAII	298,881.00			100.0%
Infrastructure maintenance	495,526.00	495,526.36	495,526.36	0.0%
Site rentals	14,466.00	7,303.02		49.5%
Office space (Water Reclamation)	12,000.00	12,000.00		0.0%
Business liability insurance	23,000.00	31,018.41		-34.9%
Operating and cleaning supplies	705.00	466.25		33.9%
Office supplies	5,900.00	407.84	(74.97)	93.1%
Minor equip (tools, cables)	13,264.00	228.86		98.3%
Computers and supplies	4,500.00	4,254.62		5.5%
Electricity	16,000.00	11,683.30	1,184.87	27.0%
Capital lease interest	68,048.00	36,483.08		46.4%
Capital lease principal	514,533.00	307,307.83		40.3%
Travel/Training	10,000.00			100.0%
Vehicle Maint.	20,000.00	15,013.99	2,093.41	24.9%
Telecommunications	9,881.00	5,410.65	534.40	45.2%
Print/Reproduction	2,100.00	1,524.79	310.88	27.4%
CC Agreement, ERP, IT Support, etc.	47,391.00	32,438.01		31.6%
Capital Projects	2,102,500.00	67,680.00	15,000.00	96.8%
TOTAL EXPENSES	4,550,534.00	1,533,670.05	736,133.20	66.3%
Appropriated EFB	2,240,953.00			100.0%

Beginning FY fund balance 2,421,044
Fund balance as of report date: 5,968,796
Estimated FY22 ending fund balance: 4,607,390

#### **SNACC BUDGET REPORT: APRIL 2022**

			APRIL	
CATEGORY	BUDGET	ACTUALS YTD	ACTUALS	% REMAINING
Annual Radio Fees and Buy Ins Billed	2,744,265.00	(2,725,661.36)	(196.56)	
Cost Recovery Billed (Console SUA Iland Maintenar	404,570.00	(415,702.27)		
Interest	40,293.00	(12,362.60)	(5,152.72)	
TOTAL REVENUES	3,189,128.00	(3,153,726.23)	(5,349.28)	
Salaries & Benefits	460,269.00	330,265.98	31,562.22	28.2%
Overtime	7,500.00	3,965.80	1,324.52	47.1%
Call Back	2,500.00	980.10	392.04	60.8%
Professional services	1,780.00	96.00		94.6%
Cleaning/Custodial	2,720.00	3,600.00	2,450.00	-32.4%
Equipment maintenance and repair	12,500.00	17,519.32		-40.2%
Console SUAII	230,568.00			100.0%
Console maintenance	174,002.00	184,224.62		-5.9%
Infrastructure SUAII	298,881.00	529,432.52	529,432.52	-77.1%
Infrastructure maintenance	495,526.00	495,526.36		0.0%
Site rentals	14,466.00	7,303.02		49.5%
Office space (Water Reclamation)	12,000.00	12,000.00		0.0%
Business liability insurance	23,000.00	31,018.41		-34.9%
Operating and cleaning supplies	705.00	466.25		33.9%
Office supplies	5,900.00	407.84		93.1%
Minor equip (tools, cables)	13,264.00	228.86		98.3%
Computers and supplies	4,500.00	4,254.62		5.5%
Electricity	16,000.00	14,143.78	2,460.48	11.6%
Capital lease interest	68,048.00	36,483.08		46.4%
Capital lease principal	514,533.00	307,307.83		40.3%
Travel/Training	10,000.00			100.0%
Vehicle Maint.	20,000.00	19,145.06	4,131.07	4.3%
Telecommunications	9,881.00	6,432.07	1,021.42	34.9%
Print/Reproduction	2,100.00	1,700.29	175.50	19.0%
CC Agreement, ERP, IT Support, etc.	47,391.00	43,490.68	10,872.67	8.2%
Capital Projects	2,102,500.00	67,500.00		96.8%
TOTAL EXPENSES	4,550,534.00	2,117,492.49	583,822.44	53.5%

Appropriated EFB 2,240,953.00 100.0%

Beginning FY fund balance 2,421,044
Fund balance as of report date: 5,414,974
Estimated FY22 ending fund balance: 4,053,568

### Southern Nevada Area Communications Council Agenda Item

ssue: Approve and authorize the administrator to sign the Aviat (option 1 or two or take action as appropriate.	Quote for Date: June 15, 2022
Petitioner: Jason Manzo, SNACC Administrator	Agenda Item: 3
Recommendation - FOR POSSIBLE ACTION: Approve and authorize the administrator to sign the Aviat Quote fo appropriate.	or Option 1 or Option 2 or take action as

#### **Fiscal Impact:**

OPTION 1: \$1,291,651 OPTION 2: \$1,171,566

#### Background:

The newest SNACC Microwaves are about fifteen plus years old and the older microwaves are close to twenty, all of which are at end of life for support.

**Respectfully Submitted:** 

Jason Manzo

**SNACC Administrator** 

Aviat U.S., Inc.

860 N. McCarthy Blvd., Suite 200 Milpitas, CA 95035 Aviat

Company SNACC - CLARK COUNTY - USA

Attn Jason Manzo

Communications Network Analyst

6000 E Rochelle Ave Las Vegas NV 89122

Office: 702-455-7390

#### SNACC MW replacement: Option 1 - 8 hops

#### Aviat Networks Confidential and Proprietary Information

Project Number : NA181003-55697 Project Date : 4/12/2022

Issue No : D
Territory Manager : Ali Hirsa
System Engineer : Girindra Lone
Sales Engineer : Sherry Lu

Terms : NET 30, pricing per State of NV RFP 3234

Delivery : 8-10 weeks for equipment ARO, 4-6 weeks for installation

Expiration : 90 days Currency : USD

Freight : Prepaid & Bill, Destination

				***											
	EQUIPMENT LIST DESCRIPTION	PRODUCT CODE PART NUMBER	UNIT	SYSTI	PRICE		QTY	PRICE	Arder QTY	PRICE	Manda QTY	PRICE	Sun	PRICE	QTY
ПЕМ	DESCRIPTION	PART NOMBER	PRICE	QIT	PRICE		QIT	PRICE	QII	PRICE	Q11	PRICE	uii	PRICE	QIT
1.000	Eclipse Radios														
1.001					1										
1 002	IRU600v4 RFSEC ASSY MHSB RX UNEQUAL SPLIT, IF TR SP-HP 5.8-U6 GHz, Filter-non ACCP	EV206-AMT-AM0-410000	\$12,738	8	\$101,904		2	\$25,476	3	\$38,214	1	\$12,738			
1.002	IRU600v4 RFSEC ASSY MHSB RX UNEQUAL SPLIT, IF TR EHP L6	27200-71111-71110-410000	<b>\$12,750</b>	· ·	\$101,504		-	020,470		\$50,214		012,700			
1.003	GHz, Filter-non ACCP	EV206-AEL-AE0-410000	\$17,967	2	\$35,934										
	IRU600v4 RFSEC ASSY MHSB RX UNEQUAL SPLIT, IF TR SP-HP														
1.004	10.5-11 GHz, Filter-non ACCP	EV206-AMC-AM0-410000	\$12,738	2	\$25,476										
1.005	IRU600v4 RFSEC ASSY MHSB RX UNEQUAL SPLIT, IF TR EHP 11 GHz, Filter-non ACCP	EV206-AEB-AE0-410000	\$17,967	4	\$71,868						1	\$17,967	2	\$35,934	
4.000	W0 5-1														
11 11 11 11 11 11	WG Extension Kit 6 GHZ														
1.007	1st Shelf WG EXT KIT IRU600 V3 6GHZ SH1-PO1, 1+0/MHSB 1ANT,														
1.008	RPTR(MAIN)	179-530135-AA101	\$343	5	\$1,715		1	\$343	1	\$343	1	\$343			
1,000	WG EXT KIT IRU600 V3 6GHZ SH2-PO2, 1+0/MHSB 1ANT, RPTR(MAIN)	179-530135-BB201	\$1,119	3	\$3,357		1	\$1,119	,	\$1,119					
1.005	DE HAIMAIN)	173-330133-88201	\$1,113	3	33,337		- 1	31,113		31,113					
	WG EXT KIT IRU600 V3 6GHZ SH3-PO3, 1+0/MHSB 1ANT,														
1.010	RPTR(MAIN) WG EXT KIT IRU600 V3 6GHZ SH4-PO4, 1+0/MHSB 1ANT,	179-530135-CC301	\$2,200	1	\$2,200				1	\$2,200					
1,011	RPTR(MAIN)	179-530135-DD401	\$1,461												
	WG Extension Kit 11 GHZ	179-530135-BB203	\$1,803												
	WG EXT KIT IRU600 V3 11GHZ SH1-PO1, 1+0/MHSB 1ANT.														
1.013	RPTR(MAIN)	179-530135-AA121	\$506	3	\$1.518								1	\$506	
1.014	WG EXT KIT IRU600 V3 11GHZ SH2-PO2, 1+0/MHSB 1ANT, RPTR(MAIN)	179-530135-BB221	\$1,028	3	\$3,084		1	\$1,028						\$1,028	
1.014	WG EXT KIT IRU600 V3 11GHZ SH3-PO3, 1+0/MHSB 1ANT,	179-330133-66221	\$1,026	3	33,004		1	31,026						31,020	
1.015	RPTR(MAIN)	179-530135-CC321	\$1,321	2	\$2.642						1	\$1.321			
4.040	WG EXT KIT IRU600 V3 11GHZ SH4-PO4, 1+0/MHSB 1ANT.	470 520425 DD424	*** ***												
	RPTR(MAIN) EXT BRKT KIT IRU600 2 SHELF (179-530089-001_REV002)	179-530135-DD421 179-530089-001	\$2,003 \$190	2	\$380								1	\$190	
	EXT BRKT KIT IRU600 3 SHELF (179-530089-002_REV002)	179-530089-002	\$380	2	\$760		1	\$380			1	\$380		2100	
1.019	EXT BRKT KIT IRU600 4 SHELF (179-530089-003_REV002)	179-530089-003	\$569	2	\$1,138				1	\$569					
2.000	Eclipse Indoor Unit and Data Cards														
2.001	INUe ECLIPSE, INTELLIGENT NODE UNIT 2RU, INC IDCE, FAN, NCCV2.											- 1			
2,002	HIGH OUTPUT	EXX-000-204	\$1,778	16	\$28,448		2	\$3,556	3	\$5,334	2	\$3,556	2	\$3,556	
	NODE PROTECTION CARD, HIGH OUTPUT	EXS-002	\$232	16	\$3,712		2	\$464	3	\$696	2	\$464	2	\$464	y:
2.004	KIT BRACKET 2RU COMMON BREAKERS & BLANKING PLUGS PER RACK PER	179-530064-001	\$11	16	\$176		2	\$22	3	\$33	2	\$22	2	\$22	97
2.005	DRAWING	COMMON-BREAKERS-RACK	\$129	8	\$1,032		1	\$129	1	\$129	1	\$129	1	\$129	
	SIPQ-CABLES	SIPQ-CABLES	\$3	8	\$24		1	\$3	1	\$3	1	\$3	1	\$3	
	Aux Card and Cables AUX, ALARM I/O CARD	EXA-001	\$340	8	\$2,720		1	\$340	1	\$340	1	\$340	1	\$340	
	M66 Punch-Down Block Kit	179-530132-001	\$42	8	\$336	İ	1	\$42	1	\$42	1	\$42	1	\$42	
2.010	CABLE, ALARM I/O HD15 TO WIREWRAP, 15M (037-579470-015V_RE	037-579470-015	\$123	8	\$984		1	\$123	1	\$123	1	\$123	1	\$123	
	RADIO CARD			200-2017							Val.			15000000000	
2.012	RAC 70, QPSK-4096QAM, NO XPIC, ACM	EXR-700-002	\$652	32	\$20,864		4	\$2,608	6	\$3,912	4	\$2,608	4	\$2.608	×
2.013	DAC GE3 GIGABIT ETHERNET SWITCH CARD														
	DAC GE3 GIGABIT ETHERNET SWITCH CARD	EXD-181-002	\$735	32	\$23,520		4	\$2,940	6	\$4,410	4	\$2,940	4	\$2,940	10
2.015	CABLE PROT / BRIDGEING GE3, DIRECT FIT, 1M	037-579461-001	\$91	12	\$1,092		1	\$91	3	\$273	1	\$91	1	\$91	
2,016	XCVR ELECTRICAL SFP, GE3 ONLY, W/LOS 3V3 COM (ABCU- 5730RZ)	083-845434-001	\$135	24	\$3,240		2	\$270	6	\$810	2	\$270	2	\$270	
						I				00.00	1000		13 <del>73</del>		

	EQUIPMENT LIST	PRODUCT CODE	UNIT	SYSTE			NACC HQ		en Peak		lay Bay		oast	
ITEM	DESCRIPTION	PART NUMBER	PRICE	QTY	PRICE	QTY	PRICE	QTY	PRICE	QTY	PRICE	QTY	PRICE	QTY
2.021	NODE SW LICENSE, 200 Mbps TOTAL RADIO PAYLOAD CAPACITY	EZE-08004	\$1,634	16	\$26.144		2 \$3,268	3	\$4,902	2	\$3,268	2	\$3,268	0
2.021	NODE SW LICENSE, 400 Mbps TOTAL RADIO PAYLOAD CAPACITY	EZE-08006	\$3,268											
	NODE SW LICENSE, 800 Mbps TOTAL RADIO PAYLOAD CAPACITY ADAPTIVE MODULATION NODAL RAC60/6X/60E/6XE	EZE-08007 EZF-02	\$3,922 \$490	16	\$7.840		2 \$980	3	\$1,470	2	\$980	2	\$980	
	SECURE MANGEMENT, INU, inc SNMPV3 NODAL	EZF-03	\$392	16	\$6,272	3	2 \$784	3	\$1,176	2	\$784	2	\$784	
	IRU600 600 Nodal High power option 4 x RFU	EZF-64	\$3,922											
2.021	IRU600 600 Nodal High power option 2 x RFU	EZF-62	\$1,961	4	\$7.844			2	\$3,922					
2.021	LAYER 1 LINK AGGREGATION NODAL ON DAC GE / DAC GE3	EZF-01	\$147											
2.021	CUSTOM WAVEGUIDE KIT COMPLEXITY 3	WGKIT-3000	\$565	6	\$3,390		2 \$1,130	2	\$1,130					
	Multiplex													
3,000	Provision NMS _ Monitoring system													
3.001	ProVision Windows Server, up to 1,000 SLV, Entry Level, Tower MAIN ProVision Windows Server, up to 1,000 SLV, Entry Level, Tower Stand	614-100140-001	\$3,357	1	\$3,357		1 \$3,357	1						
3,002	By KVM CONSOLE T1700-LED 17.3" WIDE 60HZ HD MONITOR	614-100140-001	\$3.357	1	\$3.357		1 \$3,357							
3,003	(A6906293) MOUNTING BRACKET, 2-POST RACK MOUNT BRACKET FOR 614-	LOC-A6906293	\$2,452	2	\$4,904		2 \$4,904	1						
	100137-001 KVM CONSOLE (B019-000) USB Optical Mouse + local spec keyboard	614-100137-002 614-190015-001	\$117 \$49	2 2	\$234 \$98		2 \$234 2 \$98							
3.006	Software and License	\$14000 E. S. S. Wallands, A. A. Y. Salado,			5057050	- 1		1						
3.007 3.008	PROVISION SOLUTION PACK - 50 NODES STANDBY SERVER - PV SOLUTION PACK - 100 NODES	614-225061-002 614-625012-001	\$6,863 \$1,634	1	\$6,863 \$1,634		1 \$6,863 1 \$1,634							
3.009	Cat 6 Standard Cable, 5M PROVISION GDS PACKAGE, ELTEK SMARTPACK, FLATPACK	614-196503-001	\$18											
3.010	POWER SYSTEMS, V1.8	614-700070-001	\$1,634	1	\$1.634		1 \$1,634							
	Spares			-										
4.001 4.002	RFU, EHP, IRU600v4 IF TR. 11 GHz, 10700-11700 MHz RFU, EHP, IRU600v4 IF TR, L6 GHz, 5925-6425 MHz	ERE-ABB-401 ERE-AL6-401	\$7,517 \$7,517	1	\$7.517 \$7.517									
	RFU, MP, IRU600v4 IF TR, 10.5-11 GHz, 10500-11700 MHz RFU, MP, IRU600v4 IF TR, 5.8-L6-U6 GHz, 5725-7125 MHz	ERM-ACC-401 ERM-ATT-401	\$4,902 \$4,902	1	\$4,902 \$4,902									
4.005			Name to Area t		7,000									
4.006	HIGH OUTPUT	EXX-000-204	\$1,778	1	\$1,778									
	NODE PROTECTION CARD, HIGH OUTPUT KIT BRACKET 2RU	EXS-002 179-530064-001	\$232 \$24	1	\$232 \$24									
4.009	COMMON BREAKERS & BLANKING PLUGS PER RACK PER DRAWING	COMMON-BREAKERS-RACK	\$39											
100000000000000000000000000000000000000	SIPO-CABLES Aux Card and Cables	SIPQ-CABLES	\$1											
4.012	AUX, ALARM I/O CARD	EXA-001	\$340	1	\$340									
	M66 Punch-Down Block Kit CABLE, ALARM I/O HD15 TO WIREWRAP, 15M (037-579470-015V RE	179-530132-001 037-579470-015	\$42 \$123											
	RADIO CARD													
	RAC 70, QPSK-4096QAM, NO XPIC, ACM	EXR-700-002	\$652	1	\$652									
13796 500	DAC GE3 GIGABIT ETHERNET SWITCH CARD DAC GE3 GIGABIT ETHERNET SWITCH CARD	EXD-181-002	\$735	1	\$735									
4.019	CABLE PROT / BRIDGEING GE3, DIRECT FIT, 1M	037-579461-001	\$91		\$755									
4.020	XCVR ELECTRICAL SFP, GE3 ONLY, W/LOS 3V3 COM (ABCU- 5730RZ)	083-845434-001	\$135	1	\$135									
4 021	GIG ETH SFP, OPT MMF 850nm LC 1000BASE-SX, <550M (LX1021CDR-AAN)	079-422662-001	\$46											
4.022	T1 loop protection card													
	NETWORK CONVERGENCE MODULE (NCM) DS1 CARD AND ACCESSORIES	EXD-400-002	\$980	1	\$980									
	ECLIPSE, DAC 16XE1/DS1 V3, PROTECTABLE	EXD-161-002	\$258	1	\$258									
	2x HDR-E50 TO Y JOIN TO 24AWG FREE END 3.5M OC-3 -M CARD AND ACCESSORIES	037-579408-003	\$341											
4.028	DAC 1550M, 1XSTM1/OC3 MUXED TO 63E1/84DS1, SM OPTICAL, S- 1.1, SR, 15KM OR LESS, LC	EXD-156-001	\$2,248	1	\$2,248									
4.029	SIMPLEX 3M SM LC TO LC (037-579131-001_REV004)	037-579131-001	\$10			I		l						

PRINCE   COLUMN   PRINCE   C						1	г									
Part		EQUIPMENT LIST	PRODUCT CODE	UNIT	SYST	FM		SNACC	но	Arder	Peak	Manda	lav Bav	Sun	coast	
South   Sout	ITEM						ļ									QTY
Soop   Part   Annual Confess And Displaced Research   1   1.00		PACK ASSV CRATED 7' CHATSWORTH ALLIMINUM 1 RREAKER														
Section   Sect	5.001	PNL W/10 BLANK COVERS AND NO BREAKERS	179-530307-0113	\$1,787	10	\$17.870		1	\$1,787	2	\$3,574	1	\$1,787	1	\$1,787	
DOCUMENT	5,002		179-530119-001	\$717	10	\$7,170		1	\$717	2	\$1,434	1	\$717	1	\$717	
\$ 500 COUNTS. SPECIAL SERVICES FOR PRINCIPLE SERVICES SPECIAL NO COUNTS. SPECIAL SERVICES FOR PRINCIPLE SERVICES F	5.003		COMMON-BREAKERS-RACK	\$86	10	\$860		1	586	2	\$172	1	\$86	1	\$86	
COSSISSIONACT 1304-AMOS 1801 CARD WARRENS 19 OF AMOS 11 100 1 101 10 101 10 101 10 101 10 10		SIPQ-CABLES						1			100	32		1		
Committees   American   Committees   Commi		CROSSCONNECT 1-32A AND 1-32B, REAR WIREWRAP, 19" OR														
EMPTY CLASSIFE, FLATANCE STREETE PROVIDED STREETE	5,005	23"W, 4 RU, 8"D, -48VDC, RED LED (DI-R2GU1)	COM-DI-R2GU1	\$1,816	9	\$16,344		2	\$3,632	1	\$1,816	1	\$1,816	1	\$1,816	
CONTROLLER, 4MOD. ERRAN ACCESS, 2008 MAX. LYDIOS ADD POSITIONES, MOT RELIGIOUS STATEMY SERVICES AND SOUT SOUTH STATEMY SERVICES AND SOUT SOUTH STATEMY SERVICES AND SOUT SOUTH STATEMY SERVICES AND SOUTH STATEMY SERVICES AND SOUTH STATEMY SERVICES AND SOUT SOUTH STATEMY SERVICES AND SOUTH SERVICES A	6,000															
POSTRIBLES ALONG BERGERS AND THE SERVICE AND TO GATE   SAMPHINGS CONTINUES AND PROPERTY OF THE SERVICE AND T		CONTROLLER, -48VDC, REAR ACCESS, 200 AMP MAX, LVBD &														
SAMPLE AND COLUMN 14   1   500   1																
6.00  TANALAND COMPUTATION SAMP   1,000   1,000   1,000   1,000   1,000	6.001		ELT-FPSK59I-ANL-VC	\$1,491	8	\$11,928		1	\$1,491	1	\$1,491	1	\$1,491	1	\$1,491	
SPUTL 4 NOD CURPUT, 1809 WATE, 37 8 APP 92 20 VAC   SPUTL AND PART OF 1919 APP 191	6.002	STANDARD CONFIGURATION, SNMP	ELT-SPS-FPS200-A01-VV	\$695	8	\$5,560		1	\$695	1	\$695	1	\$695	1	\$695	
## STATE OF SELAM PARKE FORE FORE EMPT-SECT STITLED SOLD  ***CORRESPONDER*** OF PETE***  ***CORRESPONDER*** OF PETE***  **TOTAL TATABASE STATEMAN SOLD STITLED STATEMAN SOLD STATEMAN SO																
CABLE JAJANU LOLDE FOR PATTACKS PROVER SYSTEM SOLD  FALTENCE SHIPTED FORWER SYSTEM SPOLD HT FOR FALTENCE SHIPTED FOR FALTEN														277		
THERMAL PROBLET IN ATTEMY THERMAL PROBLET FOR PLATE TRACE STORM PROBLET FOR PLATE TRACES STORM PROBLET MOTES AND PLUG-IN DULCE MIDTED		CABLE, ALARM CABLE FOR FLATPACK S POWER SYSTEM, SOLID	CONTROL MAN AND AND AND AND AND AND AND AND AND A			200		4	7000	1	(2.1111					
6.007 Include Realizer 30 AUP PULCHIN BULLET. MDTTPP CREBORAD 6.007 Include Realizer 30 AUP PULCHIN BULLET. MDTTPP CREBORAD 6.007 Include Realizer 80 AUP PULCHIN BULLET. MDTTPP CREBORAD 6.007 Include Realizer 80 AUP PULCHIN BULLET. MDTTPP CREBORAD 6.007 Include Realizer 80 AUP PULCHIN BULLET. MDTTPP CREBORAD 6.007 Include Realizer 80 AUP PULCHIN BULLET. MDTTPP CREBORAD 6.007 Include Realizer 80 AUP PULCHIN BULLET. MDTTPP CREBORAD 6.007 Include Realizer 80 AUP PULCHIN BULLET. MDTTPP CREBORAD 6.007 Include Realizer 80 AUP PULCHIN BULLET. MDTTPP CREBORAD 6.007 Include Realizer 80 AUP PULCHIN BULLET. MDTTPP CREBORAD 6.007 Include Realizer 80 AUP PULCHIN BULLET. MDTTPP CREBORAD 6.007 Include Realizer 80 AUP PULCHIN BULLET. MDTTPP CREBORAD 6.007 Include Realizer 80 AUP PULCHIN BULLET. MDTTPP CREBORAD 6.007 Include Realizer 80 AUP PULCHIN BULLET. MDTTPP CREBORAD 6.007 Include Realizer 80 AUP PULCHIN BULLET. MDTTPP CREBORAD 6.007 Include Realizer 80 AUP PULCHIN BULLET. MDTTPP CREBORAD 6.007 Include Realizer 80 AUP PULCHIN BULLET. MDTTPP CREBORAD 6.007 Include Realizer 80 AUP PULCHIN BULLET. MDTTPP SINCE 8	6,005	THERMAL PROBE KIT, BATTERY THERMAL PROBE KIT FOR	EL1-308E33743400	\$145	0	31,132			3149	1.8.0	3149		\$149	13.50	3149	
GOOD   PULLER FOR BULET BREAKER   SAME   16   5736   2   592   2	6,006		ELT-340522	\$96	8	\$768		1	\$96	1	\$96	1	\$96	1	\$96	
LINE CORE, INDIVIDUAL AC INSULT OF PLATHACK S POWER SYSTEM, AM SHELD CORECTOR, UNITERINANE PLACE SOURCE (LAZID)																
CONSECTOR. 20 FEET LENGTH. 10 AND WINE CAUGE (LA2010-L) 6.000 CIRCUIT BREAKER. 80 AMP PULD-N BULLET. MD-TRP (CEB800M) 6.011 6.021 6.021 6.021 6.021 6.021 6.022 AND LOUGE HEFE LENGTH. 10 AND CUPUT-SMALL 19 FEARS 6.022 (HARTEL 1-780-1) 11 12019-02A - HIVDC OUTPUT-SMALL 19 FEARS 6.022 (HARTEL 1-780-1) 11 12019-02A - HIVDC OUTPUT-SMALL 19 FEARS 6.022 (HARTEL 1-780-1) 11 12019-02A - HIVDC OUTPUT-SMALL 19 FEARS 6.022 (HARTEL 1-780-1) 11 12019-02A - HIVDC OUTPUT-SMALL 19 FEARS 6.022 (HARTEL 1-780-1) 11 12019-02A - HIVDC OUTPUT-SMALL 19 FEARS 6.022 (HARTEL 1-780-1) 11 12019-02A - HIVDC OUTPUT-SMALL 19 FEARS 6.022 (HARTEL 1-780-1) 11 12019-02A - HIVDC OUTPUT-SMALL 19 FEARS 6.022 (HARTEL 1-780-1) 11 12019-02A - HIVDC OUTPUT-SMALL 19 FEARS FOR EAST FO	0,000	LINE CORD, INDIVIDUAL AC INPUT FOR FLATPACK S POWER	22. 55. 52.(5)	• 10				-		-	002	-	402	-	552	
GOLD   CRICUIT BREAKER, R0 AMP PLUGIN BULLET, MD-TRIP (CBB000M)   538   8   5304   1   538   1		CONNECTOR, 20 FEET LENGTH, 10 AWG WIRE GAUGE (LA2010-	eta Administratura (un 1920 et Administratura (III	62753144655												
6.011 6.022 Battery GELESTELL TRAX,111-2018-02A-38/0C OUTPUT.304M-10 YEARS 6.022 INSTELL TRAX,111-2018-02A-38/0C OUTPUT.304M-10 YEARS 7.003 INSTELL TRAX,111-2018-02A-38/0C OUTPUT.304M-10 YEARS 7.004 Antenna  ANTENNA PART NUMBER RODGAH (17)-2" W x 21,12" D). #6 CABLE 7.005 INSTELL TRAX,111-2018-02A-38/0C OUTPUT.304M-10 YEARS 710-00	6.009	UU)	ELT-LA2010-UU	\$112	16	\$1,792		2	\$224	2	\$224	2	\$224	2	\$224	
6.022 Battery BATTERY SYSTEM VRIA RACK MOUNTING. 19 RICHES WIDTHA CELLS, TEL. 1T PAY, 111-2019-02A-1490C OUTPUT-300AH, 10 YEARS, 032 AND MANUAL 211-20 TEPH, FROM TACCESS, COUPPED WITH 2 TRAYS PART MURBER RD0231 (71-27 vs. 21-12* 0), BO CABLE 034 TEPH SYSTEM VRIA, A CELLS TEL. 12-180F, 480PC OUTPUT, 190AH, 10 YEARS, 75 LBS, RACK MOUNTING, 19* WIDTH 16 RU MINIMUM, 21-12* DEPTH, FROM TACCESS, COUPPED WITH 2 TRAYS PART MURBER RD0231 (71-27 vs. 21-12* 0), BO CABLE 04-24 AND LOUS GHRELT-FROM TACCESS, EXDUPPED WITH 2 TRAYS PART MURBER RD0231 (71-27 vs. 21-12* 0), BO CABLE 05-25 AND LOUS GHRELT-FROM TACCESS, EXDUPPED WITH 2 TRAYS PART MURBER RD0231 (71-27 vs. 21-12* 0), BO CABLE 05-26 AND LOUS GHRELT-FROM TACCESS, EXDUPPED WITH 2 TRAYS PART MURBER RD0231 (71-27 vs. 21-12* 0), BO CABLE 05-26 AND LOUS GHRELT-FROM TACCESS, EXDUPPED WITH 2 TRAYS PART MURBER RD0231 (71-27 vs. 21-12* 0), BO CABLE 05-26 AND LOUS GHRELT-FROM TACCESS, EXDUPPED WITH 2 TRAYS PART MURBER RD0231 (71-27 vs. 21-12* 0), BO CABLE 05-26 AND LOUS GHRELT-FROM TACCESS, EXDUPPED WITH 2 TRAYS PART MURBER RD0231 (71-27 vs. 21-12* 0), BO CABLE 05-26 AND		CIRCUIT BREAKER, 80 AMP PLUG-IN BULLET, MID-TRIP (CBB080M)	ELT-CBB080M	\$38	8	\$304		1	\$38	1	\$38	1	\$38	1	\$38	
CELLS.TEL.1 TRAY, 11-2019-02A_AINDC CUITPUT-SOAN, 19 YEARS 6.02 IMMETIL-209-19 N. LALA A CELLS TEL.1 TRAY, 11-2019-02A_AINDC CUITPUT-SOAN, 19 YEARS 6.02 IMMETIL-209-19 N. LALA A CELLS TEL.1 TANK, 11-2019-02A_AINDC CUITPUT-SOAN, 19 YEARS 6.02 IMMETIL-209-19 N. LALA A CELLS TEL.2 TANK, 19 YEARS 6.02 IMMETIL-209-19 N. LALA A CELLS TEL.209-19 SC ADBLE 7.02 IMMETIL-209-19 N. LALA A CELLS TEL.209-19 SC ADBLE 8.02 IMMETIL-209-19 N. LALA A CELLS TEL.209-19 SC ADBLE 8.02 IMMETIL-209-19 N. LALA A CELLS TEL.209-19 N. CORDER 9. LALA A																
BATTERY SYSTEM. VRIA. 4. GELLS TELL2-1807_4-80/DC OUTPUT, 180AH, 10 YEARS, 5751EB, RACK MOUNTING, 19* WIDTH 16 TU MINMAM, 21.12* DEPTH, FROMT ACCESS, EQUIPPED WITH 2 100 YEARS, 10 DIS, RACK MOUNTING, 19* WIDTH 16 TU MINMAM, 21.12* DEPTH, FROMT ACCESS, EQUIPPED WITH 2 120 YEARS, 10 DIS, RACK MOUNTING, 19* WIDTH 16 TU MINMAM, 21.12* DEPTH, FROMT ACCESS, EQUIPPED WITH 2 120 YEARS, 10 DIS, RACK MOUNTING, 19* WIDTH 16 TU MINMAM, 21.12* DEPTH, FROMT ACCESS, EQUIPPED WITH 2 120 YEARS, 10 DIS, RACK MOUNTING, 19* WIDTH 16 TU MINMAM, 21.12* DEPTH, FROMT ACCESS, EQUIPPED WITH 2 120 YEARS, 10 DIS, RACK MOUNTING, 19* WIDTH 16 TU MINMAM, 21.12* DEPTH, FROMT ACCESS, EQUIPPED WITH 2 120 YEARS, 10 DIS, RACK MOUNTING, 19* WIDTH 16 TU MINMAM, 21.12* DEPTH, FROMT ACCESS, EQUIPPED WITH 2 120 YEARS, 10 DIS, RACK MOUNTING, 19* WIDTH 16 TU MINMAM, 21.12* DEPTH, FROMT ACCESS, EQUIPPED WITH 2 120 YEARS, 10 DIS, RACK MOUNTING, 19* WIDTH 16 TU MINMAM, 21.12* DEPTH, FROMT ACCESS, EQUIPPED WITH 2 120 YEARS, 10 DIS, RACK MOUNTING, 19* WIDTH 16 TU MINMAM, 21.12* DEPTH, FROMT ACCESS, EQUIPPED WITH 2 120 YEARS, 10 DIS, RACK MOUNTING, 19* WIDTH 16 TU MINMAM, 21.12* DEPTH, FROMT ACCESS, EQUIPPED WITH 2 120 YEARS, 10 DIS, RACK MOUNTING, 19* WIDTH 16 TU MINMAM, 21.12* DEPTH, FROMT ACCESS, EQUIPPED WITH 2 120 YEARS, 10 DIS, RACK MOUNTING, 19* WIDTH 16 TU MINMAM, 21.12* DEPTH, FROMT ACCESS, EQUIPPED WITH 2 120 YEARS, 10 DIS, RACK MOUNTING, 19* WIDTH 16 TU MINMAM, 21.12* DEPTH, 10 DIS, RACK MOUNTING, 10 DIS, R		CELLS,TEL,1 TRAY,111-2019-02A,-48VDC OUTPUT,90AH,10 YEARS														
MINIMUM_21.12**OEPTH_FRONZ31 (17.12**W x21.12**) Bit CASE   GOZ3   AROLUGS (HATELT-180F-19)   BO CASE   COT-HARTELT-180F-19   S4.216   5 \$21.080   1 \$4.216   1 \$4.	6.023		CDT-H48TEL12-90-19	\$2.228	1	\$2.228									1	
TRAYS PART NUMBER R002341 (17.12" W x 21.12" D) #6 CABLE																
BATTERY SYSTEM, VRILA, 2 CELLS TEL122:10F, 48VDC OUTPUT, 210A, 10 YEARS, 710 LBS, RACK MOUNTING, 19" WIDTH, 16 RU MININUM, 2.1:2" DEPTH, FRONT ACCESS, EOUBPED WITH 2 TRAYS PART NUMBER RO0234 1(7.12" W x 2.1:12" D), #8 CABLE 6.025 AND LUGS (H8TEL122:10F-19) \$4.445 1 \$4.445 1 \$5.4.445 1	0.004	TRAYS PART NUMBER RD02341 (17,12" W x 21.12" D), #6 CABLE	ODT 1140TEL 10 100E 10	***	-	£24.000			54.046			2	** ***		04.046	
MINIMUM_21:27 DEPTH_FRONT ACCESS, EQUIPPED WITH 2 TRAYS PART NUMBER RR00234 (17.12" W x 21.12" D), #6 CABLE 6.025 AND LUGS (H48TEL12-210F-19)  7.000 Antenna, Waveguides  7.001 Antenna  ANTENNA, LGUG GHZ, 1.8 M (6FT), PRIMELINE, UHP, HIGH XPD, REMOTE MOUNT, PARABOLIC (STD: WHITE), 6.925-8.875 GHZ, RADOMIE (STD: WHITE), 6.925-8.875 GHZ, RES-UXAG-WS9XC FRS-916422  ST24  LEG MOUNT, UP TO 6 FEET ANTENNA DIAMETER, UP TO 8 INCHES 179-530147-001  ST24  TO AND EPTH-FRONT ACCESS, EQUIPPED WITH 2 TAKES AND LUGS GHZ, 1.8 M (6FT), PRIMELINE, UHP, HIGH XPD, RES-UXAG-WS9XC RES-UXAG-WS	6.024	BATTERY SYSTEM, VRLA , 4 CELLS TEL12-210F, -48VDC OUTPUT,	CD1-H481EL12-180F-19	\$4,216	5	\$21,080		1	54,216			1	\$4,216	1	54,216	
TRAYS PART NUMBER R002341 (17.12" W x 21.12" D). #6 CABLE 6.0225 AND LUGS (HARE L12-210F-19)  TAND LUGS (HARE L12-210F-19)  Antenna, Waveguides  Antenna, Waveguides  Antenna, L6.06 GHZ, 1.8 M (6FT), PRIMELINE, UHP, HIGH XPD, REMOTE MOUNT, PARABOLIC (STD. WHITE), 5925-8.875 GHZ, RA, MODINE (STD. WHITE), 6925-8.875 GHZ, RA,																
7.001 Antenna Waveguides  7.001 Antenna ANTENNA L6/U6 GHZ, 1.8 M (6FT), PRIMELINE, UHP, HIGH XPD, REMOTE MOUNT, PARABOLIC (STD. WHITE), 5:925-8 375 GHZ. RADOME (STD. WHITE), CRISTO, S25-8 375 GHZ. RES-UXAG-W59XC S4,568 10 \$45,680 2 \$9,136 3 \$13,704 1 \$4,558 7,7005 RES-UXAG-W59XC	6.025	TRAYS PART NUMBER RD02341 (17,12" W x 21.12" D). #6 CABLE	CDT-H48TFI 12-210F-19	\$4.445	1	\$4.445				1	\$4.445					
Antenna  Ant			OD1-11401EE12-2101-13	\$4,445		34,443					34,443					
ANTENNA, L6/UG GHZ, 1,8 M (6FT), PRIMELINE, UHP, HIGH XPD. REMOTE MOUNT, PARABOLIC (STD: WHITE), 5/2925-8,875 GHZ. RADOME (STD: WHITE), CPR137G DUAL POL., CLASS III/FCC101A, 7.002 SINGLE PIECC REPLECTOR, 200 KMPH, 190 KMPH (UXA6-W59BC) 7.003 TERMINATION LOAD, WAVEGUIDE. GO GHZ, CPR137 (915422) LEG MOUNT, UP TO 6 FEET ANTENNA DIMMETER, UP TO 8 INCHES 7.004 DEPTHIAMETER LEG (MTC3513LMS) 7.005 SWAY BAR FOR PARABOLIC, ANTENNA, 6 FEET (SMA-SK-6) 7.005 WG and accessories 6 GHZ WAVEGUIDE. STANDARD ELLIPTICAL, 5.9 – 7.125 GHZ, 23.1 7.007 RETURN LOSS (E65) 7.007 RETURN LOSS (E65) 7.008 Hardware-KIT (One kit per 100ft) (HARDWARE-KIT-WG) RFS-HARDWARE-KIT-WG) WAVEGUIDE BOST FOR EWG3, 4 In (WG84-63) WAVEGUIDE CUSHION HANGER, KITS, EWG3, 2-HOLE (BAG OF 5 7.011 KITS) (SREW#932-K) AND-WGBIDE CUSHION HANGER, KITS, EWG3, 2-HOLE (BAG OF 5 7.012 Antenna 11 GHz ANTENNA, 10/11 GHZ, 0.9 M (3FT), COMPACTLINEEASY, UHP, REMOTE MOUNT, PARABOLIC (STD: WHITE), CPR90G, DUAL POLARIZED, CLASS IIII FOR A CRASS (MMP), 1800 KMP) HIS MAPP  THE COMPANDATION HAS A CRASS (MMP), 1800 KMPH  WAVEGUIDE STANDARD ERROR REFLECTOR, 250 KMPH, 1800 KMPH  THE COMPANDATION HAS A CRASS (MMP), 1800 KMPH  ANTENNA, 10/11 GHZ, 0.9 M (3FT), COMPACTLINEEASY, UHP, REMOTE MOUNT, PARABOLIC (STD: WHITE), CPR90G, DUAL POLARIZED, CLASS IIII FCC101A, SIGNER PROSE REFLECTOR, 250 KMPH, 1800 KMPH							- 1									
REMOTE MOUNT, PARABOLIC (STD. WHITE), 5925-8,875 GHZ. RADOME (STD. WHITE), 5925-8,875 GHZ. RESUXAG-WS9XC S4,568 10 \$45,568 10 \$45,568 10 \$45,568 2 \$59,136 3 \$13,704 1 \$4,568 2 \$524 3 \$3,704 1 \$4,568 2 \$524 3 \$3,704 1 \$4,568 2 \$524 3 \$3,704 1 \$4,568 2 \$524 3 \$3,704 1 \$4,568 2 \$524 3 \$3,704 1 \$4,568 2 \$524 3 \$3,704 1 \$4,568 3 \$370 1 \$1,114 2 \$5,268 3 \$3,342 1 \$1,114 3 \$1,14 3 \$1,114 3	7.001	Antenna														
RADOME (STD: WHITE). CPR137G DUAL POL., CLASS III/FCC101A, 7.002 SINGLE PIECE REFLECTOR, 200 KMPH, 190 KMPH (UXA6-W59BC) 7.003 TERMINATION LOAD,WAVEGUIDE.06 GHZ,CPR137 (915422) LEG MOUNT,UP TO 6 FEET ANTENNA DIAMETER.UP TO 8 INCHES 7.004 DEPTHAMETER.LEG (MTC3513LMS) 7.005 ISWAY BAR FOR PARABOLIC ANTENNA, 6 FEET (SMA-SK-6) 7.005 WAY BAR FOR PARABOLIC ANTENNA, 6 FEET (SMA-SK-6) 7.006 WG and accessories 6 GHZ WAVEGUIDE, STANDARD ELLIPTICAL. 5.9 – 7.125 GHZ, 23.1 7.007 RETURN LOSS (E65) 7.008 E65 INSTALL-KIT (One kit per waveguide run) (E65-C137-INST-KIT) 7.009 WAYEGUIDE GOOT FOR EWG3, 4 IN (WG84-63) WAVEGUIDE CUSHION HANGER, KITS, EWG3, 2-HOLE (BAG OF 5) 7.011 KITS) (SREW632-K) 7.012 Antenna 11 GHz ANTENNA, 10/11 GHz, 0.9 M (3FT), COMPACTLINEEASY, UHP, REMOTE MOUNT, PARABOLIC (STD: WHITE), 10,000-11,700 GHZ, RADOME (STD: WHITE), CPR90G, DUAL, POLARZED, CLASS III/FCC (1017), 180 KMPH III/FCC101A, SINGLE PIECE REFLECTOR, 250 KMPH, 180 KMPH  REMOTE MOUNT, PARABOLIC (STD: WHITE), 10,000-11,700 GHZ, RADOME (STD: WHITE), CPR90G, DUAL, POLARZED, CLASS III/FCC101A, SINGLE PIECE REFLECTOR, 250 KMPH, 180 KMPH																
7.003 TERMINATION LOAD WAVEGUIDE.06 GHZ, CPR137 (915422) LEG MOUNT, UP TO 6 FEET ANTENNA DIAMETER, UP TO 8 INCHES 7.004 DEPTHIAMETER LEG (MTC3513LMS) 7.005 SWAY BAR FOR PARABOLIC ANTENNA, 6 FEET (SMA-SK-6) 7.006 WG and accessories 6 GHZ WAVEGUIDE. STANDARD ELLIPTICAL, 5.9 – 7.125 GHZ, 23.1 7.007 RETURN LOSS (E65) 7.008 Hardware-KIT (One kit per vaveguide run) (E65-C137-INST-KIT) 7.009 E65 INSTALL-KIT (One kit per vaveguide run) (E65-C137-INST-KIT) 7.011 KITS) (SREW632-K) 7.011 KITS) (SREW632-K) 7.012 Antenna 11 GHZ RADOME (STD: WHITE), CPR90G, DUAL POLARIZED, CLASS III 51.14 10 \$11.140 2 \$2.288 3 \$3.342 1 \$1.114 2 \$51.114 2 \$2.228 3 \$3.342 1 \$1.114 2 \$51.114 2 \$52.288 3 \$3.342 1 \$1.114 2 \$51.114 3 \$1.114	7 000	RADOME (STD: WHITE), CPR137G DUAL POL., CLASS III/FCC101A.	DEC HIVAS MESONS	64.550	10	*45.000		2	60.426	2	640 704	100	*4.500			
7.004 DEPTHIAMETER LEG (MTC3513LMS) 7.005 SWAY BAR FOR PARABOLIC ANTENNA, 6 FEET (SMA-SK-6) 7.005 WG and accessories 6 GHZ WAVEGUIDE, STANDARD ELLIPTICAL, 5.9 – 7.125 GHZ, 23.1 7.007 RETURN LOSS (E65) 7.008 Hardware-KIT (One kit per 100ft) (HARDWARE-KIT-WG) 865 INSTALL-KIT (One kit per waveguide run) (E65-C137-INST-KIT) 7.010 WAVEGUIDE SOOT FOR EW63, 4 IN (WG84-63) WAVEGUIDE CUSHION HANGER, KITS, EW63, 2-HOLE (BAG OF 5) WAVEGUIDE CUSHION HANGER, KITS, EW63, 2-HOLE (BAG OF 5) REMOTE MOUNT, PARABOLIC (STD: WHITE), CPR90G, DUAL POLARIZED, CLASS III/FCC1013, SINGLE PIECE REFLEGETOR, 250 KMPH, 180 KMPH		TERMINATION LOAD, WAVEGUIDE, 06 GHZ, CPR137 (915422)					- 1	2				1				
7.006 Wand accessories 6 GHZ WAVEGUIDE. STANDARD ELLIPTICAL. 5.9 – 7.125 GHZ. 23.1 7.007 RETURN LOSS (E65) 7.008 Hardware-kIT (One kit per 100ft) (HARDWARE-KIT-WG) 87.009 E65 INSTALL-KIT (One kit per vaveguide run) (E65-C137-INST-KIT) 87.010 WAVEGUIDE BOOT FOR EW63, 4 IN (WGB4-63) WAVEGUIDE CUSHION HANGER. KITS, EW63, 2-HOLE (BAG OF 5) 7.011 KITS) (SREW632-K) AND-WGB4-63 856 90 85.220 20 81,16	7.004		179-530147-001	\$1,114	10	\$11,140		2	\$2,228	3	\$3,342	1	\$1,114			
WAVEGUIDE, STANDARD ELLIPTICAL, 5.9 – 7.125 GHZ, 23.1			RFS-SMA-SK-6	\$370	1	\$370										
7.008 Hardware-KIT (One kit per 100ft) (HARDWARE-KIT-WG) 7.009 E65 INSTALL-KIT (One kit per waveguide run) (E65-C137-INST-KIT) 7.009 E65 INSTALL-KIT (One kit per waveguide run) (E65-C137-INST-KIT) 7.010 WAVEGUIDE BOOT FOR EW63, 4 IN (WGB4-63) WAVEGUIDE CUSHION HANGER, KITS, EW63, 2-HOLE (BAG OF 5 WAVEGUIDE CUSHION HANGER, KITS, EW63, 2-HOLE (BAG OF 5 7.011 KITS) (SREW632-K) 7.012 Antenna 11 GHz ANTENNA, 10/11 GHZ, 0.9 M (3FT), COMPACTLINEEASY, UHP, REMOTE MOUNT, PARABOLIC (STD: WHITE), 10,000-11,700 GHZ, RADDME (STD: WHITE), CPR90G, DUAL POLARIZED, CLASS IIIIFCC101A, SINGLE PIECE REFLECTOR, 250 KMPH, 180 KMPH		WAVEGUIDE, STANDARD ELLIPTICAL, 5.9 - 7.125 GHZ, 23.1	DEC FOR	67	4055	67.005	- 1	225	64 575	405	54.455	075	** ***			
7.010 WAVEGUIDE BOOT FOR EW63, 4 IN (WGB4-63) WAVEGUIDE CUSHION HANGER, KITS, EW63, 2-HOLE (BAG OF 5 7.011 KITS) (SREW632-K) 7.012 Antenna 11 GHz ANTENNA, 10/11 GHZ, 0.9 M (3FT), COMPACTLINEEASY, UHP, REMOTE MOUNT, PARABOLIC (STD: WHITE), 10.000-11.700 GHZ, RADOME (STD: WHITE), CPR90G, DUAL POLARIZED, CLASS III/FCC101A, SINGLE PIECE REFLECTOR, 250 KMPH, 180 KMPH	7.008	Hardware-KIT (One kit per 100ft) (HARDWARE-KIT-WG)	RFS-HARDWARE-KIT-WG	\$287	11	\$3,157		2	\$574	2	\$574	2	\$574			7:
WAVEGUIDE CUSHION HANGER, KITS, EW63, 2-HOLE (BAG OF 5 7.011 KITS) (SREW632-K) 7.012 Antenna 11 GHz ANTENNA, 10/11 GHZ, 0.9 M (3FT), COMPACTLINEEASY, UHP, REMOTE MOUNT, PARABOLIC (STD; WHITE), 10,000-11,700 GHZ, RADOME (STD; WHITE), CPR90G, DUAL POLARIZED, CLASS IIII/FCC101A, SINGLE PIECE REFLECTOR, 250 KMPH, 180 KMPH		WAVEGUIDE BOOT FOR EW63, 4 IN (WGB4-63)														
7.012 Antenna 11 GHz ANTENNA, 10/11 GHZ, 0.9 M (3FT), COMPACTLINEEASY, UHP, REMOTE MOUNT, PARABOLIC (STD: WHITE), 10.000-11.700 GHZ, RADOME (STD: WHITE), CPR90G, DUAL POLARIZED, CLASS III/FCC101A, SINGLE PIECE REFLECTOR, 250 KMPH, 180 KMPH	7.011		018-510063-002	\$58	90	\$5.220	- 1	20	\$1,160	20		20				1.
REMOTE MOUNT, PARABOLIC (STD: WHITE), 10.000-11.700 GHZ, RADOME (STD: WHITE), CPR90G, DUAL POLARIZED, CLASS III/FCC101A, SINGLE PIECE REFLECTOR, 250 KMPH, 180 KMPH		Antenna 11 GHz									3,11.24		2.,,			
III/FCC101A, SINGLE PIECE REFLECTOR, 250 KMPH, 180 KMPH	1	REMOTE MOUNT, PARABOLIC (STD: WHITE), 10.000-11.700 GHZ,														
7,013 (SCX3-W100BC) RFS-SCX3-W100XC \$1,026 2 \$2,052		III/FCC101A, SINGLE PIECE REFLECTOR, 250 KMPH, 180 KMPH		20.25	220											
	7,013	(SCX3-W100BC)	RFS-SCX3-W100XC	\$1,026	2	\$2,052	- 1				Į		1		I	

			VAMPACO PAC	No. 100 Per							20.00				7	
	EQUIPMENT LIST	PRODUCT CODE PART NUMBER	UNIT	QTY	PRICE	<b> </b> -	QTY	NACC H			den Peak PRICE	QTY	lalay Bay PRICE	QTY	incoast	OTY
	DESCRIPTION  WALL SHELF FOR RFS DEHYDRATORS APD-D SERIES (SHELF-	PART NUMBER	PRICE	QIY	PRICE	<b> </b> -	QIT		PRICE	QTY	PRICE	QIY	PRICE	QIY	PRICE	QTY
	APD-D)	RFS-SHELF-APD-D	\$105	7	\$735			1	\$105	- 1	\$105	1	\$105	1	\$105	
7.023	DISTRIBUTION MANIFOLD.4-PORT.0-5.0 PSIG.25 FEET OF TUBING	III O OTILLI PI D'D	\$100	10.5	*****				5105		0.00	7.5	•100			
7.026	PER PORT,WALL MOUNTABLE (L6600D-4)	AND-L6600D-4	\$439	7	\$3,073			1	\$439	1	\$439	1	\$439	1	\$439	
	Services RADIO INTEGRATION	SVCS-IN-SIPQ-RI	\$22,016		\$22,016											
	VENDOR INTEGRATION	SVCS-IN-SIPQ-RI SVCS-IN-SIPQ-VI	\$22,016		\$8,302											
	FACTORY ACCEPTANCE TEST (FAT)- With Customer, 2 days	SVCS-IN-SIPQ-VI	\$4,612	,	\$4,612											
	PROGRAM MANAGEMENT	SVCS-IN-PM-PM	\$35,181	i	\$35,181											
8.014	NETWORK/SYSTEM ENGINEERING	SVCS-PN-EN-SE	\$26.252	1	\$26,252											
	Transmission Engineering-Path Surveys/Design Finalization	SVCS-PN-EN-XE	\$25,006	1	\$25,006				- 1							
	LICENSE APPLICATIONS	SVCS-PN-EN-XE-LA	\$12,274	1	\$12,274								1			
0.0.0	Project Engineering-Site Surveys	SVCS-IN-SS-PE	\$15,806	1	\$15,806				- 1							
	Project Engineering-Day to Day	SVCS-IN-SS-PE	\$18,442	1	\$18,442				1							
	CONFIG ENG / DOCUMENTATION / DRAFTING	SVCS-IN-SS-CEDFT	\$9,595	1	\$9,595				- 1							
8.020	NI - Provision installation and final radio testing	SVCS-IN-IC-FI	\$24,180	1	\$24,180				- 1				1			2
8.021	FIELD INSTALLATION - Radios and DC power	SVCS-IN-IC-FI	\$118,418	1	\$118,418				- 1							
	Field Install (Antenna Installation)	SVCS-IN-IC-AS	\$227,928	1	\$227,928				- 1							
	Equipment Removal - Antenna/WG, radio and DC power system															
	(Decomm and Transport)	SVCS-IN-IC-AS	\$49,192	1	\$49,192											
	Warehousing	SVCS-IN-IC-AS	\$8,580	1	\$8,580				- 1							
8,025	Training for IRU600/ODU600, CTR8540 and Provision, 5 days	TR-WW-GEN5-01C	\$15,900	1	\$15,900											
			No. of the last			25	用语言	Page 1		7						(Sh)
	Grand Total (Excluding Applicable Taxes and Freight)				\$1,364,022				\$109,290		\$121,684		\$87,120		\$86,538	
9.026	FREIGHT	FREIGHT	\$36,751	1	\$36,751											
	Additional Executive loyalty Discount for turnkey projects	EQ DISCOUNT	-\$109,122	1	-\$109.122											
						_										
	Grand Total (Excluding Applicable Taxes)	The second secon		Carling Co.	\$1,291,651	100	200		\$109,290		\$121,684		\$87,120		\$86,538	
	OPTIONAL EXTENDED WARRANTY Warranty, 5 years	i i	i		11	- 1			1							
	WARRANTY PLUS IW - NA&C, 24 MONTHS, IRU-600	SNA-BWXXA1002438	\$202	36	\$7,272			4	\$808	6	\$1,212	4	\$808	4	\$808	101
	WARRANTY PLUS NW - NA&C, 24 MONTHS, IRU-600	SNA-BNWXA1003638	\$760	34	\$25.840			4	\$3,040	6		2	\$1,520	4	\$3.040	
	MW EQUIPMENT INSTALLATION AUDIT	SVCS-IN-SS-IA	9,55	5	\$20.040			1	\$3,040		54,555	4	\$1,520		33,040	
									Į				J			l
	TOTAL FOR OPTIONAL EXTENDED WARRANTY				\$33,112				\$3,848		\$5,772		\$2,328		\$3,848	

Aviat U.S., Inc.

860 N. McCarthy Blvd., Suite 200 Milpitas, CA 95035



Company SNACC - CLARK COUNTY - USA

Attn Jason Manzo

Communications Network Analyst 6000 E Rochelle Ave Las Vegas NV 89122

Office: 702-455-7390

#### SNACC MW replacement: Option 2 - 7 hops

#### Aviat Networks Confidential and Proprietary Information

Project Number : NA181003-55697

Project Date : 4/12/2022 Issue No : D

Territory Manager : Ali Hirsa System Engineer : Girindra Lone Sales Engineer : Sherry Lu

Terms : NET 30, pricing per State of NV RFP 3234

Delivery : 8-10 weeks for equipment ARO, 4-6 weeks for installation

Expiration : 90 days Currency : USD

Freight : Prepaid & Bill, Destination

	EQUIPMENT LIST	PRODUCT CODE	UNIT	s	YSTEM		SNAC	НО	Arder	n Peak	Man	dalay Bay	Sur	ncoast		Broo
TEM	DESCRIPTION	PART NUMBER	PRICE	QTY	PRICE		QTY	PRICE	QTY	PRICE	QTY	PRICE	QTY	PRICE	QTY	8
.000	Eclipse Radios															
.001	RU600v4 RFSEC ASSY MHSB RX UNEQUAL SPLIT, IF TR SP-															
.002	HP 5.8-U6 GHz, Filter-non ACCP	EV206-AMT-AM0-410000	\$12,738	6	\$76,428		2	\$25,476	2	\$25,476	1	\$12,738				
	RU600v4 RFSEC ASSY MHSB RX UNEQUAL SPLIT, IF TR EHP L6 GHz, Filter-non ACCP	EV206-AEL-AE0-410000	\$17,967	2	\$35,934											1
	RU600v4 RFSEC ASSY MHSB RX UNEQUAL SPLIT. IF TR SP- HP 10.5-11 GHz, Filter-non ACCP	EV206-AMC-AM0-410000	\$12,738	2	\$25,476											
	RU600v4 RFSEC ASSY MHSB RX UNEQUAL SPLIT, IF TR EHP 11 GHz, Filter-non ACCP	EV206-AEB-AE0-410000	\$17,967	4	\$71,868						1	\$17,967	2	\$35,934		1
.006	NG Extension Kit 6 GHZ															
	Ist Shelf															
800	WG EXT KIT IRU600 V3 6GHZ SH1-PO1, 1+0/MHSB 1ANT, RPTR(MAIN)	179-530135-AA101	\$343	4	\$1,372		1	\$343	1	\$343	1	\$343				
	WG EXT KIT IRU600 V3 6GHZ SH2-PO2. 1+0/MHSB 1ANT. RPTR(MAIN)	179-530135-BB201	\$1. <mark>1</mark> 19	3	\$3,357		1	\$1,119	1	\$1,119						1
- 1	WG EXT KIT IRU600 V3 6GHZ SH3-PO3. 1+0/MHSB 1ANT.															
	RPTR(MAIN) WG EXT KIT IRU600 V3 6GHZ SH4-PO4, 1+0/MHSB 1ANT,	179-530135-CC301	\$2,200													
011	RPTR(MAIN)	179-530135-DD401	\$1,461													
.012	NG Extension Kit 11 GHZ	179-530135-BB203	\$1,803													
	WG EXT KIT IRU600 V3 11GHZ SH1-PO1, 1+0/MHSB 1ANT, RPTR(MAIN)	179-530135-AA121	\$506	3	\$1,518								1	\$506		1
	WG EXT KIT IRU600 V3 11GHZ SH2-PO2. 1+0/MHSB 1ANT.	approximate the street and the street and approximate the street and the street a		2000				24 000				1				
	RPTR(MAIN) WG EXT KIT IRU600 V3 11GHZ SH3-PO3, 1+0/MHSB 1ANT,	179-530135-BB221	\$1,028	3	\$3,084		1	\$1,028					- 1	\$1,028		
	RPTR(MAIN)	179-530135-CC321	\$1,321	2	\$2,642						1	\$1,321				
116	WG EXT KIT IRU600 V3 11GHZ SH4-PO4, 1+0/MHSB 1ANT, RPTR(MAIN)	179-530135-DD421	\$2,003													
017	EXT BRKT KIT IRU600 2 SHELF (179-530089-001_REV002)	179-530089-001	\$190	2	\$380			\$200			1	6200	1	\$190		1
	EXT BRKT KIT IRU600 3 SHELF (179-530089-002_REV002) EXT BRKT KIT IRU600 4 SHELF (179-530089-003_REV002)	179-530089-002 179-530089-003	\$380 \$569	2 2	\$760 \$1,138		'	\$380	1	\$569		\$380				
000	Eclipse Indoor Unit and Data Cards															
001										- 1						
002	NCCV2, HIGH OUTPUT	EXX-000-204	\$1,778	14	\$24,892		2	\$3,556	2	\$3,556	2	\$3,556	2	\$3,556		2
	NODE PROTECTION CARD, HIGH OUTPUT KIT BRACKET 2RU	EXS-002 179-530064-001	\$232 \$11	14 14	\$3,248 \$154		2 2	\$464 \$22	2 2	\$464 \$22	2 2	\$464 \$22	2 2	\$464 \$22		2
	COMMON BREAKERS & BLANKING PLUGS PER RACK PER				2000		-	Secretaria de la composición dela composición de la composición de la composición dela composición dela composición dela composición dela composición de la composición de la composición dela composición	-			4000000	-			-
	DRAWING SAPI ES	COMMON-BREAKERS-RACK SIPQ-CABLES	\$129 \$3	7	\$903 \$21		1	\$129 \$3	1	\$129 \$3	1	\$129 \$3	1	\$129 \$3		1
	SIPQ-CABLES Aux Card and Cables	SIFU-CABLES	93	,	φ21			93		33		93		33		3
	AUX, ALARM I/O CARD	EXA-001	\$340 \$42	7	\$2,380		!	\$340 \$42	1	\$340 \$42	1	\$340 \$42	1	\$340		1
	M66 Punch-Down Block Kit CABLE, ALARM I/O HD15 TO WIREWRAP, 15M (037-579470-01	179-530132-001 037-579470-015	\$123	7	\$294 \$861		'	\$123	i	\$123	1	\$123	1	\$42 \$123		1
	RADIO CARD				1000000		"			3 - 3 - 3 - 3 - 3 - 3 - 3 - 3 - 3 - 3 -						
	RAC 70, QPSK-4096QAM, NO XPIC, ACM	EXR-700-002	\$652	28	\$18,256		4	\$2,608	4	\$2,608	4	\$2,608	4	\$2,608		4
	DAC GE3 GIGABIT ETHERNET SWITCH CARD						12	***		60.01		***		102100000000000000000000000000000000000		
	DAC GE3 GIGABIT ETHERNET SWITCH CARD CABLE PROT / BRIDGEING GE3, DIRECT FIT, 1M	EXD-181-002 037-579461-001	\$735 \$91	28	\$20,580 \$819		4	\$2,940 \$91	4	\$2,940 \$91	4	\$2,940 \$91	4	\$2,940 \$91		4
				1		1	l ·							-5,		10

COMPANDED LIGHT   PRODUCT COMPAND   CHARGE   C					_		1 1										
202 CAMAGNA MARINES 202 CAMAGNA CAMAGN				UNIT	s	YSTEM		s	NACC H	Q	Arden	Peak	Manda	lay Bay	Sun	coast	Brook
MORE DIVERSING, 200 May 7074, MODO PAYLOAD   EZE-8008   \$1,54	ITEM	DESCRIPTION	PART NUMBER	PRICE	QTY	PRICE		QTY	Р	PRICE	QTY	PRICE	QTY	PRICE	QTY	PRICE	QTY
220 CAMACHY UNDER BOOK LEGISLE 400 May TOTAL RADIO PANUADO 250 May 100 May TOTAL RADIO PANUADO 250 May 100 May TOTAL RADIO PANUADO 250 May 100	2.021	PAYLOAD AND LICENSE								- 1							
2.00   CAMPATTY   CA	2.021		EZE-08004	\$1,634	14	\$22,876			2	\$3,268	2	\$3,268	2	\$3,268	2	\$3,268	2
2 CONTROL AMACENT NUMBER ASSOCIATION NOTES ASS	2.021		EZE-08006	\$3,268													
2.221 SCHOOL MARKED REFORM COLOR AS FIRST SEARCH STORM COLOR AS FIRST SEARCH STORM COLOR AS FIRST SEARCH STORM COLOR AS FIRST SEARCH SE		CAPACITY			14	\$6,860			2	\$980	2	\$980	2	\$980	2	\$980	2
2.001 MICROS 000 Add High power splan 4 RPU	1888 17		EZF-03	\$392	14	\$5,488			2	\$784	2	\$784	2	\$784	2	\$784	2
2.021 AVER 1 LINX AGGREGATION NOAL ON DAC GE / DAC GES 2.071 LUSTON WAVEGUER AT COMPLEXITY 3  WORTH-3000 5566 6 \$3.3390 2 \$51,330 2 \$51,330 2  2.072 Standing May Manufacturing the Complex of the Comple	1		EZF-64	\$3,922													
Millipse	2.021	IRU600 600 Nodal High power option 2 x RFU	EZF-62	2005000000	4	\$7,844					2	\$3,922					
3.00   Procision Number Server up to 1,000 S.V. Entry Level. Tower 1,000 S.V. Entry Level. Tow	2.021	LAYER 1 LINK AGGREGATION NODAL ON DAC GE / DAC GE3	EZF-01	\$147						- 1							
Decision Max   Section	2.021	CUSTOM WAVEGUIDE KIT COMPLEXITY 3	WGKIT-3000	\$565	6	\$3,390			2	\$1,130	2	\$1,130					2
PROVIDED WINDOWS Service UP 10 JOSS SE, Emy Level, Tower 50 Joseph 20 Joseph		Multiplex								- 1							
Pock/Water Vireldons Server up to 1,000 SUS, Edity Level, Tower   51.4100140-001   53.357   1 53.	3 000	Provision NMS Monitoring system								- 1							
3.002 Stand By NY ACCURSICE T1704_ED 17.3" WIDE 6012* ID MONITOR NY ACCURSION TO THE TITLE TO THE TITLE TITLE TO THE TITLE TITLE TO THE TITLE TITL		ProVision Windows Server, up to 1,000 SLV, Entry Level, Tower MAIN	614-100140-001	\$3,357	1	\$3,357			1	\$3,357							
3.003   A60900230)   COLOR	3.002		614-100140-001	\$3,357	1	\$3,357			1	\$3,357							
3.000   614-100137-001   VM CONSIGLE (BID19-000)   614-100137-002   5117   2 \$234   3 \$205   3000		KVM CONSOLE T1700-LED 17.3" WIDE 60HZ HD MONITOR (A6906293)	LOC-A6906293	\$2,452	2	\$4,904			2	\$4,904							
3.000   FROWISON SOLUTION PACK - 50 NODES 3.000   STANDBY SERVER. P. VS CULTION PACK - 100 NODES 614-42201-2001 518-30		614-100137-001 KVM CONSOLE (B019-000)															
3.000 STANDBY SERVER - PV SOLUTION PACK - 100 NODES 3.000 Cas Standard Cables, Standard Cab			614-225061-002	\$6.863	1	\$6.863			1	\$6.863							
### ROWISION GOS PACKAGE. ELTEK SMARTPACK. FLATPACK 30.01 POVMER SYSTEMS, V.1.8  4.000 Spares 4.000 RFUL EMP, RUSDOW I FTR. 11 GHz, 19700-11700 MHz 4.000 RFUL EMP, RUSDOW I FTR. 14 GHz, 19700-11700 MHz 4.000 RFUL EMP, RUSDOW I FTR. 15 GHz, 19700-11700 MHz 4.000 RFUL EMP, RUSDOW I FTR. 15 GHz, 19700-11700 MHz 4.000 RFUL EMP, RUSDOW I FTR. 58,464 US GHz, 5775-7125 MHz 4.000 RFUL MP, PIRUSOW I FTR. 58,464 US GHz, 5775-7125 MHz 4.000 RFUL MP, RUSDOW I FTR. 58,464 US GHz, 5775-7125 MHz 4.000 ROWING ECLIPSE. INTELLIGENT NODE UNIT ZRU, NC DCE, FAN, 4.000 NCCV2, HIGH OUTPUT 4.000 NCDE PROTECTION CARD, HIGH OUTPUT 4.000 NCDE PROTECTION CARD, HIGH OUTPUT 528-5002 5252 1 5270 1 51,776 1 51,776 1 52,772 1 51,776 1 52,772 1 52	3.008	STANDBY SERVER - PV SOLUTION PACK - 100 NODES	614-625012-001	\$1,634	1				1								
4.000 RPU, EHP, IRUS00.4 IF TR, 11 GHz, 10700-11700 MHz 4.002 RPU, EHP, IRUS00.4 IF TR, 16 GHz, 5925-6428 MHz 4.003 RPU, MP, RUS00.4 IF TR, 10-51 1 GHz, 10500-11700 MHz 4.003 RPU, MP, RUS00.4 IF TR, 5.04-510 GMZ, 7257-7128 MHz 4.003 RPU, MP, RUS00.4 IF TR, 5.04-510 GMZ, 7257-7128 MHz 4.004 RPU, MP, RUS00.4 IF TR, 5.04-510 GMZ, 7257-7128 MHz 4.005 REVIEW REV	0.000.000	PROVISION GDS PACKAGE, ELTEK SMARTPACK, FLATPACK	MATERIAL CONTROL CONTR							Vision / Olimpino							
4 001 RPU, EHP, RUS000A IF TR, 1 GHz, 19700-11700 MHz 4 002 RPU, LPP, RUS00A IF TR, 1 GHz, 2952-425 MHz 4 003 RPU, MP, RUS00A IF TR, 1 GHz, 2952-425 MHz 4 003 RPU, MP, RUS00A IF TR, 1 GHz, 19500-11700 MHz 4 004 RPU, MP, RUS00A IF TR, 5.8-6.4.6 GHz, 2752-7128 MHz 4 005 RPU, MP, RUS00A IF TR, 5.8-6.4.6 GHz, 2752-7128 MHz 4 007 NODE PROTECTION CARD, HIGH OUTPUT 4 007 NODE PROTECTION CARD, HIGH OUTPUT 4 007 NODE PROTECTION CARD, HIGH OUTPUT 5 EX-000_204 5 1.778 5 1. \$1,778 5 1. \$4,902	3,010	POWER SYSTEMS, V1.8	614-700070-001	\$1,634	1	\$1,634			1	\$1,634							
4 002   RPU, BHP, RUB0004   FT R, 10-51 104   1500-1170 MHz   4 003   RPU, MP, RUB0004   FT R, 10-51 104   1500-1170 MHz   4 004   RPU, MP, RUB0004   FT R, 10-51 104   1500-1170 MHz   4 005   MUSP, WILDOUND   FT R, 10-51 104   1500-1170 MHz   4 005   MUSP, WILDOUND   WILD   WILDOUND   WILDOUND   WILDOUND   4 007   MUDDE   PROTECTION CARD, HIGH OUTPUT   4 008   DRAWING   4 010   BURNOL   STAN   4 011   Aux Gard and Gables   4 011   Aux Gard and Gables   4 012   AUX, ALARM 10 CARD   4 015   RADIO CARD   4 016   RADIO CARD   4 017   AUX Gard and Gables   4 018   AUX, ALARM 10 CARD   4 019   CABLE, ALARM 10 DITS TO WIREWRAP, 15M (037-579470-01)   5 007   WILDOUND					980												
4 003 RPU, MP, IRU60004 IFTR, 105-11 GHz, 10500-11700 MHz 4 004 RPU, MP, IRU60004 IFTR, 501-51-61 GHz, 273-57-128 MHz 4 005 INU6 4 005 INU6 4 005 INU6 4 006 INU6 4 006 INU6 4 007 INU6 INU6 4 008 INU6 INU6 4 009 INU6																	
4.005 NUS ECLIPSE. INTELLIGENT NODE UNIT 2RU, INC IDCE, FAN, 4.006 NCCV2, HIGH OUTPUT 4.007 NODE PROTECTION CARD, HIGH OUTPUT 5.008 KIT BRACKET 2RU COMMON BREAKERS & BLANKING PLUGS PER RACK PER 4.009 DRAWING 4.010 SPOC-ABLES 5.175 1 \$2.32 179-530064-001 \$24 1 \$24	4.003	RFU, MP, IRU600v4 IF TR, 10.5-11 GHz, 10500-11700 MHz		\$4,902		\$4,902											
4.006 NCCVZ, HIGH OUTPUT 4.007 NDDE PROTECTION CARD, HIGH OUTPUT 5X5-002 5X24 5X25 5X25 5X25 5X26 5X26 5X26 5X27 5X26 5X27 5X26 5X27 5X26 5X27 5X26 5X27 5X26 5X27 5X27 5X26 5X27 5X27 5X27 5X27 5X27 5X27 5X27 5X27		INUe	ERW-ATT-401	54,902		\$4,902											
4.008 KIT BRACKET 2RU	4.006		EXX-000-204	\$1,778	1	\$1,778											
COMMON BREAKERS & BLANKING PLUGS PER RACK PER 4.010 PAWING 4.011 SIPO-CABLES 4.011 AUX Card and Cables 4.012 AUX ALARM IO CARD 4.013 M66 Punch-Down Block Kit 4.014 CABLE, ALARM IO Holis TO WIREWRAP, 15M (037-579470-01) 4.015 RADIO CARD 4.016 RAC 70, OPSK-40980AM, NO XPIC, ACM 4.017 DAC GE3 GIGABIT ETHERNET SWITCH CARD 4.018 DAC GE3 GIGABIT ETHERNET SWITCH CARD 4.019 CABLE PROT / BRIDGENG GE3, DIRECT FIT, 1M XCVR ELECTRICAL SFP, GE3 ONLY, W/LOS 3V3 COM (ABCU- 4.021 GIG ETH SPP, OPT MMF 850nm LC 1000BASE-SX, <550M 4.021 (LIX1021 CDR-AAN) 4.022 T1 loop protection card 4.023 NETWORK CONVERGENCE MODULE (NCM) 4.024 D31 CARD NA CCESSORIES 4.025 ECLIPSE, DAC 16XE1/DS1 V3, PROTECTABLE  COMMON-BREAKERS-RACK 5.39 5.1 5.34 5.34 5.34 5.34 5.34 5.34 5.34 5.34																	
4.010 SIPD-CABLES 4.011 Aux Card and Cables 4.012 AUX ALARM I/O CARD 4.013 MoS Punch-Down Block Kit 4.014 CABLE, ALARM I/O HD15 TO WIREWRAP, 15M (037-579470-01) 5123  4.015 RADIO CARD 4.016 RAC 70, OPSK-4096QAM, NO XPIC, ACM 510 DAC GE3 GIGABIT ETHERNET SWITCH CARD 511 CABLE PROT / BRIDGEING GE3, DIRECT FIT, 1M 512 CABLE PROT / BRIDGEING GE3, DIRECT FIT, 1M 513 CARD AND ACCESSORIES 51 A340 1 \$340 1	10000000	COMMON BREAKERS & BLANKING PLUGS PER RACK PER		105000	'	\$2.4											
4.011 Aux Card and Cables 4.012 AUX ALARM IVO CARD 4.013 M66 Punch-Down Block Kit 4.014 CABLE, ALARM IVO HD15 TO WIREWRAP, 15M (037-579470-015 4.015 RADIO CARD 4.016 RAC 70, OPSK-4096QAM, NO XPIC, ACM EXR-700-002 5652 1 \$652  4.017 DAC GE3 GIGABIT ETHERNET SWITCH CARD 4.018 DAC GE3 GIGABIT ETHERNET SWITCH CARD CABLE PROT / BRIDGEING GE3, DIRECT FIT, 1M XCVR FLECTRICAL SFP, GE3 ONLY, WI/LOS 3V3 COM (ABCU-5730RZ) GIG ETH SFP, OPT MMF 850nm LC 1000BASE-SX, <550M 4.021 TI loop protection card 4.022 TI loop protection card 4.024 D31 CARD AND ACCESSORIES ECLIPSE, DAC 16XE1/DS1 V3, PROTECTABLE EXD-161-002  EXD-161-002  EXD-1002 S340 1 \$340 1 \$340 1 \$340 1 \$340 1 \$340 1 \$340 1 \$340 1 \$340 1 \$402 1 \$405 1 \$4024 1 \$4025 1 \$4024 1 \$4025 1 \$4024 1 \$4025 1 \$4024 1 \$4025 1 \$4024 1 \$4025 1 \$4024 2 \$4025 1 \$4026 2 \$4027 2 \$402																	
4.013 M66 Punch-Down Block Kit 4.014 CABLE, ALARM I/O HD15 TO WIREWRAP, 15M (037-579470-015 \$123  4.015 RADIO CARD 4.016 RAC 70, QPSK-4096QAM, NO XPIC, ACM  4.017 DAC GE3 GIGABIT ETHERNET SWITCH CARD 4.018 DAC GE3 GIGABIT ETHERNET SWITCH CARD 4.019 CABLE PROT / BRIDGEING GE3, DIRECT FIT, 1M  XCVR ELECTRICAL SFP, GE3 ONLY, W/LOS 3V3 COM (ABCU-5730RZ) GIG ETH SFP, OPT MMF 850nm LC 1000BASE-SX, <550M 4.021 (LX102+CDR-AAN)  71 loop protection card 4.022 A.023 DS1 CARD AD ACGESSORIES 6 CLIPSE, DAC 16XE1/DS1 V3, PROTECTABLE  EXD-40-002 S980 1 \$980  1 \$980  2558 1 \$258	4.011	Aux Card and Cables	EXA-001	\$340	1	\$340											
4.015 RADIO CARD 4.016 RAC 70, QPSK-4096QAM, NO XPIC, ACM  EXR-700-002  S652  1 \$652  4.017 DAC GE3 GIGABIT ETHERNET SWITCH CARD  4.018 DAC GE3 GIGABIT ETHERNET SWITCH CARD  EXD-181-002  S735  EXD-181-002  S735  S735  A.019 CABLE PROT / BRIDGEING GE3, DIRECT FIT, 1M  S735  XCVR ELECTRICAL SFP, GE3 ONLY, W/LOS 3V3 COM (ABCU-  4.020 5730RZ)  GIG ETH SFP, OPT MMF 850nm LC 1000BASE-SX, <550M  A.021 (LX1021CDR-AAN)  O79-422662-001  S46  4.022 T1 loop protection card  4.023 NETWORK CONVERGENCE MODULE (NCM)  EXD-400-002  S980  EXD-400-002  S980  S980  1 \$980  4.024 D31 CARD AND ACCESSORIES  ELIPSE, DAC 16XE1/DS1 V3, PROTECTABLE  EXD-161-002  S258  1 \$258					'	\$340											
4.016 RAC 70, QPSK-4096QAM, NO XPIC, ACM  4.017 DAC GE3 GIGABIT ETHERNET SWITCH CARD  4.018 DAC GE3 GIGABIT ETHERNET SWITCH CARD  CABLE PROT / BRIDGEING GE3, DIRECT FIT, 1M  XCVR ELECTRICAL SFP, GE3 ONLY, W/LOS 3V3 COM (ABCU-4,020 5730RZ)  GIG ETH SFP, OPT MMF 850nm LC 1000BASE-SX, <550M  4.021 (LX1021CDR-AAN)  4.022 T1 loop protection card  4.023 NETWORK CONVERGENCE MODULE (NCM)  DS1 CARD AND ACCESSORIES  EXD-181-002 S652 1 \$652  EXD-181-002 S735 1 \$735  O79-422662-001 \$1 \$135  EXD-400-002 S980 1 \$980  EXD-400-002 S980 1 \$980  EXD-400-002 S258 1 \$258	4.014	CABLE, ALARM I/O HD15 TO WIREWRAP, 15M (037-579470-01	037-579470-015	\$123													
4.018 DAC GE3 GIGABIT ETHERNET SWITCH CARD 4.019 CABLE PROT / BRIDGEING GE3, DIRECT FIT, 1M  XCVR ELECTRICAL SFP, GE3 ONLY, W/LOS 3V3 COM (ABCU- 4.020 5730RZ)  GIG ETH SFP, OPT MMF 850nm LC 1000BASE-SX, <550M  4.021 (LX1021CDR-AAN)  71 loop protection card 4.022 NETWORK CONVERGENCE MODULE (NCM)  EXD-400-002 S980 1 \$980  4.024 DS1 CARD AND ACCESSORIES 4.025 ECLIPSE, DAC 16XE1/DS1 V3, PROTECTABLE  EXD-161-002 S258 1 \$258			EXR-700-002	\$652	1	\$652											
4.019 CABLE PROT / BRIDGEING GE3, DIRECT FIT, 1M 037-579461-001 \$91  XCVR ELECTRICAL SFP, GE3 ONLY, W/LOS 3V3 COM (ABCU-4,020 5730RZ) 083-845434-001 \$135 1 \$135  GIG ETH SFP, OPT MMF 850nm LC 1000BASE-SX, <550M 079-422662-001 \$46  4.022 T1 loop protection card NETWORK CONVERGENCE MODULE (NCM) EXD-400-002 \$980 1 \$980  4.024 D31 CARD AND ACCESSORIES ECLIPSE, DAC 16XE1/DS1 V3, PROTECTABLE EXD-161-002 \$258 1 \$258	4.017	DAC GE3 GIGABIT ETHERNET SWITCH CARD														- 1	
4.020   5730RZ)   083-845434-001   \$135   1 \$135					1	\$735											
4.021 (LX1021CDR-AAN) 079-422662-001 \$46 4.022	4.020	5730RZ)	083-845434-001	\$135	1	\$135											
4.023 NETWORK CONVERGENCE MODULE (NCM) EXD-400-002 \$980 1 \$980 4.024 DS1 CARD AND ACCESSORIES ECLIPSE, DAC 16XE1/DS1 V3, PROTECTABLE EXD-161-002 \$258 1 \$258		(LX1021CDR-AAN)	079-422662-001	\$46													
4.025 ECLIPSE, DAC 16XE1/DS1 V3, PROTECTABLE EXD-161-002 \$258 1 \$258	4.023	NETWORK CONVERGENCE MODULE (NCM)	EXD-400-002	\$980	1	\$980											
4,026 2x HDR-E50 TO Y JOIN TO 24AWG FREE END 3,5M 037-579408-003 \$341	4.024 4.025	ECLIPSE, DAC 16XE1/DS1 V3, PROTECTABLE	EXD-161-002	\$258	1	\$258											
	4.026	2x HDR-E50 TO Y JOIN TO 24AWG FREE END 3.5M	037-579408-003	\$341						J							

ITEM	EQUIPMENT LIST DESCRIPTION	PRODUCT CODE PART NUMBER	UNIT PRICE	QTY	YSTEM PRICE		SNACO	PRICE	Arde QTY	n Peak PRICE	Mand QTY	PRICE	Su QTY	ncoast PRICE	Brook QTY
4.039	NCM LOOP SWITCH License to support up to 50E1/63T1 TDM circuits	EZF-14	\$1,961	1	\$1,961										
570.540	RACK														
	RACK ASSY CRATED, 7' CHATSWORTH ALUMINUM, 1														
5,001	BREAKER PNL W/10 BLANK COVERS AND NO BREAKERS Installation Kit, Aluminum Rack, Concrete Floor (AV179-530119-	179-530307-0113	\$1,787	8	\$14,296		1	\$1,787	1	\$1,787	1	\$1,787	1	\$1,787	1
5.002	001WA)  COMMON BREAKERS & BLANKING PLUGS PER RACK PER	179-530119-001	\$717	8	\$5,736		1	\$717	1	\$717	1	\$717	1	\$717	1
	DRAWING SIPO-CABLES	COMMON-BREAKERS-RACK SIPQ-CABLES	\$86 \$2	8 8	\$688 \$16		1	\$86 \$2	1	\$86 \$2	1	\$86 \$2	1	\$86 \$2	1
3.004	JACKFIELD, LOADED 64 DSX-1 CIRCUITS, FRONT BELOW CROSSCONNECT 1-32A AND 1-32B, REAR WIREWRAP, 19*	3,000	52		\$.0		,	52		32		32		. 52	
5.005	OR 23"W, 4 RU, 8"D, -48VDC, RED LED (DI-R2GU1)	COM-DI-R2GU1	\$1,816	9	\$16,344		2	\$3,632	2	\$3,632	1	\$1,816	1	\$1,816	1
6.000	Power Supply														
	EMPTY CHASSIS, FLATPACK S INTREPID POWER SYSTEM, NO CONTROLLER, -48VDC, REAR ACCESS, 200 AMP MAX,														
	LVBD & SHUNT, 2RU, 19", MID/FLUSH MOUNT, 6 EMPTY RECTIFIER POSITIONS, 4 LOAD BREAKER, 2 BATTERY														
6.001	BREAKER AND 10 GMT POSITIONS (NOT INCLUDED) SMARTPACK S CONTROLLER WITH A01 PROFILE: 48V FP S,	ELT-FPSK59I-ANL-VC	\$1,491	7	\$10,437		1	\$1,491	1	\$1,491	1	\$1,491	1	\$1,491	1
6,002	2RU STANDARD CONFIGURATION, SNMP RECTIFIER, FOR FLATPACK S INTREPID, 1 RU, 100-250 VAC	ELT-SPS-FPS200-A01-VV	\$695	7	\$4,865		1	\$695	1	\$695	1	\$695	1	\$695	1
6.003	INPUT, 48 VDC OUTPUT, 1800 WATTS, 37.5 AMP @ 220 VAC INPUT, 20 AMP @ 110 VAC INPUT	ELT-241122.125.VC	\$596	15	\$8,940		2	\$1,192	3	\$1,788	2	\$1,192	2	\$1,192	2
6.004	FLATPACK S BLANK PANEL FOR EMPTY SLOT CABLE, ALARM CABLE FOR FLATPACK S POWER SYSTEM.	ELT-331E00116500	\$24	27	\$648		4	\$96	3	\$72	4	\$96	4	\$96	4
6.005	SOLID WIRE, 50 FEET THERMAL PROBE KIT, BATTERY THERMAL PROBE KIT FOR	ELT-308E33743400	\$149	7	\$1,043		1	\$149	1	\$149	1	\$149	1	\$149	1
	FLATPACK S INTREPID POWER SYSTEM (PROBE INCLUDED), 5/16" LUG, 10 FEET	ELT-340522	\$96	7	\$672		1	\$96	1	\$96	1	\$96	1	\$96	1
	CIRCUIT BREAKER, 30 AMP PLUG-IN BULLET, MIDTRIP PULLER, FOR BULLET BREAKER	ELT-CBB030M ELT-BBPULR-01	\$38 \$46	14 14	\$532 \$644		2	\$76 \$92	2 2	\$76 \$92	2	\$76 \$92	2	\$76 \$92	2 2
	LINE CORD, INDIVIDUAL AC INPUT FOR FLATPACK S POWER SYSTEM. AMP SHELF CONNECTOR.														
6.009	UNTERMINATED AC SOURCE CONNECTOR, 20 FEET LENGTH, 10 AWG WIRE GAUGE (LA2010-UU)	ELT-LA2010-UU	\$112	14	\$1,568		2	\$224	2	\$224	2	\$224	2	\$224	2
	CIRCUIT BREAKER, 80 AMP PLUG-IN BULLET, MID-TRIP (CBB080M)	ELT-CBB080M	\$38	7	\$266		1	\$38	1	\$38	1	\$38	1	\$38	1
6.011 6.022	Battery														
0.000	BATTERY SYSTEM.VRLA.RACK MOUNTING, 19 INCHES WIDTH, 4 CELLS, TEL, 1 TRAY, 111-2019-02A, -48VDC	CDT H49TF! 40 00 40	£0.000		£0.000										
6.023	OUTPUT,90AH,10 YEARS (H48TEL12-90-19) BATTERY SYSTEM, VRLA , 4 CELLS TEL12-180F, -48VDC	CDT-H48TEL12-90-19	\$2,228	1	\$2,228										
	OUTPUT, 180AH, 10 YEARS, 575 LBS, RACK MOUNTING, 19" WIDTH, 16 RU MINIMUM, 21.12" DEPTH, FRONT ACCESS,														
6.024	EQUIPPED WITH 2 TRAYS PART NUMBER RD02341 (17.12" W x 21.12" D), #6 CABLE AND LUGS (H48TEL12-180F-19)	CDT-H48TEL12-180F-19	\$4,216	6	\$25,296		1	\$4,216	1	\$4,216	1	\$4,216	1	\$4,216	4
6.024	7 21.12 0), 40 OADEC AND 2000 (FIGURE 12-100F-10)	551-14072212-1007-19	54,210	0	\$25,230		0.00	34,210	,.	34,210		34,210		34,216	,
7.000	Antenna ,Waveguides														
7.001	Antenna ANTENNA, L6/U6 GHZ, 1.8 M (6FT), PRIMELINE, UHP, HIGH														
	XPD. REMOTE MOUNT, PARABOLIC (STD: WHITE), 5.925-6,875 GHZ, RADOME (STD: WHITE), CPR137G DUAL POL.,														
7.002	CLASS III/FCC101A, SINGLE PIECE REFLECTOR, 200 KMPH, 190 KMPH (UXA6-W59BC)	RFS-UXA6-W59XC	\$4,568	8	\$36,544		2	\$9,136	2	\$9,136	1	\$4,568			1
0.000	TERMINATION LOAD,WAVEGUIDE,06 GHZ,CPR137 (915422)	RFS-915422	\$124	8	\$992		2	\$248	2	\$248	1	\$124			1
	LEG MOUNT,UP TO 6 FEET ANTENNA DIAMETER,UP TO 8 INCHES DEPTHIAMETER LEG (MTC3513LMS)	179-530147-001	\$1,114	8	\$8,912		2	\$2,228	2	\$2,228	1	\$1,114			1
	SWAY BAR FOR PARABOLIC ANTENNA, 6 FEET (SMA-SK-6)	RFS-SMA-SK-6	\$370												
	WG and accessories 6 GHZ WAVEGUIDE, STANDARD ELLIPTICAL, 5.9 – 7.125 GHZ, 23.1		7200	0.5.7			200		,	9230	,	1,200,000			52.500
	RETURN LOSS (E65) Hardware-KIT (One kit per 100ft) (HARDWARE-KIT-WG)	RFS-E65 RFS-HARDWARE-KIT-WG	\$7 \$287	890 9	\$6,230 \$2,583		225	\$1,575 \$574	120	\$840 \$574	275	\$1,925 \$574			70 1
7.009	E65 INSTALL-KIT (One kit per waveguide run) (E65-C137-INST- KIT) WAVEGUIDE BOOT FOR EW63, 4 IN (WGB4-63)	RFS-E65-C137-INST-KIT	\$922 \$56	9 7	\$8,298 \$302		2 2	\$1,844	3	\$2,766	1	\$922			1
7.010	WAVEGUIDE BOOT FOR EW63, 4 IN (WGB4-63)	AND-WGB4-63	256	,	\$392	l	2	\$112	1.	\$56	1	\$56		1	1

						ΙΓ										
	EQUIPMENT LIST	PRODUCT CODE	UNIT	,	SYSTEM		S	NACC	но	Arde	n Peak	Mand	alay Bay	Sur	ncoast	Brook
ITEM	DESCRIPTION	PART NUMBER	PRICE	QTY	PRICE	lt	QTY	117100	PRICE	QTY	PRICE	QTY	PRICE	QTY	PRICE	QTY
	Hardware-KIT (One kit per 100ft) (HARDWARE-KIT-WG) WAVEGUIDE CUSHION HANGER, KITS, EW90, 3-HOLE (BAG	RFS-HARDWARE-KIT-WG	\$287	8	\$2,296							2	\$574	3	\$861	1
	OF 5 KITS) (SREW903-K)	018-510090-003	\$58	54	\$3,132				1			10	\$580	20	\$1,160	6
	VAL EWP90 X3 HOLES 4" BOOT KIT (BAEW903)	VLT-BAEW903	\$39	6	\$234							1	\$39	1	\$39	1
7.023	Dehydrator DEHYDRATOR, AUTOMATIC, OPERATIONAL PRESSURE 3															
	PSIG/5 PSIG,HIGH PRESSURE ALARM - 6 PSIG,30% REL.															
7.024	HUMIDITY (APD20-D-35DH0R01S0) WALL SHELF FOR RFS DEHYDRATORS APD-D SERIES	RFS-APD20-D-35DH0R01S0	\$1,990	7	\$13,930			1	\$1,990	1	\$1,990	1	\$1,990	1	\$1,990	1
7 025	(SHELF-APD-D)	RFS-SHELF-APD-D	\$105	7	\$735			1	\$105	1	\$105	1	\$105	1	\$105	1
7.020	DISTRIBUTION MANIFOLD,4-PORT,0-5.0 PSIG,25 FEET OF										1000					200
7.026	TUBING PER PORT, WALL MOUNTABLE (L6600D-4)	AND-L6600D-4	\$439	7	\$3.073			1	\$439	1	\$439	1	\$439	1	\$439	1
8 000	Services															
CO	RADIO INTEGRATION	SVCS-IN-SIPQ-RI	\$19,414	1	\$19,414											
	VENDOR INTEGRATION	SVCS-IN-SIPQ-VI	\$6,918	1	\$6,918											
		0.400 111 0100 17			21.010								1			
500 CW 100	FACTORY ACCEPTANCE TEST (FAT)- With Customer, 2 days PROGRAM MANAGEMENT	SVCS-IN-SIPQ-AT SVCS-IN-PM-PM	\$4,612 \$30,783	1	\$4,612 \$30,783											
17.07.00.5	NETWORK/SYSTEM ENGINEERING	SVCS-IN-FW-FW SVCS-PN-EN-SE	\$25,324	1	\$25,324				- 1				3			
	Transmission Engineering-Path Surveys/Design Finalization	SVCS-PN-EN-XE	\$22,220	1	\$22,220				- 1				1			
8.016		SVCS-PN-EN-XE-LA	\$11,104	1	\$11,104				- 1							
8.017	Project Engineering-Site Surveys	SVCS-IN-SS-PE	\$15,806	1	\$15,806								- 1			
8.018	Project Engineering-Day to Day	SVCS-IN-SS-PE	\$18,442	1	\$18,442				- 1							
8.019		SVCS-IN-SS-CEDFT	\$9,595	1	\$9,595				- 1							
	NI - Provision installation and final radio testing	SVCS-IN-IC-FI	\$22,629	1	\$22,629				- 1				1			
55,500,000	FIELD INSTALLATION - Radios and DC power	SVCS-IN-IC-FI	\$106,878	1	\$106,878				1							
8.022	Field Install (Antenna Installation) Equipment Removal - Antenna/WG, radio and DC power system	SVCS-IN-IC-AS	\$204,619	1	\$204,619				- 1							
8.023	(Decomm and Transport)	SVCS-IN-IC-AS	\$44,330	1	\$44,330				- 1							
	Warehousing	SVCS-IN-IC-AS	\$8,580	1	\$8,580				- 1							
8.025	Training for IRU600/ODU600, CTR8540 and Provision, 5 days	TR-WW-GEN5-01C	\$15,900	1	\$15,900								- 1			
						L		No.				T CONTINUE OF THE		DOMESTIC STATES	Charles - Committee	In Standard of the Standard
No. of the last	Grand Total (Excluding Applicable Taxes and Freight)				\$1,237,548				\$109,290		\$89,555		\$87,120		\$86,538	
	reignty				\$1,237,340				\$103,230		\$05,555		\$01,120		\$00,550	
8,026	FREIGHT	FREIGHT	\$33,022	1	\$33,022				- 1							
8.027	Additional Executive loyalty Discount for turnkey projects	EQ DISCOUNT	-\$99,004	1	-\$99,004				- 1				1			
	Grand Total (Excluding Applicable Taxes)		of sales		\$1,171,566		Market State	Jan B	\$109,290		\$89,555	Jewell Work	\$87,120		\$86,538	SE DESMINISTRA
A STATE OF THE PARTY OF THE PAR	OPTIONAL EXTENDED WARRANTY	(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	Artistical Andrews		<b>41,111,300</b>		CO POSTA		4 100 JESU		405,555		\$01,120		400,000	
9.000	Warranty, 5 years	[			1	1			- 1							
	WARRANTY PLUS IW - NA&C, 24 MONTHS, IRU-600	SNA-BWXXA1002438	\$202	32	\$6.464			4	\$808	4	\$808	4	\$808	4	\$808	4
	WARRANTY PLUS NW - NA&C, 36 MONTHS, IRU-600	SNA-BNWXA1003638	\$760	32	\$24,320			4	\$3,040	4	\$3,040	4	\$3,040	4	\$3,040	4
9.003	MW EQUIPMENT INSTALLATION AUDIT	SVCS-IN-SS-IA		1				1								
	TOTAL FOR OPTIONAL EXTENDED WARRANTY				\$30,784				\$3,848		\$3,848		\$3,848		\$3,848	



# Statement of Work

CLARK COUNTY - SNACC SNACC MW replacement NA181003-55697 Project Services

Release 1.3 6-15-2022

### STATEMENT OF WORK AVIAT NETWORKS



#### Issue Releases

Issue Number	Issue Release Date	Changes	Preparer
1.0	2/9/2021	Initial Release	G. Lone
1.1	3-16-2021	Initial Release (Training)	G. Lone
1.2	8-30-2021	Initial Release (Updated Design)	G. Lone
1.3	6015-2022	Remove last paragraph of page 33	S.Lu



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#### 1. EXECUTIVE SUMMARY

#### 1.1. Purpose of Document

This Statement of Work ("SOW") specifies the deliverables and defines the responsibilities and other relevant terms applicable to the planning and delivery of microwave and associated products from Aviat U.S., Inc. ("Aviat Networks" or "Aviat") and its partners, as well as the professional services required to engineer and implement the proposed solution for CLARK COUNTY - SNACC ("Customer").

Execution of the services listed in this SOW is governed by Aviat's standard terms and conditions ("Agreement"). Neither party is obligated to provide any services until the Agreement is executed by both parties and an order has been placed for services by CLARK COUNTY - SNACC and accepted by Aviat Networks. Where the terms of the Agreement differ from the terms of the SOW, the terms in the SOW shall control. Any capitalized term not defined herein shall have the meaning ascribed to it in the Agreement.

#### 1.2. Project Scope

This SOW applies to SNACC MW replacement project proposed by Aviat Networks and cannot be extended to other projects. Aviat Networks will provide the following services to CLARK COUNTY - SNACC:

Project Management	Network Engineering
✓ Transmission Engineering	✓ Project Engineering
✓ Configuration Engineering/Drafting	MPLS Network Services
✓ Factory Integration and Testing	Antenna & Line Installation
✓ Radio Installation and Testing	✓ Network Integration
Radio Decommission	Antenna System Decommission
✓ DC Power System Installation and Testing	DC Power System Decommission
Civil Construction	Field Technical Support
Structural Mapping	Structural Analysis
Existing Radio Baseline Testing	✓ Waveguide Sweeps
Tower/Monopole Design, Supply and Installation	Shelter Supply and Installation
Additional Scope	
Prevailing Wages: Yes	
Freight Terms: Destination	

Any required services or material not specified in this SOW will be provided by CLARK COUNTY - SNACC and will not be considered part of Aviat Networks' responsibilities. Aviat Networks reserves the right to quote and perform services not specified in this SOW in accordance with the terms and conditions of the Agreement. Once Aviat Networks approves the new services, the new services will be added to this SOW in a mutually signed amendment to this SOW and the release of a new services purchase order. For a full list of Aviat provided equipment, please refer to the project equipment list.

CLARK COUNTY - SNACC and Aviat Networks acknowledge that meeting the planned project completion date requires the cooperation of the parties. Any changes requested by CLARK COUNTY - SNACC before the design freeze date stated in Appendix B will be considered part of the design finalization phase of the project and not subject to a formal change order, if at Aviat Networks' sole discretion, the requested change falls within the original scope and hours of the project. Any changes requested by CLARK COUNTY - SNACC after the design freeze date will be subject to review by Aviat Networks and may, at Aviat Networks' sole discretion, result in a change order fee and/or a delay in delivery to the field. See Appendix B for more detail on the design freeze.

Completion and accuracy of all deliverables are subject to the integrity of the information provided by CLARK COUNTY - SNACC. Aviat Networks is not responsible for validating the accuracy of the information provided by CLARK COUNTY - SNACC. Any changes resulting from incorrect information provided by CLARK COUNTY - SNACC or any third party associated with Customer, will be charged to CLARK COUNTY - SNACC as a billable change order.



CLARK COUNTY - SNACC furthermore agrees that any delays caused by inadequate site readiness for which CLARK COUNTY - SNACC was responsible for may prohibit Aviat Networks from meeting the project completion date, and Aviat Networks may adjust the completion date. Unless otherwise agreed to in a mutually signed amendment to this SOW, any cost impact such delays might have on this SOW will be charged to CLARK COUNTY - SNACC as a billable change order. In the event of such delays, Aviat Networks and CLARK COUNTY - SNACC will make a reasonable effort to resolve the issue and mutually agree on new project milestones.

Documents, deliverables, and work submitted by Aviat Networks to CLARK COUNTY - SNACC shall be reviewed and approved in ten (10) working days from the date of receipt. If the documents, deliverables, or work submitted by Aviat Networks include equipment production or OEM ordering, Customer shall not review, approve, or comment on the documents, deliverables, or work, and the documents deliverables, or work shall, at Aviat's option, either be (i) placed on hold or (ii) deemed accepted.

Aviat shall invoice Customer for equipment upon shipment of the equipment. Aviat shall invoice Customer for services upon completion of the services. Customer shall pay all invoices issues by Aviat within thirty (30) days of Aviat's issuance of the invoice. If Customer does not pay an invoice within thirty (30) days of issuance of the invoice, Aviat shall assess a late penalty of the lesser of one-and-a-half percent (1.5%) or the greatest amount allowed by law.

Project Summary			
Number of Hops	7+1	Number of Sites	8
Number of parallel RF Channels	0	Number of Sites	0
Radio Equipment Family(ies)	IRU600 v4	Frequency Band(s)	6, 11
Link Capacity(ies)	200 Mbps	Protection Type(s)	MHSB
Traffic Type(s)	T1 and IP	Project Locations (States)	Las Vegas

#### 1.3. Supporting Documents

The following documents will be provided by Aviat Networks in support of this project and must be accepted by CLARK COUNTY - SNACC as part of the project completion. It is CLARK COUNTY - SNACC's responsibility to provide signed copies of the documents to Aviat Networks before the final project completion.

	Document	Master Document	Requires Customer Acceptance/Sign-off?
ס	Project Schedule	Project Schedule	Yes
ie	Statement of Work	This document	Yes
Planning	Statement of Work Sign-off	This document	Yes
	DC Power calculations	Design Freeze Package	No
	Design Freeze Package	Design Freeze Package	Yes
	Equipment List	Equipment List	No
	Frequency Datasheets	Path Survey Report	No
	Floor Plan	Installation Specifications	Yes
	IP Plan	Design Freeze Package	Yes
ign	NMS Plan	Design Freeze Package	Yes
Design	Path Calculations and Path Profiles	Path Survey Report	No
-	Path Survey Report	Path Survey Report	Yes
	Rack Profiles and Wiring Diagrams	Installation Specifications	No
	Site Survey Report	Site Survey Report	Yes
	Synchronization Plan	Design Freeze Package	No
	System Layout	Design Freeze Package	No
	Traffic Plan	Design Freeze Package	Yes
i <del>I</del>	Antenna Installation Checklist	Installation Specifications	No
Implementati on	Antenna Mounting Design	Installation Specifications	No
on on	Antenna System Audit Form	Installation Specifications	No
) Jple	As Built Record Sets	As Build Records	Yes
<u>=</u>	Change Order Form	This document	Yes



Equipment Installation Checklist	Installation Specifications	Yes
Field Acceptance Test Plan	Installation Specifications	Yes
Installation Specifications	Installation Specifications	No
Injury and Illness Prevention	Installation Specifications	No
Project Completion Sign-off	This document	Yes
Punch List Completion Report	Installation Specifications	Yes
Site Installation Completion Report	Installation Specifications	Yes
Traffic Cutover Plan	Installation Specifications	Yes
RF Cutover Plan	Installation Specifications	Not Quoted

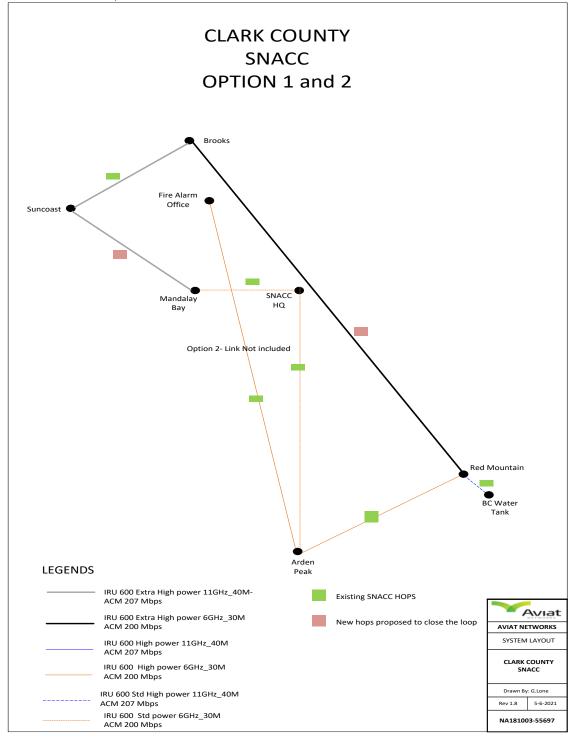


#### 1.4. System Summary

Aviat networks is pleased to present a proposal to SNACC for 8 Microwave hops which includes IRU 600 V4 indoor radios , eclipse indoor unit, new racks, antennas, waveguide, batteries, and accessories.

Aviat's quotes includes two options OPTION 1 - 8 Links

OPTION 2 - 7 Links, doesn't include link from FAO to ARDEN





### **Design Summary:**

Each link is designed as a point-to-point microwave link supporting T1's and Ethernet. All links are proposed using ACM in 30/40 MHz channel providing 180 Mbps of bandwidth at 256 QAM. The reference modulation where the reliability if 99.999> is 256 QAM with bandwidth of 180 Mbps at 6 GHz and 178 Mbps at 11 GHz.

### No layer 3 routers are included on this project, below are the hops that are included in Aviat Quote

HOP NO	SITE A	SITE B	Notes
1	Suncoast	Mandalay Bay	
2	SNACC HQ	Arden Peak	
3	Red Mountain	Brooks	
4	Red Mountain	BC Water Tank	
5	Mandalay Bay	SNACC HQ	
6	Red Mountain	Arden Peak	
7	Brooks	Suncoast	
8	Arden Peak	Fire Alarm Office	Optional hop

#### 1.4.1 Below are the main components proposed for these system

#### > IRU 600 Indoor RF Unit

- Next Generation Radio for all-indoor applications, first introduced in 2009
- High Tx power performance
- Low power consumption
- Compact 2RU mechanical design for 1+0, 2+0, MHSB, MHSB/SD, Repeater, FD, SD split Tx, N+0, N+N,
- Flexible antenna coupling options
- Minimal sparing (one RFU per band)
- Simple system/capacity expansion



# **AVIAT IRU 600**

5.8 (UL), L6, U6, 7, 8, 10, 11 GHz frequency bands
Standard, High, and Extra High Power options
Up to 400 Mbit/s per (40 MHz)
60/80 MHz channel-ready
Full native IP or hybrid mixed mode 48VDC operation, optional 24VDC NEBS Level 3 compliant

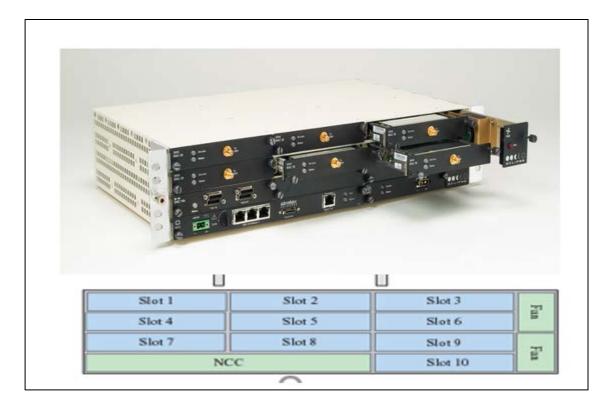


#### > INDOOR DATA UNIT

### **Eclipse Intelligent Nodal Unit (INUe)**

- 2RU with 10 option slots
- Supports:
- 6 non-protected links, or
- 1 protected and 4 non-protected, or
- 2 protected and 2 non-protected, or
- 3 protected





## > Protected T1 Card : To drop T1's

- DAC 16xV2 supports 16xE1 or 16xDS1 tributaries on compact HDR connectors.
- Features additional to those provided by DAC 16x include:
- Tributary protection
- Ethernet over E1/DS1 tribs
- Individual line code selection for AMI or B8ZS on DS1 tribs



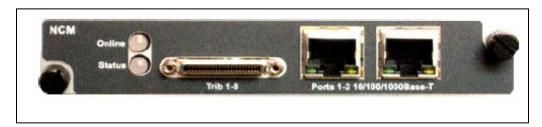
T1 Drops each hop: The demarcation point for T1's are the RJ 48 jack filed, below are the point to point T1 for each hop that can be dropped on each end.



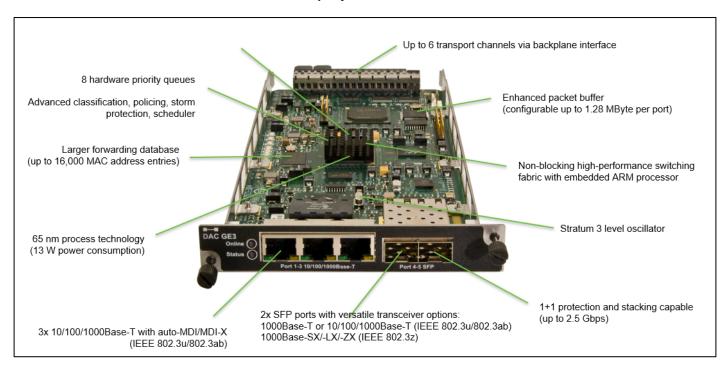
SNACC HQ	Arden Peak	64
Arden Peak	Red Mountain	16
Geneva	Henderson PD	16
SNACC HQ	Mandalay Bay	16
Brooks	Suncoast	16
Red Mountain	BC Water Tank	16
Fire Alarm Office	Arden Peak	32

## > The NCM (Network Convergence Module) Provides DS1 Loop-Switch Capability

For TDM loop protection each INUe is equipped with protect NCM card.



### > Protected Ethernet Card Dac GE 3 to drop layer 2 ethernet traffic:



### 1.4.2 Network Management System

• For System monitoring, Aviat has proposed new redundant EMS system i.e. Provision. The ProVision client software is installed on the WAN client server. The WAN clients are set up by installing a Windows Terminal Server (WTS) or an equivalent remote client solution such as Citrix Presentation Server.



- ProVision EMS provides full management solutions for all of Aviat Networks' new and legacy product platforms and can
  also provide fault management of any SNMP managed third party devices if preferred eliminating the need to maintain
  multiple management platforms in a single network.
- ProVision EMS provides comprehensive remote management and fault monitoring of a proposed Eclipse network including Network Element Auto Discovery, Radio and Ethernet link performance data collection, Network Health reporting, Carrier Ethernet VLAN, EOAM, Alarm and Events notifications via e-mail, SMS, or audible notifications and pop-up messages on PV Client users, Inventory management, Capacity management and Performance trends analysis tools, and End to End Circuits management and performance monitoring

#### 1.4.3 Power System

Aviat has proposed DC rectifier with -48VDC batteries on all sites. These rectifiers and batteries are used to power Aviat
provided equipment only.

#### Charger System:

Each Eltek charger has six slots for rectifier. We have quoted 1000 W/ 20 AMP rectifier at 110 VAC in a non-protected configuration. Each chassis gets 2 rectifier modules. (N+1) Redundant.

The charger capacity can be increased by adding rectifier modules in the empty slots.

The charger can be used in parallel with another charger, but it depends on the configuration of the other charger.

#### FlatpackS Power System



#### Battery System

The proposed batteries are 48 VDC TEL 10 years batteries. These are 19-inch rack mountable batteries.

The power system is designed for 8 hrs backup and with 24 hrs recharge time.

There is no battery proposed at FAO

#### 1.4.3 Antenna system

New RFS antenna and waveguide are proposed for all the new hops mentioned below. All the antennas would be labeled using black color paint and stencils.



HOP NO	SITE A	SITE B	New Antenna	Decommissioning of Existing Antenna
1	Suncoast	Mandalay Bay	YES	NOT APPLICABLE
2	SNACC HQ	Arden Peak	YES	YES
3	Red Mountain	Brooks	YES	NOT APPLICABLE
4	Red Mountain	BC Water Tank	YES	YES
5	Mandalay Bay	SNACC HQ	YES	YES
6	Red Mountain	Arden Peak	YES	YES
7	Brooks	Suncoast	YES	YES
8	Arden Peak	Fire Alarm Office	YES	YES

New Waveguide, dehydrator is proposed for all the hops.

## 1.4.4 Assumptions

- There is enough space to accommodate new racks on each location.
- Customer to provide its own routers.

## 1.4.5 Training

Aviat proposal includes 5 days training class on IRU600 and Provision.



### 1.5. MPLS Design Scope for Projects with this Feature

NOT PART OF THIS PROPOSAL.

### 1.6. Validity of Quote

A Quote is an invitation for an offer and a notice to Customer of these Conditions which automatically expires after one hundred and eighty (180) days from the date of Quote, (i) if Customer has not issued Aviat US a purchase order or (ii) if the Quote is not signed by Customer and returned to Aviat US within such time frame.

#### 1.7. Period of Performance

This project Period of Performance is 28 weeks After Receipt of Order (ARO), any delays beyond Aviat's control will be addressed as a change order to CLARK COUNTY - SNACC, this includes any changes to the design, field implementation and coordination requiring additional hours for Network Engineer, Configurations Engineer, Drafter, Transmission Engineer, Project Engineer, and field crews.

#### 1.8. Field Crew Mobilization

Aviat has included one (1) field crew mobilization(s) for the duration of field implementation phase, additional mobilizations will be billed on a time-and-expenses basis.

## 1.9. Battery Storage and Charging for projects that include batteries

#### **Storage Location**

If the battery is not to be installed at the time of receipt, it is recommended that it be stored indoors in a cool [77°F (25°C) or less], clean, dry location. Do not stack pallets or cell terminal damage may occur.

The storage interval from the date of battery shipment to the date of installation and initial charge should not exceed six (6) months. If extended storage is necessary, the battery should be charged at regular intervals until installation can be completed and float charging can be initiated. When in extended storage, it is advised to mark the battery pallets with the date of shipment and the date of every charge. If the battery is stored at 77°F (25°C) or below, the battery should be given a freshening charge within 6 months of the date of shipment and receive a freshening charge at 6-month intervals thereafter. Storage at elevated temperatures will result in accelerated rates of self-discharge. For every 18°F (10°C) temperature increase above 77°F (25°C), the time interval for the initial freshening charge and subsequent freshening charges should be halved. Thus, if a battery is stored at 95°F (35°C), the maximum storage interval between charges would be 3 months (reference Appendix B). Storage beyond these periods without proper charge can result in excessive sulphation of plates and positive grid corrosion which is detrimental to battery performance and life. Failure to charge accordingly may void the battery's warranty. Initial and freshening charge data should be saved and included with the battery historical records.



## 2. PLANNING AND DESIGN SERVICES AND RESPONSIBILITIES

## 2.1. Project Management

### 2.1.1.Project Management Services Provided by Aviat

Assigns an Aviat Networks Project Manager to manage the project 

 Yes 

No

## 2.1.2. Project Management Responsibilities

Planning:	
Develop project schedule for Aviat engineers	Yes
Develop project schedule for CLARK COUNTY - SNACC's supporting vendors	Customer
Establish an action register	Aviat
Establish a communications plan	Aviat and Customer
Establish a change management plan	Aviat and Customer
Establish a risk management strategy	Aviat
Provide quality standards and procedures document	Aviat
Establish a resource management plan for Aviat resources	Aviat
Develop a responsibility matrix, detailing principle team members by function	Aviat
Provide details of CLARK COUNTY - SNACC's principle team members by function	Customer
Provide details of CLARK COUNTY - SNACC's single point of contact for Aviat	Customer
Execution:	1
Act as primary point of contact for CLARK COUNTY - SNACC	Aviat
Finalize project terms and scope with CLARK COUNTY - SNACC	Aviat
Chair meetings to assign tasks, evaluate progress and address issues	Aviat
Coordinate Aviat Networks' day-to-day activities through to project signoff	Aviat
Coordinate CLARK COUNTY - SNACC's supporting vendors' day-to-day activities	Customer
Monitor progress against the agreed-upon project milestones	Aviat
Report on progress as agreed to in the communications plan	Aviat
Manage project risk through risk identification, quantification and mitigation	Aviat
Ensure the terms and conditions of the contract are complied with	Aviat
Closeout:	1
Manage project close-out activities	Aviat
Sign off on close-out activities and final deliverables	Customer

## 2.1.3. Aviat Networks Project Management Deliverables

✓ Project Schedule	✓ Action Register
Risk Management Strategy	Communication Plan
	▼ Progress Reports (as required)

Refer to *Appendix A* for further details regarding the Project Manager's role.



## 2.2. Microwave Network Design

Copies of equipment datasheets/user manuals	Aviat
---	-------

## 2.2.1. Network Design Responsibilities

Microwave system requirements	Customer
Existing traffic, IP and NMS plans	Customer
Anticipated channel plan requirements	Customer
Preliminary system design during or after initial proposal	Aviat
Preliminary path calculations for selected Aviat Networks radios	Aviat
esign:	<b>-</b>
Final equipment list	Aviat
Final path calculations and path profiles	Aviat
Site specific diagram (RP's and wiring diagrams)	Aviat
DS0 traffic plans	Customer
DS1/DS3/OC3 traffic plans	Aviat
IP traffic plans	Aviat
NMS plan	Aviat
Synchronization plan	Customer
DC power calculations	Aviat
Traffic cut-over plan and method of procedure	Aviat
Field acceptance test plan	Aviat
ign-off:	•
CLARK COUNTY - SNACC sign-off on final network design (design freeze)	Customer

## 2.2.2. Aviat Networks Design Deliverables

▼ Equipment List

✓ Design Freeze Package

Refer to *Appendix B* for further details regarding the network design.



## 2.3. Microwave Path Design

Path reliability	99.999>	
BER	O 10^3	● 10 <sup>6</sup>
CLARK COUNTY - SNACC exempt from FCC license fee	Yes	○ No

## 2.3.1.Path Design Services Provided by Aviat

RF interference paper study	Aviat
RF field measurements	Not Quoted

## 2.3.2.Path Design Responsibilities

Documents relating to tower or structural analysis and drawings	Customer
Documents relating to previous path surveys and frequency coordination	Customer
Historical path performance details on a per link basis	Customer
Path clearance objective for each path	Customer
Federal registration number (FRN) and username and password	Customer
Design:	l
Path surveys to confirm path reliability objectives	Aviat
Site elevation and coordinates	Customer
Existing antenna mounting structure description and information (tower type)	Aviat
Existing building description and information	Aviat
Site plan (drawing with major landmarks for location purposes)	Customer
Final path calculations and path profiles for each hop	Aviat
Identify locations of possible sources of spectral reflection	Aviat
Information concerning possible obstructions or obstacles	Aviat
Recommend antenna size, type, and mounting height	Aviat
Radio frequency coordination	Aviat
Tower permit application	Customer
Prepare and submit FCC license application (where applicable – Form 601)	Aviat
Prepare and submit environmental impact data	Customer
Provide required environmental approvals or permits	Customer
File FCC construction completion notice	Aviat
Sign-off:	- 1
Approve recommended antenna size, type and mounting height	Customer
CLARK COUNTY - SNACC sign-off on final path design	Customer

## 2.3.3. Aviat Networks Path Design Deliverables

✓ Microwave Path Survey Report

Frequency Datasheets

Refer to *Appendix C* for further details regarding the path design.



## 2.4. Project Engineering

## 2.4.1.Project Engineering Services Provided by Aviat

Floor plan for Aviat installation scope	Aviat
Traffic cutover plan	Aviat
RF cutover plan	Not Quoted
Field acceptance test plan	Aviat
Installation specifications	Aviat
Manage civil construction	No
Manage field installation	Aviat

## 2.4.2. Project Engineering Responsibilities

Documents relating to tower or structural analysis and drawings	Customer
Site access policies and procedures	Customer
Site access as required	Customer
Building/shelter/enclosure access as required	Customer
esign:	I
Site surveys	Aviat
Existing tower description and information (tower type)	Aviat
Existing building description and information	Aviat
Site plan (drawing with major landmarks for location purposes)	Customer
Environmental data (if required)	Customer
Flooring, ceiling, racking data, and requirements to mount new hardware	Customer
All power, existing and future, with breaker assignments	Customer
Recommendation for placement of new equipment	Aviat and Customer
Identify and define antenna mounting hardware	Aviat
Identify any grounding issues and recommend improvements	Aviat
Identify demarcation types and location between new and existing equipment	Customer
Existing waveguide dehydrator information and their associated cabling	Aviat
All structural information regarding power generator	Customer
Recommendation for any site or shelter upgrades	Customer
Recommendation for tower upgrades	Customer
xecution:	1
Coordinate day-to-day field install activities through to project signoff	Aviat
Monitor field installation progress against the agreed-upon project milestones	Aviat
Report on field installation progress as agreed to in the communications plan	Aviat
Ensure proper site readiness prior to the install start date	Customer
Coordinate Aviat change orders until project completion	Aviat
Coordinate system acceptance and project completion	Aviat
Coordinate finalization of project close-out drawings and documents	Aviat
Review quality checklists and photos for defects	Aviat



## 2.4.3. Aviat Networks Project Engineering Deliverables

- ✓ Microwave Site Survey Report
- ▼ Traffic Cutover Plan
- RF Cutover Plan
- Field Acceptance Test Plan
- ✓ Installation Specification
- ▼ Project Closeout Package

Refer to *Appendix D* for further details regarding Project Engineering.



## 3. Installation, Integration & Testing

## 3.1. Installation Services

Tower installation	Customer
Antenna system installation	Aviat
Transmission line installation	Aviat
Shelter installation	Customer
Indoor equipment and rack installation	Aviat
AC power equipment	Customer
DC power equipment	Aviat
Ground installation	Customer
Antenna alignment	Aviat

## 3.2. Integration Services

Microwave equipment integration	Aviat
Dehydrator integration	Aviat
Integrate new equipment into existing NMS	Aviat

## 3.3. Testing Services

Station test	Aviat
Hop test	Aviat
System test	Aviat
Traffic cutover	Aviat
RF cutover	Not Quoted

## 3.4. Installation, Integration, & Testing Responsibilities

General project responsibilities:	
Obtain all necessary environmental and public agency approvals/documentation	Customer
Obtain all necessary construction permits and documentation	Customer
Access to sites in accordance with the project schedule	Customer
Normal road access for all project related vehicles	Customer
Transport of Aviat Networks supplied equipment to Customer warehouse	Aviat
Transport of Aviat Networks supplied equipment to sites	Aviat
Transport of Aviat Networks personnel to and from sites	Aviat
Safety and first aid material and supplies to Aviat Networks personnel	Aviat
Site & civil services:	
Leasing, zoning, permits and inspections	Customer
Soil analysis or provide report	Customer
Foundation design for tower/shelter	Customer
Site construction (demolition, grading, erosion control, drainage, etc.)	Customer
Civil documentation for existing shelters and towers	Customer
Structural design package required to support proposed antenna system	Customer
Structural analysis report for the existing and new antenna system	Customer
Site layout drawings, plot plans or applicable architectural blueprints	Customer
Locate and mark all site boundaries and features	Customer



Secure storage for all equipment including radios, antennas and racks	Optional
Standard equipment packaging	Aviat
Unpack Aviat Networks equipment and remove packing material from site	Aviat
Verify packing list to specifications	Aviat
stallation services:	
Tower installation:	
Antenna system support structures: towers, monopoles and tripods	Customer
Ground resistivity measurements and report of newly installed ground system	Customer
Install tower foundation	Customer
Tower painting	Customer
Provide and install tower lights	Customer
Provide and install safety climb and safety climb ladder	Customer
Provide and install lightning rod	Customer
Provide and install platform	Customer
Provide and install footing hardware and penetrations for structure on rooftops	Customer
Adequate earth ground in accordance with EIA/TIE standard 222G	Customer
Connect tower ground to site ground, in accordance with EIA/TIA standard 222G	Customer
Provide and install standard tower leg pipe mounts	Aviat
Provide and paint antennas to match structure or specific color	Not Quoted
Provide and paint lines to match structure or specific color	Not Quoted
Provide and install tower or rooftop pole mounts	Customer
Provide and install any required steel support members for side braces	Aviat
Provide and install specialized antenna mounts	Not Quoted
Provide and install standard face mounts	Not Quoted
All RF/microwave antenna mounting brackets	Aviat
Antenna feeder window/bridge and cable tray supports	Customer
Antennas and radomes at specified centerlines	Aviat
Ice shields at specified locations	Not Quoted
Manlift rental for BC Water Tank and Geneva sites	Aviat
Transmission line installation:	
Waveguide ladders	Customer
Waveguide bridges	Customer
Rooftop sleepers for transmission lines and ground plates	Customer
Provide and install cable trays	Customer
Provide and install transmission lines	Aviat
Provide and install hanger kits and ground kits	Aviat
Penetrate building walls or roof and install waveguide ports and entry plates	Customer
Provide and install waveguide or coax boots at entry plates	Aviat
Provide and install lightning protector at entry points	Aviat
Provide and install conduit	Customer
	Aviat
Terminate and label waveguide or coax runs  Shelter installation:	Aviat
	0
Provide shelters, cabinets or enclosures  Provide and install shelter foundation	Customer Customer



Shelter installation	Customer
ndoor equipment and rack installation:	
Provide and install cable ladders or trays	Customer
Provide and install new racks in specified locations	Aviat
Provide and install bracing supports	Aviat
Provide and install pressurization equipment	Aviat
C/DC power equipment and/or ground installation:	
Perform electrical (underground conduits, trenching, AC power source, etc.)	Customer
Provide and install ground ring	Customer
Provide and install generator and fuel tank	Customer
Provide and install AC circuit breakers to support Aviat Networks equipment	Customer
Provide and install AC feeds from AC distribution to charger or UPS equipment	Customer
Provide and install DC circuit breakers to support Aviat Networks equipment	Aviat
Provide and install charger racks	Aviat
Provide and install battery into charger rack or on floor as required	Aviat
eld integration services	
Integrate Aviat Networks microwave equipment	Aviat
Integrate rack ground to ground distribution in shelter	Aviat
Integrate DC wiring to specified distribution panels	Aviat
Integrate payload wiring to designated demarcation	Aviat
Integrate Ethernet wiring to designated demarcation	Aviat
Integrate alarm contacts to designated demarcation	Aviat
Integrate battery wiring to designated chargers	Aviat
Connect radio antenna ports to waveguide flex sections	Aviat
Set dehydrator pressure to 4psi	Aviat
Integrate new equipment into existing NMS	Aviat
Customize NMS alarm designations	Aviat
esting services:	
Review and approve Aviat field acceptance test plan	Customer
Station test:	
Perform grounding inspection	Customer
Perform equipment inspection	Customer
Hop test:	
Perform antenna system test	Aviat
Measure return loss and distance-to-fault of waveguide terminated at antenna within	Aviat
antenna frequency range  Verify airtightness, by turning pressurization valve off for 4 hours and measuring pressure drop on each line (<0.5 PSI)	Aviat
Perform DC power system test	Aviat
Measure charger floating/equalization voltages	Aviat
Measure voltages on each battery cell	Aviat
Verify charger/battery switching	Aviat
Perform microwave equipment test	Aviat
Perform transmit power output test	Aviat
Perform receive signal level test	Aviat



Perform receiver threshold (fade margin) test	Aviat				
Perform transmitter/receiver switching test	Aviat				
Perform Layer 1 link aggregation test	Not Quoted				
Perform Layer 2 link aggregation test	Not Quoted				
Perform adaptive modulation test	Aviat				
Perform Ethernet test	Aviat				
Perform AUX alarm/data card test	Aviat				
Perform channel bank test	Customer				
Verify VF continuity/level at 1KHz	Customer				
Verify operation of E/M signaling	Customer				
Perform multiplexer test	Not Quoted				
Perform IP phone test	Not Quoted				
Perform dehydrator test	Not Quoted				
Perform 1-hour BER test on primary radio and 1-hour BER test on standby radio	Not Quoted				
ystem test:					
Perform ring wrapping or Ethernet Ring Protection (ERP) tests	Aviat				
Perform IP phone test	Not Quoted				
Perform network continuity test	Aviat				
Perform provision element manager test	Aviat				
Perform 12-hour BER test on primary side	Aviat				
Perform 12-hour BER test on standby side	Aviat				
Traffic/RF cutover:					
Provide technical personnel familiar with existing equipment and cutover plan  Custo					
Schedule cutover of all complete traffic immediately following installation	Aviat and Customer				
Transfer circuit wiring	Aviat				
Verify integrity of circuits being cutover	Customer				
Perform RF cutover	Not Quoted				
Perform traffic cutover	Aviat				
nal site acceptance procedure:	l				
Notify all parties involved of site completion	Aviat				
Perform site installation inspection	Customer				
Complete indoor quality checklist	Aviat				
Complete tower quality checklist	Aviat				
Submit final punch list of all deficiencies to be corrected to Aviat	Customer				
Identify all critical punch list items	Customer				
Review, agree and sign off on final punch list	Aviat and Customer				
Sign off on Aviat Networks site installation checklist form	Customer				
nal system acceptance procedure	I				
Sign off on Aviat Networks field acceptance test results	Customer				
Resolution of Customer vendor issues affecting completion or project	Customer				
Sign off on Aviat Networks installation completion report	Customer				
Sign off on project acceptance based on acceptance criteria of project	Customer				
Issue final invoice for services upon acceptance of the system	Aviat				



Provide as-built drawings for Aviat provided equipment	Aviat

## 3.5. Aviat Networks Installation, Integration, & Testing Deliverables

- ✓ Site Installation Completion Report
- Quality Checklists
- System Installation Completion Report
- Field Acceptance Test Report (completed)
- ▼ Punch List Completion Report
- As-built Record Sets

Refer to *Appendix F* for further details regarding the installation, integration, and testing services.



## 4. Equipment Decommission

## 4.1. Decommission Services

Antenna system, qty 14 antennas	Aviat
Transmission line, qty 14 lines	Aviat
Pipe mount, qty 14	Aviat
Radios for replacement links	Aviat
DC chargers for ones being replaced	Not Quoted
Battery for ones being replaced	Not Quoted
Dispose decommissioned equipment	Aviat



## 5. APPENDIX A: PROJECT MANAGEMENT

#### Responsibilities

Aviat Networks will assign an Aviat representative to be the primary point of contact for this SOW ("Project Manager") for the duration of the project. The Project Manager will work with CLARK COUNTY - SNACC to facilitate effective resource management, escalations, approval processes, scheduling, communication, and reporting with Aviat engineers and other designated vendors as needed. The Project Manager is responsible for maintaining control of the project and assuring compliance with the project and Customer specifications. Aviat Networks will not be responsible for the resolution of CLARK COUNTY - SNACC vendor issues affecting the completion of the project. Any documentation and standards not listed in this SOW will default to Aviat Networks standards, where applicable.

Although face-to-face communication and on-site meetings with CLARK COUNTY - SNACC are essential elements of the service, some activities that do not require face-to-face contact will be performed in the Project Manager's Aviat Networks office in order to reduce travel and living costs. These activities are at the discretion of the Project Manager. Refer to section 2.1.2 for a full list of Project Management responsibilities.

#### **Project Schedule**

The project schedule for Aviat engineers, Aviat sub-contractors, and for CLARK COUNTY - SNACC's supporting vendors will be developed (or updated if a schedule is included with this proposal) and maintained in Microsoft Project and will identify project deliverables, key milestones, resource assignments, and track project progress against each milestone. CLARK COUNTY - SNACC and Aviat Networks agree to collaboratively review and agree to the project milestones and deliverable dates prior to the execution of any services on the project. A copy of the project schedule will be available upon request in .pdf or .mpp format.

It will be the responsibility of CLARK COUNTY - SNACC to track and deliver against all CLARK COUNTY - SNACC internal (including CLARK COUNTY - SNACC sub-contractors) milestones. The overall project plan generated by the Aviat Networks Project Manager will show major deliverable milestones, but not internal milestones of CLARK COUNTY - SNACC or their contractors. Tracking of CLARK COUNTY - SNACC and CLARK COUNTY - SNACC's contractor internal milestones will remain the responsibility of the CLARK COUNTY - SNACC.

#### Communications Plan

Establishment of a communications plan will be done in accordance with the principles of project management established by the Project Management Institute (PMI®) unless otherwise agreed to. The plan will involve representatives from Aviat Networks and CLARK COUNTY - SNACC and any other entities as mutually agreed between the parties for project kickoff meetings, periodic progress meetings, or problem escalations as needed. The plan will include the location and frequency of any such meetings, the format for formal communication and meeting minutes, attendee or distribution lists with contact details, methods of communication, and escalation and management level lists.

CLARK COUNTY - SNACC will make appropriate staff available for regular consultation and meetings with the Aviat Networks Project Manager. Customer's failure to attend regular meetings or respond to Aviat Networks questions in a timely manner could result in a delay of the project deliverables and a billable change order.

#### Change Management Plan

Establishment of a change management plan will be done in accordance with the principles of project management established by the Project Management Institute (PMI®) and will include confirmation from Aviat Networks and CLARK COUNTY - SNACC's understanding of the process. Each party will work closely with the other to manage any scope changes through the term of the project and understand their impact on the project performance from a cost, quality, and schedule perspective. Any such change may be subject to a change order fee and will be communicated to CLARK COUNTY - SNACC prior to the implementation of the change. Any change order approvals will be submitted in writing. Refer to section 1.2 and Appendix B for more details on change orders.

### **Quality Standards and Procedures**

Quality standards and procedures documents will be provided by CLARK COUNTY - SNACC prior to execution of this SOW. If no documentation is provided by CLARK COUNTY - SNACC prior to execution of this SOW, the standards and procedures will default to Aviat Networks best practices guide.

#### Resource Management Plan

Establishment of a resource management plan will be done in accordance with the principles of project management established by the Project Management Institute (PMI®), identifying principle team members by function, including backup resources (if required).

#### **Closeout Activities**

During the project closeout, all quality photos will be reviewed, completion documents will be signed with no exceptions, RMA completed, and final billing and invoicing released. It is recommended that CLARK COUNTY - SNACC provide Aviat Networks with performance feedback during this time to promote continuous improvement within Aviat Networks.



#### **CLARK COUNTY - SNACC Responsibilities**

#### CLARK COUNTY - SNACC shall:

- Provide details of CLARK COUNTY SNACC's principle team members by function during the project kickoff meeting.
- Provide details of CLARK COUNTY SNACC's single point of contact for Aviat during the project kickoff meeting.
- Provide all other relevant documentation or resources to assist in gathering information not stated in this SOW.
- · Provide access to sites, shelters, buildings, enclosures, facilities or any other areas as required.
- Provide updates as necessary of any site readiness issues to be resolved prior to start of work. This includes, and is not limited to, permitting, leasing, zoning, insurance, etc.
- · Provide security clearances and/or escorts as required for field survey and installation activities.
- Provide access to pertinent databases, planning requirements, including strategic plans, expansion scenarios, growth projections, introduction of new services and wireless technology.

#### Deliverables

Refer to section 2.1.3 for a full list of Aviat Networks project management deliverables.



#### 6. APPENDIX B: NETWORK ENGINEERING

#### Microwave System and Network Design

The Aviat Networks representative who oversees the network ("Network Engineer") will provide the overall technical direction of the system design and will work with CLARK COUNTY - SNACC to insure system integrity, verify that all sub-systems and Aviat Networks furnished OEM equipment is compatible, and that the desired performance of the system is realized.

The network design portion of the project consists of three phases:

- 1. Preliminary design
- 2. Final design
- 3. Design freeze

#### Preliminary Design Phase

During the preliminary design phase, the Network Engineer will gather data to establish the design criteria and any special Customer requirements that need to be incorporated into the final design. The Network Engineer will review and translate the system configuration into specific hardware requirements. Equipment selection will be based on the requirements, input and requests from CLARK COUNTY - SNACC, functionality of the equipment, and recommendations from the Network Engineer. Aviat Networks will provide CLARK COUNTY - SNACC with a summary of the preliminary system design prior to commencing field surveys. All preliminary designs are subject to change. Changes can include, but are not limited to changes based on:

- · Survey results.
- Vendor shortages or long lead times.
- Customer requests.
- Engineering recommendations.

#### **Design Finalization Phase**

After receipt of the order and the project kickoff meeting, Aviat Networks and CLARK COUNTY - SNACC enter into the design finalization phase. During this phase, the Network Engineer will incorporate any required changes stemming from the path and/or site surveys into the design and confirm the final design details. Changes can include but not limited to:

- Antennas (types, sizes, models, quantities, and mounts).
- Waveguide (types and lengths), waveguide accessories and dehydrators.
- Power systems, cabling, and other material that could not be finalized prior to conducting the field surveys.

During this phase, CLARK COUNTY - SNACC may also request changes to the system design if the changes fall within the original scope and hours of the projects. Any changes outside of the original scope or agreed schedule are subject to review and acceptance by Aviat Networks to determine the impact and cost on the overall project.

Aviat Networks will provide a formal submission detailing the final system design and equipment list and highlight changes needed to the preliminary design. CLARK COUNTY - SNACC shall review the data and schedule a meeting, if necessary, to discuss any concerns. If no concerns are noted, it is CLARK COUNTY - SNACC's responsibility to approve the final design in writing (email is acceptable) before the design is frozen and equipment is placed on order (unless otherwise agreed to in this SOW or with the Project Manager). Any delay in the approval of the final design could result in a delay in material delivery to the field. This might require a review by CLARK COUNTY - SNACC and Aviat Networks of the project schedule and deadlines.

#### Design Freeze Phase

As part of the Design Finalization Phase, a date will be set for the design freeze at which the final design and all changes must be approved and accepted by both parties. Following the design freeze, the Bill of Materials and documentation will be submitted to Aviat's factory and the system will be scheduled for manufacturing. The Network Engineer will concurrently review all design documents and finalize any traffic plans, NMS plans, synchronization plans, traffic cutover requirements, as well as any special factory and field acceptance testing requirements for the project. During the Design Freeze Phase, the design is frozen and no further changes to the system design will be accepted without a formal change order and reevaluation of the project and delivery schedules. Refer to the project schedule for details on the planned start and finish dates for each of these phases.

#### **Deliverables**

Refer to section 2.2.3 for a full list of Aviat Networks design deliverables.

- The equipment list refers to the final bill of material ("BOM").
- The design freeze package refers to the final path calculations, path profiles, rack profile and system drawings, traffic plans, IP plans, NMS plans, synchronization plans, and/or DC power calculations.



#### 7. APPENDIX C: TRANSMISSION ENGINEERING

#### Microwave Path Design

The Aviat Networks representative who oversees transmission ("Transmission Engineer") ensures the delivery of the best possible network solution by providing the technical direction for the over-the-path RF performance of Aviat Networks system implementation. All microwave paths designs are preliminary, pending final path surveys and frequency coordination. This includes:

- Antenna selections, antenna centerlines, and antenna mounts.
- Total transmission line lengths.
- Path calculations and profiles.
- The size, type, quantity and configuration of each component.

Equipment proposals are simply a reflection of these preliminary designs and subject to change. It is further understood that any changes to existing or proposed antenna centerlines could justify the need for tower stress analysis or, if modification is impractical, construction of a new tower. Any such requirements will be the responsibility of CLARK COUNTY - SNACC unless otherwise stated in the Agreement.

In the event that CLARK COUNTY - SNACC elects not to use Aviat Networks to perform path surveys, the performance of the microwave system will not be guaranteed by Aviat Networks and it will be up to CLARK COUNTY - SNACC to resolve any path reliability or obstruction issues. Refer to the Warranty of Path Engineering Services section below for further detail.

In the event that Customer selects Aviat Networks to perform the path surveys, a formal submission detailing the results of the path survey and highlight changes needed to the preliminary design will be submitted to CLARK COUNTY - SNACC. It is expected that CLARK COUNTY - SNACC review the path survey data and schedule a meeting, if necessary, to discuss any concerns or alternate means of providing path continuity/system reliability. If no feedback is received from CLARK COUNTY - SNACC before the final system design approval, Aviat Networks will assume CLARK COUNTY - SNACC's acceptance of the survey data, and will immediately proceed with frequency coordination (if applicable).

#### Microwave Path Survey, Frequency Planning and Licensing

The microwave path survey shall include the following services:

- Identify geographical location of sites and antenna, waveguide length and tower requirements.
- Verify path clearance objectives for each of the paths from existing or new tower locations.
- Document obstruction, critical points, and reflection points in each of the paths.
- Verify tower coordinates and site elevations.
- Establish coordinates and height requirements for new towers, as needed for governmental agency registration and licenses filed by CLARK COUNTY SNACC.
- Confirm antenna centerlines and waveguide length requirements. Catalog antennas on the existing structures noting any
  space limitations in the survey report. An Aviat engineer will review the tower for new antenna design space limitations
  specific to this project only but will not perform a complete tower audit.
- Perform frequency coordination based on available FCC records to reduce the potential for interference between internal or external radio sources on a given system or network.
- Aviat Networks, upon receipt of CLARK COUNTY SNACC's authorization, will prepare the FCC License Application Form 601 with the appropriate technical data. Information such as site location, radio type, and frequency will be listed. Aviat Networks will complete and submit the Construction Complete Form 601 on line via FCC Universal Licensing System ("ULS").
- File Antenna Structure Registration ("ASR") form for towers over 200 feet.

The results of the survey will be utilized by Aviat Networks for preparation of final performance calculations, frequency coordination, government licensing, and tower registration requirements. In the event where Aviat Networks will not be performing the path survey, CLARK COUNTY - SNACC shall provide all the documents needed for Aviat Networks to complete the frequency coordination, licensing, and final system design. Aviat Networks will not be held accountable for validating the accuracy of the information provided by CLARK COUNTY - SNACC and assumes no responsibility in any inaccuracies of any part of the path engineering based on the information provided by CLARK COUNTY - SNACC or any contact affiliated with CLARK COUNTY - SNACC. Any corrective action required as a result of this will be billed to CLARK COUNTY - SNACC as a billable change order.

## Survey Procedures

Preliminary path profiles are drawn based on the supplied site coordinates and contour information extracted from the best available topographic mapping. A field site survey is conducted to verify site coordinates and elevations based on North American Datum 1983 ("NAD83") and gather information related to the proposed radio equipment and antenna locations, site access, and site development constraints. A field path survey is then conducted to verify path profile elevations, measure all natural and manmade potential obstructions and assess the reflective potential of all natural and manmade surfaces. Antenna centerline heights were calculated for the proposed frequency band by applying suitable clearance criteria based on the propagation characteristics of the geographic area. The path survey report is considered to be a representation of the information gathered in the field and as such, reflects a snap-shot in time at the time of the survey. It is not intended to show the final as-built configuration if any of the parameters were changed or updated after the survey report has been released.



Path calculation sheets are then generated for each hop, based upon the recommended centerline heights. Antenna sizes and the choice of propagation protection diversity are chosen to meet the required fade margin and the desired path propagation reliability. Propagation outage and reliability calculations are based on the Vigants model (ref. "Space Diversity Engineering", BSTJ, 1/75).

#### Design Criteria

Path clearance criteria must be established for each path on the basis of total system performance objectives, economic considerations, and careful analysis of local atmospheric conditions derived from published climatological data, where available, and reported microwave transmission experience pertinent to the area. Antenna heights much greater than actually needed cause an unwarranted increase in system cost, and on paths with significant ground reflections, this can increase the exposure to multipath and ground reflection signal fading. It is desirable to locate the antennas high enough so that even under severe super-standard atmospheric refractive conditions (surface ducting) there is adequate clearance such that signal entrapment does not significantly degrade the fade margin of the path or generate excessive multipath fade activity. The choice of clearance criteria for a microwave path is a balance between cost and performance.

The path clearance criterion as applied to a given geographic area is a function of the degree and direction of atmospheric beam bending and can conveniently be defined by the equivalent earth radius K factor:

$$K = \frac{\textit{Effective Earth's Radius}}{\textit{Actual Earth's Radius}}$$

The median propagation value of K = 4/3 allows the normal microwave horizon to be slightly extended when compared to the optical horizon; however, under certain meteorological conditions (for example, during nighttime super-refractivity usually associated with temperature inversions) the value of K increases to 2 or greater for periods of several minutes to several hours. This increases the path clearance and results in the heavy multipath fade activity seen on some reflective paths and antenna decoupling power fading on others.

#### Clearance Criteria

The criteria used to design a radio path in regions where the C-factor is equal to or less than 1:

- Main to Main:
  - 100% first Fresnel zone radius over K=4/3, or
  - 60% first Fresnel zone radius over K=1, whichever is greater
- Main to Diversity:
  - o 60% first Fresnel zone radius over K=4/3 (Not Applicable)

The criteria used to design a radio path in regions where the C-factor is greater than 1:

- Main to Main:
  - o 100% first Fresnel zone radius over K=4/3, or
  - o 30% first Fresnel zone radius over K=2/3, whichever is greater
- Main to Diversity:
  - o 60% first Fresnel zone radius over K=4/3 (Not Applicable)

#### Microwave path performance calculations and warranties

The microwave path design models most frequently employed within the industry (e.g., Vigants, and ITU-R P-530) provide a reasonably accurate (and therefore usually guaranteed) estimate of the cumulative time a path will be out of service due to random atmospheric multipath fading under normal atmospheric conditions. **These models do not (and cannot) accommodate abnormal, unusual, anomalous, or otherwise unpredictable conditions of weather or atmospheric refractivity.** 

#### Microwave frequency engineering/inter-system interference analysis

Aviat Networks will partner with Comsearch, a CommScope company, to provide cost-effective frequency planning and FCC licensing services for radio communications systems (if required). The planning software used, considers specific operating parameters of both the proposed microwave system and the environment microwave systems (license and proposed) to properly consider the interference potential of the new path or system. Parameters and data elements incorporated into the modeling include, but are not limited to:

- Antenna type, antenna height, elevation, antenna radiation pattern
- Receiver filter performance
- Terrain
- Radio modulation
- Path orientation
- Receiver threshold

These elements are required to accurately predict specific interfering levels into and from the existing microwave systems. The accuracy of the calculations is ensured by real-time maintenance of the Comsearch point-to-point microwave, earth station, radio equipment, antenna, interference objective, and contact database.



#### Microwave frequency selection

The interference analysis performed on the microwave system identifies available frequencies considering existing and proposed systems found in the Comsearch database. When applicable, an analysis of the systems in the adjacent bands can be done to ensure the microwave system does not receive unwanted threshold degradation. In bands shared with satellite systems, an analysis of potential interference with earth stations and with the geo-stationary satellite orbit can also be done. Additionally, co-located or nearby transmitters already licensed in the required frequency band can be identified in order to reduce the possibility of "bucking" an existing high/low frequency plan that could increase the possibility of receiver overload or reflective interference from a nearby system.

#### Microwave frequency coordination and FCC licensing

The majority of microwave bands subject to FCC Rule Part 101 require prior coordination with existing licensees. Aviat Networks will partner with Comsearch to perform the frequency coordination and FCC licensing on behalf of the Customer (if required). The procedure will include notification of the technical parameters of the proposed system to all existing and proposed licensees in the area and frequency band of operation. Frequency coordination will also be performed with Canadian and Mexican authorities in border areas when necessary. By FCC rule, recipients are given 30 days to respond, or in some cases an expedited response can be requested.

Upon completion of the prior coordination process, documentation required to satisfy FCC Rule Part 101.103 (d) can be prepared on behalf of the Customer. This will include any necessary exhibits, including supplemental showings required upon submittal of the requested license application. The FCC filing process includes:

- Filing of the FCC Form 601 microwave application upon written approval from Customer and providing an electronic copy of the application to Customer via email.
- Tracking the status of the application until the license is granted by the FCC. Amendments will be handled expeditiously on behalf of Customer for any questions or concerns from the FCC.
- Email notifications to the licensee when the license is granted by the FCC.
- Filing of the required completion of construction notification with the FCC upon written approval from the licensee and notification of the filing via email.

#### **Special Considerations**

On all microwave radio paths traversing urban areas there exists the possibility of multiple on- and off-path structural reflections which generate long-delayed echoes, as well as terrain scatter RF intra- and inter-system interference. Long delayed, low-level echoes have no effect on digital radio performance; however, the terrain scatter mechanism cannot be accurately predicted nor precisely measured without an extensive and expensive field trial. Consequently, this mechanism is specifically excluded from all current industry-wide path survey and frequency coordination performance guarantees.

The structure supporting the microwave antenna can take many forms. The antenna is most often mounted on a tower but can be mounted on a variety of structures such as roof tripods, penthouse wall, wooden telephone pole, or metal monopole. It is recommended that Customer conduct a structural analysis of the support structure to determine if the structure will support the additional loading imposed by the antenna and its mount. The structure must also meet the twist and sway requirements per EIA/ANSI 222G.

### Site Access

Access to work sites will be made available by CLARK COUNTY - SNACC for a minimum of 10 hours per day, 5 days per week or per the agreed schedule in the project plan. All roads leading to work sites shall not require more than a 4-wheel drive vehicle unless stated otherwise and agreed to by both CLARK COUNTY - SNACC and Aviat Networks. Any delays or additional cost caused by poor road conditions or site access issues not discussed prior to the start of the surveys will be billed to CLARK COUNTY - SNACC as a billable change order and could have a negative impact on the project completion schedule.

#### FCC Rules for Filing Accuracy

CFR 47, Part 1.929 specifies that filing accuracy for site coordinates shall be (+/-) 1" latitude and longitude, and for ground elevation (+/-) 1 meter (3.28 ft.). Part 1.929(k) (covering modification of FCC licenses) specifies that any change in site coordinates >5" latitude or longitude shall require prior authorization and re-coordination. Therefore, wherever our survey results deviate more than (+/-) 5" latitude or longitude, or more than +3.28 ft. site elevation, frequency re-coordination will be recommended.

#### Terms and Conditions

When Aviat Networks performs reliability calculations or path studies (path profiles from mapping or digitized data only) based solely on information supplied by or on behalf of the Customer, these calculations and studies are provided solely for budgetary purposes and shall not be construed as or be used for an installable design.

When conducting a path survey, Aviat Networks will verify site coordinates and ground elevations, and record trees and man-made fixed obstructions on the path. This information will be recorded on the profile for that particular path. Aviat Networks will assign an appropriate growth factor to tree heights.

When Aviat Networks performs frequency planning based, in part or its totality, on data provided by the Customer at the time of the study, Aviat Networks will not be responsible for any interference case that might arise due to errors or omissions in such data. As



the usage of microwave bands increase and there is more sharing with satellite services, it may be necessary to perform frequency interference studies and additional path surveys (to determine blockage) to alleviate the possibility of interference from satellite earth stations.

#### Warranty of Path Engineering Services

Aviat Networks warrants that the installed radio communication path will conform to Customer's multipath performance reliability objectives when Aviat Networks has performed the path survey, recommended the path design, and implemented such recommendations. This warranty is for a period of fifteen (15) months from the date of the survey or one (1) year from the date of installation of the microwave path, whichever expires first. All Aviat Networks field activities and path propagation analysis will utilize current hardware, software, engineering practices and judgment with the goal of meeting normal Path Loss, as defined in TIA/EIA Standard RS-252-A.

Aviat Networks is not responsible for paths that it does not survey, nor for changes in path design beyond those specifically allowed in the path survey report or in writing after the field survey is completed, including but not limited to:

- Any change in path design;
- Any movement in site locations;
- Any building or other structure built on-path after date of survey;
- Any disturbance of the terrain which may cause blockage or reflection;
- Any additional frequency interference source;
- · Any change of available antenna mounting space on tower.

Any one of these changes listed will nullify the warranty, and the Customer shall in such case bear the total cost of determining that such change was the cause.

Aviat Networks will not be responsible for degraded path performance when such degradation is due to such anomalous propagation conditions as:

- Long-term loss of fade margin due to antenna decoupling misalignment caused by widely-varying k-factor changes;
- Long-term loss of fade margin due to atmospheric boundary layering ("ABL") causing wave front defocusing (beam spreading), signal entrapment (blackout fading), ducting, and other such occurrence.
- Excessive rain outage rates beyond the published crane and/or chart data used in the calculation;
- Degradation resulting from certain types of multipath interference attributed to unidentifiable off-path terrain features or structures;
- Any other technological or atmospheric condition not foreseeable through the exercise of prudent engineering knowledge and judgment.

Additionally, Aviat Networks will not be responsible for degraded path performance when:

- Non-Aviat Networks radio equipment is installed on a surveyed path;
- Aviat Networks radio equipment is not installed by Aviat Networks;
- Existing antenna and waveguide system is used without test and inspection performed by Aviat Networks.

Aviat Networks designs the microwave path based upon engineering practices and standards common to the industry. When path loss or reliability objectives are not achieved, Customer's sole remedy, and Aviat Networks' exclusive liability in connection with path engineering, shall be that Aviat Networks will provide incremental labor and material to optimize the antenna system to meet the requirements created during initial installation.

Where anomalous propagation is suspected in an installed microwave path, Aviat Networks will work with the Customer to obtain reasonable evidence that such condition exists. The total retroactive costs for such study shall be the responsibility of the Customer, and Aviat Networks will provide in-office engineering support at Customer's expense. The cost of relocating towers, antennas, passive reflectors, or other measures required to remedy this type of problem shall solely be the responsibility of the Customer.

#### Deliverables

Refer to section 2.3.3 for a full list of Aviat Networks path design deliverables.



#### Limitations

THE LIMITED WARRANTY CONTAINED IN THIS SOW CONSTITUTES AVIAT NETWORKS' SOLE AND EXCLUSIVE LIABILITY HEREUNDER AND CUSTOMER'S SOLE AND EXCLUSIVE REMEDY FOR DEFECTIVE OR NON-CONFORMING EQUIPMENT, SERVICES, AND SOFTWARE MEDIA OR LICENSED PROGRAMS. THE FOREGOING WARRANTIES ARE IN LIEU OF ALL OTHER WARRANTIES (EXCEPT AS TO TITLE), WHETHER ORAL, WRITTEN, EXPRESS, IMPLIED, OR STATUTORY, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OR CONDITION OF MERCHANTABILITY, ANY IMPLIED WARRANTY OR CONDITION OF FITNESS FOR A PARTICULAR PURPOSE, OR ANY WARRANTY OR CONDITION ARISING OUT OF COURSE OF DEALING, COURSE OF PERFORMANCE, OR CUSTOM OR USAGE OF TRADE. CUSTOMER AGREES THAT NO CIRCUMSTANCE CAUSING CUSTOMER'S EXCLUSIVE AND LIMITED REMEDIES TO FAIL IN THEIR ESSENTIAL PURPOSE SHALL INCREASE OR EXTEND ANY AVIAT NETWORKS WARRANTY. THE TOTAL LIABILITY OF AVIAT NETWORKS AND ITS LICENSORS UNDER THIS WARRANTY SHALL IN ANY EVENT BE SUBJECT TO THE LIMITATIONS IN THIS SOW.

ANY WARRANTY CLAIM NOT SENT TO AVIAT NETWORKS IN WRITING DURING THE APPLICABLE WARRANTY PERIOD IS WAIVED BY CUSTOMER. REPLACEMENT EQUIPMENT, SERVICES, SOFTWARE MEDIA AND LICENSED AVIAT NETWORKS PROGRAMS ARE WARRANTED ONLY FOR THE BALANCE OF THE UNEXPIRED PORTION OF THE ORIGINAL WARRANTY PERIOD, IF ANY.

CUSTOMER IS EXPRESSLY NOTIFIED THAT UNDER NO CIRCUMSTANCES SHALL AVIAT NETWORKS BE LIABLE FOR (A) ANY SPECIAL, INDIRECT, INCIDENTAL, PUNITIVE OR CONSEQUENTIAL DAMAGES OF ANY PARTY, INCLUDING THIRD PARTIES, EVEN IF SUCH DAMAGES ARE FORESEEABLE, OR (B) LOSS OF REVENUE, LOSS OF PROFITS, LOSS OF BUSINESS, LOSS OF USE, LOST SAVINGS, OR LOST OR CORRUPTED DATA, OR (C) LOSSES RESULTING FROM SYSTEM SHUTDOWN, FAILURE TO ACCURATELY TRANSFER, READ OR TRANSMIT INFORMATION, FAILURE TO UPDATE OR PROVIDE CORRECT INFORMATION, SYSTEM INCOMPATIBILITY OR PROVIDING INCORRECT COMPATIBILITY INFORMATION OR BREACHES IN SYSTEM SECURITY EVEN IF AVIAT NETWORKS HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES. THIS LIMITATION SHALL APPLY TO ANY CLAIM OR CAUSE OF ACTION WHETHER IN CONTRACT OR TORT (INCLUDING NEGLIGENCE, STRICT LIABILITY OR BREACH OF WARRANTY).

IN NO EVENT SHALL AVIAT NETWORKS' TOTAL LIABILITY TO CUSTOMER OR ANY PARTY CLAIMING THROUGH CUSTOMER EXCEED THE LESSER OF ONE HUNDRED THOUSAND UNITED STATES DOLLARS (\$100,000.00 USD) OR THE ACTUAL SALES PRICE PAID BY CUSTOMER FOR ANY EQUIPMENT, SOFTWARE OR SERVICES SUPPLIED UNDER THIS SOW.



### 8. APPENDIX D: PROJECT ENGINEERING

#### Microwave Site Design

The Aviat representative overseeing implementation ("Project Engineer") will perform field site surveys to verify that telecommunications equipment can be installed, powered and commissioned effectively at each site, antennas, waveguide and accessories can be connected to radios (towers, shelters and buildings), and Customer traffic, alarms and dehydrator lines are fully engineered.

#### Microwave Site Survey

The microwave site survey is intended to gather data and identify the gap(s) between the site's present state and the site readiness for equipment installation, document any visible issue with the existing infrastructure and equipment that would pose a quality or safety issue during installation, gather environmental data and requirements for telecommunication equipment to function properly (including but not limited to HVAC, temperature, humidity, the general state of the facility as well as seismic evaluation and compliance if required), record flooring, ceiling, racking data and requirements to mount new equipment (including floor plans, relay rack profiles, aisle numbering plans, and ceiling hangers, ladders, and anchor materials required to meet quality and safety standards.

The survey is also intended to record AC, DC, grounding (as is and to be), and breaker assignments and ensure power and grounding standards are met, identify demarcation types and location between new and existing equipment as well as the type of termination and the details required to terminate to the Customer provided equipment, identify existing radio equipment (fixed and mobile) as well as their operating frequencies, record existing waveguide, dehydrator component and their associated cabling, identify all required or existing tower structures, mounting structures, antenna mounting types, waveguide ladder systems, entryway into telecom shelters, and energy sources.

The results of the survey will be published and released in a site survey report and will be utilized by Aviat Networks for preparation of final power calculations, waveguide requirements, field OEM requirements, installation specifications, field test plans, and traffic cutover plans. In the event where Aviat Networks will not be performing the site survey, CLARK COUNTY - SNACC shall provide all the documents needed to Aviat Networks to complete the site engineering and final system design. Aviat Networks will not be responsible for validating the accuracy of the information provided by CLARK COUNTY - SNACC and assumes no responsibility in any inaccuracies of any part of the site engineering and microwave site design when such design is based on the information provided by CLARK COUNTY - SNACC or any contact affiliated with CLARK COUNTY - SNACC. Any corrective action required as a result of this will be billed to CLARK COUNTY - SNACC as a billable change order.

#### Site Access

Access to work sites will be made available by CLARK COUNTY - SNACC for a minimum of 10 hours per day, 5 days per week or per the agreed schedule in the project plan. All roads leading to work sites shall not require more than a 4-wheel drive vehicle unless stated otherwise in this SOW and agreed to by both CLARK COUNTY - SNACC and Aviat Networks. Any delays or additional cost caused by poor road conditions or site access issues not discussed prior to the start of the surveys will be billed to CLARK COUNTY - SNACC as a billable change order and may have a negative impact on the project completion schedule.

#### Field Installation Management

Aviat Networks will manage the day-to-day activities of the field installation with support from CLARK COUNTY - SNACC to ensure the project remains on schedule as per the agreed project schedule.

#### **Deliverables**

Refer to section 2.4.3 for a full list of Aviat Networks site design deliverables.



### 9. APPENDIX E: INSTALLATION, INTEGRATION & TESTING

The installation, integration, and testing services include design-supported methodologies, product expertise, and field-proven processes to help ensure a quality installation and testing of critical system paths and hardware so that the network performs according to its design. Aviat Networks will designate a primary point of contact to answer any CLARK COUNTY - SNACC questions, provide guidance, and address issues specific to this service.

This SOW is based on an Aviat Networks standard installation schedule of 10-hour days, 5 days per week. Aviat Networks will adjust this SOW for work week schedules outside of Aviat Networks' standard. Installation work performed during maintenance windows is not included in this SOW unless specifically identified. All work will be done in accordance with Aviat Networks' best practices guide.

#### Scope

Delivery of this service will utilize the design documentation developed as part of the planning and design phase. Field crews will utilize this documentation to:

- Install antenna systems
- Install transmission lines
- Install indoor microwave equipment, racks and components
- Install DC power equipment
- Perform antenna alignment
- Perform system integration
- Perform system testing

System implementation is predicated upon completion of civil construction and complete site readiness. Antenna, waveguide and equipment installation activities will be performed at the same time on a per-site basis. As part of the delivery of this service, Aviat Networks may choose to integrate equipment at the manufacturer's location to minimize onsite installation time and provide a common point for quality assurance inspections. If staging areas are utilized as part of the project, equipment and materials will be delivered from these facilities to site by the installation crews. It is recommended that CLARK COUNTY - SNACC provide maintenance technicians during any service affecting work.

The successful completion of all installation, integration, and testing services are based on uninterrupted, contiguous-site installation and testing. Additional mobilizations are not included in the pricing and project schedule. If installation is delayed due to inclement weather, inaccessible sites(s), incomplete site preparation, or construction, the following charges may apply and will be billed to CLARK COUNTY - SNACC as a billable change order:

- Standby time for antenna installation teams will be charged at a rate of \$1,150 per person per day.
- Standby time for radio teams will be charged at a rate of \$1,250 per person per day.
- If re-mobilization of the installation crew is necessary, then a two-week advance notice is required.
- Re-mobilization will be billed on a time-and-expenses basis.
- Service costing assumes use of 4-wheel drive vehicles for all project related vehicles. Additional requirements such as ATVs
  may require additional service costs.
- If the field crew(s) is required to work out of contiguous sequence due to conditions beyond the control of Aviat Networks, a
  charge equal to one day for each crew person will be assessed to the Customer for each occurrence.

#### Site Access

Access to work sites will be made available by CLARK COUNTY - SNACC for a minimum of 10 hours per day, 5 days per week or per the agreed schedule in the project plan. All roads leading to work sites shall not require more than a 4-wheel drive vehicle unless stated otherwise is this SOW and agreed to by both CLARK COUNTY - SNACC and Aviat Networks. Any delays or additional cost caused by poor road conditions or site access issues not discussed prior to the start of the installation, integration or testing services will be billed to CLARK COUNTY - SNACC as a billable change order and could have a negative impact on the project completion schedule.

#### Site Services

All work permits, public agency approvals, leasing agreements, zoning permits or inspections required at each site, soil analysis, foundation design, civil documentation for existing shelters or towers, architectural blueprints, plot plans, structural analysis for new or existing antenna systems, location of all site boundaries and features (including locating and marking tower location, true North, property boundaries, paved areas, landscaping, fences and any other underground/overhead obstruction which could interfere with construction and access), and/or other related documentation for this project will be obtained, conducted, completed and made available to all parties involved prior to the start of any installation, integration or testing services. All other construction and installation work will be conducted in accordance with local city, county, state, and government laws and regulations.

All equipment including radios, antennas and racks will be stored by Customer in a secure location at the site or at a designated location. CLARK COUNTY - SNACC shall be responsible for the loss of any equipment, tools, or personal belongings from any secured location provided or monitored by CLARK COUNTY - SNACC.



#### Installation

CLARK COUNTY - SNACC shall verify that each site is ready for installation and commissioning activities, including CLARK COUNTY - SNACC supplied equipment installation and power up prior to the start of any such services and shall be responsible for any delay caused or cost incurred due to sites not being ready, as stated in the project scope of this SOW.

An inspection will be performed with CLARK COUNTY - SNACC after completing the physical installation. Workmanship deficiencies will be noted on a punch list for immediate correction. This inspection is not intended to verify operation of the new system or suitability of components, but rather to inventory and document that all equipment and materials from the schedule of values are installed to acceptable workmanship quality standards. Site drawings will be reviewed and red-lined to reflect the installed condition.

#### **Testing**

Test crews will begin work immediately after installation is complete. Testing, based on a standard set of Aviat Network test cases, will be performed on all provided equipment to confirm configuration, operation and manufacturer's specifications. Test data will be recorded on field test sheets, by technical field personnel who will also be responsible for documenting test results and any changes made to the design documentation.

The test crews will be trained on the equipment and utilize test equipment to perform all tests. Test equipment will have valid calibration certifications, which can be verified prior to commencing any tests. It is recommended that CLARK COUNTY - SNACC take the opportunity to have their maintenance technicians witness or participate in field commissioning testing to gain on-the-job training and experience on the new system components.

Commissioning tests will consist of a set of standard Aviat Networks test cases and include turn-up and performance verification tests and circuit tests to verify end-to-end continuity and equipment operation as well as any other tests documented in the field acceptance test plan. The field acceptance test plan shall be approved and agreed to by Aviat Networks and CLARK COUNTY - SNACC prior to test execution. Test results will be recorded on field test data sheets and submitted to CLARK COUNTY - SNACC. Refer to the field acceptance test document for details on the test to be performed.

System tests will be performed on a logical section/loop of the system. The system tests will be designed to demonstrate performance and functionality of system features as-well as end-to-end operation of individual circuits/services. System test results will establish benchmark system performance and operation prior to cut-over and acceptance. The test data sheets prepared during commissioning and system testing will become the base line document for maintenance and performance evaluation of the system over an extended period of time. CLARK COUNTY - SNACC will be required to review the commissioning and acceptance testing and results and red-lined drawings and provide approval of the data and authorization to proceed with cut-over activities.

### Traffic Cut-over

Cut-over activities are anticipated to occur as DC, antenna and radio sub-systems are implemented. The Commissioning and system-level test activities verify that the new system is ready to accept traffic. Preparation, planning, logistics, and technical support are the critical elements in transferring existing services to a new system. CLARK COUNTY - SNACC infrastructure is utilized for control of mission critical infrastructure; therefore, processes must also be put in place to minimize interruptions as well as to restore the original service in the event of unforeseen situations.

#### Safety

The health and safety of all individuals, whether in the field, plant or office, takes precedence over all other concerns. Management's goal is to prevent accidents and to reduce personal injury and occupational illness and comply with all safety and health standards. A code of safe conduct is important to the efficiency of operations. To the greatest degree possible, CLARK COUNTY - SNACC will provide physical safeguards required for personal safety and health in keeping with the highest standards. Aviat Networks requires a written report from Customer for all accidents and incidents, no matter how small.

Safety and first aid material and supplies will be provided to all Aviat Network construction and installation personnel or made available at each site for the duration of this project. All safety and first aid material will be stocked at acceptable levels and will have not exceeded the expiration dates where applicable. CLARK COUNTY - SNACC will be responsible for providing Aviat Networks with the location and phone numbers of all local emergency agencies.

#### Deliverables

Refer to section 4.5 for a full list of Aviat Networks installation, integration, & testing deliverables.



## 10. APPENDIX F: ASSUMPTIONS & EXCLUSIONS

The following assumptions will govern the delivery of the project management service:

- This SOW and associated pricing is based on CLARK COUNTY SNACC completing all items set forth in this SOW as being CLARK COUNTY SNACC responsibility to ensure site readiness.
- Any inaccuracies in FCC data may drive additional services costs during field implementation. In addition, any other
  troubleshooting tasks related to frequency interference issues that are not directly attributable to Aviat Networks are
  subject to additional service fees at rates define in this SOW.
- All equipment interconnections or termination points, unless specified otherwise, are estimated to be fifty (50) feet. This project does not include any cabling between buildings, rooms, or floors, unless specifically identified in this SOW.
- Customer provided construction drawings will have sufficient details for Aviat engineering to order antenna mounting or
  any other related material required. Any re-engineering to provide correct mounts or material required by Aviat Networks
  may increase cost to CLARK COUNTY SNACC.

Unless otherwise stated in this SOW, the services provided by Aviat in this SOW shall be subject to the following terms:

- Aviat shall not be responsibility for managing CLARK COUNTY SNACC project responsibilities and deliverables.
- This SOW is a listing of roles and responsibilities to be provided by Aviat Networks. Aviat Networks shall not be
  responsible for the condition of existing equipment or the deficiencies of non-Aviat Networks provided labor. Only the labor
  addressed in this SOW shall be provided by Aviat Networks.
- On-site technicians will decline any CLARK COUNTY SNACC request for work outside the scope of work defined and agreed upon in this SOW unless it is addressed in a change order.
- Aviat Networks proprietary documentation used by service delivery teams to perform this service is not available to CLARK COUNTY - SNACC.
- Aviat shall not provide proprietary information on methods, procedures, or tools to perform the services in this SOW.
- Aviat shall not perform any and services that are not specifically described within this SOW as being provided by Aviat Networks.
- Aviat Networks will not be responsible for the resolution of other vendor issues affecting the completion of the cutover.
   Aviat Networks can provide guidance and support to CLARK COUNTY SNACC in resolving interoperability issues, where applicable.
- Aviat shall not repair equipment not in the engineering drawings. Equipment requiring repair that is not included in the engineering drawings but is still under warranty must follow Aviat's repair and return procedures.
- Additions or changes to ironwork, cable racks, or fiber ducts are not included and can be quoted separately after site visit
  information is collected
- AC power drop wiring within three (3) feet of DC power plants is excluded, unless specifically quoted



## 11. APPENDIX G: FIELD CHANGE ORDER PROCEDURE

Any change to the proposed system configuration, the number of sites, type of equipment, type of services or project responsibilities, or any other change to this SOW will be considered as a change in scope and will be subject to the following process:

- The Customer or Aviat Networks identifies a change of project scope of work.
- Aviat Networks Project Manager or Network Engineer will submit a proposed field change order authorization or an amendment to this SOW containing documentation of the proposed additional activity and an additional cost.
- An authorized Customer representative shall review and approve the field change order authorization or the amendment to this SOW in writing prior to changes to the scope of work being started.



Aviat Networks 200 Parker Drive, Suite C100A Austin, Texas 78728 United States Phone: (512) 582-4600 Fax: (512) 582-4605

**CHANGE ORDER FORM** 

CLARK COUNTY - SNACC SNACC MW replacement NA181003-55697

Customer: CLARK COUNTY - SNACC

This amendment hereby modifies and amends the Statement of Work ("SOW") between Aviat, U.S., Inc. ("Aviat Networks") and CLARK COUNTY - SNACC ("Customer") entered into on [insert SOW effective date here] as follows:

The following products and services are hereby <added/deleted> to the SOW at the specified prices. All other terms and conditions of the SOW remain unchanged.

Contract #:

	Phone:		Contract Da	ate:		
	Fax:		Change Orde	r #:		
	Email:		Aviat SC	) #:		
Line #	Descri	otion		QTY +/(-)	Unit Price	Ext Price +/(-)
1				• •		•
2						
3						
4						
5						
6						
7						
8						
9						
					Subtotal Booking	\$
				Ta	ax (as applicable)	\$
					Freight	\$
					Other	\$
				TOTAI	L THIS CHANGE	\$

Aviat U.S., Inc.	CLARK COUNTY - SNACC		
Approved By:	Approved By:		
Print Name:	Print Name:		
Title:	Title:		
Date:	Date:		



## 12. STATEMENT OF WORK SIGN-OFF

CLARK COUNTY - SNACC SNACC MW replacement NA181003-55697

Aviat Networks and CLARK COUNTY - SNACC agree that this SOW will govern the scope, roles, and responsibilities associated with the delivery of this project.

The parties also agree that material changes to the project scope or deviations from the assignment of responsibilities between Aviat Networks and CLARK COUNTY - SNACC shall require a change order or amendment to the project schedule.

Aviat U.S., Inc.	CLARK COUNTY - SNACC	
Approved By:	Approved By:	
Print Name:	Print Name:	
Title:	Title:	
Date:	Date:	



## 13. PROJECT COMPLETION SIGN-OFF

Complete one page for every site.
CLARK COUNTY - SNACC
SNACC MW replacement
NA181003-55697
<Site Name>

Aviat U.S., Inc.
Approved By:

Print Name:

Title:

Date:

	Equipment:
he i	Aviat Networks supplied microwave equipment has been completely installed and tested and has been accepted for traffic us the following exceptions:  Exceptions (use additional sheets if required):

**CLARK COUNTY - SNACC** 

Approved By:

Print Name:

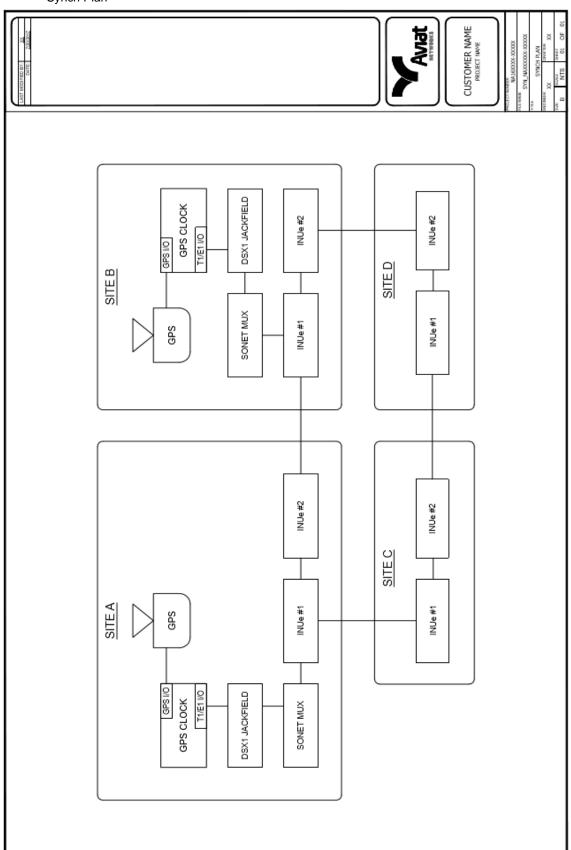
Title:

Date:

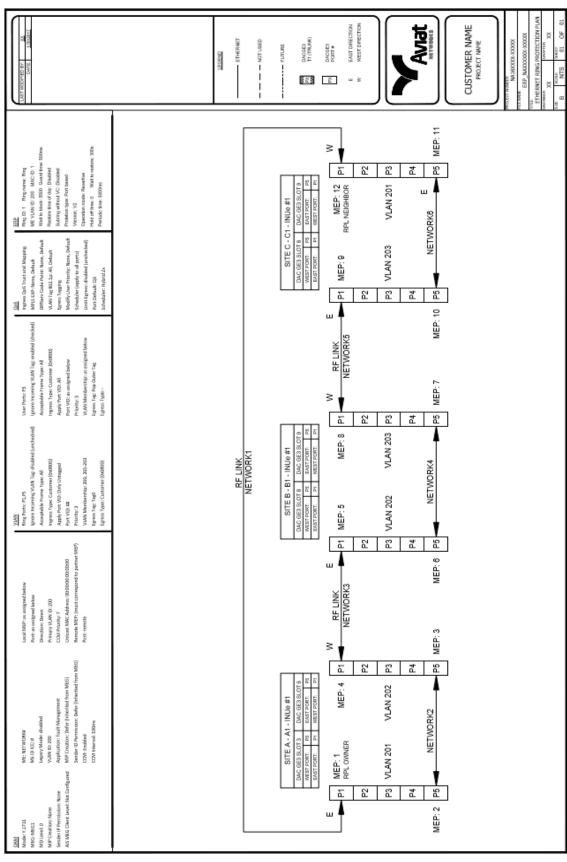


## 14. Aviat Standard Drawings

Synch Plan

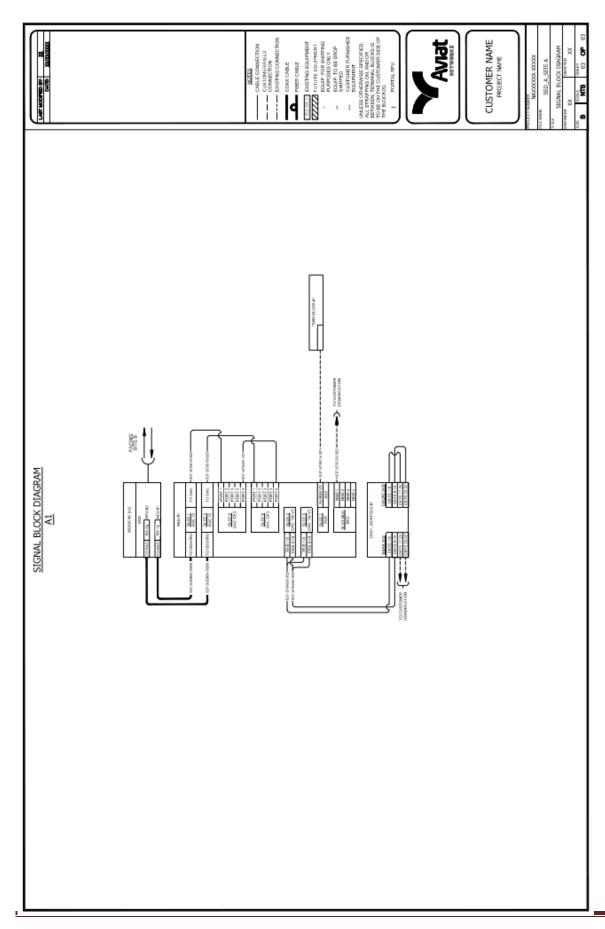




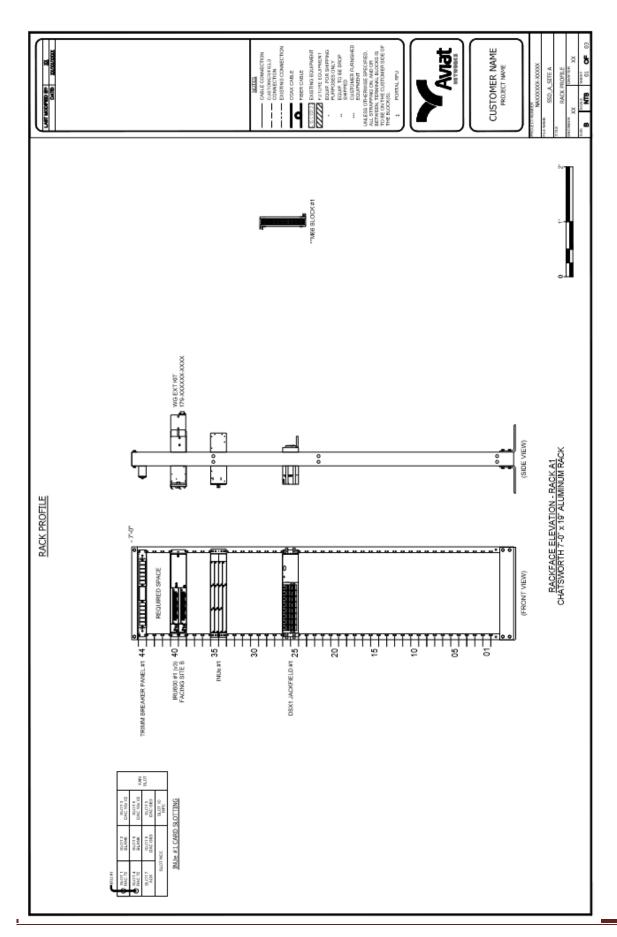


Ethernet Ring Protection plan (ERP)











#### Sample Power Calculations



Eclipse Packet Node Power Consumption Calculation *Proposal #:* NA130208-50689

Date: November 20, 2014

Network Engineer: M. Del Fierro

Site Name: Princeton

		Manual Entry
RFU / Module Type	Consumption	Qty
IRU600 1+1 High Power	124 W	1
RAC 60E	12 W	2
DAC GE V3	13 W	1
DAC 16X	2.5 W	2
luno.		_
NPC	8 W	1
INU or INUe	13 W	1
TOTAL		187.00 W

Total AMPS @ 48Vdc:	3.90 A

Additional Equipment Load

Additional Equipment Load		
Description	Consumption	Qty
TOTAL		0.00 W

Additional AMPS @ 48Vdc:	0.00 A
	0.0071

Station Load (Amps)	3.90 A
Recharge Time (Hours)	24
Battery Reserve (Hours)	8
Ampere-Hour Multiplier	8.0
Termperature Correction Factor	1

Min. Battery Plant Size (AMP-HRS)	31
in. Charger System Size (AMP Rating)	5
WATTS to BTIVHR	794

(incl. charger and equipment)

NOTE: Dehydrators operate with AC power

Hours Reserve 2 4 6 8 12 24

Amp-Hour multiplier 2.8 4.7 6.4 8.0 10.9 19.3

Temperature F(Deg) 0 10 20 40 60 70 77

Correction Factor 2.0 1.85 1.59 1.3 1.11 1.04 1.0

Battery Size (Min) = Station Load X Amp-Hour Multiplier X Correction Factor

Charger Size (Min) = (1.15 X Battery Size / Recharge Time) + Station Load

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Turquoise	Asentria	SiteBoss S550-6	NA	NA	Yes	Yes	NA P	MA 10.0.0.18	255.255.255.240 (/28)	default	default	default			public	private			11	1/20/2014						
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# Southern Nevada Area Communications Council Agenda Item

Issue: For the Board to approve the quote from Motorola on the Juniper routers needed for the Microwave project.	<b>Date:</b> June 15, 2022
Petitioner: Jason Manzo, SNACC Administrator	Agenda Item: 4
Recommendation - FOR POSSIBLE ACTION:  For the Board to approve the quote from Motorola on the Juniper routers needed and/or take action as necessary.	for the Microwave project

### Fiscal Impact:

\$452,076

#### Background:

These routers are necessary for the microwave project as they are public safety grade and they can re-route the traffic back to the SNACC master site, if one of the microwave hops goes down.

**Respectfully Submitted:** 

Jason Manzo

**SNACC Administrator** 



# SOUTHERN NEVADA AREA COMMUNICATIONS COUNCIL

MPLS BACKHAUL April 1, 2022

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Motorola Solutions, Inc. 500 W Monroe Street Chicago, IL 60661-3781

April 1, 2022

Jason Manzo Acting Administrator Southern Nevada Area Communications Council 6000 East Rochelle Ave. Las Vegas, NV 89112

RE: Multi-Protocol Label Switching (MPLS) Juniper MX104 routers

Dear Mr. Manzo,

Motorola is pleased to offer a proposal on the request from the Southern Nevada Area Communications Council ("SNACC"), a solution for adding Multi-Protocol Label Switching (MPLS) to SNACC microwave backhaul using the Juniper MX104 routers, which supports Motorola's ASTRO 25 network.

This proposal shall remain valid for 90 days from the date of this letter, and is subject to the terms and conditions of the Contract previously entered into by the SNACC and Motorola effective December 1, 2014 (the "Contract"). Motorola's proposal is subject to the terms and conditions of the Contract and the enclosed payment milestones and applicable supplemental subscription terms. To accept Motorola's proposal, the SNACC may either issue a purchase order that incorporates by reference the Contract and Motorola's proposal dated April 1, 2022 or alternatively, SNACC and Motorola may execute a written change order to the Contract. Motorola would be pleased to address any concerns that you may have regarding the proposal.

Any questions the SNACC has regarding this proposal can be directed to Dane Mattoon, Sr. Account Executive, at (702) 400-2808, Dane.mattoon@motorolasoltuions.com.

Our goal is to provide the SNACC with the best products and services available in the communications industry. We thank you for the opportunity to present our proposal, and we look forward to continuing to work with you to develop and implement a solution that meets your needs.

Sincerely,

Motorola Solutions, Inc.

Walter Whately Area Sales Manager

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# SYSTEM DESCRIPTION

## 1.1 INTRODUCTION

Based on the request from the Southern Nevada Area Communications Council ("SNACC"), Motorola Solutions Inc. ("Motorola") is presenting this solution for adding Multi-Protocol Label Switching (MPLS) to SNACC microwave backhaul which supports Motorola's ASTRO 25 network. The MPLS solution enable traffic engineering and shaping on the network.

## 1.2 MPLS BACKHAUL NETWORK DESIGN

Motorola Solution proposes a MPLS WAN Backhaul Network using the Juniper MX104 routers. These routers shall be deployed at each of the following SNACC sites to support the development of MPLS backhaul network. Each MX104 unit/chassis features a high level of redundancy through the inclusion of redundant power supplies, routing engines, and fans. This proposal includes MPLS equipment for following sites:

Name of the Site	Power	Equipment	Redundant / Non-Redundant MPLS Routers (Y/N)
Brooks	DC	MX104-PREM-DC	Υ
Sun coast	DC	MX104-PREM-DC	Υ
Fire Alarm Office	DC	MX104-MX5 (DC)	N
Mandalay Bay	DC	MX104-PREM-DC	Υ
SNACC HQ	DC	MX104-PREM-DC	Υ
Arden Peak	DC	MX104-PREM-DC	Υ
Red Mountain	DC	MX104-PREM-DC	Υ
BC Water Tank	DC	MX104-MX5 (DC)	N

Table 1-1: Site and Equipment Listing

In addition to the above equipment, Motorola has also included one SRX320 Juniper firewall to go at the master site for management. A set of spares for all above MX104 routers is included in the proposal.

Please note that at sites with no MW connectivity (Henderson P.D. and Geneva), Motorola will need a L2 Ethernet connection going to any other MW site in the network.

## 1.3 THEORY OF OPERATION

The MPLS routers will use MPLS in order to route traffic and maintain redundant links to all available sites in the network. MPLS (Multiprotocol Label Switching) is a method for engineering traffic patterns by assigning short labels to network packets that describe how to forward them through the network. MPLS is independent of routing tables or any routing protocol and can be used for unicast packets. Traffic is engineered (controlled) primarily by the use of signaling protocols to establish label-switched paths (LSPs). The backhaul

network will use MPLS to maintain and route traffic over the network architecture. In the event of a site link failure, the routers will reroute the traffic over the redundant links if available to maintain connectivity to all Customer's network application including the P25 Radio System. The traffic rerouting occurs in a small amount of time, so very minimum interruption of those network applications will be experienced.

#### 1.4 MPLS CAPABILITIES AND BENEFITS

#### **FAST CONVERGENCE**

The integrated network offers the necessary reliability to maintain uninterrupted operation for both voice and data traffic. A single failure on the network ring in any part of the network will not impact the network capabilities. By finding alternative routes quickly around the failure, the end users will not be affected or aware a ring switch has occurred. A key capability of MPLS is that it provides a mechanism in which the connections are rerouted around the failure in sub 50 milliseconds using a feature called FAST reroute (FRR). Fast reroute (FRR) is available to route around a detected failure within 50 ms, similar to the protection provided from many current SONET platforms. Further, due to the support of back-up paths, the ultimate back-up path is predetermined and pre-signaled to insure proper Quality of Service not only during normal operating conditions, but also in the event of a network disruption.

While strong platform resiliency attributes are needed, the use of IP/MPLS as a packet transport infrastructure provides rapid, deterministic failure accommodation in the network. Traffic engineering tools can be used offline to model single failures and ensure they can be accommodated. When one of the links fails, an MPLS protection mechanism such as fast reroute or secondary LSP protection can switch the traffic to the other working link at speeds comparable to SONET architectures after detecting the link failure.

If the traffic load exceeds the capacity of the remaining link, advanced traffic management mechanisms will ensure the protection of the higher priority traffic, with best-effort data being transmitted according to available excess bandwidth.

#### TRAFFIC PRIORITIZATION

Another key benefit of MPLS is Traffic Prioritization. As discussed above, in a reroute scenario, the high priority MPLS connections will take precedence over lower priority traffic insuring mission critical traffic reaches its destination. However, traffic prioritization also provides benefits during normal operations. The network operator will be able to define which traffic type or agency's traffic has priority. During periods of high traffic demand, important traffic will be guaranteed to reach its destination according to defined required requirements. A range of prioritization classifications is available. MPLS allows convergence over a common transport layer and dynamic bandwidth allocation, enabling low cost backhaul. Critical, time sensitive traffic (such as Land Mobile Radio) can be prioritized in an IP/MPLS tunnel in order to ensure it will reach its destination just like it was "wired" to the base station directly. Each service can have a specific bandwidth assignment for necessary or committed rate and/or a peak information rate to burst up to as additional bandwidth comes available when other applications are through communicating.

#### 1.5 JUNIPER MPLS ROUTER – MX104

The SDN-ready MX104 Universal Routing Platform is a modular, highly redundant, and fullfeatured platform built for space- and power-constrained service provider and enterprise facilities.

The MX104 offers 80 Gbps of capacity, a redundant control plane for high availability, as well as four fixed 10GbE ports and four Modular Interface Card (MIC) slots for flexible network connectivity and virtualized network services. Optimized for mobile applications and central office deployments, the MX104 is also ETSI 300 compliant, environmentally hardened for deployment in outside cabinets and remote terminals, and supports advanced timing features.

Powered by Junos OS and the programmable Trio chipset, the MX104 shares the same advanced routing, switching, security, and service features that are available in large MX Series platforms, including support for a wide range of L2/L3 VPN services and advanced broadband network gateway functions.

Deployed in mission-critical service providers and enterprise networks worldwide, the MX104 helps network operators transform their networks—and their businesses—to thrive in our hyper-connected world.

The SDN-ready MX104 3D Universal Edge Router is a modular, highly redundant, and fullfeatured MX Series platform built for space- and power-constrained service provider and enterprise facilities.



Figure 1-1: MX104 Universal Edge Router

#### Each MX104 chassis provides:

- 160 Gbps capacity
- Two (2) DC Power Supplies
- Two (2) Routing Engines (Control Plane)
- Two (2) MIC Interface cards. Up to four (4) cards can be supported in a single chassis

# **EQUIPMENT LIST**

Table 2-1: Project Equipment List

QTY	NOMENCLATURE	DESCRIPTION
6	DSIGMX104PREMDC	MX104-PREM-DC-BNDL
12	DSIGMIC3D20GESFPE	MIC-3D-20GE-SFP-E
2	DSIGMX104MX5DC	MX104-MX5-DC
1	DSSRX320	JUNIPER NETWORKS SRX320 SERVICES GATEWAY HW ONLY
1	DSSRX320JSB	JUNOS SRX320 SECURE BRANCH SOFTWARE
1	DSIGSVCCPSRX320HW	JUNIPER CARE CORE PLUS SUPPORT FOR SRX320 HW ONLY - 12 MONTHS
1	DSIGSRX320RMK0	SRX320 RACK MOUNT KIT WITH ADAPTOR TRAY
1	DSIGMX104MX5AC	MX104 - MX5, 20X1GE, 1 S-MIC SLOTS AC
1	DSIGMX104MX5DC	MX104 - MX5, 20X1GE, 1 S-MIC SLOTS DC
1	DSSRX320	JUNIPER NETWORKS SRX320 SERVICES GATEWAY HW ONLY
1	DSSRX320JSB	JUNOS SRX320 SECURE BRANCH SOFTWARE
1	DSIGSVCCPSRX320HW	JUNIPER CARE CORE PLUS SUPPORT FOR SRX320 HW ONLY - 12 MONTHS
1	DSIGSRX320RMK0	SRX320 RACK MOUNT KIT WITH ADAPTOR TRAY
6	DSIGSVCNDMX104	ND SUPPORT FOR MX104
2	DSIGSVCNDMX104MX5	NDS FOR MX104-MX5-AC AND MX104-MX5-DC

## STATEMENT OF WORK

## 3.1 INTRODUCTION

Motorola will install and configure the proposed equipment summarized in the attached System Description and Equipment List. The following table describes the project tasks and responsibilities involved throughout the lifecycle of the project.

Prior to starting any equipment installations, Motorola and SNACC shall conduct a site readiness review examine existing work, or work performed by others, that is required to support the proposed design.

Implementation services included as part of this proposal are based on a single mobilization and will occur between normal business hours, Monday – Friday, 8:30am-5pm. Should SNACC require services to occur during non-business hours, additional costs may apply and will be handled via the change order process.

Table 3-1: Project SOW

Tasks	Motorola	SNACC
PROJECT INITIATION		
Contract Finalization and Team Creation		
Execute contract and distribute contract documents.	Х	Х
Assign a Project Manager as a single point of contact.	Х	X
Assign resources.	Х	Х
Schedule project kickoff meeting.	Х	Х
Project Administration		
Ensure that project team members attend all meetings relevant to their role on the project.	Х	Х
Set up the project in the Motorola Solutions information system.	X	
Record and distribute project status meeting minutes.	X	
Maintain responsibility for third-party services contracted by Motorola Solutions.	Х	
Complete assigned project tasks according to the project schedule.	Х	Х
Submit project milestone completion documents.	Х	
Upon completion of tasks, approve project milestone completion documents.		Х
Deliverable: Completed and approved project m	nilestones throughout	the project.

Tasks	Motorola	SNACC
Project Kickoff / Design Review		
Introduce team, review roles, and decision authority.	×	Х
Present project scope and objectives.	х	
Review SOW responsibilities and project schedule.	Х	Х
Schedule Design Review.	X	Х
Review the Customer's operational requirements.	Х	Х
Present the system design and operational requirements for the solution.	х	
Present equipment layout plans and system design drawings.	X	
Present installation plan.	X	
Validate that Customer sites can accommodate proposed equipment.	х	Х
Provide approvals required to add equipment to proposed existing sites.		Х
Review safety, security, and site access procedures.	Х	
Provide minimum acceptable performance specifications for customer provided hardware, software, LAN, WAN and internet connectivity.	×	
Provide heat load and power requirements for new equipment.	×	
Provide information on existing system interfaces.		X
Assume responsibility for issues outside of Motorola Solutions' control.		Х
Review and update design documents, including System Description, Statement of Work, Project Schedule, and Acceptance Test Plan, based on Design Review agreements.	Х	
Execute Change Order in accordance with all material changes to the Contract resulting from the Design Review.	х	
Deliverable: Finalized design documentation based u Change Order docu		ong with any relevant
SITE PREPARATION		
Site Access		
Provide site owners/managers with written notice to provide entry to sites identified in the project design documentation.		Х
General Facility Improvements		
Provide adequate HVAC, grounding, lighting, cable routing, and surge protection based upon Motorola		Х

Tasks	Motorola	SNACC
Solutions' Standards and Guidelines for Communication Sites (R56)		
Ensure that electrical service will accommodate		
installation of system equipment, including isolation		Х
transformers, circuit breakers, surge protectors, and cabling.		
Provide obstruction-free area for the cable run		
between the demarcation point and system		X
equipment.		
Supply interior building cable trays, raceways, conduits, and wire supports.		X
Deliverable: Sites meet physical requiren	nents for equipment inst	allation.
SYSTEM INSTALLATION		
Equipment Order and Manufacturing		
Create equipment order and reconcile to contract.	Х	
Manufacture Motorola Solutions-provided equipment necessary for system based on equipment order.	Х	
Procure non-Motorola Solutions equipment necessary for the system.	х	
Deliverable: Equipment procured	and ready for shipment	
Facility of Object of Obje		
Equipment Shipment and Storage		
Equipment Shipment and Storage  Provide secure location for solution equipment.		X
	X	X
Provide secure location for solution equipment.  Pack and ship solution equipment to the identified, or	X	X
Provide secure location for solution equipment.  Pack and ship solution equipment to the identified, or site locations.	X	
Provide secure location for solution equipment.  Pack and ship solution equipment to the identified, or site locations.  Receive solution equipment.	Х	X X
Provide secure location for solution equipment.  Pack and ship solution equipment to the identified, or site locations.  Receive solution equipment.  Inventory solution equipment.	Х	X X
Provide secure location for solution equipment.  Pack and ship solution equipment to the identified, or site locations.  Receive solution equipment.  Inventory solution equipment.  Deliverable: Solution equipment receive	Х	X X
Provide secure location for solution equipment.  Pack and ship solution equipment to the identified, or site locations.  Receive solution equipment.  Inventory solution equipment.  Deliverable: Solution equipment received General Installation  Deliver solution equipment to installation location.  Coordinate receipt of and inventory solution	X ved and ready for install	X X
Provide secure location for solution equipment.  Pack and ship solution equipment to the identified, or site locations.  Receive solution equipment.  Inventory solution equipment.  Deliverable: Solution equipment received General Installation  Deliver solution equipment to installation location.  Coordinate receipt of and inventory solution equipment with designated contact.	X ved and ready for install X	X X
Provide secure location for solution equipment.  Pack and ship solution equipment to the identified, or site locations.  Receive solution equipment.  Inventory solution equipment.  Deliverable: Solution equipment received General Installation  Deliver solution equipment to installation location.  Coordinate receipt of and inventory solution equipment with designated contact.  Install all proposed fixed equipment as outlined in the System Description based upon the agreed-upon floor	X ved and ready for install X	X X
Provide secure location for solution equipment.  Pack and ship solution equipment to the identified, or site locations.  Receive solution equipment.  Inventory solution equipment.  Deliverable: Solution equipment received General Installation  Deliver solution equipment to installation location.  Coordinate receipt of and inventory solution equipment with designated contact.  Install all proposed fixed equipment as outlined in the System Description based upon the agreed-upon floor plans, connecting equipment to the power panels or	X ved and ready for install X	X X
Provide secure location for solution equipment.  Pack and ship solution equipment to the identified, or site locations.  Receive solution equipment.  Inventory solution equipment.  Deliverable: Solution equipment received General Installation  Deliver solution equipment to installation location.  Coordinate receipt of and inventory solution equipment with designated contact.  Install all proposed fixed equipment as outlined in the System Description based upon the agreed-upon floor plans, connecting equipment to the power panels or receptacles. Installation performed in accordance with	X ved and ready for install  X  X	X X
Provide secure location for solution equipment.  Pack and ship solution equipment to the identified, or site locations.  Receive solution equipment.  Inventory solution equipment.  Deliverable: Solution equipment receivable: Solution equipment solution equipment with designated contact.  Install all proposed fixed equipment as outlined in the System Description based upon the agreed-upon floor plans, connecting equipment to the power panels or receptacles. Installation performed in accordance with R56 standards and state/local codes.	X ved and ready for install  X  X	X X
Provide secure location for solution equipment.  Pack and ship solution equipment to the identified, or site locations.  Receive solution equipment.  Inventory solution equipment.  Deliverable: Solution equipment received General Installation  Deliver solution equipment to installation location.  Coordinate receipt of and inventory solution equipment with designated contact.  Install all proposed fixed equipment as outlined in the System Description based upon the agreed-upon floor plans, connecting equipment to the power panels or receptacles. Installation performed in accordance with	X ved and ready for install  X  X	X X ation
Provide secure location for solution equipment.  Pack and ship solution equipment to the identified, or site locations.  Receive solution equipment.  Inventory solution equipment.  Deliverable: Solution equipment receivable: Solution equipment version equipment to installation location.  Coordinate receipt of and inventory solution equipment with designated contact.  Install all proposed fixed equipment as outlined in the System Description based upon the agreed-upon floor plans, connecting equipment to the power panels or receptacles. Installation performed in accordance with R56 standards and state/local codes.  Provide system interconnections that are not	X ved and ready for install  X  X	X X

Tasks	Motorola	SNACC
Install and terminate all network cables between site routers and network demarcation points, including microwave, leased lines, and Ethernet.	Х	
Ensure that Type 1 and Type 2 AC suppression is installed to protect installed equipment.  Connect installed equipment to the provided ground	X	X
system.  Perform preliminary audit of installed equipment to ensure compliance with requirements and R56	X	
standards.  Note any required changes to the installation for inclusion in the "as-built" system documentation.	Х	
Deliverable: Equipme	nt installed.	
MPLS Installation and Configuration		
Install, commission, and test microwave network prior to Motorola MPLS installation meeting latency, jitter and capacity requirements.		Х
Provide rack space and AC or DC power to meeting Motorola equipment requirements in accordance with design documents.		X
Configure microwave network to support interface to MPLS routers as required.		X
Install equipment contained in the equipment list and system description.	X	
Configure ASTRO 25 system to support the new configurations.	Х	
Deliverable: ASTRO 25 core and remote site	e equipment installation	completed.
SYSTEM OPTIMIZATION AND TESTING		
R56 Site Audit		
Perform R56 site-installation quality-audits, verifying proper physical installation and operational configurations.	Х	
Deliverable: R56 Standards and Guidelines for Commu	unication Sites audits co	ompleted successfully.
Solution Optimization		
Verify that all equipment is operating properly and that all electrical and signal levels are set accurately.	Х	
Verify communication interfaces between devices for proper operation.	Х	
Resolve any interference caused by equipment not supplied by Motorola Solutions.		X
Ensure that functionality meets manufacturers' specifications and complies with the final configuration established during design review or system staging.	X	
Deliverable: Completion of S	ystem Optimization.	
Functional Acceptance Testing		

Tasks	Motorola	SNACC
Verify the operational functionality and features of the solution supplied by Motorola Solutions, as contracted.	X	CNACO
Perform link and failure mode testing.	X	
Document the results of the acceptance tests and present to the Customer for review.	х	
If any major task as contractually described fails, repeat that particular task after Motorola Solutions determines that corrective action has been taken.	Х	
Review and approve final acceptance test results.		X
Resolve any minor task failures before Final System Acceptance.	Х	
Deliverable: Completion of functional tes	ting and approval by Cus	stomer.
PROJECT TRANSITION		
Cutover		
Finalize Cutover Plan.	X	X
Migrate ASTRO network	Х	
Resolve punchlist items, documented during the Acceptance Testing phase, in order to meet all the criteria for final system acceptance.	Х	
Assist Motorola Solutions with resolution of identified punchlist items by providing support, such as access to the sites, equipment and system, and approval of the resolved punchlist items.		Х
Deliverable: Migration to new system compl	eted, and punchlist items	s resolved.
Transition to Warranty		
Review the items necessary for transitioning the project to warranty support and service.	х	
Provide a Customer Support Plan detailing the warranty support associated with the contract equipment.	х	
Participate in the Transition Service/Project Transition Certificate (PTC) process.		Х
Deliverable: Service information deliver	ed and approved by Cus	tomer
Finalize Documentation and System Acceptance		
Provide manufacturer's installation material, part list and other related material to Customer upon project completion.	Х	

Tasks	Motorola	SNACC
Provide an electronic as-built system manual on CD or other Customer preferred electronic media. The documentation will include the following:  Site Block Diagrams.  Site Equipment Rack Configurations.  Functional Acceptance Test Plan Test Sheets and Results.  Equipment Inventory List.  Maintenance Manuals (where applicable).  Technical Service Manuals (where applicable).  Drawings will be delivered in Adobe PDF format.	X	
Receive and approve documentation.		Х
Execute Final Project Acceptance.	Х	Х
Deliverable: All required documents are provided a	nd approved. Final Proj	ect Acceptance.

Either Party may request changes to the general scope of this Agreement. If a requested change causes an increase or decrease in the cost or a change in system configuration the Parties will agree to an equitable adjustment of the Contract Price and will reflect the adjustment in a Change Order. Neither Party is obligated to perform requested changes unless both Parties execute a written Change Order.

# **PROJECT SCHEDULE**

The estimated time for completion of the project is 18 months from Project Kickoff through Final Project Acceptance. A mutually agreed upon detailed project schedule will be developed by the Motorola Solutions' Project Manager upon contract award during the Contract Design Review (CDR) phase of the project.

# **ACCEPTANCE TESTING**

System Acceptance of the proposed solution will occur upon successful completion of a Functional Acceptance Test Plan (FATP), which will test the features, functions, and failure modes for the installed equipment in order to verify that the solution operates according to its design. This plan will validate that the proposed solution will operate according to its design. A detailed FATP will be developed and finalized during the Design Review.

# **WARRANTY AND MAINTENANCE**

Motorola Solutions will provide warranty services per our standard warranty terms and conditions as outlined within the existing Agreement, B&Q #31428, Lease Purchase #23636. In addition to the warranty services, Motorola Solutions has included support services as included below.

#### 6.1 **ONSITE INFRASTRUCTURE RESPONSE**

On Site Infrastructure Response provides local, trained and qualified technicians who arrive on location to diagnose and restore the communications network. Motorola Dispatch contacts the local authorized service center in your area and dispatches a qualified technician to the site. An automated escalation and case management process ensures that the technician arrives and system restoration begins within the contracted response times.

The field technician performs first level trouble-shooting, provides information regarding the system condition, removes any failed components for repair, and reinstalls new or reconditioned components. If the technician is unable to resolve the issue, the case is escalated to the System Support Center or product engineering teams as needed.

#### 6.2 JUNIPER CARE NEXT-DAY DELIVERY

Juniper Care combines traditional 24x7 remote technical support, hardware replacement services, online support and service automation. More than a simple break-fix service, Juniper Care helps you meet network demands with technical and operational support designed to keep your network running reliably, while at the same time protecting your highperformance networking investment.

#### 6.2.1 JTAC Access

With Juniper Networks Technical Assistance Center (JTAC) support, you have unlimited 24x7 access to JTAC engineers by phone and online. As a single point of contact for all of your support needs, JTAC engineers have extensive experience supporting large-scale networks. JTAC engineers can help you diagnose system problems, configure, troubleshoot, and provide work-around solutions. To ensure that JTAC responds as quickly as possible, automatic escalation alerts to senior management are triggered on all priority issues.

#### 6.2.2 Software Releases

Juniper Networks provides you with access to all new software releases as soon as they are made available for general release.

#### 6.2.3 **CSC Online E-Support**

The Customer Support Center (CSC) provides you with self-service access to Juniper's award winning online portal for the information, answers, tools, and service options required to ensure the support of your network investment. Features within the CSC include, but are not limited to, software downloads, technical alerts and bulletins, RMA requests, and the Juniper Networks Knowledge Base.

#### 6.2.4 **Next-Day Delivery**

Juniper Networks will deliver FRU replacements to the ship-to address in advance of receiving returned defective hardware within the next business day if Juniper issues an RMA by 3pm (local JTAC time). "Next-Day Delivery" is subject to availability.

# PRICING SUMMARY

Table 7-1: Project Pricing

Description	Price
Equipment	\$240,442
Services	\$275,783
System Discount	(\$64,149)
PROJECT TOTAL	\$452,076

## 7.1 PAYMENT TERMS

Customer will make payments to Motorola within thirty (30) days after the date of each invoice. Customer will make payments when due in the form of a check, cashier's check, or wire transfer drawn on a U.S. financial institution. Payment for the System purchase will be in accordance with the following milestones.

#### System Purchase:

- 1. 50% of the system price is due upon Contract Execution
- 2. 50% of the system price is due upon Final Acceptance

# CONTRACTUAL DOCUMENTATION

This proposal is subject to the terms and conditions of the Contract previously entered into by the SNACC and Motorola effective December 1, 2014 (the "Contract"). Motorola's proposal is subject to the terms and conditions of the Contract and the enclosed payment milestones. To accept Motorola's proposal, the SNACC may either issue a purchase order that incorporates by reference the Contract and Motorola's proposal dated April 1, 2022, or, alternatively, SNACC and Motorola may execute a written change order to the Contract.

# Southern Nevada Area Communications Council Agenda Item

Issue: For the Board to set a deadline to get as many radios on the SNACC system to be TDMA (Time Division Multiple Access) ready by 2024 and for those agencies which are not ready, SNACC will make a reasonable effort to help facilitate their transition to TDMA (Such as, by temporarily enabling Dynamic Dual Mode).	<b>Date</b> : June 15, 2022
Petitioner: Jason Manzo, SNACC Administrator	Agenda Item: 5
Recommendation - FOR POSSIBLE ACTION: For the Board to set a deadline to get as many radios on the SNACC system to be Multiple Access) ready by 2024 and for those agencies which are not ready, SNA effort to help facilitate their transition to TDMA (Such as, by temporarily enabling I take action as necessary.	CC will make a reasonable
Fiscal Impact: None	
Background: Currently, more than half of the radios on the SNACC system are TDMA ready.	
Respectfully Submitted:	

Jason Manzo

**SNACC Administrator** 

Agency/Dept:	TDMA	FDMA	ANALOG	Unkown "-"	APX-FDMA	хт	VARIANCE	Ttl. Count
RTC	557	925	1	2	53	872	MATCH	1485
Henderson Police	190	739	58	26	1	738	MATCH	1013
Clark County Aviation	282	628	57	31	321	306	1	998
CCSD Police	194	178	9	0	18	159	1	381
Nye County VHF	68	173	117	37	4	169	MATCH	395
Clark County Fire	428	123	0	0	j 66 i 0	57 135	MATCH	552
Henderson Fire	145 546	125 79	0	2	3	125 76	MATCH MATCH	270 627
Las Vegas Fire CCWRD	52	94	2	0	94	0	MATCH	148
North Las Vegas Fire	110	72	5	18	1 5	67	MATCH	205
AMR	69	71	1	0	10	61	MATCH	141
Henderson Jail	0	68	1	6	<u>j</u> 0	68	MATCH	75
Community Ambulance	118	57	0	00	<b>j</b> 0	57	MATCH	175
Henderson Utilities	54	17	0	0	<b>,</b> 0	17	MATCH	71
Medic West	57	35	0	1	9	26	MATCH	93
North Las Vegas Police	875	25	9	0	; 0 1 0	25 44	MATCH MATCH	909 208
UNIVERSITY POLICE SERVICES LVVWD	164 546	30	0	0	] 0   0	30	MATCH	576
UNIVERSITY HOUSING AND RESIDENTIAL LIFE UNLV	0	24	0	0	0	24	MATCH	24
Boulder City Fire	18	23	0	0	4	19	MATCH	41
L V V W D SNWA	328	11	0	0	0	11	MATCH	339
Las Vegas Parking Enforcement	0	22	16	0	0	22	MATCH	38
Henderson Marshals	0	19	6	1	] 0	19	MATCH	26
MERCY AIR NEVADA	8	16	0	1	] 1	15	MATCH	25
Nye County 800	107	15	0	48	<u> </u>	10	MATCH	170
Clark County OEM	1	15	<u> </u>	0	į o	15	MATCH	16
Clark County Henderson Justice Court Marshals	0	12	0	2	0	12	MATCH MATCH	12 32
Las Vegas Animal Control	<u>20</u> 0	10	0	0	0	10 10	MATCH	10
HENDERSON CODE ENFORCEMENT Henderson Alternative Sentencing	0	9	0	0	1 0	9	MATCH	9
Clark County IT	0	9	0	0	ة أ	9	MATCH	9
Las Vegas Marshals	177	5	0	0	i 0	5	MATCH	182
Las Vegas Detention & Enforcement	150	6	5	47	0	6	MATCH	208
HENDERSON OFFICE OF EMERGENCY MANAGEMENT AND SAFETY	5	5	0	0	0	5	MATCH	10
Clark County Boulder City Constable	0	5	0	0	0	5	MATCH	5
CLARK COUNTY HENDERSON CONSTABLE OFFICE	0	5	0	0	0 ا	5	MATCH	5
Southern Nevada Health District	60	4	0	11	] 0	4	MATCH	75
MERCY AIR ARIZONA	0	3	0	0	0	4 3	MATCH MATCH	4 5
Henderson Attorney Paiute Tribal Police	32	2	0	0	, ,	2	MATCH	34
Clark County Juvenile Justice Services	0	2	0	0	<b>-</b> 1	2	MATCH	2
Boulder City Police	104	1	0	0	1 0	1	MATCH	105
Pahrump Valley Fire VHF	23	1	0	0	<b>)</b> 0	1	MATCH	24
HEALTHCARE AMERICA SHS_SUNRISE	1	1	0	0	<b>j</b> o	1	MATCH	2
MGM RESORTS SECURITY	0	1	0	00	<b>j</b> 1	0	MATCH	1
HEALTHCARE AMERICA SHS_LAKES ER	. 0	1	0	0	٥	1	MATCH	<b>j</b> 1
Clark County Coroner	0	1	0	0	0	1	MATCH	1
Special Event Temp	0	1	0	0	0	1	MATCH	1
STATE OF NEVADA GAMING CONTROL BOARD  Clark County Building & Fire Prevention	81 50	0	0	0	0	0 0	MATCH MATCH	82 50
Las Vegas Court Marshals	38	0	0	0	1 0	0	MATCH	38
CCSD Attendance Officers	37	0	0	0	ں 0	0	MATCH	37
UNIVERSITY PARKING AND TRANSPORTATION SERVICES	26	0	0	0		ō	MATCH	26
Guardian Elite Medical Services	26	0	0	0	7 0	0	MATCH	26
Pahrump Valley Fire 800	17	0	0	18	] 0	0	MATCH	35
Clark County Family Services	13	0	0	0	<u> </u>	0	MATCH	13
HENDERSON BUSINESS OPERATIONS DIVISION	7	0	0	0	j o	0	MATCH	7
Boulder City Marshals	6	. 0	0	00	ہ بنے	0	MATCH	6
OPTIMUMEDICINE  FASEUS DIGNITURE TO DOSE MICEO	6	0	0	0	0	0	MATCH	6
EMERUS-DIGNITY HEALTH ST ROSE MICRO	5	0	0	0	1 0	0	MATCH	5
UNITED STATES AIR FORCE-NELLIS  LAS VEGAS CONVENTION and VISITORS AUTHORITY	2	0	0	0	0	0	MATCH	3
LAS VEGAS CONVENTION and VISITORS AUTHORITY  LAS VEGAS WATER POLLUTION CONTROL FACILITY	2	0	0	0	0	0	MATCH MATCH	2
MOAPA VALLEY FIRE DISTRICT	1	0	0	0	1 0	0	MATCH	1
UNIVERSAL HEALTH SERVICES BLUE DIAMOND	1		0	0	0	0	MATCH	1
UNIVERSAL HEALTH SERVICES GREEN VALLEY	1	0	0	0	, ,	Ö	MATCH	1
HEALTHCARE AMERICA SHS_ALIANTE ER	1	0	0	0	] 0	0	MATCH	1

CrossRoads of Southern Nevada	1 .	0	0	0	0	0	MATCH (	1
HEALTHCARE AMERICA SHS_S. LAS VEGAS BLVD	1	0	0	0	0	0	MATCH	1
ELITE MEDICAL CENTER	1	0	0	0	0	0	MATCH	1
HEALTHCARE AMERICA SHS_SKYE CANYON ER	1	0	0	0	0	0	MATCH ;	1
UNIVERSAL HEALTH SERVICES VALLLEY VISTA FED	1	0	0	0	0	0	MATCH !	1
	5819	3726	287	253				10,085

Grnd Ttl.

10,085

# Southern Nevada Area Communications Council Agenda Item

Issue: Approve the Nevada Pool insurance for fiscal year 2023.	<b>Date:</b> June 15, 2022
Petitioner: Jason Manzo, SNACC Administrator	Agenda Item: 6
Recommendation - FOR POSSIBLE ACTION: Approve the Nevada Pool insurance for fiscal year 2023 and/or take action as neo	essary.

### Fiscal Impact:

\$34,179.60

#### Background:

This is a yearly reoccurring item. Last year SNACC paid \$26,858.41, this is insurance to cover all of the SNACC sites and equipment.

**Respectfully Submitted:** 

Jason Manzo

**SNACC Administrator** 

# Proposal Prepared for

## Southern Nevada Area Communications Council

Presented By

Lloyd Cutler



5740 S. Arville Ste 204 Las Vegas, NV 89118

702-798-3700

Date: 05/25/2022

The outlines of coverage used throughout this document, are not intended to express any legal opinion as to the nature of coverage. They are only visuals to a basic understanding of coverage and limits. For a complete understanding of the coverage's provided, please refer to the actual policy wording.

## **Price Summary**

Named Insured: Southern Nevada Area Communications Council

**Policy Term:** 07/01/2022 – 07/01/2023

The total estimated price for the insurance coverage in this proposal is:

\$34,179.60

(21-22 \$26,858.41)

## **Insured Locations**

Named Insured: Southern Nevada Area Communications Council

**Policy Term:** 07/01/2022 – 07/01/2023

See attached location list

Mailing Address: 6000 E Rochelle Ave, Las Vegas, NV 89122

## **Payment Options**

Named Insured: Southern Nevada Area Communications Council

**Policy Term:** 07/01/2022 – 07/01/2023

Payment OptionTotalDue NowPackage\$34,719.60

Check payable to Assurance, Ltd.

Financing available upon request



# NEVADA PUBLIC AGENCY INSURANCE POOL MEMBER COVERAGE SUMMARY

Prepared For:

Southern Nevada Area Communications Council
Prepared By:

Assurance Ltd

THANK YOU FOR
YOUR
MEMBERSHIP!



#### Dear POOL Member:

Thank you for your continuing leadership commitment to serving your communities by fulfilling your public service mission. The POOL continues to offer programs, services and support for Members' financial security and collaborating with you in support of your mission.

This Member Coverage Summary reflects the successful negotiations with multiple markets to obtain cost-effective terms, conditions and pricing for approval by the POOL Board on behalf of all Members.

As owners of the POOL, you approved the extensive risk management services, such as POOL/PACT HR services including its training courses and ELearning modules on important HR topics. Enrollment in POOL's ELearning programs including Target Solutions Fire/EMS training, KnowBe4 email security training continues to reach an increasing number of employees for convenient and cost-effective learning. Our ongoing focus on law enforcement policies and practices targeted jail and road operations with onsite and virtual assessments and sample policies.

We encourage you to discuss the POOL's services with staff and your agent. We regularly update our website and encourage you to visit <a href="www.poolpact.com">www.poolpact.com</a> to utilize a growing base of HR and risk management information in the resource libraries. While there, look for the POOL Coverage documents, board and committee agendas and minutes.

Thanks to all Member volunteers who serve on our boards and committees. These volunteers do a superb job of representing the interests of the Members of your POOL.

Sincerely,

Wayne Carlson Executive Director

Nevada Public Agency Insurance Pool



## **NEVADA PUBLIC AGENCY INSURANCE POOL COVERAGE SUMMARY**

RENEWAL PROPOSAL	COVERAGE PERIOD	NAMED ASSURED	MAINTENANCE DEDUCTIBLE
	07/01/2022 -	Southern Nevada Area	\$1,000
	07/01/2023	Communications Council	
	Standard Time		

## **Property Coverage**

Coverage	Limit per Loss	
Property	\$300,000,000	Per Schedule of Locations

The following sub-limits apply to Section V. C. Extensions of Property Coverage:

Accounts Receivable	\$5,000,000 per loss
Arson Reward	10% up to \$25,000 per loss
Debris Removal - Mold/ Asbestos	\$100,000
Earthquake	\$150,000,000 aggregate
Flood	\$150,000,000 aggregate
	\$25,000,000 aggregate - Flood Zone A
Equipment Breakdown	\$100,000,000 per loss
<ul> <li>Loss of Income &amp; Extra</li> </ul>	included
Expense	*
<ul> <li>Hazardous Substance Coverage</li> </ul>	\$250,000 per loss
Spoilage Coverage	\$250,000 per loss
Data Restoration	\$100,000 per loss
Electrical Risk Improvements	\$10,000
Expediting Expenses	\$25,000 per loss
Unintentional Errors and Omissions	\$5,000,000 per loss
Money and Securities	\$500,000 per loss
Ordinance or Law – LEED Building	\$500,000
Agreed Value Vehicles	Per Attachment D, if applicable



# NEVADA PUBLIC AGENCY INSURANCE POOL COVERAGE SUMMARY

# **Liability Coverage**

The Limits of Liability are as follows:

Coverage	Limit per Named Assured	Annual Aggregate Limit per <b>Named Assured</b>
Per <b>Event</b>	\$10,000,000	\$10,000,000
All Sublimits are a part of and not in add Liability Sublimits:	lition to the Limits of Liab	ility.
<ul> <li>Additional Assured (Lessors) (Section I, item 2)</li> </ul>	\$2,000,000	
<ul> <li>Weed Spray Property</li> <li>Damage (Section IV, item 3</li> <li>(B) (2) (ix))</li> </ul>	\$250,000	\$250,000
<ul> <li>Emergency Response to Pollution (Section IV, item 3 (B) (2) (v))</li> </ul>	\$1,000,000	\$1,000,000
<ul> <li>Criminal Defense Fees and Costs (Section VI, part C, item 4)</li> </ul>	\$50,000	\$50,000
<ul> <li>Defense for Regulatory         Agency Actions (Section VI, part C, item 16)     </li> </ul>	\$50,000	
Sexual Abuse Sublimit (Section VI, part C, item 21)	\$2,500,000	\$2,500,000
Retroactive Date		May 1, 1987 except as shown in Attachment C



## NEVADA PUBLIC AGENCY INSURANCE POOL COVERAGE SUMMARY

# Cyber Risk Coverage Form

CYBER SECURITY RISK COVERAGE			
PART ONE: Terms and Conditions			
SECURITY RISK COVERAGE LIMITS	Limit per Named Assured	Annual Aggregate Limit Per All <b>Named</b>	
	Per PRIVACY OR	Assureds	
	SECURITY EVENT	Assureus	
PART TWO: Privacy or Security Liability	3,000,000	3,000,000 up to	
Limits		\$15,000,000 aggregate all	
		POOL Members combined	
The following sublimits are a part of	and not in		
addition to the Limits of Liability:			
PART THREE: Security	\$100,000		
Failure/Privacy Event Management	M		
Coverage			
PART FOUR: Network Interruption	\$250,000	Waiting Hours Period:12 hou	urs
Coverage			
Proof of LossPreparation	\$50,000		
Costs (as defined),			
(Separate Limit)			
Retroactive Date		July 1, 2013	



## **NEVADA PUBLIC AGENCY INSURANCE POOL COVERAGE SUMMARY**

# **Environmental Liability Coverage**

The Limits of Liability are as follows:

Coverage A	Third Party Claims for Bodily Injury, Property Damage or					
	Remediation Expense					
Coverage B	First Party Remediation Expense					
Coverage C	Emergency Response Expense					
Coverage D	Business Interruption					

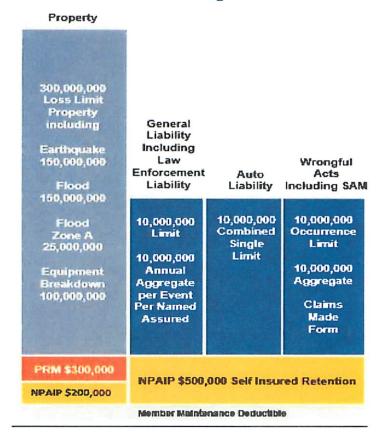
COVERAGE	DEDUCTIBLE	EACH INCIDENT	AGGREGATE
		LIMIT	LIMIT
A,B,C	\$25,000	\$2,000,000	\$10,000,000

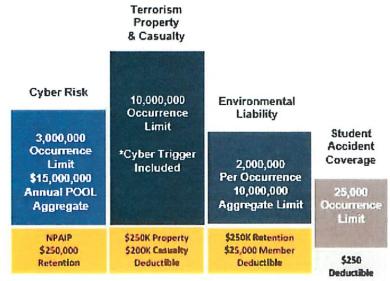
COVERAGE	DEDUCTIBLE	BUSINESS	BUSINESS
		INTERRUPTION LIMIT	INTERRUPTION
		(Days)	LIMIT (\$)
D	3 Days	365	\$2,000,000

This summary is intended for reference only. For specific terms, conditions, limitations and exclusions, please refer to the POOL Coverage Form and Cyber Risk Coverage Form edition July 1, 2022.



# NPAIP 2022-2023 Program Structure







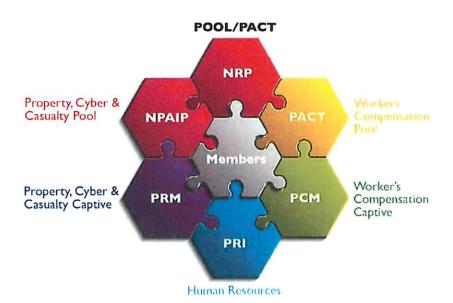
# POOL/PACT - HERE FOR YOU

#### **Members Helping Members**

In 1987, four Nevada counties formed their own risk sharing pool. Now over thirty years later, the majority of Nevada's public entities remain committed to each other and the mission of their risk pool organization. POOL/PACT continues to excel in providing an unparalleled level of service to our members. Our mission seeks to help members manage their risks so they can serve the public effectively.

The POOL Board is comprised of dedicated, hardworking, and ethical Member leaders focused on public risk management. They continue to do an excellent job of representing the interests of the Member-owners of POOL/PACT.

Our members continue to see great value in being part of POOL/PACT because of extensive services, which keeps membership retention strong. POOL/PACT encourages you to discuss the services we offer with your insurance agent — its valued partner in the POOL program.



#### **POOL Executive Committee**

Josh Foli - Chair (Lyon County)
Geof Stark - Vice Chair (Churchill County)
Amanda Osborne - Director (Elko County)
Dan Murphy - Director (Pershing Co.SD)
Gina Rackley - Fiscal Officer (Humboldt Co)
Ann Cyr - Director (Carson City SD)
Scott Lindgren - Director (TDFPD)

#### **PACT Executive Committee**

Paul Johnson - Chair (White Pine CSD)
Mike Giles - Vice Chair (City of Lovelock)
Amana Osborne - Trustee (Elko County)
Josh Foli - Fiscal Officer (Lyon County)
Robyn Dunckhorst - Trustee (Humboldt GH)
Craig Roissum - Trustee (City of Caliente)
Joe Westerlund - Trustee (Town of Tonopah)



# PROGRAMS AND SERVICES AVAILABLE TO POOL/PACT MEMBERS

#### RISK MANAGEMENT

#### **Training**

POOL/PACT provides extensive training. Examples include: Portable Fire Extinguisher Training • Safe Driving Techniques • Blood Borne Pathogens • Ethics • Nevada Open Meeting Law • POOL/PACT 101 • Positive Governance. Visit www.poolpact.com for more information.

#### eLearning

POOL/PACT provides a dynamic eLearning platform, ongoing and timely learning courses, and support for: Human Resources • Employee Safety • Cyber Security • Risk Management • Health and Wellness • Emergency Medical Services • Fire Safety • and many more!

#### **Risk Management Programs**

Member Value and Performance (MVP) Review • Infrared Thermography (IRT) • Safety Policies and Procedures Review • Site Surveys • OSHA Compliance Assistance • Safety and Loss Control Committee Review and Development • Improved Security Systems • Swimming Pool Safety Training and Inspections • School District Hazard Vulnerability Assessments and Emergency Operations Plan Reviews • Claims Analysis • Written Workplace Safety Plan Review and Development

#### Law Enforcement and Fire Protection

On-line Law Enforcement training, policies, and best practices from the Legal Liability Risk Management Institute • Jail assessment and policy review for members operating correctional facilities. • Fire and EMS training, policies, and best practices from TargetSolutions. • Fit For Retirement, a Complete Wellness program, that includes mental health, advanced testing, dietician, and fitness guidance for full-time first responders.

#### Risk Management Grant Program and Loss Control Excellence Program

- Loss Control grants to help mitigate or eliminate risk to employees and liability exposure.
- Five, \$2,000 risk management educational grants available to each member each year.
- Loss Control Excellence Program with financial incentive.

#### 24-7-365 Workers Compensation Nurse Triage Program

PACT members are eligible to use our innovative and streamed lined WC information and reporting system for non-life-threatening on-the-job injuries

## Cybersecurity

All POOL members are provided a KnowBe4 online account subscription • Ongoing and updated Cybersecurity training • Best Practices • Cyber Incident Response templates and guidance • Network assessments • Virtual Risk Officer

#### **MSDSOnline**

OSHA and state compliance with safety data sheet management and updates are available online to ensure compliance and updated information.

For additional information contact Marshall Smith or Jarrod Hickman, POOL/PACT Risk Managers, (775) 885-7475 website: <a href="https://www.poolpact.com">www.poolpact.com</a>



# PROGRAMS AND SERVICES AVAILABLE TO POOL/PACT MEMBERS

#### **HUMAN RESOURCES**

A variety of services are offered through POOL/PACT HR. We work with each member individually to address their specific HR-related needs and reduce liability. The basic services include:

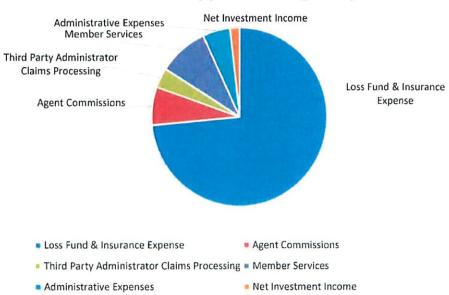
- · Consultation with members to manage and resolve critical employment-related issues to include identifying options, providing step-by-step guidance, monitoring progress, and answering questions.
- · In-person and virtual instructor-led training courses, workshops, and certificate programs.
- eLearning and live online training courses available 24/7 and tracked for completions.
- Webinars on HR-related topics.
- · On-site assessments of members' HR practices with recommendations.
- · Communication issued as "Alerts" and "Notices" to inform members when a significant HR-related law or practice has changed.
- · On-site HR Briefings tailored to specific needs/requests of members.
- Sample personnel policies which may be adopted for use by members.
- · Sample job description templates and numerous HR forms that can be tailored for use by members.
- Salary schedule database available on our website for member reference.
- · Summary of HR-related legislation produced each legislative session.
- HR Scholarships to assist member HR representatives in attaining nationally recognized HR certifications.
- Annual HR Conference providing HR representatives and CEOs valuable information on communication, leadership, and legal compliance.

For additional information contact Stacy Norbeck, POOL/PACT Human Resources Manager, (775) 887-2240 email: stacynorbeck@poolpact.com website: <a href="www.poolpact.com">www.poolpact.com</a>



# **POOL 2022-2023 APPROVED BUDGET AND EXPENSES**





Pool Budget	App	% Allocation	
Loss Fund & Insurance Expense	\$	17,163,656	74.296
Agent Commissions	\$	1,567,177	6.896
Third Party Administrator Claims Processing	\$	800,575	3.5%
Member Services	\$	2,052,526	8.9%
Administrative Expenses	\$	1,139,947	4.996
Net Investment Income	\$	413,421	1.896
Total Budget	5	23,137,301	100.0%



# **POOL/PACT CONTACTS**

Nevada Risk Pooling (NRP) (775) 885 7475

Wayne Carlson, Executive Director, ext 132 waynecarlson@poolpact.com

Alan Kalt, Chief Financial Officer, ext 128 akalt@poolpact.com

Marshall Smith, Risk Manager, ext 104 marshallsmith@poolpact.com

Jarrod Hickman, Risk Manager, ext 133 jarrodhickman@poolpact.com

Mike Van Houten, eLearning Administrator, ext 101 eLearning@poolpact.com

Stephen Romero, Member Relations Manager, ext 110 stephenromero@poolpact.com

Pooling Resources, Inc. (POOL/PACT HR) (775) 887 2240

Stacy Norbeck, General Manager, ext 107 stacynorbeck@poolpact.com

Neal Freitas, Sr. HR Business Partner, ext 113 nealfreitas@poolpact.com

Ashley Creel, Sr. HR Business Partner, ext 105 ashleycreel@poolpact.com

Jeff Coulam, Sr. HR Business Partner, ext 106 jeffcoulam@poolpact.com

Lessly Monroy, HR Business Partner, ext 108 Lesslymonroy@poolpact.com

**Davies Claims Solutions** 

Donna Squires, Claims Manager (775) 329 1181 Donna.squires@Davies-group.com

Margaret Malzahn, WC Claims Supervisor (775) 329 1181 Margaret.malzahn@Davies-group.com



## NPAIP MEMBERSHIP

#### Countles:

Carson City
Churchill County
Elko County
Esmeralda County
Eureka County
Humboldt County
Lander County
Lincoln County
Lyon County
Mineral County
Nye County
Pershing County
Storey County
White Pine County
White Pine County

#### Towns:

Town of Gardnerville
Town of Genoa
Town of Minden
Town of Pahrump
Town of Round Mountain
Town of Tonopah

#### School Districts:

Carson City School District
Churchill County School District
Douglas County School District
Elko County School District
Elko County School District
Esmeralda County School District
Eureka County School District
Humboldt County School District
Lander County School District
Lincoln County School District
Lyon County School District
Mineral County School District
Mye County School District
Pershing County School District
Storey County School District
White Pine County School District

#### Cities:

Boulder City
City of Caliente
City of Carlin
City of Elko
City of Ely
City of Fernley
City of Lovelock
City of Wells
City of West Wendover
City of Winnemucca
City of Yerington

#### Fire Districts:

Moapa Valley Fire Protection District
Mt. Charleston Fire Protection District
North Lake Tahoe Fire Protection District
North Lyon County Fire Protection District
Pahranagat Valley Fire District
Tahoe Douglas Fire Protection District
Washoe County Fire Suppression
White Pine Fire District

#### Others:

Central Nevada Historical Society Central Nevada Regional Water Authority County Fiscal Officers Association of Nevada Douglas County Redevelopment Agency Elko Central Dispatch Elko Convention & Visitors Authority **Humboldt River Basin Water Authority** Lincoln County Regional Development Mineral County Housing Authority Nevada Association of Counties Nevada Commission for the Reconstruction of the V & T Railway Nevada League of Cities Nevada Risk Pooling, Inc. Nevada Rural Housing Authority Pooling Resources, Inc. Regional Transportation Commission of Washoe County Truckee Meadows Regional Planning Agency U.S. Board of Water Commissioners Virginia City Tourism Convention Western Nevada Regional Youth Center White Pine County Tourism

#### Special Districts:

Alamo Water & Sewer District

Amargosa Library District **Beatty Library District** Beatty Water & Sanitation District Canyon General Improvement District Carson-Truckee Water Conservancy District Carson Water Subconservancy District Churchill County Mosquito, Vector and Weed Control District **Douglas County Mosquito District** Douglas County Sewer
East Fork Swimming Pool District Elko County Agricultural Association Elko TV District Fernley Swimming Pool District Gardnerville Ranchos General Improvement District Gerlach General Improvement District Humboldt General Hospital Incline Village General Improvement District Indian Hills General Improvement District Kingsbury General Improvement District Lakeridge General Improvement District Lincoln County Water District
Logan Creek Estates General Improvement District Lovelock Meadows Water District Marla Bay General Improvement District Mason Valley Swimming Pool District Minden Gardnerville Sanitation District Moapa Valley Water District Nevada Association of Conservation Districts Nevada Association of School Boards Nevada Association of School Superintendents Nevada Tahoe Conservation District Northern Nye County Hospital District Pahrump Library District Palomino Valley General Improvement District Pershing County Water Conservation District Sierra Estates General Improvement District Silver Springs General Improvement District Silver Springs Stagecoach Hospital Skyland General Improvement District Smoky Valley Library District Southern Nevada Area Communication Council Southern Nevada Health District Stagecoach General Improvement District Sun Valley General Improvement District Tahoe Douglas District Topaz Ranch General Improvement District Tahoe Reno Industrial General Improvement District Tonopah Library District Walker Basin Conservancy Walker River Irrigation District Washoe County Water Conservation District West Wendover Recreation District Western Nevada Development District White Pine Television District #1

Zephyr Cove General Improvement District Zephyr Heights General Improvement District





# NEVADA PUBLIC AGENCY INSURANCE POOL 2022/2023 RENEWAL APPLICATION

#### **ALL QUESTIONS MUST BE ANSWERED**

PRO	DUCER:	Lloyd Cutler			EFFECTIVE DATE	7/1/2022	
OFF	ICE:	Assurance LT	D, 5740 South A	rville, Suite 204, Las Vegas, N	NV 89118		
1)		SSURED (INSL		Southern Area Communication	ons Council		í
	CONTACT	FPERSON:	Jason Manzo				
	PHONE:	702-455-7390		EMAIL: Jmanzo@Cla	arkCountyNV.gov		
	ADDRESS	3:	6000 E Rochel	le Ave			
	CITY:	Las Vegas		STATE: NV	ZIP: 89122		
2)	PROPER	TOTAL BUILD TOTAL CONT AUTO PHYSIC EQUIPMENT E.D.P. EQUIP E.D.P. MEDIA E.D.P. EXTRA ACCOUNTS F RENTAL INCO VALUABLE P BUSINESS IN	PORTANT THAT DING VALUES ENT VALUES CAL DAMAGE V VALUES MENT VALUES VALUES A EXPENSE VAL RECEIVABLE V	LUES ALUES	\$0 \$14,759,335 N/A N/A \$25,000 \$5,000 N/A N/A N/A N/A N/A	ACV (CN x .75)	AND RC (100%)
			ELLANEOUS V. R <b>ED VALUES</b> :	ALUES	N/A \$14,789,335		

#### 3) GENERAL LIABILITY CHECKLIST:

A. ENTITY INFORMATION: DOES THE PUBLIC ENTITY OWN OR OPERATE ANY OF THE FOLLOWING:

Yes/No			Yes/No	
No	Airports		No	Independent Contractors
No	Beaches, Lakes		No	Jail
No	County Homes		No	Landfills
No	Bleachers, Arenas, Stadiums		No	Law Enforcement Activities
No	Cemeteries		No	Marinas
* No	Dams,Reservoirs	*	No	Recreational Facilities (Parks, Camps, etc.)
No	Day Care Centers, Day Camps		No	Schools and Colleges
* No	Electric Utility	•	No	Sewer Utility
No	EMT's,Paramedics,Nurses		No	Ski Facility
No	Fairs and Festivals		No	Streets,Roads,Highways,Bridges
No	Fire Department		No	Transportation System
No	Garbage Collection	*	No	Water Utility
No	Gas Utility		No	Watercraft over 26 ft. (provide descr. and use)
No	Golf Course		No	Wharves, Piers, Docks
No	Hospitals and Nursing Homes		No	Youth Detention Centers
No	Housing Authority, Projects		Yes	Other: Remote Comm facilities

<sup>\*</sup> Supplemental Applications should be completed for those items that are new exposures this year.

	B.	RATING INFORMATIO	N		
		Genera			Law Enforcement
		2,000,000 Populat		N/A	Number Full Time
			(excl. clerical & benefits)	N/A	Number Part Time
			Itility Payroll	N/A	Number Dispatchers
		N/A Emerge	ncy Personnel (Law Enf., Fire, El	MT's)	Jail/Youth Detention Centers
			mployees		Square Feet (cells only)
		3 Number	Employees (FT Equivalents)		# of Cells
		Road M	ileage		Number of Beds
		Paved			Average Number of daily inmates
		Unpave	d		Number of Jailers
		Court			Number of Bailiffs
		Number	of Judges		Number Youth Detention Center Attendants
		Number	of District Attorneys		Clinics
		EMT's/	Paramedics		Square Feet of Clinics
		N/A Number	of Professionals		Amusement
		N/A Number	of Volunteers		Number of Swimming Pools
		Firefigh	ters		Number of Diving Boards
		N/A Number	of Professionals		Number of Water Park
		N/A Number	of Volunteers		Number of Skate Parks
		Nurse/	LPN	***************************************	Number of Climbing Walls
		N/A Number	of Professionals		Number of Amusement Parks
			of Volunteers	**************************************	Number of Zoos
					- Miscellaneous
					Miles of Waterfront Exposure
				<u> </u>	
4)	CYBER LI	ABILITY INFORMATION	1		Yes/ No
	ta constant				YES
	is your dat	a encrypted?			TES
	Do you ha	ve password protection	on all data accessible devices?		YES
					VEC
	Do you na	ve a credentialed II pro	fessional to install and secure all	witi devices?	YES
	Do you ha	ve frequent and ongoing	g backups on all critical data?		YES
	If you outs	ource PII data retention	, are all 3rd parties PCI-DSS and/	or HIPAA compliant?	N/A
					14/2
	Do vou ha	ve a Data Security & Pri	vacy Policy that is updated perior	dically and consistently	
	enforced?		, ,		YES
	cinorecui				Parameter Control of the Control of
	Do you pr	ovide awareness training	g for employees on data privacy	and security issues?	
	Do you pi	oride attareness training	5 101 0	,	YES
	Cyber Con	nmonts!			
	Cyber Con	illients/			
	1				1
	1				
	1				1
5)	AUTOMO	BILE LIABILITY INFORI	MATION		
	VEHICLE		NUMBER	VEHICLE	NUMBER
	Private Pa	ssenger Emergency Ca	rs N/A	Ambulances	N/A
	, male r c	accorded Emorgency Co.	-		
	All Other F	Private Passenger Cars	N/A	Buses	N/A
	1919 990 991			46 B	N/000
		er than 15 Passenger),		15 Passenger	r Vans N/A
		Other Light Trucks	N/A	Motor Bikes	N/A
	(Up to 10,	000 lbs. GVW)	N/A	MOTOL DIKES	N/A
	Medium T	rucks		Fire Trucks	N/A

	(10,000 to 20,000 lbs. GVW)	N/A		
			Trailers	N/A
	Heavy Trucks	NIA	Miscellaneous	NI/A
	(Over 20,000 lbs. GVW)	N/A	Miscellaneous	N/A
	NOTE: Please be sure to indicate s	eating capacity for all buses and	15 passenger vans on the vehic	le schedule.
	TOTAL NUMB	ER OF VEHICLES	0	
6)	PAYROLL INFORMATION:			
		Current Year	Last Year	
	Total Payroll (excl. benefits)	\$ 325 102 00	\$327,285	
	rotal rayion (excl. benefits)	Ψ 023,102.00	4021,200	
	COVERAGE NOTICE			
	If this account meets our underwriting sta			
	General Liability and Law E     Automobile Liability will be	nforcement will be quoted on an Ev	ent basis.	
		nissions will be quoted on a Claims	-Made basis only.	
	The information provided in this application	on and all schedules are true and co	orrect to the best of my knowledge.	
	Signed:			
	PRES			
	Named Incomed.	- d - A - a - C		
	Named Insured: Southern Neva	ada Area Communications Council		
	Signed:			
	AGE	NT OR BROKER		

# NPAIP PUBLIC ENTITY PACKAGE APPLICATION SUPPLEMENTAL QUESTIONNAIRES Southern Nevada Area Communications (SNACC)

Member Name:		Southern Nevad	a Area Commun	ications (SNACC)		
RECREATIONAL EXPOSURES     A. Number of Swimming Pools     B. Number of Diving Boards     C. Number of Climbing Walls     D. Number of Skate Parks		N/A N/A N/A				
2) UTILITIES A Sewer  1. Is a sewage disposal plan If yes, please give annual B. Water 1. Annual Payroll (excl cleric 2. Identify Water Source Lake Well River	payroll (excl clerical).	N/A N/A N/A				
Spring	N/A					
Other (Describe)	N/A					
Please give the number of Emergency Medical T Paramedics     Nurses     LPNs  4) DAMS / DIKES / LEVEES / RESE This supplement must be comp A. Dam / Dike / Levee / Reservoid.     General Information	echnicians  ERVOIRS / SPILLWAYS Dieted for each Dam/Dik	(any barrier built to impour				tructure.
<ul><li>a) Structure Name:</li></ul>	N/A		Structure Location:	N/A		
<ul><li>b) Year built:</li><li>e) Hazard Code:</li><li>f) Construction:</li><li>g) Dimensions:</li><li>h) Storage Capacity (Act</li></ul>	N/A N/A N/A N/A Height res/Feet)	(I, II, III, IV - see below) (Concrete, Earthen, Steel N/A N/A	, or Timber) - if Other,	Please Specify:	N/A	
HAZARD CODES: Class I Class II Class III Class IV	Dams which, should the Dams which would caus Dams which are less tha	se little or no downstream d an 15 feet in height, impour	ibstantial downstream amage should they fa nd less than 15 acre fo	il.	ot considered to be a threat to dam, and drain less than 150 perty damage or loss of life.	
4) COMMENTS - PLEASE USE TH	IS AREA TO ELABORA	TE ON ANY INFORMATIO	N PROVIDED ELSEV	WHERE IN THIS APPLICATION	DN	

Bulldi ng

		ng									200	5.70			
	Site	Numb					Stat		Const	ISO Construction		Num Of		Replacement Cost	
Member Name	Number	er	Site Name	Description	Address 1	City	e	Zip	Year	Class	Sq.Ft. Zone	Stories	Sprinklers	New	Modeled Contents Value
5MM E	14	0.0	CLEVEN TYPING	SMART TATELLY	THE STEWART WITHOUT	AN ARRAY	MM	396273	1952	NEWSTANDARDS	188	基			9
SNACC	21	01	SITE 21- APEX	SNACC FACILITY	11 APEX ROAD UNIT D	NORTH LAS VEGAS	NV	89030	2001	N - NOT APPLICABLE	10	1		0	600,000 12
SNACC	23	01	SITE 23- ANGLES PEAK	SNACC FACILITY	1 ANGEL PK BUILDING 18	LAS VEGAS	NV	89124	1965	N - NOT APPLICABLE	15	1		0	600,000 12
SNACC	24	01	SITE 24- BIG HORN	SNACC FACILITY	1275 EAST PRIMM BLVD.	LAS VEGAS	NV	89109	2003	N - NOT APPLICABLE	10	1		0	400,000 5
SNACC	25	01	SITE 25- LAKE MEAD	SNACC FACILITY	243 LAKESHORE RD.	BOULDER CITY	NV	89005	1971	N - NOT APPLICABLE	10	1		0	400,000 5
SNACC	26	01	SITE 26- LOW POTOSI	SNACC FACILITY	2 LOW POTOSI	GOODSPRINGS	NV	89019	1985	N - NOT APPLICABLE	10	1		0	450,000 6
SNACC	27	01	SITE 27- BEACON	SNACC FACILITY	2 GLENDALE	GLENDALE	NV	89015	2003	N - NOT APPLICABLE	195	1		0	400,000 5
SNACC	28	01	SITE 28-SPIRT MTN	SNACC FACILITY	1B SPRIT MOUNTAIN ROAD	SEARCHLIGHT	NV	89046	2005	N - NOT APPLICABLE	10	1		O	350,000 4
SNACC	29	01	SITE 29- OATMAN	SNACC FACILITY	3 OATMAN PL	OATMAN	AZ	86433	1984	N - NOT APPLICABLE	10	1		0	350,000 4
SNACC	30	01	SITE 30-BOULDER CITY	SNACC FACILITY	1310 MOUNTAIN VIEW DRIVE	BOULDER CITY	NV	89005	1964	N - NOT APPLICABLE	90	1		0	450,000 6
SNACC	31	01	SITE 31 LAKE LAS VEGAS	SNACC FACILITY	LAKE LAS VEGAS	HENDERSON	NV	89011	2000	N - NOT APPLICABLE	100	1		0	350,000 4
SNACC	32	01	SITE 32- WEST SITE (NYE)	SNACC FACILITY	PAHRUMP WEST SITE	PAHRUMP	NV	89048	2009	N - NOT APPLICABLE	360	1		0	350,000 4
SNACC	33-1	01	SITE 33-1 BROOKS	SNACC FACILITY	1630 BROOKS AVENUE	NORTH LAS VEGAS	NV	89032	2009	N - NOT APPLICABLE	300	1		0	1,000,000 20
SNACC	33-2	01	SITE 33-2 SUNCOAST	SNACC FACILITY	9090 ALTA DRIVE	LAS VEGAS	NV	89145	2000	N - NOT APPLICABLE	24	1		0	800,000 20
SNACC	33-3	01	SITE 33-3 ELKHORN	SNACC FACILITY	7208 SHAUMBER RD	LAS VEGAS	NV	89166	2009	N - NOT APPLICABLE	24	1		0	800,000 20
SNACC	33-4	01	SITE 33-4 RJC	SNACC FACILITY	200 SOUTH LEWIS AVE	LAS VEGAS	NV	89101	2005	N - NOT APPLICABLE	200	1		0	800,000 20
SNACC	33-5	01	SITE 33-5 MANDALAY BAY	SNACC FACILITY	3950 S Las Vegas Blvd	LAS VEGAS	NV	89119	1976	N - NOT APPLICABLE	100	1		0	800,000 20
SNACC	33-6	01	SITE 33-6 RED MTN	SNACC FACILITY	RED MOUNTAIN	BOULDER CITY	NV	89005	2001	N - NOT APPLICABLE	144	1		0	800,000 20
SNACC	33-7	01	SITE 33-7 ARDEN PEAK	SNACC FACILITY	3 ARDEN PEAK	HENDERSON	NV	89015	2001	N - NOT APPLICABLE	360	1		0	1,100,000 20
SNACC	36	1	SITE 36- HOOVER DAM	SNACC FACILITY	HOOVER DAM SITE	BOULDER CITY	NV	89005	2020	N - NOT APPLICABLE	10	1		0	559,335 6
SWAFF		7.0	SELECT CHESTS	SMALT FARMETY	STOCK TOOK ELLEWISHER	TAS VEGAS	40	89.132	1000	N. NETT APPENDABLE	32%	2			
SNACC		02	SNACC OFFICE	SNACC FACILITY	6000 E. ROCHELLE AVENUE	LAS VEGAS	NV	89122	1996	N - NOT APPLICABLE	5000	2		0	2,500,000
SNACC	22		SITE 22 - GENEVA	SNACC FACILITY	1122 Geneva Ave	HENDERSON	NV	89015	1987	N - NOT APPLICABLE	160	1			450,000 6
SNACC	34		SITE 34 - PANORAMA	SNACC FACILITY	771 Panorama Rd	Pahrump	NV	89060		N - NOT APPLICABLE		1			450,000 6
														\$0	\$14,759,335

# Cyber Liability Coverage: Identity Theft Protection

Any business that relies on electronic data, computers, and networks to manage information, and stores their employees non-public, private information on a network, has Cyber Liability Exposure. Coverage is available on a separate policy, but not automatically included. Please discuss this with your agent.

Some examples of exposure would include but is not limited to: sending infected emails, unauthorized access or disclosure of information residing on your network, privacy injury and indentity theft that results from a breach of network security, and failure to comply with applicable privacy laws, e.g. HIPAA, GLBA, COPPA.

## Value Added Services

Assurance Ltd. is proud to list the following services we provide for our clients. We are "Committed to Insurance Excellence!"

Certificates of Insurance issued within 24 hours or less.

Vehicle identification cards issued within 24 hours of request.

Phone calls returned the same day.

Free Motor Vehicle driving record checks for prospective employees.

Complete Bond services

Claim Service including computerized loss runs and summaries.

Agent Support System - Agent backed up by a team of service representatives who are licensed insurance agents and available to assist you in the event your agent is out of the office.

Review of all insurance policies.

Full -line of products including Life and Health, Estate Planning, Benefits, Commercial Insurance and Personal Insurance.



Mr. Larsh Kellogg formed the original agency in 1952. In 1974 the agency was purchased by Don Olliver of Olliver-Pilcher Insurance Agency in Arizona. At that time, David H. Lee, our current President, joined the firm to manage it for Mr. Olliver. David Lee purchased the agency with three other partners in December 1983.

Assurance Ltd. currently employs 31 people. The agency has complete underwriting departments for Personal Lines, Commercial Lines, Bonds, Employee Benefits and Estate Planning. The agency is actively involved in marketing all lines of insurance and bonds. All agents and customer service representatives are required to be licensed with the State of Nevada.

The owners and officers of Assurance Ltd. arc:

President: David H. Lee

Vice President: Frank R. Nolimal

Secretary: David R. Lee

Treasurer: Lynn E. Campbell Director: Larry B. Holden Director: Luis E. Principe

We are proud to support the following organizations:

Independent Insurance Agents of Southern Nevada
Insurance Women of Southern Nevada
Las Vegas Chamber of Commerce
Henderson Chamber of Commerce
North Las Vegas Chamber of Commerce
Latin American Chamber of Commerce
Nevada Development Authority
Association of General Contractors
Southern Nevada Home Builders Association
Better Business Bureau of Las Vegas



## COMMERCIAL INSURANCE

Property • Liability Insurance **Excess Liability** Workers' Compensation Professional Liability **Business Auto** 

## **BOND DEPARTMENT**

**Contract Bonds** Miscellaneous Bonds **ERISA Bonds** Fidelity Bonds

# **Executive Business Planning**

Estate & Financial Planning Buy • Sell Insurance Key Man Plans Private Pension Plans Disability Income Plans

# **Employee Group Benefits**

Medical ● Dental ● Vision 125 Cafeteria Plans Pension Plans • 401k

# Personal Insurance

Residences Automobiles Personal Excess Liability Recreational Vehicles Disability Income Life Insurance Health Insurance Mortgage Life Insurance

## CHANGES AND DEVELOPMENTS

It is important that we be advised of any changes in your operations, which may have a bearing on the validity and/or adequacy of your insurance. The types of changes that concern us include, but are not limited to, those listed below:

- 1. Changes in any operations such as an expansion to another state, new products, or new applications of existing products.
- 2. Mergers and/or acquisitions of new companies, partnerships, LLCs, etc.
- 3. Any newly assumed contractual liability, granting of indemnities or hold harmless agreements.
- 4. Circumstances which may require an increased liability insurance limit.
- 5. Any changes in fire or theft protection such as the installation of or disconnection of sprinkler systems, burglar alarms, etc. This includes any alterations to it.
- 6. Immediate advice of any changes to scheduled equipment such as automobiles, contractor's equipment, electronic data processing, etc.
- 7. Property of yours that is in transit, unless we have arranged for the insurance previously.
- 8. Any changes in existing premises including vacancy, whether temporary or permanent, alterations, demolition, etc. Also, any new premises, purchased, constructed or occupied.

Your insurance program will only be as good as the communications maintained between you and your insurance agent.

## **INSURED'S OBLIGATION AT TIME OF LOSS**

When filing a claim, your policies require that you follow specific procedures and comply with certain provisions:

#### PROPERTY LOSSES:

- Immediate written notice of loss must be given to the insurance company in the event of fire and/or other direct damage to property.
- 2. Notice of loss should include a description of how, when and where the loss or damage occurred.
- 3. Notify the police if a law may have been broken, as in the case of burglary, theft or vandalism.
- 4. You are obligated to take all reasonable steps to protect your property from further damage. Examples are boarding up windows, or making temporary repairs to your roof if damaged. Keep records of your expenses for consideration in the settlement of your loss.
- Complete inventories of the damaged or destroyed property must be provided, including quantities, costs, values and amount of loss claims.

## LIABILITY CLAIMS:

- 1. You must see that any injury or damage is reported as soon as possible.
- Full details of the claim should include how, when and where the "occurrence" took place; the
  names and addresses of any injured persons and/or witnesses; and a description and location of
  any damaged property.
- If a claim or suit is filed against you, you are obligated to cooperate with the insurance company.The policy prohibits you from making any voluntary payments or assuming liability in any way.
- 4. You are required to report any occurrence that may result in a claim; therefore, you should emphasize to your employees the importance of reporting an incident to management, no matter how insignificant they feel it may be.

## WORKERS' COMPENSATION CLAIMS:

- 1. You must see that any injury or damage is reported as soon as possible.
- Full details of the claim should include how, when and where the "occurrence" took place; the
  names and addresses of the injured worker and/or witnesses; and a description and location of
  the accident.
- 3. Make sure the injured worker receives immediate medical assistance.
- 4. You are required to report all injuries; therefore, you should emphasize to your employees the importance of reporting all incidents to management, no matter how insignificant they feel it may be.

Regardless of the type, all losses should be reported to us in writing as soon as possible.

## **AVAILABLE OPTIONAL COVERAGES**

Assurance, Ltd. recommends you consider the following coverages for your insurance portfolio:

**Employment Practices Liability Insurance** 

Directors & Officers Liability

Flood Insurance

Earthquake Insurance

Employee Dishonesty Insurance

HIPAA Errors & Omissions Insurance

Higher Limits of Liability, including Excess Liability

Equipment Breakdown Insurance

Law and Ordinance Property Protection

Business Interruption – Extended Period of Restoration

Off-Premises Power Interruption

Spoilage Insurance

Fiduciary Liability

**Increased Demolition Limits** 

Internet Liability

Ocean Cargo Insurance

Motor Cargo Insurance

Cyber Liability

This is a partial list of insurance that is available. If you have concerns regarding risks you may have, please ask us if we can provide coverage for you.

## **CLIENT AUTHORIZATION TO BIND COVERAGE**

After careful consideration of your proposal dated 05/25/2022, we accept your insurance program subject to the following exceptions/changes:

Policy Type	Carrier	Premium	Bind Request
Package	Nevada Public Agency	\$34,719.60	Y/N
	Insurance Pool		

#### Subjectivities:

• Check in the amount of \$34,719.60 payable to Assurance, Ltd.

## **Special Notes:**

## Above insurance programs accepted subject to the following exceptions/changes:

It is understood this proposal is only a summary of the details; the policies will contain the actual coverages.

We confirm the values; schedules and other data contained in the proposal are from our records and acknowledge it is our responsibility to see that they are maintained accurately.

Please provide us with a binder(s) and invoice for the coverage agreed upon at your earliest convenience.

Agent Signature	Client Signature	
Dated :	Dated:	