



JUNE 2016

MONTHLY PROGRESS REPORT



Cover photo: A large crane plucks the existing shelter from the Sillusi Butte radio site. After refurbishment at a shop in Estacada, it will be permanently located at the new Doherty Slide site.

### PROJECT AND GOALS UPDATE

**D**uring May, the State Radio Project team and vendors Pantel International and Harris Corp. continued extensive integration testing between the console system and the new trunked radio system. We postponed the scheduled cutover dates for the limited pilot test to give the team more time to determine the root cause of minor issues that surfaced sporadically when combining the two systems. Lisa Strader, State Radio Project assistant manager, said we don't want to move forward until all issues are resolved.

The dispatch centers continue to operate successfully on the existing nonintegrated console and logging recorder systems. Both the new trunked radio system and the new console system are fully operational individually, but integration of the VHF and digital systems will add enhanced communications options.

The project team also spent time reviewing the details of the wireless infrastructure management system graphical displays of the sites and the corresponding alarms. We continue to define proof-of-performance standards for the 11 sites already installed. We want to ensure that the sites work as expected before purchasing and installing the remaining equipment at the other sites. WIMS vendor DPS Telecom will be present at the test sites beginning in late June or early July for training and to finalize the remaining equipment order.

"The civil work is winding down and wrapping up very cleanly," said Dick Upton, State Radio Project manager. By the end of May, contractors were actively installing microwave hops. Four more completed hops bring the total to 128, or 92 percent complete. We expect the microwave equipment for the overbuild plan and high-traffic areas to arrive by the end of June.

"We have civil work to complete on nine sites and of those only four are initial site builds," Upton said. The other sites involve follow-up scope work and, with the exception of Glass Butte, all civil construction should be complete by this fall. A designated team is visiting every site to verify inventory and record asset tags. The goal is to complete 100 sites by the end of June, and so far 70 visits are complete.

By the end of May, the closeout team finished developing the final process and tools needed to actively close out contracts, leases, agreements and assets. We expect this activity to conclude by the end of the year. The closeout process involves procurement, assets, finance, site acquisition and engineering.

"For each of these five areas we need to do document verification," Upton said. "After we're done, document control comes in to inspect and confirm the access path to retrieve these documents."

At the beginning of the radio project, ODOT's Document Control Unit created a structure and a process for tracking project-related documentation. This process is now paying off: As closeout activities get underway, the team is realizing a very low deviation rate.

"Our existing databases are cleaner than we expected, and we attribute that to the mentality from the onset of the project, which was closeout begins when the work begins," Upton said.

### INFRASTRUCTURE

**T**he radio project issued notice to proceed for five sites during May: Buxton Mountain, Grizzly Peak, High Heaven, Lone Pine and Tamarack Mountain. Crews reached substantial completion at High Heaven, and solar installation work continued on Bald Mountain. Crews worked on punch-list items at Wampus Butte and Medicine Mountain; the Murdock ATC site received a warranty review; Lakeview Maintenance received an inspection; and site work continued on Applegate Butte and Doherty Slide.

## MONTHLY PROGRESS REPORT

### NARROWBANDING

The radio project met the required Federal Communications Commission mandate to transition to narrowband operations ahead of the November 2013 deadline. Work on several narrowbanding-related items, including antenna installations for select repeater sites and office remote locations and power system upgrades, and construction of a number of infill sites will continue through 2016.

### CONSOLIDATION

The radio project goal to consolidate the Oregon Department of Transportation and Oregon State Police wireless communications systems into a single unit and allow for shared efficiencies and integration between the existing state systems is complete. OSP operations and maintenance staff, communications sites and communications systems were integrated with ODOT as of July 1, 2013. The work to transfer the OSP sites to ODOT is complete.

### INTEROPERABILITY

At the May 10 State Interoperability Executive Council meeting, the council approved interoperability grant funds for Frontier Digital Network. FDN submitted an application requesting funding for the purchase of an ISSI switch. If purchased and installed, the switch will provide a connection between the state's network and the FDN network, and will expand and enhance local and regional radio communications and interoperability.

The SIEC's request for proposals for the interoperability survey was unsuccessful. A team regrouped in May to brainstorm other ways to gather information on interoperability opportunities that exist with other public safety agencies in the state. The team also looked for other ways to evaluate the interoperability needs and how to make that information accessible to others in a searchable database.

## PROJECT PROGRESS

The total budget for the radio project is \$229,991,920. Less expenditures from the previous biennia and those expended by the Oregon Wireless Interoperability Network program, or OWIN, the remaining budget is \$175.1 million.

The work components necessary to launch the revised State Radio Project include project management, narrowbanding, microwave modernization, trunking, tactical interoperability and partner obligations. The budget and schedule for the project's active components are provided in the [State Radio Project monthly dashboard](#); supplemental information in this report is based upon the work breakdown structure detailed in the State Radio Project's Project Management Plan.

## WBS 1.0 – PROJECT MANAGEMENT SUMMARY

Project management consists of those elements that are projectwide and affect all other WBS sections.

### BUDGET EXPENDITURES

For WBS 1.0 Project Management, 98 percent of the total budget has been expended to date.

ACTIVITIES

ASSET MANAGEMENT

Asset management staff deployed microwave equipment for eight sites and narrowband materials for two sites in May. Staff also inventoried 37 sites, with technicians from the Wireless Communications Section, in support of project closeout.

Staff members continue to work with the radio project's Finance and ODOT's Financial Services groups to reconcile site expenditures.

CHANGE MANAGEMENT

There are two types of change requests, administrative and formal. Administrative changes are those that do not affect the project's baseline scope, schedule or budget. Formal changes are those that affect those project baselines.

During May, 13 change requests were processed and approved.

	April 2016	May 2016	Total to date
Administrative	0	0	84
Formal	7	13	665
Total	7	13	749

The following table represents the value of the project's contingency budget at the end of the two most recent months. The change noted is due to approval of formal budget changes executed in May.

	April 2016	May 2016	Total Change
Contingency budget, end-of-month value	\$1,716,066	\$1,502,611	(\$213,455)

COMMUNICATIONS MANAGEMENT

Communications staff provided the following project information/materials during May:

- Produced May 2016 Monthly Progress Report
- Produced May 2016 Project Dashboard
- Produced May 2016 Key Project Facts sheet
- Updated project website on Oregon.gov
- Distributed project information notices via GovDelivery
- Provided update on radio project activities to ODOT public affairs staff

QUALITY MANAGEMENT

Public Knowledge issued its last quarterly report for the radio project, covering the first quarter of 2016. A lessons learned report, targeted for completion during the third quarter of 2016, will be Public Knowledge's final task for the project.

The following table is a snapshot of the final two Quarterly Project Status and Improvement Reports issued by Public Knowledge.

## MONTHLY PROGRESS REPORT

	Fourth quarter 2015	First quarter 2016
Overall risk the project will not meet scope, budget or timing goals	Low	Low
Total number of risks identified during the review period	2	0
Total number of high-rated risks identified during the review period	0	0

In addition to reporting risk findings, Public Knowledge evaluates 35 quality standards each quarter, which are also ranked as high, medium or low risks. The following table is a summation of those ratings from the final two reports.

	Fourth quarter 2015	First quarter 2016
Standards rated as high risk	0%	0%
Standards rated as moderate risk	37%	0%
Standards rated as low risk	63%	100%

The following table is a snapshot of the issues, categorized by WBS section, managed by the project during May. Project management develops planned actions and target dates for resolving these issues. Until an issue has a target resolution date, it is not included in the planned for resolution count.

	Number of active issues	Number planned for resolution	Total resolved
1.0 Project Management	2	2	0
2.0 Narrowbanding	0	0	0
3.0 Microwave Modernization	0	0	0
4.0 Trunked Radio	3	3	0
5.0 Interoperability	0	0	0
6.0 Partnerships	0	0	0
7.0 Planning and Engineering	0	0	0
<b>Total</b>	<b>5</b>	<b>5</b>	<b>0</b>

## WBS 2.0 – NARROWBANDING

The narrowbanding component of the radio project involves two primary work efforts. First is to transition ODOT and OSP radio operations to narrowband mode, which the radio project completed in August 2013 in advance of the revised federal deadline of Nov. 1, 2013. The second effort includes implementing equipment upgrades, beyond those required for narrowband operation, to mountaintop tower sites and office locations throughout the state.

## BUDGET EXPENDITURES

For WBS 2.0 Narrowbanding, 99 percent of the total budget has been expended to date.

## ACTIVITIES

A small number of antenna installations and power system upgrades remain for infill repeater sites across the state (WBS 2.1).

Base station and remote installations (WBS 2.2) are substantially complete.

Radio project work on the mobile and portable deployment (WBS 2.3) is complete.

Asset reconciliation efforts for narrowbanding equipment deployed by the project will become a maintenance activity completed by Wireless Communications Section staff (WBS 2.1, 2.2 and 2.3).

## WBS 3.0 – MICROWAVE MODERNIZATION

The microwave component of the radio project involves replacing old and outdated ODOT and OSP analog microwave with digital microwave and making associated site improvements.

Microwave installation includes the acquisition, installation, implementation and optimization of the new digital microwave radios, antenna dishes, wave guide, routers and ancillary equipment to support both conventional and trunked radio systems.

Network implementation consists of integrating routing, switching and monitoring equipment into the microwave system to move both voice and data messages over the digital microwave system.

Improvements to towers, shelters, power supplies and other facilities required by the upgraded microwave and trunked radio systems are anticipated at most sites. New leases, permits and agreements will be obtained as needed.

The budget for this project component, totaling \$52.4 million, is comprised of \$19.8 million for installation, \$5.6 million for network implementation, \$25.7 million for site work and \$1.2 million for wireless infrastructure management system implementation.

## BUDGET EXPENDITURES

For WBS 3.0 Microwave Modernization, 83 percent of the total budget has been expended to date.

## ACTIVITIES

### MICROWAVE INSTALLATION AND IMPLEMENTATION

The project is tracking the implementation of the microwave network in two ways: by individual sites and by individual "hops." A microwave hop connects two sites to each other. In most cases, a single site will require equipment sets to support multiple hops. The microwave network is established by connecting the hops together.

The radio project will report a site as microwave installation complete when all equipment needed to support all hops has been installed at the site. The project will report a microwave hop complete when equipment connecting two sites has been installed.

Four hops commissioned in May bring the completion of all necessary installations to 90 percent.

---

## MONTHLY PROGRESS REPORT

### SITE IMPROVEMENTS

The site improvement process includes three phases: pre-design, design and construction.

**Pre-design phase:** Tasks completed from inception to approval by the Site Review Committee, the project's change review board. Pre-design scoping activities at all sites are complete; however, radio project staff will revisit sites as necessary to address any needs that may arise during the design process.

**Design phase:** Tasks completed from site planning through acquisition of the site building permit.

**Construction phase:** Tasks completed from the acquisition of the building permit to the completion of site construction.

### WIRELESS INFRASTRUCTURE MANAGEMENT SYSTEM

The wireless infrastructure management system will provide monitoring, alarming and control capabilities for system components and associated equipment.

Staff continued its work with WIMS contractor DPS Telecom to fully define proof-of-performance plans for the original 11 sites.

DPS Telecom is developing the graphic user interface design that will show system operators equipment status information from sites statewide. The system will open to an image of the state. Operators will be able to zoom in on a region and a site to monitor site-specific systems in operation, such as temperature gauges, generator operations, trunked radio equipment and site security.

## WBS 4.0 – TRUNKED RADIO SYSTEM

A trunked radio system is used to maximize available capacity in a two-way radio system. Because not everyone in a group talks at once and radio transmissions are usually short, a trunked computer can assign talk frequencies in a manner that allows multiple groups of users to share a small set of frequencies without hearing each other's conversations. This effectively compresses the voice signals and enhances the capacity of the system.

The trunked system will allow local radio communications between public safety personnel; microwave will distribute those signals over a larger area, enabling distance and interagency communications.

The \$27.7 million budget for the trunked radio system includes five primary work efforts: procurement and installation of trunked radio repeaters for \$15.3 million, switches for \$2.1 million, dispatch consoles for \$5.0 million, testing and training for \$3.6 million and VHF integration for \$1.7 million.

### BUDGET EXPENDITURES

For WBS 4.0 Trunked Radio System, 82 percent of the total budget has been expended to date.

### ACTIVITIES

Development of the trunked radio system includes three categories of work: repeater and site control equipment, central trunking switches and dispatch consoles. Section 7.0 Planning and Engineering also includes progress on the design efforts related to the trunked radio system.

One trunked radio repeater was installed in May (WBS 4.1) and additional installations are expected to start in early May.

Installation of trunk switches is complete (WBS 4.2).

Installation of dispatch console units is complete (WBS 4.3). In May, staff worked on integration testing in preparation for the full integration with the trunked radio system. Staff from the radio

project, the Wireless Section, ODOT and OSP dispatch centers, and vendor staff from Harris and Pantel conducted tests to verify system operations. The team identified issues, made corrections and retested the system to ensure successful operation. System integration is planned for July. To date, each system is operating independently. Console installation work continues (WBS 4.3).

### WBS 5.0 – INTEROPERABILITY

The State Interoperability Executive Council led statewide efforts to develop the overarching plan for interoperability in Oregon. The SIEC and the radio project are initiating improvements to state interoperability, including awards to local public safety entities to enhance their radio systems to interoperate more effectively with the state. Other efforts include a survey of existing systems, a report on future interoperability needs and opportunities, and workshops for public safety communications agencies. The project budget for this section is \$2.3 million.

#### BUDGET EXPENDITURES

For WBS 5.0 Interoperability, 2 percent of the total budget has been expended to date.

#### ACTIVITIES

Funding was approved by the SIEC for use in one additional interoperability project at its second quarter meeting held in May. Frontier Digital Network requested funds for the purchase of a P25 RF Subsystem Interface (ISSI) gateway. Once purchased and installed, the switch will provide a connection between the Frontier Digital Network and the master switch operated by the state.

### WBS 6.0 – PARTNERSHIPS

Partnerships were developed between the former OWIN program and local jurisdictions with the intent to reduce costs to both parties. These agreements created interdependency among participants for a functional system. The radio project has identified the partnership groups listed below as including sites that require work to meet the needs associated with these agreements:

- Chemical Stockpile Emergency Preparedness Program (CSEPP) (WBS 6.1.1)
- Lincoln County (WBS 6.1.2)
- North Coast (WBS 6.1.3)
- North Valley (WBS 6.1.4)
- Southwest Seven (WBS 6.1.5)
- Klamath County (WBS 6.1.6)
- Additional partnerships (WBS 6.1.7)

#### BUDGET EXPENDITURES

For WBS 6.0 Partnerships, 96 percent of the total budget has been expended to date.

#### ACTIVITIES

##### OWIN OBLIGATIONS

Partnership work includes the following five phases: agreements, design, construction, microwave installation and obligation complete.

**Agreements:** Umbrella and supplemental agreements executed in a given region.

## MONTHLY PROGRESS REPORT

**Design phase:** Tasks completed from site planning through acquisition of the site building permit.

**Construction phase:** Tasks completed from the acquisition of the building permit to the completion of site construction.

**Microwave installation phase:** All tasks involved in the installation of microwave equipment, from initiation to completion. Microwave installations may occur during a site's construction phase or after it has been completed.

**Obligation complete:** All work has been completed and associated quality reviews have been conducted and work approved. Quality reviews include those conducted by the partner(s), Wireless Communications Section technicians and by representatives of OEM.

All partnership work is complete with the exception of Klamath County (WBS 6.1.6). Applegate site construction is substantially complete, with only punch-list and U.S. Forest Service items remaining. Microwave equipment installation is set to begin in June.

Activating the Klamath County system depends upon connecting Applegate and Swan Lake Point. A full evaluation of antenna damage at Swan Lake Point after a harsh winter will occur in June. The anticipated completion date of Klamath County work is June 2016, although that date may change after the site evaluation.

### STRATEGIC TECHNOLOGY RESERVE

Activities related to the deployment of the Strategic Technology Reserve (WBS 6.5) are complete. Operations have been transferred to the Wireless Communications Section.

### OTHER PARTNERSHIPS

Representatives from Deschutes County 911 and ODOT met in May with Deschutes County's consulting firm to review details of the network design. This partnership will enhance the systems of both parties and will provide increased coverage to area emergency responders.

## WBS 7.0 – PLANNING & ENGINEERING

The planning and engineering section of the work breakdown includes design and development activities associated with the previous WBS sections.

### BUDGET EXPENDITURES

For WBS 7.0 Planning and Engineering, 98 percent of the total budget has been expended.

### ACTIVITIES

Statewide planning activities (WBS 7.1) are captured under interoperability design (WBS 7.5).

The project has completed all narrowband planning (WBS 7.2) efforts and has transitioned ODOT and OSP radios to operate in narrowband mode.

The microwave design (WBS 7.3) is considered substantially complete. Small adjustments will be made in response to needs identified during the site acquisition and construction processes. Coordination of microwave implementation is well underway.

Development on the radio project's trunked radio system (WBS 7.4) design is complete.

Interoperability design (WBS 7.5) will be accomplished largely by local public safety agencies, in coordination with the project, that are awarded interoperability funds through an application process and approved by the State Interoperability Executive Council.

Partnership development (WBS 7.6) is complete.

WBS 8.0 – INTEGRATION TRAINING

This section of work was developed and incorporated into the project budget during February 2013. It includes limited funding for training activities for Wireless Communications Section technicians and stakeholders. Activities related to integration training began in the third quarter of 2014 and will extend into 2016.

BUDGET EXPENDITURES

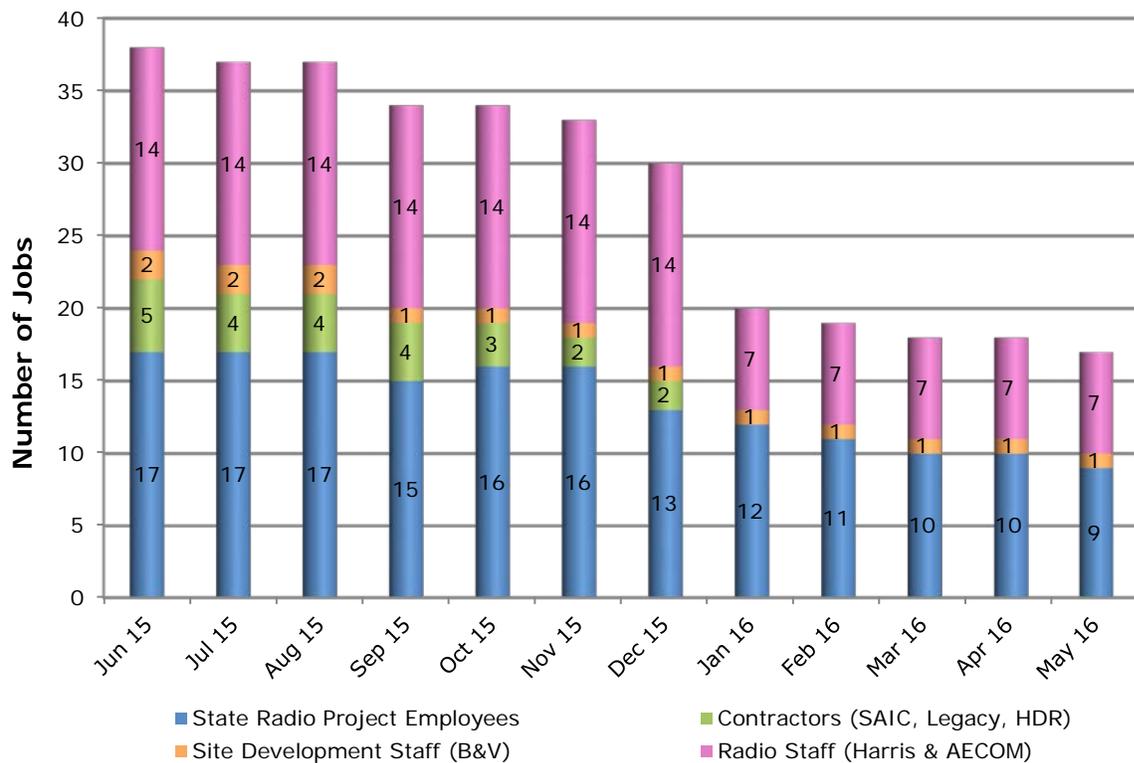
For WBS 8.0 Integration Training, 38 percent of the total budget has been expended to date.

ACTIVITIES

During May, Wireless Communications Section microwave technicians received training on how to install, configure and commission new “960” radio equipment.

STAFFING SUMMARY

Full-time state employees and contractors are working on the radio project throughout Oregon. In May, the project employed nine full-time equivalent state positions.



## MONTHLY PROGRESS REPORT

## CONTRACT SUMMARY

Including historic values of the previous OWIN program, the State Radio Project has spent \$151,884,384 of the \$188,575,738 currently available across the project's 16 contracts. This represents an overall expenditure of approximately 81 percent.

To date in the 2015-2017 biennium, \$18,743,840 has been spent. This represents 10 percent of the total contract amount available, meaning the amount authorized on a contract, and approximately 34 percent of the contract amount available for the biennium.

## CONTRACT SUMMARY BY VENDOR

	Expended before 06/30/2011	Expended after 06/30/2011	Available balance as of 05/31/2016	Contract amount available
ABN Engineering	-	\$582,889	\$100,691	\$683,580
AECOM	\$294,656	\$4,954,698	\$291,329	\$5,540,683
Aviat Networks	\$9,456,115	\$14,716,383	\$8,252,596	\$32,425,094
Black & Veatch	\$6,168,224	\$5,875,374	\$11,775,535	\$23,819,132
CSGI	\$951,175	-	-	\$951,175
Federal Engineering	\$7,932,754	\$703,111	\$1,380,972	\$10,016,838
General Dynamics	\$3,750,794	\$6,417,793	\$841,644	\$11,010,231
Harris Corp.	-	\$54,531,951	\$3,638,383	\$58,170,334
HDR Inc.	\$261,091	\$3,714,106	\$21,766	\$3,996,963
JLA Consulting	-	\$70,124	-	\$70,124
Legacy Wireless	\$1,656,972	\$4,108,360	\$2,529,668	\$8,295,000
Misc. small contracts	\$1,032,492	\$13,463,162	\$1,298,045	\$15,793,700
OBEC Consulting	-	\$141,045	\$4,775	\$145,820
Pantel International	-	\$3,961,320	\$2,231,575	\$6,192,896
Public Knowledge	-	\$1,932,025	\$931,558	\$2,863,582
SAIC Inc.	-	\$5,207,770	\$3,392,816	\$8,600,586
<b>Total</b>	<b>\$31,504,273</b>	<b>\$120,380,111</b>	<b>\$36,691,354</b>	<b>\$188,575,738</b>
Percentage expended of contract amount available	<b>17%</b>	<b>64%</b>	<b>19%</b>	<b>--</b>

PROJECT COST SUMMARY

	Original budget 09/07/2011	Rebaselined budget 09/30/2013	Prior budget changes as of 04/30/2016	Current month budget changes as of 05/31/2016	Current budget as of 05/31/2016	Funds spent through 05/31/2016	Balance as of 05/31/2016
<b>Narrowbanding</b>							
Repeaters	6,100,000	4,415,302	524,329	1,800	4,941,431	4,837,442	103,989
Office Remotes	2,000,000	2,116,600	(915,549)	25,000	1,226,051	912,745	313,306
Handhelds/Portables	33,200,000	25,742,427	916,281	(100,000)	26,558,708	26,488,213	70,495
Cutover/Testing	-	300,000	(69,295)	-	230,705	230,705	-
<b>Narrowbanding Subtotal</b>	<b>41,300,000</b>	<b>32,574,329</b>	<b>455,766</b>	<b>(73,200)</b>	<b>32,956,895</b>	<b>32,469,105</b>	<b>487,790</b>
<b>Microwave Modernization</b>							
Purchase & Installation	29,300,000	17,568,049	2,165,152	45,000	19,778,201	15,599,211	4,178,990
Network	-	5,498,992	125,166	-	5,624,158	5,374,160	249,998
Site Improvements	45,550,000	25,150,000	581,997	(1,545)	25,730,452	22,161,442	3,569,010
Network Management System	-	1,386,984	(141,984)	-	1,245,000	231,442	1,013,558
Training & Equipment Acquisition	-	500,000	(500,000)	-	-	-	-
<b>Microwave Modernization Subtotal</b>	<b>74,850,000</b>	<b>50,104,025</b>	<b>2,230,331</b>	<b>43,455</b>	<b>52,377,811</b>	<b>43,366,255</b>	<b>9,011,556</b>
<b>Trunking</b>							
Receivers	5,250,000	14,803,450	270,938	208,200	15,282,588	13,478,622	1,803,966
Switches	-	2,403,062	(288,813)	-	2,114,249	2,114,248	1
Consoles	1,400,000	3,941,546	1,020,605	-	4,962,151	4,117,418	844,733
Testing & Training	-	4,193,867	(576,250)	-	3,617,617	1,717,369	1,900,249
VHF Integration	-	1,500,000	199,356	-	1,699,356	1,199,059	500,297
<b>Trunking Subtotal</b>	<b>6,650,000</b>	<b>26,841,925</b>	<b>625,836</b>	<b>208,200</b>	<b>27,675,961</b>	<b>22,626,716</b>	<b>5,049,245</b>
<b>Interoperability</b>							
Procurement & Installation	2,300,000	2,300,000	-	-	2,300,000	36,588	2,263,412
<b>Interoperability Subtotal</b>	<b>2,300,000</b>	<b>2,300,000</b>	<b>-</b>	<b>-</b>	<b>2,300,000</b>	<b>36,588</b>	<b>2,263,412</b>
<b>Partnerships</b>							
Construction	10,400,000	10,469,802	-	-	10,469,802	10,082,998	386,804
<b>Partnerships Subtotal</b>	<b>10,400,000</b>	<b>10,469,802</b>	<b>-</b>	<b>-</b>	<b>10,469,802</b>	<b>10,082,998</b>	<b>386,804</b>
<b>Engineering</b>							
Narrowbanding	1,300,000	1,532,772	285,214	-	1,817,986	1,817,486	500
Microwave Modernization	17,750,000	18,468,867	1,105,367	35,000	19,609,234	19,710,072	(100,838)
Trunking	1,850,000	9,299,376	933,376	-	10,232,752	9,367,597	865,154
Interoperability	-	3,064,792	(1,690,685)	-	1,374,107	1,374,107	-
Partnerships	-	410,155	(50,321)	-	359,835	359,835	-
<b>Engineering Subtotal</b>	<b>20,900,000</b>	<b>32,775,962</b>	<b>582,951</b>	<b>35,000</b>	<b>33,393,913</b>	<b>32,629,097</b>	<b>764,816</b>
<b>Integration Training</b>							
Integration Training	-	500,000	(350,000)	-	150,000	56,910	93,090
<b>Integration Training Subtotal</b>	<b>-</b>	<b>500,000</b>	<b>(350,000)</b>	<b>-</b>	<b>150,000</b>	<b>56,910</b>	<b>93,090</b>
<b>State Radio Project by Phase</b>							
Narrowbanding phase	42,600,000	34,107,101	740,980	(73,200)	34,774,881	34,286,591	488,290
Microwave Modernization phase	92,600,000	68,572,892	3,335,698	78,455	71,987,045	63,076,327	8,910,718
Trunking phase	8,500,000	36,141,301	1,559,211	208,200	37,908,712	31,994,313	5,914,399
Interoperability phase	2,300,000	5,364,792	(1,690,685)	-	3,674,107	1,410,696	2,263,412
Partnerships phase	10,400,000	10,879,957	(50,321)	-	10,829,637	10,442,832	386,804
Integration Training phase	-	500,000	(350,000)	-	150,000	56,910	93,090
<b>Phase Subtotal</b>	<b>156,400,000</b>	<b>155,566,043</b>	<b>3,544,884</b>	<b>213,455</b>	<b>159,324,382</b>	<b>141,267,669</b>	<b>18,056,713</b>
<b>Project Management</b>	<b>-</b>	<b>15,069,054</b>	<b>(769,335)</b>	<b>-</b>	<b>14,299,719</b>	<b>13,954,352</b>	<b>345,368</b>
<b>Project Contingency Reserve</b>	<b>-</b>	<b>3,852,259</b>	<b>(2,136,193)</b>	<b>(213,455)</b>	<b>1,502,611</b>	<b>-</b>	<b>1,502,611</b>
<b>Total State Radio Project</b>	<b>156,400,000</b>	<b>174,487,356</b>	<b>639,356</b>	<b>-</b>	<b>175,126,713</b>	<b>155,222,021</b>	<b>149,904,692</b>
<b>Old OWIN Project</b>							
Spending	45,000,000	49,256,733	(639,356)	-	48,617,377	48,617,377	-
Treasury Loan	8,000,000	6,247,831	-	-	6,247,831	6,247,831	-
<b>Total Old OWIN</b>	<b>53,000,000</b>	<b>55,504,564</b>	<b>(639,356)</b>	<b>-</b>	<b>54,865,208</b>	<b>54,865,208</b>	<b>-</b>
<b>Grand Total</b>	<b>209,400,000</b>	<b>229,991,920</b>	<b>-</b>	<b>-</b>	<b>229,991,920</b>	<b>210,087,228</b>	<b>19,904,692</b>

MONTHLY PROGRESS REPORT

ESTIMATED PROJECT CASH FLOW

