

CLACKAMAS C800 RADIO GROUP

BOARD OF DIRECTORS MEETING

September 22, 2021 / 9:00AM

This will be a ZOOM Meeting

Join Zoom Meeting

<https://clackamascounty.zoom.us/j/89006024138>

Phone in: (253)215-8782 Meeting ID: 890 0602 4138

1. Call the Board of Directors meeting to Order - Chair Chief Rick Huffman
2. Roll Call of Partners: (19/10)

a. City of Canby	h. City of West Linn	o. Molalla Fire District
b. City of Gladstone	i. Aurora Fire District	p. Sandy Fire District
c. City of Lake Oswego	j. Canby Fire District	q. Tualatin Valley Fire & Rescue
d. City of Milwaukie	k. Clackamas County Fire District #1	r. Clackamas County Sheriff
e. City of Molalla	l. Colton Fire District	s. Clackamas County Health
f. City of Oregon City	m. Estacada Fire District	
g. City of Sandy	n. Hoodland Fire District	
3. *Approval of Minutes of June 16, 2021, Board Meeting / Approval of the Minutes of the August 18, 2021 Board Meeting - Rick Huffman
4. Public Comment - Rick Huffman
5. Communications - John Hartsock
6. Financial Report - July / August 2021 - John Hartsock
7. Committee Reports
 - a. Executive Committee - Rick Huffman
 - b. Technical Committee - John Hartsock
 - c. Citizen Accountability - John Hartsock - Next Meeting December 15, 2021 Zoom
8. Old Business: (* Action Item)
 - a. System Management: Ron Polluconi
 - b. System Upgrade/Replacement
 - i. Project Status / Procurement: Bjorn Morfin / John Hartsock
 - ii. Project Cutover Plan
 - iii. 900 - 800 Paging: Ron Polluconi
 - iv. Portable Radio antenna: Ron Polluconi

v. DVRS - Repeaters: Ron Polluconi

9. New Business: (* Action Item)

- a. * Approval Purchase Order to Raven Electronics Reno, Nevada
- b. **Next Board Meeting October 20,2021 9:00A ZOOM**

10. Open Agenda

11. Adjournment

CLACKAMAS C800 RADIO GROUP

BOARD OF DIRECTORS MEETING

Meeting Minutes of the June 16, 2021 Meeting

This meeting was held via ZOOM.

1. C800 Board Meeting Called to Order at 0900.

2. The following were in attendance:

City of Canby: Chief Jorge Tro	Sandy Fire District: Chief Phil Schneider
City of Gladstone: Chief Rick Huffman, Chief John Schmerber, Randy Hopperstad	Tualatin Valley Fire & Rescue: Chief Mark Havener
City of Lake Oswego: Chief Don Johnson, Sue Scobert	Clackamas County Sheriff: Capt. Robert Wurpes
City of Milwaukie: Capt. Ryan Burdick	
City of Molalla: Chief Frank Schoenfeld	CCOM: Cheryl Bledsoe, Tony Collins
City of Oregon City: Jim Band	WCCCA: Ron Polluconi, Jennifer Reese, Mark Buchholz
City of West Linn: Chief Peter Mahuna	Clackamas County: Brian Nava, Jamie Poole
Aurora Fire District: Chief Joshua Williams	C800: John Hartsock
Canby Fire District: Chief Jim Davis	
Clackamas Fire District #1: DC Michael Carlsen, Jessamyn Ode	Skyland: Melissa Framiglio, Bitsy Ellis Others: C Simon, Roger Allen, Chad, Clayton Simon
Colton Fire: Chief Mike Everhart	
Estacada Fire District: Chief Ian O'Connor	

3. Approval of Minutes – April 21, 2021, Board Meeting

Chief Tro moved and Chief Schoenfeld seconded. Motion passed unanimously.

4. Public Comment:

Melissa Framiglio voiced that having the tower near her home would negatively impact her family.

5. Communications: None.

6. Financial Report – May 2021 - John Hartsock

John reported that they are tracking on budget and ready to close out the year at the end of the month.

7. Committee Reports

Executive Committee – Chief Rick Huffman: They did not meet. No report.

Technical Committee - John Hartsock: They met on May 26. They went over system status issues at existing sites. They discussed the technician call out procedure so that its working for CCOM and all users. Discussed finishing the console install at CCOM. They gave an update on the new radio system and outlined some training.

Citizen Accountability - John Hartsock – Next meeting is August 18, 2021, via Zoom.

8. Old Business:

a. System Management - Ron Polluconi: Ron reported that they are stable and in the middle of the transition. They've had no interruptions in overall service. They will remain in an unprotected microwave process until they get the final cut over complete. This means that they have connectivity, but they don't have their back up paths.

They've had some damage to antennas at some sites, all microwave related. There are a number of antennas they will be upgrading and/or replacing in the coming weeks. By mid-July, they should have those repairs completed and the system stable.

Emergency power is stabilizing. They are working on the final details of their fuel reporting and the generator management system. They are in the process of implementing/transitioning to an asset management tool.

b. System Upgrade/Replacement

i. Project Status/Procurement – John Hartsock:

John reported that all twelve existing sites and two dispatch centers are complete. They just finalized gate installations at Goat Mtn. They are waiting on the Forest Service for approval of the new fuel tank at Timberline. All the upgrades at CCOM and LOCOM are done and the new radio consoles are installed and ready.

The new sites of Barton, Canby, Crutcher Bench, Damascus, Highland, Butte, Hoodland Fire, Sandy, and Wilsonville are all complete. Memaloose and Whale Head need minor fencing work and fire damage repairs. They should hopefully have power at Memaloose in a couple weeks. Power cable is being placed for Whale Head and Oak Grove to connect to PGE. They have all their permissions done for TD&H and they are starting in July.

They had a site inspection with FEMA for the fire damage at Whalehead and Memaloose and are waiting for their written report. They should also get some help from SDAO. C800 should be in good shape to cover the repairs.

They are waiting for radio testing to be complete before determining the other two Lake Oswego sites.

They are projecting late August or September for the system operational dates due to glitches. They are aware of wildfire season as well as employee vacations coming up. The date will be finalized within the next 30 days. They are aiming to have total system completion at the end of December.

Procurement is nearly complete as they have one more piece of paging equipment to bid out.

They are continuing to do radio install and microwave install. Testing is going well and Motorola is getting the results they have expected.

They are tracking on budget. The overage of about \$1.8 million pertains to the work that they will get reimbursed for by PGE once the work is complete.

ii. 900-800 MHz Paging (voice) - Ron Polluconi: They continue to install the new transmitters for 900 paging. They are installing everything in parallel with the old systems with no issues. They are preinstalling the new transmitters for the new sites. There will be some expanded coverage on the 900 system and those updates will be announced as they are completed.

iii. Portable Radio Antenna- Ron Polluconi: They have monoband and multiband antennas. They will be contacting the primary contacts to let them know they are available. He understands its an inconvenience, but they want to make sure they get the enhanced performance. They also need to remove the older antennas as they will perform less optimally.

iv. DVRS – repeaters – Ron Polluconi: Ron said the case studies will begin soon in Washington County. Both Fire Defense Boards have been working together and he anticipated seeing a report soon. They would like to start preparing for the post cut-over and programming the DVRS. They need to determine how the Fire Defense Boards want them installed.

John said they started to create some training materials. Darrin created one on how users can convert their radios from analog to digital. Ron said that Darrin is working on more videos also. They will be sending a video out and encouraging everyone to cut over to the digital system. Then they can talk on the test talk groups which will be encrypted and unencrypted (no difference in quality). They will be tracking agencies as people cut over to the new system. Agencies will be provided with a summary report of how many radios have cut over.

They are working on a cut-over plan which will be a step-by-step process which they will distribute to the agencies. They anticipate it to be relatively simple. They are shooting for late-August or early September for cutover. There is a real possibility that it could be delayed. They want to be able to set a date by July.

John introduced Mark Buchholz as the new director at WCCCA in Washington County.

9. New Business (*Action Item)

a. * Approval of Oregon Department of Forestry Communication Infrastructure Grant

John explained that they were approached by Clackamas County Disaster Management to put together a grant request for funds received from House Bill 4052. Ron and John discussed that in the past, they have had various overlays. Since the wildfires, they had been discussing the VHF overlay.

They put together a quick proposal of a five site VHF overlay primarily for south Clackamas County. There have been concerns from the Sheriff's department in that area regarding current coverage. They put a design and proposal to ODF and they are waiting to hear back. It would go through Clackamas County but it would be totally paid for by the grant. He is looking for the Board's approval to continue with this grant.

It was requested that the Board approve a grant request in the amount of \$237,570 to the Oregon Department of Forestry for the design and implementation of a five site, 150Mhz VHF overlay for law enforcement and fire interoperable communication in south Clackamas County. A supplemental budget will be prepared to expend and request reimbursement for use of these funds within the grant timelines.

Chief Michael Carlsen made the motion and Chief Mike Everhart seconded. Motion passed unanimously.

b. Mobile Command Unit

Chief Carlsen of Clackamas Fire explained that they have a mobile command unit for multi-agency use. It has eight 800 MHz radios that are not P25 compliant. They only just found out so it was not budgeted by CCFD#1. John, however, has it in the project budget.

John said this unit is available for all units to use. It's housed at CFD. The technicians are looking at it to bring it up to date.

c. Factory Mutual Radio Rating:

John explained that it affects mostly fire users. Motorola announced in 2015 that they were going away from the Factory Mutual listing of radios and going to UL Radio listing. Some of the agencies, such as Estacada Fire, still have some radios from prior to 2015. The radio works fine, but if it needs

any kind of service, they can no longer certify it as Factory Mutual. The agencies will need to decide if they want to continue with that radio or not.

Ron said that they are still compliant with TIA4950 but the Factory Mutual certification is no longer available.

d. Next Board Meeting

Next meeting will be July 21, 2021, at 9:00AM Location: Zoom

10. Open Agenda

Captain Ron Wurpes asked about the VHF plan. Is that completely off the table? Is there any funding to keep that system?

John said that the current VHF system will be going away. As outlined we are pursuing a VHF overlay with the grant. They've also had some discussions with the USFS. C800 will be maintaining the Whale Head law repeater and adding the Bagby law repeater. That will still be available from CCOM.

Captain Wurpes asked if there is any funding source going forward for maintenance? John said that C800 is responsible for the maintenance.

Ron said that they are going to try and sustain the existing, failing system with limited maintenance until the new system is fully complete. They are mostly focused on the service along Hwy 224. Both of those will be supported in the new system.

Chief Huffman asked about the limitation on the maps in the red and green zones?

Ron said that anything in those areas will be reliable communications. Red shows where it's hot enough that they can penetrate into buildings.

Chief Huffman announced the Chief Randy Hopperstad of Hoodland Fire will be retiring soon and he wished him well.

11. Adjournment - Meeting adjourned at 9:39 AM

CLACKAMAS C800 RADIO GROUP

BOARD OF DIRECTORS MEETING

Meeting Minutes of the August 18, 2021 Meeting

This meeting was held via ZOOM.

1. C800 Board Meeting Called to Order at 0901.

2. The following were in attendance:

City of Gladstone: Chief Rick Huffman, Chief John Schmerber	Clackamas County: Brian Nava
City of Lake Oswego: Sue Scobert, Clayton Simon	Clackamas County Sheriff: Capt. Robert Wurpes
City of Molalla: Chief Frank Schoenfeld	Clackamas County Health: Bill Conway
City of Oregon City: Bill Kler	CCOM: Cheryl Bledsoe, Toni Sexton, Tony Collins, Meg Neece
Canby Fire: Chief Jim Davis	WCCCA: Ron Polluconi
Molalla Fire: Lt. Mike Penunuri	C800: John Hartsock, Bjorn Morfin
TVF&R: Asst. Chief Mark Havener	Skyland: Melissa Framiglio, Bitsy Ellis, Chad Dahlstrom

3. Approval of Minutes – June 16, 2021 Board Meeting

There was no quorum so the minutes were not voted on.

4. Public Comment: None.

Chad Dahlstrom said he was looking for updates on the possible site near Skyland Neighborhood Association and the Lake Oswego testing.

John said they are meeting with Lake Oswego later that morning. They will start testing and will have some results by next month's meeting.

Bitsy Ellis also wanted an update and looks forward to next month.

5. Communications: None.

6. Financial Report – June 2021 / July 2021 - John Hartsock

John reported that financials are being sent to the auditor to start the process. He did not have the July financials yet but they will be in next month's packet.

7. Committee Reports

Executive Committee – Chief Rick Huffman: No update.

Technical Committee - John Hartsock: They met on July 28. They went over the issues with new system with scheduling, console training, and CAD interfaces. They meet again the following week.

Citizen Accountability - John Hartsock: The next meeting will be September 15, 2021 via Zoom.

8. Old Business:

System Management - Ron Polluconi: Ron shared that they are almost finished with the microwave transition. They had a prolonged outage at Mt. Hood. The site is now fully restored. That is their last major cut over to the system.

There is now a risk with the new system blended with the old system. In order to get the new system together, they had to create some open loops. In many areas, they had redundant paths and now they no longer have those paths. They are now more at risk of an outage. It's not a substantial risk, but there is still a risk. They are anxious to get everything cut over so they are back to a protected state with the new microwave configuration.

All the repairs they had been planning for have been completed. They are preparing for the fall and winter season now.

System Upgrade/Replacement

Project Status/Procurement – Bjorn Morfin / John Hartsock:

John shared that work continues on the three Hwy 224 sites. Memaloose is up, has power, and is cleaned up from the fire damage. Whalehead just started work on the fire damage that's anticipated to take two weeks. It will still be a while before it regains power. He expects power to return to the Oak Grove site from the end of the month to early October. They are installing antennas at these three sites. The work is progressing with the road access to the TD&H site. They hope to start construction at the end of the month.

He shared that the microwave vendor has the system up. There are two open segments that are not critical for some of the testing. Therefore, they have started testing along the Hwy 26 corridor. They use a contractor for their coverage testing and that timing won't line up until the end of August. Then they will then start some on-the-ground testing by the agencies. Motorola testing has been going well. However, Motorola lost two skilled employees that were technically essential; this has delayed the process. Fortunately, the WCCCA and other technicians have not had any disruptions due to the pandemic.

John shared his screen and showed the detailed schedule they are working on. Due to the cyber data breach last June, they had to re-create a database for all the subscriber radios. It will take at least three months to accomplish this. They did not lose the data, but it did have to be re-entered. Both the back-up and primary files were lost in the cyber-attack.

Captain Wurpes wanted to make sure they had a clear plan for training the deputies and dispatch centers. They will also need to navigate which features they will utilize or not. John replied that fortunately, that the radio screen looks very similar to what they have today. The centers are working together to come up with a training program.

Ron said they have "trained the trainers" about a year ago. The training staff at each dispatch center have been tasked with providing a unique training program for each center. They are working collaboratively to share training materials. The pandemic has caused delays in this process. He assured them that they have been working on an action plan. The dispatch centers are a critical area to focus on. They will be putting out training videos to the field personnel shortly. Once the testing is done, they can start physically cutting over and testing out encrypted and unencrypted channels.

Captain Wurpes asked about the features that they'll need to decide on? He wants to make sure the dispatchers are familiar with them. Ron replied that there are a number of features that could be implemented between the radio system and CAD. Many of the interfaces are in the developmental or implementation phase. They will outline what is available at cut-over and what the capabilities are. Future capabilities are more of a future decision they will discuss at as a group. He gave some examples.

Captain Wurpes asked about what Ron reported on earlier about how the system is currently not redundant. Are they one storm away from an outage? Ron said a severe weather cell could cause a temporary outage at some locations. They are not on thin ice, but they aren't far from it. John clarified that it wouldn't be a total system failure. There are many safeguards still in place.

John said that the current plan with encryption is that all the law enforcement groups are encrypted and fire isn't encrypted at the moment. This can be adjusted. The fire radios are all capable of encryption.

Chief Schmerber brought up the cut-over systems and that they would need to choose what to activate. Is there a difference between what fire and law would need? Should groups be formed to make those decisions? Ron replied that they will need to be clear what will be available at cut over—what interfaces and what capabilities. Fire and law will have things that each will want a little differently. They are working to get an implementation schedule from Central Square. Once this is received, they can share the timing with the group. It will be important to work with the CAD management and technical team, as well as the dispatch centers, to voice their needs and expectations so they can create a deployment schedule.

Sue felt that with the current situation with the pandemic, it's incredibly important to get the system up. She would rather bring a system up and then later review the "bells and whistles". She doesn't think they should focus on the features first and delay this any longer.

Cheryl said from a 9-1-1 perspective, some features should be decided now so that dispatchers can be trained. There are operational decisions that can't be made at the 9-1-1 level. They need to craft their training based on decisions that are made at the user level. John said by the end of this week, they hope to have a schedule and will sit down with the dispatch centers.

Ron agreed and said there are a lot of new people that need to be brought up to speed and receive the proper training. This has been in the works since 2016.

Discussion followed.

John said they will discuss today and put a plan together. They will get it turned on as early as they can.

Chief Davis voiced his concerns over outages or possible outages during a high fire season. When they had a fire off of 99E, they had the same critical issues this year as they did last year. They already have communication problems on 27-28. John said they will do the best they can and do it as quickly as they can.

Cheryl said there needs to be a timeline that includes operational decisions, a training plan, a go-live plan and a public information plan.

9. New Business (*Action Item)

No New Business.

Next Board Meeting

Next meeting will be September 22, 2021 at 9:00AM Location: Zoom

10. Open Agenda

Chief Davis asked where they were at with the pay back of the funds with the forest service? John said for the damage to the buildings at Memaloose and Whalehead, they applied for FEMA funds and the insurance carrier. Insurance is going to reimburse them. They have been tracking the costs to clear roads to get to those sites. The Forest Service felt these costs were their responsibility and will reimburse for those. They need to get PGE on those sites so they can get paid back from PGE. They hope to get paid back in September.

11. Adjournment - Meeting adjourned at 9:44 AM

9:42 AM

08/12/21

Accrual Basis

Clackamas 800 Radio Group

Profit & Loss Budget vs. Actual

July 2021

	Jul 21	Budget	\$ Over Budget	% of Budget
Ordinary Income/Expense				
Income				
401-00 · Beginning Fund Balance	0.00	7,367,420.00	-7,367,420.00	0.0%
405-00 · Members Contracts	76,320.00	76,320.00	0.00	100.0%
410-00 · Partners Fees	1,201,920.00	1,201,920.00	0.00	100.0%
420-00 · Partners Debt Service Zone Cont	0.00	0.00	0.00	0.0%
421-00 · Partner Debt Service Microwave	0.00	0.00	0.00	0.0%
430-00 · Subscriber Radio Payments	0.00	750,000.00	-750,000.00	0.0%
431-00 · Interest Income	11.29	500.00	-488.71	2.3%
435-00 · Lease Revenue	7,391.05	85,265.00	-77,873.95	8.7%
440-00 · Miscellaneous Income	0.00	500.00	-500.00	0.0%
450-00 · Intergovernmental-Clackamas Co	94,908.76	6,000,000.00	-5,905,091.24	1.6%
455-00 · Bond Interest Income	0.00	0.00	0.00	0.0%
Total Income	1,380,551.10	15,481,925.00	-14,101,373.90	8.9%
Gross Profit	1,380,551.10	15,481,925.00	-14,101,373.90	8.9%
Expense				
605-00 · Site Rental	66,937.59	253,051.00	-186,113.41	26.5%
610-00 · Fuel/Generators	11,938.48	12,500.00	-561.52	95.5%
615-00 · HVAC Maintenance	2,132.51	23,000.00	-20,867.49	9.3%
620-00 · Landscape Maintenance	0.00	19,780.00	-19,780.00	0.0%
621-00 · Office Supplies	0.00	750.00	-750.00	0.0%
622-00 · Bad Debt Expense	0.00	0.00	0.00	0.0%
625-00 · Generator Maintenance	525.00	20,400.00	-19,875.00	2.6%
630-00 · UPS Maintenance	0.00	3,200.00	-3,200.00	0.0%
635-00 · Battery Maintenance	0.00	12,000.00	-12,000.00	0.0%
640-00 · Building Maintenance	646.63	5,000.00	-4,353.37	12.9%
645-00 · Insurance	0.00	62,700.00	-62,700.00	0.0%
650-00 · Utilities	7,095.65	95,000.00	-87,904.35	7.5%
655-00 · Consultant Services	0.00	64,000.00	-64,000.00	0.0%
657-00 · Regional Radio Expense	0.00	1,500.00	-1,500.00	0.0%
660-00 · WCCCA System Fees	222,162.75	888,651.00	-666,488.25	25.0%
665-00 · Radio Maintenance Fees	0.00	60,000.00	-60,000.00	0.0%
667-00 · Radio Replacement Project	0.00	0.00	0.00	0.0%
668-00 · Fire Sta Alerting Oper. Expense	0.00	75,370.00	-75,370.00	0.0%
670-00 · Legal Services	100.00	2,500.00	-2,400.00	4.0%
675-00 · Financial Services	20.00	7,800.00	-7,780.00	0.3%
680-00 · Audit Fees	0.00	8,500.00	-8,500.00	0.0%
683-00 · Capital Reserve	0.00	150,000.00	-150,000.00	0.0%
685-00 · Miscellaneous Expenses	4,243.93	6,500.00	-2,256.07	65.3%
686-00 · Meeting Expenses	0.00	2,500.00	-2,500.00	0.0%
703-00 · Capital Outlay				
703-01 · Buildings & Land Improvement				
703-011 · Land Improvement	1,626,694.15			
703-012 · Building	626.08			
Total 703-01 · Buildings & Land Improvement	1,627,320.23			
703-02 · Radio Backbone				
703-021 · Simulcast / Master Site	22,489.80			
703-024 · Paging	5,593.15			
Total 703-02 · Radio Backbone	28,082.95			
703-03 · Equipment				
703-031 · Security System	278,324.60			
703-032 · DC Power	7,142.52			
703-034 · Microwave	21,491.63			
Total 703-03 · Equipment	306,958.75			
703-00 · Capital Outlay - Other	0.00	6,000,000.00	-6,000,000.00	0.0%
Total 703-00 · Capital Outlay	1,962,361.93	6,000,000.00	-4,037,638.07	32.7%
795-00 · Debt Service	0.00	0.00	0.00	0.0%
800-00 · Operating Contingency	0.00	125,000.00	-125,000.00	0.0%
999-00 · Unappropriated End Fund Bal	0.00	7,582,223.00	-7,582,223.00	0.0%
Total Expense	2,278,164.47	15,481,925.00	-13,203,760.53	14.7%
Net Ordinary Income	-897,613.37	0.00	-897,613.37	100.0%
Net Income	-897,613.37	0.00	-897,613.37	100.0%

These financial statements omit all disclosures required by accounting principles generally accepted in the United States of America. Management has not recorded current capital assets, accumulated depreciation, and depreciation expense and certain receivables, which is a known departure from accounting principles generally accepted in the United States of America. In addition, these statements omit the statement of cash flows, which is a known departure from accounting principles generally accepted in the United States of America. These financial statements have not been subjected to an audit, review, or compilation engagement, and therefore no assurance is provided.

9:44 AM

08/12/21

Accrual Basis

Clackamas 800 Radio Group Profit & Loss Detail

July 2021

Type	Date	Num	Name	Memo	Class	Amount	Balance
Ordinary Income/Expense							
Income							
405-00 · Members Contracts							
Invoice	07/01/2021	19-349	Boring Water	Member Voice Radios		960.00	960.00
Invoice	07/01/2021	19-350	Clackamas County Community Colle...	Member Voice Radios		1,920.00	2,880.00
Invoice	07/01/2021	19-351	Clackamas County - Code Enforcem...	Member Voice Radios		2,880.00	5,760.00
Invoice	07/01/2021	19-352	Clackamas County - Community Cor...	Member Voice Radios		24,000.00	29,760.00
Invoice	07/01/2021	19-353	Clackamas County - District Attorney	Member Voice Radios		1,440.00	31,200.00
Invoice	07/01/2021	19-354	Clackamas County Dog Services	Member Voice Radios		2,400.00	33,600.00
Invoice	07/01/2021	19-355	Clackamas County - Juvenile Dept	Member Voice Radios		2,400.00	36,000.00
Invoice	07/01/2021	19-356	Clackamas County - Medical Examiner	Member Voice Radios		2,880.00	38,880.00
Invoice	07/01/2021	19-357	Clackamas County - Transportation ...	Member Voice Radios		14,400.00	53,280.00
Invoice	07/01/2021	19-358	Clackamas River Water District	Member Voice Radios		1,920.00	55,200.00
Invoice	07/01/2021	19-359	Happy Valley	Member Voice Radios		6,720.00	61,920.00
Invoice	07/01/2021	19-360	Lake Oswego Lake Corporation	Member Voice Radios		7,200.00	69,120.00
Invoice	07/01/2021	19-361	Sunrise Water	Member Voice Radios		5,760.00	74,880.00
Invoice	07/01/2021	19-362	Willamette Shore Trolley	Member Voice Radios		1,440.00	76,320.00
Total 405-00 · Members Contracts						76,320.00	76,320.00
410-00 · Partners Fees							
Invoice	07/01/2021	19-324	American Medical Response	Partner Voice Radios		27,840.00	27,840.00
Invoice	07/01/2021	19-325	Aurora Fire District	Partner Voice Radios		28,800.00	56,640.00
Invoice	07/01/2021	19-326	Canby FD	Partner Voice Radios		46,080.00	102,720.00
Invoice	07/01/2021	19-327	Canby Police	Partner Voice Radios		29,280.00	132,000.00
Invoice	07/01/2021	19-328	Clackamas County Sheriff	Partner Voice Radios		359,520.00	491,520.00
Invoice	07/01/2021	19-329	Clackamas County FD #1	Partner Voice Radios		168,000.00	659,520.00
Invoice	07/01/2021	19-330	Colton Fire	Partner Voice Radios		18,720.00	678,240.00
Invoice	07/01/2021	19-331	Estacada RFD	Partner Voice Radios		27,360.00	705,600.00
Invoice	07/01/2021	19-332	City of Gladstone - Fire	Partner Voice Radios		19,680.00	725,280.00
Invoice	07/01/2021	19-333	City of Gladstone - Police	Partner Voice Radios		19,200.00	744,480.00
Invoice	07/01/2021	19-334	Hoodland Fire District	Partner Voice Radios		39,840.00	784,320.00
Invoice	07/01/2021	19-335	Lake Oswego	Partner Voice Radios - Fire		44,160.00	828,480.00
Invoice	07/01/2021	19-336	Lake Oswego	Partner Voice Radios - Police		56,160.00	884,640.00
Invoice	07/01/2021	19-337	Lake Oswego	Partner Voice Radios - Public...		25,920.00	910,560.00
Invoice	07/01/2021	19-338	City of Milwaukie Police	Partner Voice Radios		37,920.00	948,480.00
Invoice	07/01/2021	19-339	City of Milwaukie Public Works	Partner Voice Radios		23,040.00	971,520.00
Invoice	07/01/2021	19-340	Molalla RFPD	Partner Voice Radios		27,360.00	998,880.00
Invoice	07/01/2021	19-341	Molalla Police	Partner Voice Radios		19,200.00	1,018,080.00
Invoice	07/01/2021	19-342	Oregon City Police	Partner Voice Radios		48,480.00	1,066,560.00
Invoice	07/01/2021	19-343	Sandy Fire	Partner Voice Radios		31,680.00	1,098,240.00
Invoice	07/01/2021	19-344	Sandy Police	Partner Voice Radios		22,080.00	1,120,320.00
Invoice	07/01/2021	19-345	Tualatin Valley Fire & Rescue	Partner Voice Radios - West ...		14,400.00	1,134,720.00
Invoice	07/01/2021	19-346	West Linn - Police	Partner Voice Radios		24,480.00	1,159,200.00
Invoice	07/01/2021	19-347	West Linn - Public Works	Partner Voice Radios		12,480.00	1,171,680.00
Invoice	07/01/2021	19-348	Wilsonville - PW / Transit	Partner Voice Radios - PW		5,760.00	1,177,440.00
Invoice	07/01/2021	19-348	Wilsonville - PW / Transit	Partner Voice Radios - Transit		24,480.00	1,201,920.00
Total 410-00 · Partners Fees						1,201,920.00	1,201,920.00
431-00 · Interest Income							
Deposit	07/31/2021			Interest		11.29	11.29
Total 431-00 · Interest Income						11.29	11.29
435-00 · Lease Revenue							
Invoice	07/01/2021	19-317	ODOT	Pete's Mountain Lease - Due ...		2,817.05	2,817.05
Invoice	07/01/2021	19-363	KATU	Site Use Rental Goat Mtn. Jul...		1,856.00	4,673.05
Deposit	07/07/2021		FBI	Past due make up rent for Pet...		2,328.00	7,001.05
Deposit	07/26/2021		FBI	Deposit		130.00	7,131.05
Deposit	07/26/2021		FBI	Deposit		130.00	7,261.05
Deposit	07/26/2021		FBI	Deposit		130.00	7,391.05
Total 435-00 · Lease Revenue						7,391.05	7,391.05
450-00 · Intergovernmental-Clackamas Co							
Deposit	07/28/2021		Clackamas County - Bond Related	June 2021 expenditures reim...		94,908.76	94,908.76
Total 450-00 · Intergovernmental-Clackamas Co						94,908.76	94,908.76
Total Income						1,380,551.10	1,380,551.10
Gross Profit						1,380,551.10	1,380,551.10
Expense							
605-00 · Site Rental							
General Journal	07/01/2021	AJE 16R	Oak Lodge Water District	Reverse of GJE AJE 16 -- To ...	10 View Acres	25,757.53	25,757.53
General Journal	07/01/2021	AJE 17R	Weyerhaeuser Company	Reverse of GJE AJE 17 -- To ...	23 Goat Mountain	30,323.40	56,080.93
Bill	07/15/2021		Boring Water District	Make up for past due rental		9,661.66	65,742.59
Bill	07/30/2021		Focus Commercial, Inc.			1,195.00	66,937.59
Total 605-00 · Site Rental						66,937.59	66,937.59
610-00 · Fuel/Generators							
Bill	07/01/2021	INV02...	WCCCA			9,596.79	9,596.79
Bill	07/30/2021	INV02...	WCCCA			2,341.69	11,938.48
Total 610-00 · Fuel/Generators						11,938.48	11,938.48
615-00 · HVAC Maintenance							
Bill	07/26/2021	31271...	Proctor Sales Inc.			765.42	765.42
Bill	07/28/2021	P2107...	Thermo Bond Buildings LLC			1,150.00	1,915.42
Bill	07/28/2021	166395	Hunter-Davison, Inc.			217.09	2,132.51
Total 615-00 · HVAC Maintenance						2,132.51	2,132.51

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Accrual Basis

Clackamas 800 Radio Group Profit & Loss Detail

July 2021

Type	Date	Num	Name	Memo	Class	Amount	Balance
625-00 · Generator Maintenance							
Bill	07/08/2021	3091A	Power Systems Plus			525.00	525.00
Total 625-00 · Generator Maintenance						525.00	525.00
640-00 · Building Maintenance							
Bill	07/01/2021	INV02...	WCCCA			646.63	646.63
Total 640-00 · Building Maintenance						646.63	646.63
650-00 · Utilities							
Check	07/02/2021	EFT	PGE			387.79	387.79
Check	07/02/2021	EFT	PGE			481.14	868.93
Check	07/06/2021	EFT	PGE			32.67	901.60
Check	07/07/2021	EFT	PGE			186.74	1,088.34
Check	07/08/2021	EFT	PGE			211.78	1,300.12
Check	07/08/2021	EFT	PGE			538.09	1,838.21
Check	07/09/2021	EFT	PGE			276.21	2,114.42
Check	07/12/2021	EFT	PGE			472.93	2,587.35
Check	07/13/2021	EFT	NW Natural			15.99	2,603.34
Check	07/14/2021	EFT	Comcast			168.25	2,771.59
Check	07/14/2021	EFT	PGE			333.65	3,105.24
Check	07/19/2021	EFT	PGE			569.82	3,675.06
Check	07/20/2021	EFT	PGE			128.59	3,803.65
Check	07/20/2021	EFT	PGE			395.54	4,199.19
Check	07/20/2021	EFT	PGE			437.33	4,636.52
Check	07/20/2021	EFT	PGE			552.65	5,189.17
Check	07/20/2021	EFT	PGE			645.89	5,835.06
Check	07/21/2021	EFT	PGE			212.37	6,047.43
Check	07/26/2021	EFT	PGE			245.40	6,292.83
Check	07/26/2021	EFT	PGE			655.22	6,948.05
Check	07/30/2021	EFT	Canby Utility	190236		147.60	7,095.65
Total 650-00 · Utilities						7,095.65	7,095.65
660-00 · WCCCA System Fees							
General Journal	07/01/2021	AJE 18R	WCCCA	Reverse of GJE AJE 18 -- To ...		222,162.75	222,162.75
Total 660-00 · WCCCA System Fees						222,162.75	222,162.75
670-00 · Legal Services							
Bill	07/30/2021	12948	Northwest Local Government Legal ...			100.00	100.00
Total 670-00 · Legal Services						100.00	100.00
675-00 · Financial Services							
Check	07/31/2021			Service Charge		20.00	20.00
Total 675-00 · Financial Services						20.00	20.00
685-00 · Miscellaneous Expenses							
Bill	07/31/2021	21-7-31	Hartsock Project Mgmt.			4,243.93	4,243.93
Total 685-00 · Miscellaneous Expenses						4,243.93	4,243.93
703-00 · Capital Outlay							
703-01 · Buildings & Land Improvement							
703-011 · Land Improvement							
Bill	07/05/2021	9673	Securasite LLC		16 Canby	37.50	37.50
Bill	07/05/2021	9676	Securasite LLC		40 All	2,421.02	2,458.52
Bill	07/05/2021	9677	Securasite LLC		40 All	11,425.00	13,883.52
Bill	07/06/2021	5519	T3 Construction LLC		21 Oak Grove B...	181,250.00	195,133.52
Bill	07/06/2021	5521	T3 Construction LLC		21 Oak Grove B...	65,000.00	260,133.52
Bill	07/06/2021	5520	T3 Construction LLC		22 Whale Head	173,989.21	434,122.73
Bill	07/23/2021	5526	T3 Construction LLC		22 Whale Head	675,000.00	1,109,122.73
Bill	07/24/2021	9705	Securasite LLC		12 Crutcher Ben...	53.94	1,109,176.67
Bill	07/24/2021	9704	Securasite LLC		12 Crutcher Ben...	606.25	1,109,782.92
Bill	07/24/2021	9707	Securasite LLC		40 All	54.52	1,109,837.44
Bill	07/24/2021	9706	Securasite LLC		40 All	3,131.25	1,112,968.69
Bill	07/24/2021	9703	Securasite LLC		13 Tom Dick an...	74.82	1,113,043.51
Bill	07/24/2021	9702	Securasite LLC		13 Tom Dick an...	675.00	1,113,718.51
Bill	07/27/2021	31MH-...	Heli-Dunn		12 Crutcher Ben...	30,000.00	1,143,718.51
Bill	07/29/2021	5534	T3 Construction LLC		20 Angel Falls/...	12,000.00	1,155,718.51
Bill	07/29/2021	5529	T3 Construction LLC		21 Oak Grove B...	112,500.00	1,268,218.51
Bill	07/29/2021	5530	T3 Construction LLC		21 Oak Grove B...	12,512.50	1,280,731.01
Bill	07/29/2021	5533	T3 Construction LLC		21 Oak Grove B...	85,000.00	1,365,731.01
Bill	07/29/2021	5532	T3 Construction LLC		13 Tom Dick an...	63,138.00	1,428,869.01
Bill	07/29/2021	5528	T3 Construction LLC		22 Whale Head	197,491.03	1,626,360.04
Bill	07/31/2021	40329	ACS Testing, Inc.		20 Angel Falls/...	334.11	1,626,694.15
Total 703-011 · Land Improvement						1,626,694.15	1,626,694.15
703-012 · Building							
Bill	07/21/2021	16235...	State of Oregon - BCD	Permit TDH	13 Tom Dick an...	626.08	626.08
Total 703-012 · Building						626.08	626.08
Total 703-01 · Buildings & Land Improvement						1,627,320.23	1,627,320.23
703-02 · Radio Backbone							
703-021 · Simulcast / Master Site							
Bill	07/16/2021	1924	Lexicom Wireless		04 Wilsonville T...	4,850.00	4,850.00
Bill	07/26/2021	1944	Lexicom Wireless		05 Mount Scott	15,139.80	19,989.80
Bill	07/30/2021		Redefyne Moving		40 All	2,500.00	22,489.80
Total 703-021 · Simulcast / Master Site						22,489.80	22,489.80

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Accrual Basis

Clackamas 800 Radio Group Profit & Loss Detail

July 2021

Type	Date	Num	Name	Memo	Class	Amount	Balance
703-024 · Paging							
Bill	07/26/2021	TSI 21...	Lile International Companies		23 Goat Mountain	1,226.95	1,226.95
Bill	07/29/2021	INV02...	WCCCA		40 All	4,366.20	5,593.15
Total 703-024 · Paging						5,593.15	5,593.15
Total 703-02 · Radio Backbone						28,082.95	28,082.95
703-03 · Equipment							
703-031 · Security System							
Bill	07/28/2021	18011...	IES Commercial Inc.		40 All	278,324.60	278,324.60
Total 703-031 · Security System						278,324.60	278,324.60
703-032 · DC Power							
Bill	07/01/2021	INV67...	Day Wireless Systems Inc.		40 All	475.00	475.00
Bill	07/30/2021	INV68...	Day Wireless Systems Inc.		12 Crutcher Ben...	6,667.52	7,142.52
Total 703-032 · DC Power						7,142.52	7,142.52
703-034 · Microwave							
Bill	07/30/2021	1892929	Microwave Networks Inc.		05 Mount Scott	21,491.63	21,491.63
Total 703-034 · Microwave						21,491.63	21,491.63
Total 703-03 · Equipment						306,958.75	306,958.75
Total 703-00 · Capital Outlay						1,962,361.93	1,962,361.93
Total Expense						2,278,164.47	2,278,164.47
Net Ordinary Income						-897,613.37	-897,613.37
Net Income						-897,613.37	-897,613.37

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Clackamas 800 Radio Group

Trial Balance

As of July 31, 2021

	Jul 31, 21	
	Debit	Credit
115-00 · Cash/Checking Account	1,305,458.51	
11000 · Accounts Receivable	1,289,710.39	
120-00 · Member Fees Receivable	0.00	
12000 · Undeposited Funds	0.00	
150-00 · Prepaid Expenses	0.00	
160-00 · Buildings and Towers	10,956,645.15	
165-00 · Radio Backbone	2,520,898.80	
166-00 · Equipment	1,052,983.00	
167-00 · Work In Progress	0.00	
169-00 · CIP	44,120,952.67	
175-00 · Accumulated Depreciation		11,582,838.71
180-00 · Deferred O/F-P25 Maintenance	5,812,058.44	
201-00 · Accounts Payable		2,004,869.78
201-02 · Other Accounts Payable	0.00	
202-00 · Partner Prepayment	0.00	
210-00 · Reimb due Clackamas County	0.00	
250-00 · N/P - CCB (Microwave)	0.00	
300-00 · Fund Balance	0.00	
300-01 · GLTDAG	0.00	
310-00 · Investment in Fixed Assets		47,068,640.91
320-00 · Retained Earnings, Prior		7,299,970.93
405-00 · Members Contracts		76,320.00
410-00 · Partners Fees		1,201,920.00
431-00 · Interest Income		11.29
435-00 · Lease Revenue		7,391.05
450-00 · Intergovernmental-Clackamas Co		94,908.76
605-00 · Site Rental	66,937.59	
610-00 · Fuel/Generators	11,938.48	
615-00 · HVAC Maintenance	2,132.51	
625-00 · Generator Maintenance	525.00	
640-00 · Building Maintenance	646.63	
650-00 · Utilities	7,095.65	
660-00 · WCCCA System Fees	222,162.75	
670-00 · Legal Services	100.00	
675-00 · Financial Services	20.00	
685-00 · Miscellaneous Expenses	4,243.93	
703-011 · Land Improvement	1,626,694.15	
703-012 · Building	626.08	
703-021 · Simulcast / Master Site	22,489.80	
703-024 · Paging	5,593.15	
703-031 · Security System	278,324.60	
703-032 · DC Power	7,142.52	
703-034 · Microwave	21,491.63	
TOTAL	69,336,871.43	69,336,871.43

Clackamas 800 Radio Group

Balance Sheet

As of July 31, 2021

	Jul 31, 21
ASSETS	
Current Assets	
Checking/Savings	
115-00 · Cash/Checking Account	1,305,458.51
Total Checking/Savings	1,305,458.51
Accounts Receivable	
11000 · Accounts Receivable	1,289,710.39
Total Accounts Receivable	1,289,710.39
Total Current Assets	2,595,168.90
Fixed Assets	
160-00 · Buildings and Towers	10,956,645.15
165-00 · Radio Backbone	2,520,898.80
166-00 · Equipment	1,052,983.00
169-00 · CIP	44,120,952.67
175-00 · Accumulated Depreciation	-11,582,838.71
Total Fixed Assets	47,068,640.91
Other Assets	
180-00 · Deferred O/F-P25 Maintenance	5,812,058.44
Total Other Assets	5,812,058.44
TOTAL ASSETS	55,475,868.25
LIABILITIES & EQUITY	
Liabilities	
Current Liabilities	
Accounts Payable	
201-00 · Accounts Payable	2,004,869.78
Total Accounts Payable	2,004,869.78
Total Current Liabilities	2,004,869.78
Total Liabilities	2,004,869.78
Equity	
310-00 · Investment in Fixed Assets	47,068,640.91
320-00 · Retained Earnings, Prior	7,299,970.93
Net Income	-897,613.37
Total Equity	53,470,998.47
TOTAL LIABILITIES & EQUITY	55,475,868.25

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Clackamas 800 Radio Group
A/R Aging Detail
As of July 31, 2021

Type	Date	Num	Name	Due Date	Aging	Open Balance
Current						
Total Current						
1 - 30						
Invoice	07/01/2021	19-326	Canby FD	07/01/2021	30	46,080.00
Invoice	07/01/2021	19-327	Canby Police	07/01/2021	30	29,280.00
Invoice	07/01/2021	19-328	Clackamas County Sheriff	07/01/2021	30	359,520.00
Invoice	07/01/2021	19-329	Clackamas County FD #1	07/01/2021	30	168,000.00
Invoice	07/01/2021	19-330	Colton Fire	07/01/2021	30	18,720.00
Invoice	07/01/2021	19-331	Estacada RFD	07/01/2021	30	27,360.00
Invoice	07/01/2021	19-332	City of Gladstone - Fire	07/01/2021	30	19,680.00
Invoice	07/01/2021	19-333	City of Gladstone - Police	07/01/2021	30	19,200.00
Invoice	07/01/2021	19-335	Lake Oswego	07/01/2021	30	44,160.00
Invoice	07/01/2021	19-336	Lake Oswego	07/01/2021	30	56,160.00
Invoice	07/01/2021	19-337	Lake Oswego	07/01/2021	30	25,920.00
Invoice	07/01/2021	19-338	City of Milwaukie Police	07/01/2021	30	37,920.00
Invoice	07/01/2021	19-339	City of Milwaukie Public Works	07/01/2021	30	23,040.00
Invoice	07/01/2021	19-340	Molalla RFPD	07/01/2021	30	27,360.00
Invoice	07/01/2021	19-341	Molalla Police	07/01/2021	30	19,200.00
Invoice	07/01/2021	19-342	Oregon City Police	07/01/2021	30	48,480.00
Invoice	07/01/2021	19-343	Sandy Fire	07/01/2021	30	31,680.00
Invoice	07/01/2021	19-344	Sandy Police	07/01/2021	30	22,080.00
Invoice	07/01/2021	19-345	Tualatin Valley Fire & Rescue	07/01/2021	30	14,400.00
Invoice	07/01/2021	19-346	West Linn - Police	07/01/2021	30	24,480.00
Invoice	07/01/2021	19-347	West Linn - Public Works	07/01/2021	30	12,480.00
Invoice	07/01/2021	19-348	Wilsonville - PW / Transit	07/01/2021	30	30,240.00
Invoice	07/01/2021	19-350	Clackamas County Community College	07/01/2021	30	1,920.00
Invoice	07/01/2021	19-351	Clackamas County - Code Enforcement	07/01/2021	30	2,880.00
Invoice	07/01/2021	19-352	Clackamas County - Community Corrections	07/01/2021	30	24,000.00
Invoice	07/01/2021	19-356	Clackamas County - Medical Examiner	07/01/2021	30	2,880.00
Invoice	07/01/2021	19-357	Clackamas County - Transportation Eng	07/01/2021	30	14,400.00
Invoice	07/01/2021	19-358	Clackamas River Water District	07/01/2021	30	1,920.00
Invoice	07/01/2021	19-359	Happy Valley	07/01/2021	30	6,720.00
Invoice	07/01/2021	19-360	Lake Oswego Lake Corporation	07/01/2021	30	7,200.00
Invoice	07/01/2021	19-361	Sunrise Water	07/01/2021	30	5,760.00
Invoice	07/01/2021	19-363	KATU	07/01/2021	30	1,856.00
Total 1 - 30						1,174,976.00
31 - 60						
Total 31 - 60						
61 - 90						
Total 61 - 90						
> 90						
Invoice	10/29/2020	19-313	Canby FD	10/29/2020	275	104,409.39
Invoice	01/05/2021	19-319	Colton Fire	01/05/2021	207	6,347.50
Invoice	01/05/2021	19-320	Colton Fire	01/05/2021	207	3,977.50
Total > 90						114,734.39
TOTAL						1,289,710.39

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Clackamas 800 Radio Group

Profit & Loss Budget vs. Actual

July through August 2021

	Jul - Aug 21	Budget	\$ Over Budget	% of Budget
Ordinary Income/Expense				
Income				
401-00 · Beginning Fund Balance	0.00	7,367,420.00	-7,367,420.00	0.0%
405-00 · Members Contracts	76,320.00	76,320.00	0.00	100.0%
410-00 · Partners Fees	1,201,920.00	1,201,920.00	0.00	100.0%
420-00 · Partners Debt Service Zone Cont	0.00	0.00	0.00	0.0%
421-00 · Partner Debt Service Microwave	0.00	0.00	0.00	0.0%
430-00 · Subscriber Radio Payments	0.00	750,000.00	-750,000.00	0.0%
431-00 · Interest Income	23.28	500.00	-476.72	4.7%
435-00 · Lease Revenue	7,764.44	85,265.00	-77,500.56	9.1%
440-00 · Miscellaneous Income	119,054.89	500.00	118,554.89	23,811.0%
450-00 · Intergovernmental-Clackamas Co	2,077,290.70	6,000,000.00	-3,922,709.30	34.6%
455-00 · Bond Interest Income	0.00	0.00	0.00	0.0%
Total Income	3,482,373.31	15,481,925.00	-11,999,551.69	22.5%
Gross Profit	3,482,373.31	15,481,925.00	-11,999,551.69	22.5%
Expense				
605-00 · Site Rental	68,132.59	253,051.00	-184,918.41	26.9%
610-00 · Fuel/Generators	11,938.48	12,500.00	-561.52	95.5%
615-00 · HVAC Maintenance	4,153.53	23,000.00	-18,846.47	18.1%
620-00 · Landscape Maintenance	0.00	19,780.00	-19,780.00	0.0%
621-00 · Office Supplies	0.00	750.00	-750.00	0.0%
622-00 · Bad Debt Expense	0.00	0.00	0.00	0.0%
625-00 · Generator Maintenance	525.00	20,400.00	-19,875.00	2.6%
630-00 · UPS Maintenance	0.00	3,200.00	-3,200.00	0.0%
635-00 · Battery Maintenance	0.00	12,000.00	-12,000.00	0.0%
640-00 · Building Maintenance	646.63	5,000.00	-4,353.37	12.9%
645-00 · Insurance	0.00	62,700.00	-62,700.00	0.0%
650-00 · Utilities	15,831.25	95,000.00	-79,168.75	16.7%
655-00 · Consultant Services	0.00	64,000.00	-64,000.00	0.0%
657-00 · Regional Radio Expense	0.00	1,500.00	-1,500.00	0.0%
660-00 · WCCCA System Fees	222,162.75	888,651.00	-666,488.25	25.0%
665-00 · Radio Maintenance Fees	4,467.18	60,000.00	-55,532.82	7.4%
667-00 · Radio Replacement Project	0.00	0.00	0.00	0.0%
668-00 · Fire Sta Alerting Oper. Expense	0.00	75,370.00	-75,370.00	0.0%
670-00 · Legal Services	300.00	2,500.00	-2,200.00	12.0%
675-00 · Financial Services	1,140.00	7,800.00	-6,660.00	14.6%
680-00 · Audit Fees	0.00	8,500.00	-8,500.00	0.0%
683-00 · Capital Reserve	0.00	150,000.00	-150,000.00	0.0%
685-00 · Miscellaneous Expenses	4,243.93	6,500.00	-2,256.07	65.3%
686-00 · Meeting Expenses	0.00	2,500.00	-2,500.00	0.0%
703-00 · Capital Outlay				
703-01 · Buildings & Land Improvement				
703-011 · Land Improvement	2,040,022.57			
703-012 · Building	626.08			
703-014 · Generator	1,940.00			
Total 703-01 · Buildings & Land Improvement	2,042,588.65			
703-02 · Radio Backbone				
703-021 · Simulcast / Master Site	25,350.04			
703-022 · Subscriber Radios	950.00			
703-024 · Paging	9,472.15			
Total 703-02 · Radio Backbone	35,772.19			
703-03 · Equipment				
703-031 · Security System	350,999.54			
703-032 · DC Power	7,142.52			
703-034 · Microwave	149,103.53			
Total 703-03 · Equipment	507,245.59			
703-00 · Capital Outlay - Other	0.00	6,000,000.00	-6,000,000.00	0.0%
Total 703-00 · Capital Outlay	2,585,606.43	6,000,000.00	-3,414,393.57	43.1%

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Accrual Basis

Clackamas 800 Radio Group
Profit & Loss Budget vs. Actual
 July through August 2021

	Jul - Aug 21	Budget	\$ Over Budget	% of Budget
795-00 · Debt Service	0.00	0.00	0.00	0.0%
800-00 · Operating Contingency	0.00	125,000.00	-125,000.00	0.0%
999-00 · Unappropriated End Fund Bal	0.00	7,582,223.00	-7,582,223.00	0.0%
Total Expense	2,919,147.77	15,481,925.00	-12,562,777.23	18.9%
Net Ordinary Income	563,225.54	0.00	563,225.54	100.0%
Net Income	563,225.54	0.00	563,225.54	100.0%

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Clackamas 800 Radio Group Profit & Loss Detail

August 2021

Type	Date	Num	Name	Memo	Class	Amount	Balance
Ordinary Income/Expense							
Income							
431-00 · Interest Income							
Deposit	08/31/2021			Interest		11.99	11.99
Total 431-00 · Interest Income						11.99	11.99
435-00 · Lease Revenue							
Payment	08/03/2021		KATU			-16.61	-16.61
Deposit	08/24/2021		FBI	Deposit		130.00	113.39
Deposit	08/24/2021		FBI	Deposit		130.00	243.39
Deposit	08/24/2021		FBI	Deposit		130.00	373.39
Total 435-00 · Lease Revenue						373.39	373.39
440-00 · Miscellaneous Income							
Deposit	08/20/2021	302211	Special Districts Insurance Services	Insurance Settlement for loss...		119,054.89	119,054.89
Total 440-00 · Miscellaneous Income						119,054.89	119,054.89
450-00 · Intergovernmental-Clackamas Co							
Deposit	08/27/2021		Clackamas County - Bond Related	Deposit		1,982,381.94	1,982,381.94
Total 450-00 · Intergovernmental-Clackamas Co						1,982,381.94	1,982,381.94
Total Income						2,101,822.21	2,101,822.21
Gross Profit						2,101,822.21	2,101,822.21
Expense							
605-00 · Site Rental							
Bill	08/31/2021		Focus Commercial, Inc.			1,195.00	1,195.00
Total 605-00 · Site Rental						1,195.00	1,195.00
615-00 · HVAC Maintenance							
Bill	08/01/2021	166820	Hunter-Davisson, Inc.			1,001.02	1,001.02
Bill	08/01/2021	167053	Hunter-Davisson, Inc.			340.00	1,341.02
Bill	08/23/2021	167222	Hunter-Davisson, Inc.			340.00	1,681.02
Bill	08/24/2021	167273	Hunter-Davisson, Inc.			340.00	2,021.02
Total 615-00 · HVAC Maintenance						2,021.02	2,021.02
650-00 · Utilities							
Check	08/03/2021	EFT	PGE			414.10	414.10
Check	08/03/2021	EFT	PGE			473.98	888.08
Check	08/04/2021	EFT	PGE			32.30	920.38
Check	08/05/2021	EFT	PGE			236.42	1,156.80
Check	08/06/2021	EFT	PGE			243.01	1,399.81
Check	08/06/2021	EFT	PGE			598.13	1,997.94
Check	08/09/2021	EFT	PGE			280.65	2,278.59
Check	08/11/2021	EFT	PGE			533.58	2,812.17
Check	08/11/2021	EFT	PGE			15.99	2,828.16
Check	08/12/2021	EFT	PGE			392.10	3,220.26
Check	08/16/2021	EFT	Comcast			148.30	3,368.56
Check	08/17/2021	EFT	PGE			538.23	3,906.79
Check	08/18/2021	EFT	PGE			130.33	4,037.12
Check	08/18/2021	EFT	PGE			379.87	4,416.99
Check	08/18/2021	EFT	PGE			409.91	4,826.90
Check	08/18/2021	EFT	PGE			570.13	5,397.03
Check	08/18/2021	EFT	PGE			655.29	6,052.32
Check	08/19/2021	EFT	PGE			234.15	6,286.47
Check	08/20/2021	EFT	PGE			1,323.04	7,609.51
Check	08/24/2021	EFT	PGE			250.79	7,860.30
Check	08/24/2021	EFT	PGE			725.02	8,585.32
Check	08/27/2021	EFT	Canby Utility	190236		150.28	8,735.60
Total 650-00 · Utilities						8,735.60	8,735.60
665-00 · Radio Maintenance Fees							
Bill	08/09/2021	CIWD-...	Consistent Image Web Design			100.00	100.00
Bill	08/31/2021	21-8-31	Hartssock Project Mgmt.			4,367.18	4,467.18
Total 665-00 · Radio Maintenance Fees						4,467.18	4,467.18
670-00 · Legal Services							
Bill	08/30/2021	12975	Northwest Local Government Legal ...			200.00	200.00
Total 670-00 · Legal Services						200.00	200.00
675-00 · Financial Services							
Bill	08/05/2021	161734	Talbot, Korvola & Warwick, LLP			550.00	550.00
Check	08/31/2021			Service Charge		20.00	570.00
Bill	08/31/2021	161810	Talbot, Korvola & Warwick, LLP			550.00	1,120.00
Total 675-00 · Financial Services						1,120.00	1,120.00

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Accrual Basis

Clackamas 800 Radio Group Profit & Loss Detail

August 2021

Type	Date	Num	Name	Memo	Class	Amount	Balance
703-00 · Capital Outlay							
703-01 · Buildings & Land Improvement							
703-011 · Land Improvement							
Bill	08/01/2021	58777	MCM Technology, LLC		40 All	19,231.25	19,231.25
Bill	08/06/2021	8.6.21	T3 Construction LLC		20 Angel Falls/...	18,034.98	37,266.23
Bill	08/06/2021	8.5.21	T3 Construction LLC		22 Whale Head	23,594.98	60,861.21
Bill	08/07/2021	9735	Securasite LLC		40 All	1,668.15	62,529.36
Bill	08/07/2021	9736	Securasite LLC		40 All	9,925.00	72,454.36
Bill	08/17/2021	18034-7	McKay Consulting		13 Tom Dick an...	1,340.00	73,794.36
Bill	08/17/2021	9755	Securasite LLC		16 Canby	31.90	73,826.26
Bill	08/17/2021	9754	Securasite LLC		16 Canby	331.25	74,157.51
Bill	08/18/2021	9728	Securasite LLC		40 All	255.78	74,413.29
Bill	08/21/2021	9763	Securasite LLC		12 Crutcher Ben...	306.25	74,719.54
Bill	08/21/2021	9762	Securasite LLC		13 Tom Dick an...	50.00	74,769.54
Bill	08/25/2021	40558	ACS Testing, Inc.		21 Oak Grove B...	513.66	75,283.20
Bill	08/25/2021	9765	Securasite LLC		40 All	4,406.25	79,689.45
Bill	08/31/2021	5538	T3 Construction LLC		21 Oak Grove B...	60,000.00	139,689.45
Bill	08/31/2021	5539	T3 Construction LLC		13 Tom Dick an...	92,972.00	232,661.45
Bill	08/31/2021	5537	T3 Construction LLC		22 Whale Head	180,666.97	413,328.42
Total 703-011 · Land Improvement						413,328.42	413,328.42
703-014 · Generator							
Bill	08/18/2021	3064A	Power Systems Plus		20 Angel Falls/...	1,940.00	1,940.00
Total 703-014 · Generator						1,940.00	1,940.00
Total 703-01 · Buildings & Land Improvement						415,268.42	415,268.42
703-02 · Radio Backbone							
703-021 · Simulcast / Master Site							
Deposit	08/05/2021	36288	Central Square Technologies	Refund	40 All	-4,320.16	-4,320.16
Bill	08/18/2021	109571	IES Commercial Inc.		28 LOCOM	2,451.50	-1,868.66
Bill	08/18/2021	109572	IES Commercial Inc.		28 LOCOM	2,228.90	360.24
Bill	08/30/2021		Redeflyne Moving		40 All	2,500.00	2,860.24
Total 703-021 · Simulcast / Master Site						2,860.24	2,860.24
703-022 · Subscriber Radios							
Bill	08/31/2021	INV69...	Day Wireless Systems Inc.		40 All	475.00	475.00
Bill	08/31/2021	INV69...	Day Wireless Systems Inc.		40 All	475.00	950.00
Total 703-022 · Subscriber Radios						950.00	950.00
703-024 · Paging							
Bill	08/01/2021	TSI 26...	Lile International Companies		40 All	1,134.00	1,134.00
Bill	08/31/2021	INV69...	Day Wireless Systems Inc.		20 Angel Falls/...	2,745.00	3,879.00
Total 703-024 · Paging						3,879.00	3,879.00
Total 703-02 · Radio Backbone						7,689.24	7,689.24
703-03 · Equipment							
703-031 · Security System							
Bill	08/30/2021	187206	IES Commercial Inc.		01 Carver/Barton	872.42	872.42
Bill	08/30/2021	187206	IES Commercial Inc.		01 Carver/Barton	532.05	1,404.47
Bill	08/30/2021	187206	IES Commercial Inc.		40 All	532.05	1,936.52
Bill	08/30/2021	187206	IES Commercial Inc.		03 Damascus	872.42	2,808.94
Bill	08/30/2021	187206	IES Commercial Inc.		03 Damascus	532.05	3,340.99
Bill	08/30/2021	187206	IES Commercial Inc.		04 Wilsonville T...	261.72	3,602.71
Bill	08/30/2021	187206	IES Commercial Inc.		04 Wilsonville T...	532.05	4,134.76
Bill	08/30/2021	187206	IES Commercial Inc.		05 Mount Scott	872.42	5,007.18
Bill	08/30/2021	187206	IES Commercial Inc.		05 Mount Scott	532.05	5,539.23
Bill	08/30/2021	187206	IES Commercial Inc.		06 Mtn View	532.05	6,071.28
Bill	08/30/2021	187206	IES Commercial Inc.		07 Pete's	261.72	6,333.00
Bill	08/30/2021	187206	IES Commercial Inc.		07 Pete's	532.05	6,865.05
Bill	08/30/2021	187206	IES Commercial Inc.		08 Polivka	872.42	7,737.47
Bill	08/30/2021	187206	IES Commercial Inc.		08 Polivka	532.05	8,269.52
Bill	08/30/2021	187206	IES Commercial Inc.		09 Sandy	872.42	9,141.94
Bill	08/30/2021	187206	IES Commercial Inc.		09 Sandy	532.05	9,673.99
Bill	08/30/2021	187206	IES Commercial Inc.		10 View Acres	872.42	10,546.41
Bill	08/30/2021	187206	IES Commercial Inc.		10 View Acres	532.05	11,078.46
Bill	08/30/2021	187206	IES Commercial Inc.		11 Brightwood	872.42	11,950.88
Bill	08/30/2021	187206	IES Commercial Inc.		11 Brightwood	532.05	12,482.93
Bill	08/30/2021	187206	IES Commercial Inc.		12 Crutcher Ben...	872.42	13,355.35
Bill	08/30/2021	187206	IES Commercial Inc.		12 Crutcher Ben...	532.05	13,887.40
Bill	08/30/2021	187206	IES Commercial Inc.		13 Tom Dick an...	532.05	14,419.45
Bill	08/30/2021	187206	IES Commercial Inc.		14 Lenhart	872.42	15,291.87
Bill	08/30/2021	187206	IES Commercial Inc.		14 Lenhart	532.05	15,823.92
Bill	08/30/2021	187206	IES Commercial Inc.		15 Timberline	532.05	16,355.97
Bill	08/30/2021	187206	IES Commercial Inc.		16 Canby	872.42	17,228.39
Bill	08/30/2021	187206	IES Commercial Inc.		16 Canby	532.05	17,760.44
Bill	08/30/2021	187206	IES Commercial Inc.		17 Estacada_D...	261.72	18,022.16
Bill	08/30/2021	187206	IES Commercial Inc.		17 Estacada_D...	532.05	18,554.21
Bill	08/30/2021	187206	IES Commercial Inc.		18 Highland Butte	872.42	19,426.63
Bill	08/30/2021	187206	IES Commercial Inc.		18 Highland Butte	532.05	19,958.68
Bill	08/30/2021	187206	IES Commercial Inc.		19 Day Hill	872.42	20,831.10
Bill	08/30/2021	187206	IES Commercial Inc.		19 Day Hill	532.05	21,363.15
Bill	08/30/2021	187206	IES Commercial Inc.		20 Angel Falls/...	532.05	21,895.20
Bill	08/30/2021	187206	IES Commercial Inc.		21 Oak Grove B...	532.05	22,427.25
Bill	08/30/2021	187206	IES Commercial Inc.		22 Whale Head	532.05	22,959.30
Bill	08/30/2021	187206	IES Commercial Inc.		23 Goat Mountain	532.05	23,491.35
Bill	08/30/2021	187206	IES Commercial Inc.		24 Sawtell Fire ...	872.42	24,363.77
Bill	08/30/2021	187206	IES Commercial Inc.		24 Sawtell Fire ...	532.05	24,895.82
Bill	08/30/2021	187206	IES Commercial Inc.		40 All	532.05	25,427.87

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Accrual Basis

Clackamas 800 Radio Group Profit & Loss Detail

August 2021

Type	Date	Num	Name	Memo	Class	Amount	Balance
Bill	08/30/2021	187206	IES Commercial Inc.		40 All	872.42	26,300.29
Bill	08/30/2021	187206	IES Commercial Inc.		40 All	532.05	26,832.34
Bill	08/30/2021	187206	IES Commercial Inc.		26 CCOM	18,253.50	45,085.84
Bill	08/30/2021	187206	IES Commercial Inc.		40 All	3,245.82	48,331.66
Bill	08/30/2021	187206	IES Commercial Inc.		40 All	12,171.64	60,503.30
Bill	08/30/2021	187206	IES Commercial Inc.		40 All	12,171.64	72,674.94
Total 703-031 - Security System						72,674.94	72,674.94
703-034 - Microwave							
Bill	08/13/2021	1892956	Microwave Networks Inc.		23 Goat Mountain	29,441.50	29,441.50
Bill	08/16/2021	1959	Lexicom Wireless		05 Mount Scott	30,281.00	59,722.50
Bill	08/30/2021	INV02...	WCCCA		40 All	16,376.40	76,098.90
Bill	08/31/2021	1893005	Microwave Networks Inc.		15 Timberline	25,756.50	101,855.40
Bill	08/31/2021	1893005	Microwave Networks Inc.		20 Angel Falls/...	25,756.50	127,611.90
Total 703-034 - Microwave						127,611.90	127,611.90
Total 703-03 - Equipment						200,286.84	200,286.84
Total 703-00 - Capital Outlay						623,244.50	623,244.50
Total Expense						640,983.30	640,983.30
Net Ordinary Income						1,460,838.91	1,460,838.91
Net Income						1,460,838.91	1,460,838.91

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Clackamas 800 Radio Group

Trial Balance

As of August 31, 2021

	Aug 31, 21	
	Debit	Credit
115-00 · Cash/Checking Account	2,210,136.14	
11000 · Accounts Receivable	489,614.39	
120-00 · Member Fees Receivable	0.00	
12000 · Undeposited Funds	0.00	
150-00 · Prepaid Expenses	0.00	
160-00 · Buildings and Towers	10,956,645.15	
165-00 · Radio Backbone	2,520,898.80	
166-00 · Equipment	1,052,983.00	
167-00 · Work In Progress	0.00	
169-00 · CIP	44,120,952.67	
175-00 · Accumulated Depreciation		11,582,838.71
180-00 · Deferred O/F-P25 Maintenance	5,812,058.44	
201-00 · Accounts Payable		648,612.50
201-02 · Other Accounts Payable	0.00	
202-00 · Partner Prepayment	0.00	
210-00 · Reimb due Clackamas County	0.00	
250-00 · N/P - CCB (Microwave)	0.00	
300-00 · Fund Balance	0.00	
300-01 · GLTDAG	0.00	
310-00 · Investment in Fixed Assets		47,068,640.91
320-00 · Retained Earnings, Prior		7,299,970.93
405-00 · Members Contracts		76,320.00
410-00 · Partners Fees		1,201,920.00
431-00 · Interest Income		23.28
435-00 · Lease Revenue		7,764.44
440-00 · Miscellaneous Income		119,054.89
450-00 · Intergovernmental-Clackamas Co		2,077,290.70
605-00 · Site Rental	68,132.59	
610-00 · Fuel/Generators	11,938.48	
615-00 · HVAC Maintenance	4,153.53	
625-00 · Generator Maintenance	525.00	
640-00 · Building Maintenance	646.63	
650-00 · Utilities	15,831.25	
660-00 · WCCCA System Fees	222,162.75	
665-00 · Radio Maintenance Fees	4,467.18	
670-00 · Legal Services	300.00	
675-00 · Financial Services	1,140.00	
685-00 · Miscellaneous Expenses	4,243.93	
703-011 · Land Improvement	2,040,022.57	
703-012 · Building	626.08	
703-014 · Generator	1,940.00	
703-021 · Simulcast / Master Site	25,350.04	
703-022 · Subscriber Radios	950.00	
703-024 · Paging	9,472.15	
703-031 · Security System	350,999.54	
703-032 · DC Power	7,142.52	
703-034 · Microwave	149,103.53	
TOTAL	70,082,436.36	70,082,436.36

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Clackamas 800 Radio Group

Balance Sheet

As of August 31, 2021

	Aug 31, 21
ASSETS	
Current Assets	
Checking/Savings	
115-00 · Cash/Checking Account	2,210,136.14
Total Checking/Savings	2,210,136.14
Accounts Receivable	
11000 · Accounts Receivable	489,614.39
Total Accounts Receivable	489,614.39
Total Current Assets	2,699,750.53
Fixed Assets	
160-00 · Buildings and Towers	10,956,645.15
165-00 · Radio Backbone	2,520,898.80
166-00 · Equipment	1,052,983.00
169-00 · CIP	44,120,952.67
175-00 · Accumulated Depreciation	-11,582,838.71
Total Fixed Assets	47,068,640.91
Other Assets	
180-00 · Deferred O/F-P25 Maintenance	5,812,058.44
Total Other Assets	5,812,058.44
TOTAL ASSETS	55,580,449.88
LIABILITIES & EQUITY	
Liabilities	
Current Liabilities	
Accounts Payable	
201-00 · Accounts Payable	648,612.50
Total Accounts Payable	648,612.50
Total Current Liabilities	648,612.50
Total Liabilities	648,612.50
Equity	
310-00 · Investment in Fixed Assets	47,068,640.91
320-00 · Retained Earnings, Prior	7,299,970.93
Net Income	563,225.54
Total Equity	54,931,837.38
TOTAL LIABILITIES & EQUITY	55,580,449.88

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Clackamas 800 Radio Group
A/R Aging Detail
As of August 31, 2021

Type	Date	Num	Name	Due Date	Aging	Open Balance
Current						
Total Current						
1 - 30						
Total 1 - 30						
31 - 60						
Total 31 - 60						
61 - 90						
Invoice	07/01/2021	19-326	Canby FD	07/01/2021	61	46,080.00
Invoice	07/01/2021	19-327	Canby Police	07/01/2021	61	29,280.00
Invoice	07/01/2021	19-329	Clackamas County FD #1	07/01/2021	61	168,000.00
Invoice	07/01/2021	19-330	Colton Fire	07/01/2021	61	18,720.00
Invoice	07/01/2021	19-331	Estacada RFD	07/01/2021	61	27,360.00
Invoice	07/01/2021	19-348	Wilsonville - PW / Transit	07/01/2021	61	30,240.00
Invoice	07/01/2021	19-350	Clackamas County Community College	07/01/2021	61	1,920.00
Invoice	07/01/2021	19-351	Clackamas County - Code Enforcement	07/01/2021	61	2,880.00
Invoice	07/01/2021	19-352	Clackamas County - Community Corrections	07/01/2021	61	24,000.00
Invoice	07/01/2021	19-356	Clackamas County - Medical Examiner	07/01/2021	61	2,880.00
Invoice	07/01/2021	19-357	Clackamas County - Transportation Eng	07/01/2021	61	14,400.00
Invoice	07/01/2021	19-358	Clackamas River Water District	07/01/2021	61	1,920.00
Invoice	07/01/2021	19-360	Lake Oswego Lake Corporation	07/01/2021	61	7,200.00
Total 61 - 90						374,880.00
> 90						
Invoice	10/29/2020	19-313	Canby FD	10/29/2020	306	104,409.39
Invoice	01/05/2021	19-319	Colton Fire	01/05/2021	238	6,347.50
Invoice	01/05/2021	19-320	Colton Fire	01/05/2021	238	3,977.50
Total > 90						114,734.39
TOTAL						489,614.39

These financial statements omit all disclosures required by accounting principles generally accepted in the United States of America. Management has not recorded current capital assets, accumulated depreciation, and depreciation expense and certain receivables, which is a known departure from accounting principles generally accepted in the United States of America. In addition, these statements omit the statement of cash flows, which is a known departure from accounting principles generally accepted in the United States of America. These financial statements have not been subjected to an audit, review, or compilation engagement, and therefore no assurance is provided.

RADIO PROJECT STATUS

Emergency Communication System Upgrade

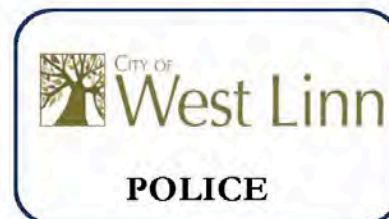
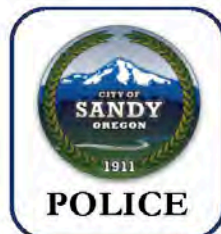
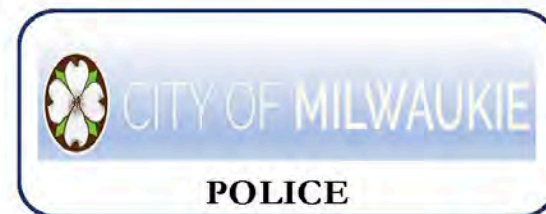
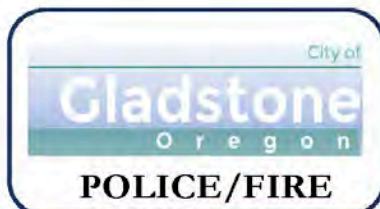
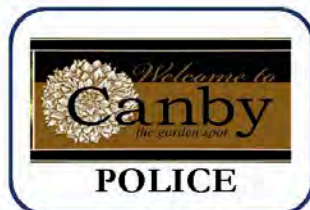
C800 Project Leader: John Hartsock

WCCCA Project Leader: Ron Polluconi

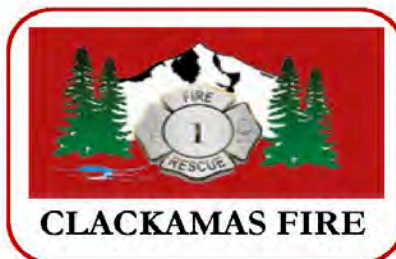
C800 Project Manager: Bjorn Morfin

Date: September 22, 2021

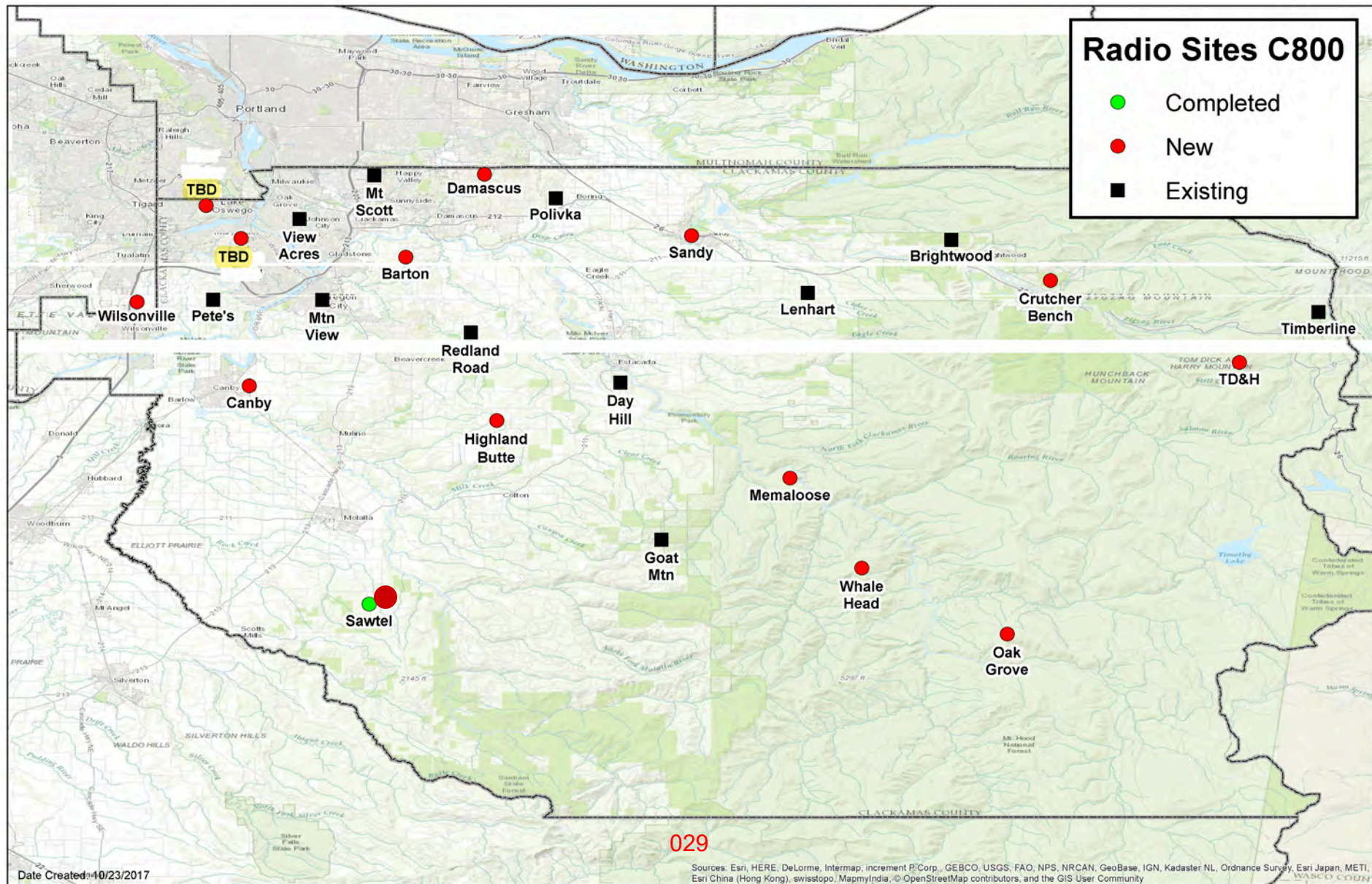




THE EIGHTEEN PUBLIC SAFETY AGENCIES THAT MAKE UP CLACKAMAS 800 RADIO GROUP



C800 Site Locations



Project Status Summary

Microwave backbone, except for the Hwy 224 portion, is 98% complete and will be fully operational by September 30, 2021. The Hwy 224 sites Memaloose / Whalehead / Oak Grove Butte are also complete. The final site, Tom Dick & Harry, is currently scheduled for completion in late October. Upon its completion and tie into the Timberline site will complete the microwave backbone.

Site radio system installation is complete except for the Hwy 224 sites. Drive testing is complete, and the system is delivering anticipated results in line with the design predictions. System acceptance testing is underway. Radio system installation at Whalehead / Memaloose / Oak Grove Butte will be complete by mid – October and will begin at Tom Dick and Harry in late October.

System is targeted for turn on or cut over on December 8, 2021.

We are awaiting information from the USFS on our claim for road clearing from the Riverside fire last year.

We received our USFS construction permit for the Tom Dick & Harry site and construction is underway and anticipating completion in early October⁴

C800 Radio System Upgrade Budget ⁽¹⁾

Project: **C800 Radio System Upgrade**
 Date Original: 10/1/2015 Date Updated: **September 1, 2021**
 Project Manager: Bjorn Morfin

Item	Budget	Original Encumbrance	Additional Encumbrance / Change Order	Estimate to Complete	Percent Complete	Estimated Total	(Over) Under Budget	Expended
Soft Cost								
Site Acquisition Consulting - Quest	60,000	25,000	45,000	(2,930)	100.00%	67,070	(7,070)	67,069.81
Site Acquisition Consulting / Permits - Securasite	320,000	321,250	257,854	0	97.09%	578,904	(258,904)	562,038.61
Site Planning A&E - Cushing/Capital/Cundiff/Forensic/KPFF/SD C/ToddHess	725,000	692,391	468,930	(230,000)	98.46%	931,321	(206,321)	917,006.70
Geotechnical / Environmental Consulting - Black Mtn	250,000	443,670	60,000	0	98.58%	503,670	(253,670)	496,515.22
Survey - McKay	75,000	129,835	0	0	92.02%	129,835	(54,835)	119,475.00
USFS Land Use Fees	15,000	10,000	40,000	5,000	89.94%	55,000	(40,000)	49,465.23
Land Use Fees	25,000	9,400	0	0	99.35%	9,400	15,600	9,339.00
Plan Check / Permit Cost	60,000	10,000	0	0	95.25%	10,000	50,000	9,525.20
Printing	2,500	0	0	500	0.00%	500	2,000	0.00
Bid Advertising	3,500	1,300	0	250	92.22%	1,550	1,950	1,429.43
Testing & Inspection (In Site Const)	40,000	2,700	0	0	97.18%	2,700	37,300	2,623.75
Project Management	300,000	438,000	320,000	0	96.56%	758,000	(458,000)	731,901.94
Legal Fees	30,000	21,000	0	5,000	80.92%	26,000	4,000	21,038.74
Licensing	20,000	69,000	0	5,000	93.10%	74,000	(54,000)	68,890.50
Miscellaneous	30,000	88,000	25,000	2,000	96.93%	115,000	(85,000)	111,465.38
Sub-Total Soft Cost	1,956,000	2,261,546	1,216,584	(215,180)	97.08%	3,262,950	(1,306,950)	3,167,785
Construction Cost								
Site Construction	8,895,000	12,596,753	7,400,000	500,000	96.37%	20,496,753	(11,601,753)	19,753,716.73
Buildings	1,350,000	2,018,663	20,000	0	99.99%	2,038,663	(688,663)	2,038,421.28
Towers	660,000	1,383,357	255,000	0	99.96%	1,638,357	(978,357)	1,637,701.31
Generator	500,000	513,196	150,000	20,000	96.94%	683,196	(183,196)	662,314.31
48VDC	1,065,000	1,443,767	0	0	91.53%	1,443,767	(378,767)	1,321,509.97
Lake Oswego Antenna	18,000	17,500	0	0	100.07%	17,500	500	17,511.75
Sub-Total Construction Cost	12,488,000	17,973,236	7,825,000	520,000	96.63%	26,318,236	(13,830,236)	25,431,175.35

C800 Radio System Upgrade Budget ⁽²⁾

Project:	C800 Radio System Upgrade		
Date Original:	10/1/2015	Date Updated:	September 1, 2021
Project Manager:	Bjorn Morfin		

Item	Budget	Original Encumbrance	Additional Encumbrance / Change Order	Estimate to Complete	Percent Complete	Estimated Total	(Over) Under Budget	Expended
Equipment Costs								
Simulcast Equipment	20,726,000	19,993,440	2,672,000	0	88.84%	22,665,440	(1,939,440)	20,136,368.57
Paging	373,000	269,228	50,000	75,000	97.92%	394,228	(21,228)	386,020.36
Subscriber Radios	5,000,000	9,409,958	295,032	(5,000,000)	79.55%	4,704,990	295,010	3,743,015.56
Asset Management	119,000	203,197		25,000	0.00%	228,197	(109,197)	0.00
Post Warranty / System Refresh	5,800,000	5,812,058		0	100.00%	5,812,058	(12,058)	5,812,058.44
Test Equipment	100,000			100,000	0.00%	100,000	0	0.00
Microwave	3,368,000	2,671,467	875,000		95.23%	3,546,467	(178,467)	3,377,424.94
Security System	1,364,000	440,540		50,000	74.38%	490,540	873,460	364,860.22
Fire Station Alerting	0	1,697,407	43,000	0	99.87%	1,740,407	(1,740,407)	1,738,143.84
Subtotal Equipment Costs	36,850,000	40,497,295	3,935,032	(4,750,000)	89.61%	39,682,327	(2,832,327)	35,557,892
Bond Cost	300,000	290,372	33,200	0	104.08%	323,572	(23,572)	336,781
Subtotal Project Cost	51,594,000	61,022,448	13,009,816	(4,445,180)	92.68%	69,587,084	(17,993,084)	64,493,632
Additional Proceeds	7,528,981						7,528,981	
Adjusted Project Costs	59,122,981	61,022,448	13,009,816	(4,445,180)	92.68%	69,587,084	(10,464,103)	
Contingency	7,406,000						7,406,000	
Total Project Cost	66,528,981	61,022,448	13,009,816	(4,445,180)	92.68%	69,587,084	(3,058,103)	64,493,632.38

Bond Proceeds	5,845,000	Taxable
	53,155,000	Non Taxable
	59,000,000	
Additional Proceeds	4,853,981	Subscriber Radio Payments
	2,675,000	PGE Payment
	423,004	Fire / Ice Storm Recovery
	7,528,981	
Total Proceeds	66,528,981	

032

Premium Bond Proceeds	7,165,794
Interest Income	1,032,112
Additional Funds	8,197,906
County oversight fees	(100,000)
Total Available	8,097,906
Draw Feb 18, 2021	(4,500,000)
Balance	3,597,906

Oak Grove Butte





034





11300 SE Fuller Rd
Milwaukie, Oregon 97222
(503) 780-4806
C800.ORG

Citizen Accountability Committee Information Item

To: C800 Board of Directors
From: John Hartsock, C800 Manager
Date: February 17, 2021/ Updated September 14, 2021
Re: Over Budget Explanations

PROJECT BUDGET: The C800 communications upgrade project budget of \$59,000,000 was developed as a collaborative effort between WCCCA (Washington County Consolidated Communications Agency) our system partner, and C800 staffs.

The conceptual system design came from the work of a regional approach to public safety radio system upgrade and expansion. The following are the key milestones:

- **September 2008** - The City of Portland / CRESA (Clark County, WA) / WCCCA / C800 formed the Regional Radio Partnership as an ORS 190 Organization. The purpose of the partnership was to evaluate system upgrades/replacement/expansion across the region due to the aging infrastructure of the participants. The partnership retained the firm of IXP Corp to conduct the evaluation. IXP was compensated from a \$1M Homeland Security Grant for this purpose.
- **June 2011** – The Regional Radio Partnership provided a recommendation to the agencies to upgrade/replace/ expand the existing systems in a system of systems approach. The City of Portland and CRESA would maintain their independent systems approach. C800 / WCCCA would maintain their partnership system approach. All four systems would be compatible and interoperate with one another to insure open communications between all agencies in the Portland Metropolitan Area.
- **July 2011 – February 2015** – A joint committee of WCCCA and C800 member agencies personnel reviewed and evaluated the recommendations of the IXP report. Conceptual costs as outlined in the IXP report and historical costs of building and expanding the WCCCA / C800 system provided input into the development of the project budgets for WCCCA and C800. There were extensive meetings to review each budget category and determine the desired inclusions and outcome.

There were some differences between WCCCA and C800's approach. As an example, WCCCA determined to include funding in their project for a new dispatch facility and to pay 100% of the cost of subscriber (mobile/portable) radios and the install. C800 determined that the bond would cover 50% of the subscriber radios and the member agencies would pay the balance and pay for installation, and the radio coverage design would include in building coverage within the UGB areas. C800's goal was to not exceed a 10¢ per \$1,000 assessed valuation rate which was accomplished.

- **March 2015** - C800 Board of Directors approved the replacement/upgrade/expansion concept and pursue of a general obligation bond issued by Clackamas County to provide funding.
- **October 2015** – C800 awarded contracts to: SecuraSite for site acquisition / Don Cushing and Assoc for architectural and engineering to develop site plans.
- **January 2016** – Clackamas County Board of Commissioners approved placing a ballot measure on May 2016 election to fund the project.
- **May 2016** – Ballot Measure 3-476 was approved by 71% of the voters.

As with any complex large multi-year project budgets are the best estimate available at the time of constructing them along with a proposed schedule. The team included a 14% contingency to protect against inflation, unforeseen costs, and schedule delays.

The initial schedule was for project completion of June 2019. The current schedule now anticipates system turn on in December 2021 and project completion in June 2022. This 30-month delay is primarily due to site entitlement to allow construction to commence and overall site construction issues. To further complicate the schedule issues surrounding the Covid pandemic, the September 2020 Riverside wildfire, and the 2020 Ice storm also created challenges.

A significant unforeseen issue was that six of the existing towers did not meet the desired seismic resilient standard set for the project. Five of these towers had to be replaced and one required substantial upgrading.

Following is a budget line-item outline of the budget issues:

Line Item	Amount (Over) / Under Budget	Explanation
Soft Cost		
Site Consulting	(\$7,070)	Added scope – review of additional potential sites
Site Acquisition / Permits	(\$258,904)	Original contract awarded in Oct 2015 to Feb 2019 – Time extended to Mar 2021 due to site entitlement which included delayed lease negotiations due to landlord / land use delays / permitting delays. Added additional lease negotiation and permitting for five tower replacements.
Site Planning A&E	(\$206,321)	Original contract awarded in Oct 2015 to Feb 2019 – Time extended to Aug 2020 due to site entitlement issues. Added 5 tower replacement sites. Added work for three abandon sites for Lake Oswego/West Linn
Geotechnical/Environmental	(\$253,670)	Original contract awarded in Oct 2015 to Feb 2019 – Time extended to Sep 2020 due to site entitlement issues. Added federal requirements for NEPA at all sites. USFS/BLM added scope for NEPA at six sites
Survey	(\$54,835)	Original contract awarded in Oct 2015 to Feb 2019 – Time extended to Dec 2020 due to site entitlement issues. Added work for three abandon sites for Lake Oswego/West Linn Added work for NEPA work.
USFS Fees	(\$40,000)	Added fees beyond estimate
Land Use Fees	\$15,600	
Plan Check/Permit	\$50,000	
Printing	\$2,000	
Bid Advertising	\$1,900	
Testing and Inspection	\$37,300	
Project Management	(\$458,000)	Original contract awarded in Oct 2017 to Oct 2018. Time extended to December 2021 due to site entitlement delays, construction delays and added sites.
Legal Fees	\$4,000	
RF Licensing	(\$54,000)	Increased fee schedule by APCO which coordinates all licenses
Miscellaneous	(\$85,000)	Due to easement fees and settlement with Damascus site neighbors for road repairs
Construction Cost		
Site Construction	(\$11,601,753)	Escalation of original projected cost due to delay of 30 months by an estimated 35%. Additional scope at Crutcher Bench site for access bridge replacement which was unanticipated. Added 5 replacement towers. Additional scope at Damascus /Canby

		/Sandy due to soils conditions and added work for PGE. Additional scope at Wilsonville due PGE, fencing add, weather delays, site acquisition delays. Added Hoodland Fire site. Existing site upgrades and repairs. Underground power to Memaloose/Oak Grove/Whale Head due to rock areas. Repairs due to Riverside fire and 2020 ice storm.
Buildings	(\$688,663)	\$380,000 lost due to failure of initial vendor. Added generator enclosures not originally anticipated.
Towers	(\$978,357)	Replacement of 5 existing towers. Added seismic requirements
Generators	(\$183,196)	Added replacement of exiting generators
48VDC	(\$378,767)	Added replacement batteries at existing sites, add Hoodland site, add jail site.
Lake Oswego Antenna	\$500	
Equipment Cost		
Simulcast Equipment	(\$1,939,440)	Adjustment for delay, added Hoodland site, increased interoperable radios
Paging	(\$21,228)	Upgrade to system controller
Subscriber Radios	\$295,010	
Asset Management	(\$109,197)	Underestimate
Post Warranty/System Refresh	(\$12,058)	Underestimate
Test Equipment	\$0	
Microwave	\$21,553	
Security	\$873,460	
Fire Station Alerting	(\$1,740,407)	Inadvertently not included in original budget – planned to use contingency
Sub Total Project Costs	(\$17,993,084)	
Additional Proceeds	\$7,528,981	Payment for subscriber radios \$4.9M. PGE payment of \$2.7M for site use in 5 sites to offset USFS power install costs.
Contingency	\$7,406,000	
Total	(\$3,058,103)	
Additional Project Funds		
Bond Premium	\$7,165,794	
Interest Earnings	\$1,032,112	
County Fees/Charges	(\$100,000)	
Total	\$8,097,906	
OPEN	\$5,039,803	



Phase IV P25Radio System CUT OVER PLAN



C800 Radio Group



WCN System Overview & Background



Mission-critical Communications Systems are an essential service necessary for normal and emergency Radio Operations that cannot be interrupted under any circumstance. The WCN Trunked Radio System is designed as Mission Critical and serves – All Public Safety and Emergency Response Agencies in Clackamas, Washington, and portions of Yamhill Counties.

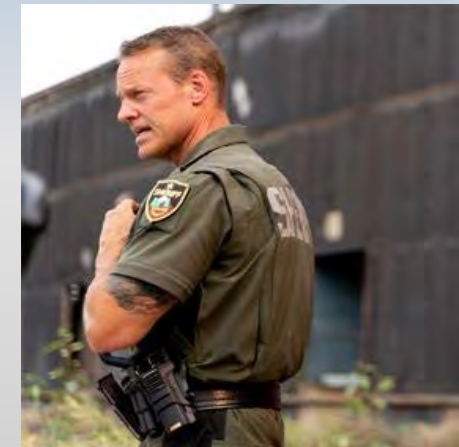
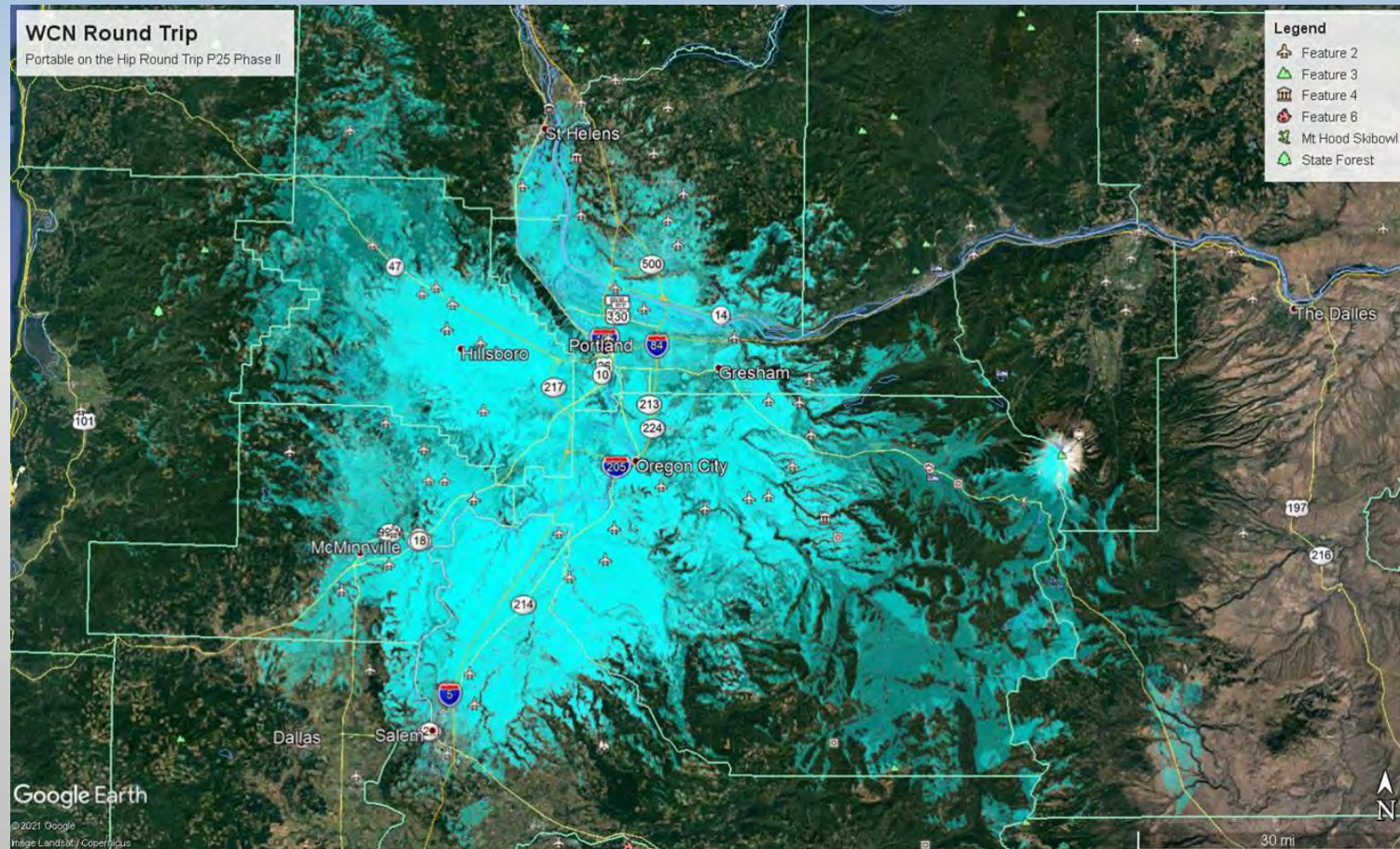
- The population served is over 1 million citizens
- The Land Area covered by the system is over 2700 Square Miles.
- The system incorporates 4 (four) 9-1-1 Call and Emergency Dispatch Centers
 - Washington County Consolidated Communications Agency (WCCCA)
 - Clackamas County Department of Communications (CCOM)
 - Lake Oswego Communications (LOCOM)
 - Newberg-Dundee 9-1-1 (NEWCOM)
- The system consists of 48 Communications Sites (Radio Sites)
 - WCCCA – 22 Sites
 - C800 Group – 24 Sites
 - City of Newberg – 1 Site
 - Site On Wheels (SOW) – 1 Site (trailer/mobile)
- The System is interconnected by 55 MPLS Routed Digital Microwave Links configured for optimal resilience and regional interconnectivity.
- The System supports over 27,000 P25 Public Safety and Public Services Radio's
 - WCN System Radios – over 7400
 - WCN Adjacent Systems and Partner Agencies – approx. 20,000

WCN - Radio Coverage Design - Portable

- The WCN Trunked Radio System is designed to provide usable communications to its users over a wide area based upon Portable Radios located on the hip of first responders in the out of doors. The map below represents the WCN System coverage for Portable Radios worn on the hip of first responders.



Not Designed for
a
Radio "PACK SET"

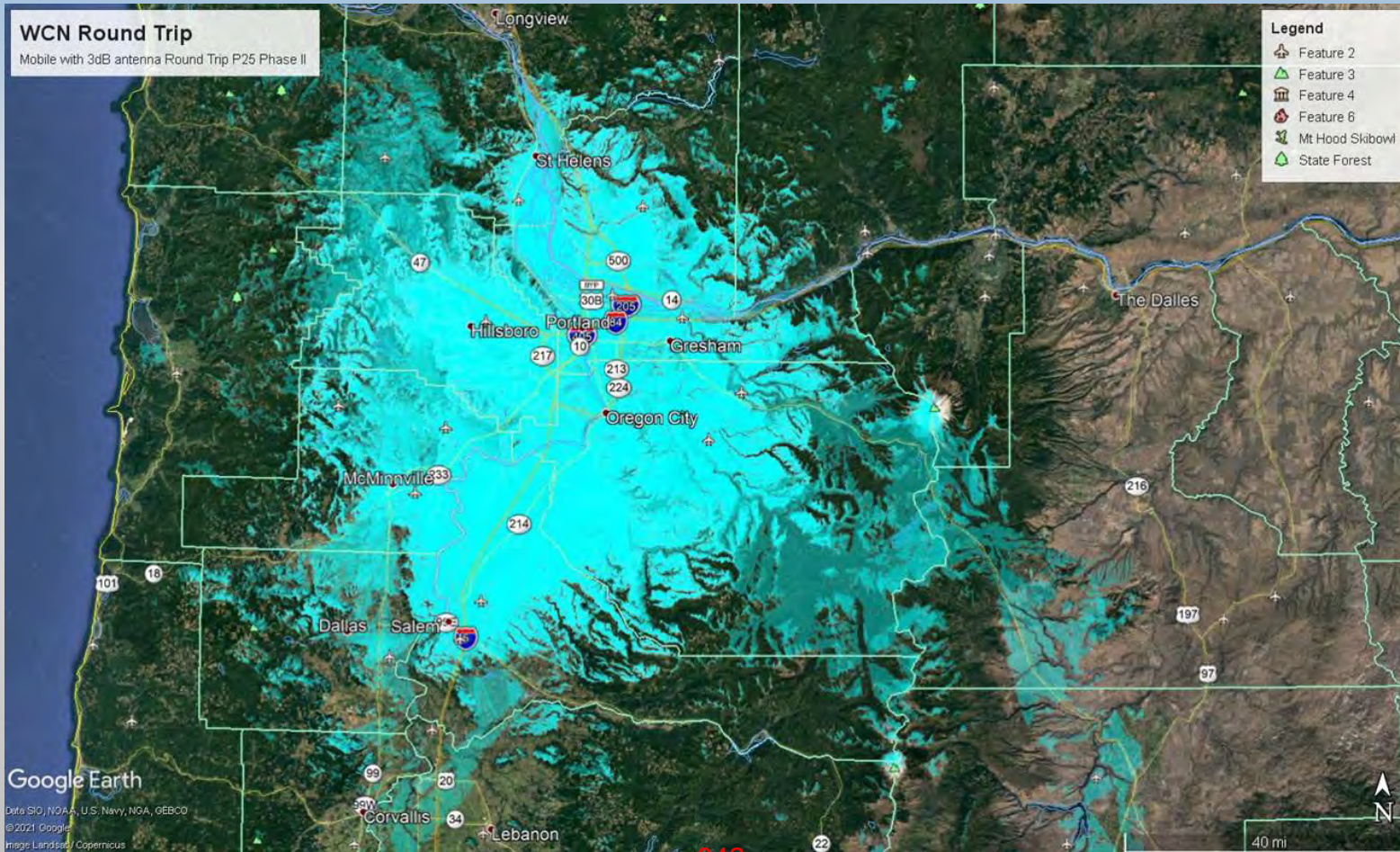


Is Designed for a
"Portable Radio"
on an Officers
Hip

WCN - Radio Coverage Design - Mobile



- The WCN Trunked Radio System design for Mobile Coverage provides usable communications to its users over a far wider area than the base design for Portable Radios located on the hip of first responders in the out of doors. The map below represents the WCN System coverage for Mobile Radios using recommended antennas and installations.



Not Designed for
a
Stealth or
Hidden Antenna
Coverage &
performance will
vary with
compromised
installations



Is Designed for
Recommended
Antennas on
Vehicles Roof

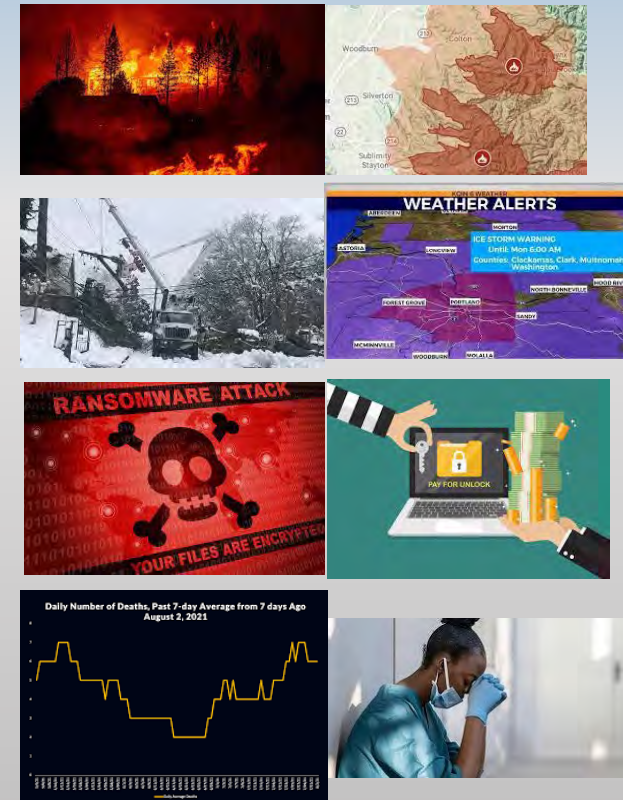
Encryption – All Radios are encryption Enabled to support interoperable communications with other WCN system users as well as Regional and State Partners.

- Law Enforcement – To date all Talk Groups are encrypted – some talk groups (channels) will be streamed for monitoring – delayed stream selectable within limits. Only recorded talk groups may be streamed.
- Fire and Medical Services – To date only two Talk Groups are encrypted to support joint operations in an encrypted environment. All other Talk Groups are open and may be streamed if they are recorded.
- There is no compromise in Audio Quality, delay, or change in coverage for encryption.
- WCN has incorporated the highest level of non-Military encryption available for secure communications AES-256. Based upon a CISA Encryption presentation it *“would take the fastest super computer half the time the universe has been in existence to crack an AES 256 bit encryption code”*.
 - WCN users are interoperable WHEN ENCRYPTED with Regional and State P25 Radio users.
- Encryption does not affect Dispatch Communications to or from field units.
 - NOTE: Be aware patching an un-encrypted Talk Group to an encrypted Talk Group will result in all encrypted communications being heard by any one listening to the un-encrypted Talk Group on a WCN or Partner Agency P25 Radio, P25 Scanner, or on the un-encrypted Talk Groups streaming service.

WCN System Cut Over – What has been the Hold Up?



- The Original Plan was to have the New WCN System on line and cut over within 3 years of project start.
 - This would have placed us at a P25 Trunked Radio System Cut Over date of November 2020.
 - Conventional Systems, Paging Systems, Alarms, and Management Systems would have been completed and fully cut over by April 2021.
- **Fires and Smoke shut down construction and equipment installations** due to limited access to many sites and smoke related safety issues for Tower Crews. WCN Contractors lost 3+ months due to these events as well as schedule slips for sites that were affected by the Fires.
- The **Ice Storm** that hit our area in February 2021 resulted in **no access to our sites for construction and tower work**. It also resulted in damage to our antennas systems and further caused delays due to **supply chain delays** as a result of the CV-19 Pandemic this resulted in over 5 months of lost time to repair/replace damaged antennas and line.
- We experienced a **Ransomware Attack** on our Radio Management Server. This server is required to program our Radios. The analysis and resulting security systems that have been put in place resulted in a 3+ month delay in completing the programming or upgrading of the Radios to remaining First Responders.
- We have experienced delays due to **CV-19 with Tower and Equipment Installation Crews** affected for 2 weeks at a time. The net affect of CV-19 on contractor personnel has had a net impact of approximately 2 months.

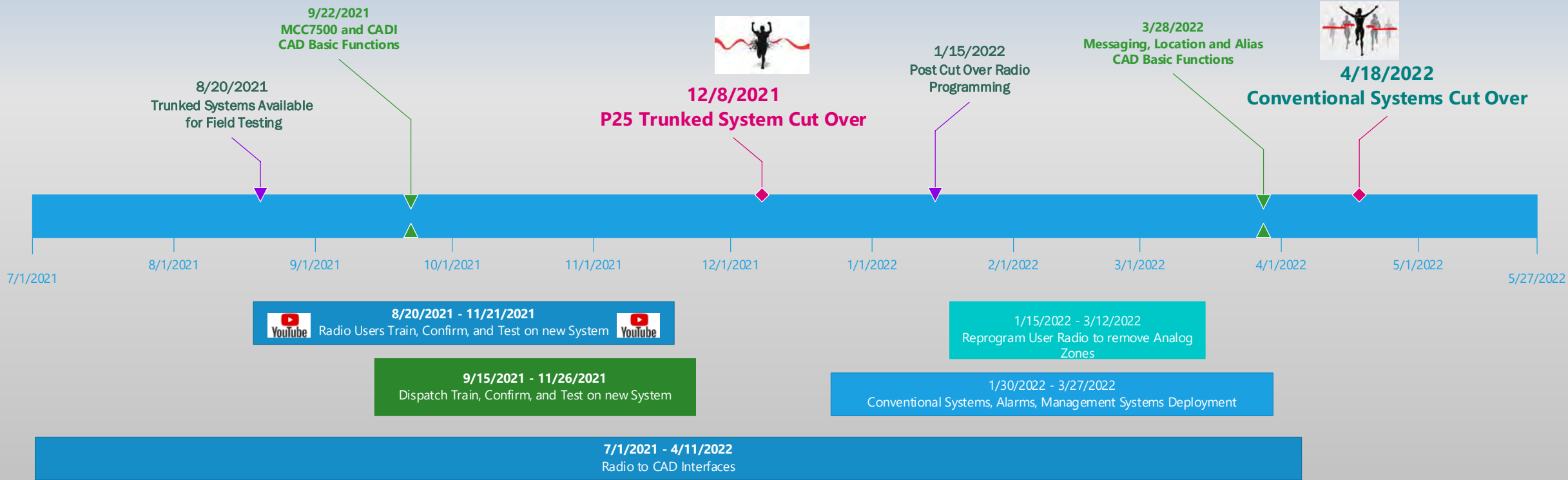




WCN System Cut Over – When is it scheduled?



- Assumption 1 - No further man made or natural disasters occur between now and CUT OVER
- Assumption 2 – All RADIO USERS and Dispatch Centers complete their training and testing PRIOR to CUT OVER



WCN System Cut Over – What will be provided

- WCN will provide a detailed STEP by STEP process mid-September 2021 for:

Radio Users



Partner Agencies



Dispatch Centers





11300 SE Fuller Rd
Milwaukie, Oregon 97222
(503) 780-4806

Board of Directors Action Request

To: C800 Board of Directors
From: John Hartsock, Manager
Date: September 22, 2021
Re: Approve the Issuance of a Purchase Order to Raven Corporation for Controller Hardware and Software for Interoperable Communications.

REQUEST: It is hereby requested that the C800 Board of Directors approve a purchase order in the amount of \$43,160 to Raven Electronics, Reno, Nevada for controller hardware and software to affect interoperable communications with non-trunking system radio equipment.

ISSUE: This project element is in the Motorola Contract as a deliverable, however, the design provided by Motorola does not meet the expected operational performance requested. Motorola suggested WCN utilize a M4x Blade device from Raven Electronics to achieve the desired outcome. Motorola will credit the project the value of the equipment originally included in the project for this purpose.

This solution leverages the microwave system to interconnect Interoperable P25 and Analog conventional resources that are provided by Motorola as part of the overall project scope. The highly flexible design allows field personnel to turn up, configure, reconfigure, and patch as needed for any given situation and then turn down the equipment when it is no longer needed.

Deployment of this solution resolves several issues that were discovered in recent emergency situations, most notably the wildfires of 2020. During that time, several Federally assigned interoperable repeaters were up and overlapping areas that Fire Services want to interconnect to other systems. This resulted in confusion and frustration as several agencies attempted to utilize the repeaters in their areas.

WCCCA on C800's behalf prepared procurement documentation and received only one response for this procurement, in accordance with the C800 Purchasing Rules for intermediate procurements.

POLICY IMPLICATIONS: None

FINANCIAL: The funds are budgeted in capital outlay as part of the Bond funding.

LEGAL: A C800 purchase order will be utilized as approved by legal counsel.

RECOMMENDATION: It is hereby recommended that the C800 Board of Directors approve a purchase order in the amount of \$43,160 to Raven Electronics, Reno, Nevada for controller hardware and software to affect interoperable communications with non-trunking system radio equipment.