

# CLACKAMAS C800 RADIO GROUP

## BOARD OF DIRECTORS MEETING / BUDGET HEARING AGENDA

May 15, 2019 / 10:00AM

Meeting to be held at: Clackamas Design Services Building Room 119

150 Beavercreek Rd Oregon City, OR

Call In 800-704-9804 / Access Code: 345832#

1. Call the C800 / Board of Directors meeting to Order - Chair Deputy Chief Ryan Hari
2. Roll Call of Partners: (18/10)

a. City of Canby	g. City of Sandy	m. Hoodland Fire District
b. City of Gladstone	h. City of West Linn	n. Molalla Fire District
c. City of Lake Oswego	i. Canby Fire District	o. Sandy Fire District
d. City of Milwaukie	j. Clackamas County Fire District #1	p. Tualatin Valley Fire & Rescue
e. City of Molalla	k. Colton Fire District	q. Clackamas County Sheriff
f. City of Oregon City	l. Estacada Fire District	r. Clackamas County Health
3. \*Approval of Minutes of: March 20, 2019 Board Meeting
4. Public Comment
5. Communications - Secretary of State Audit Letter
6. Financial Report - March 2019 - John Hartsock
7. Open Budget Hearing
  - a. Present the Budget - John Hartsock
  - b. Ask for public comment - Chair Hari
  - c. \*Approval of Resolution 19-1 FY 2019/2020 Proposed Budget - Chair Hari
8. Committee Reports
  - a. Executive Committee - Ryan Hari
  - b. Technical Committee - John Hartsock
  - c. Citizen Accountability - John Hartsock - Next Meeting June 18, 2019 6:30P West Linn PD
9. Old Business: (\* Action Item)
  - a. System Management: Ron Polluconi
  - b. System Upgrade/Replacement
    - i. Project Status / Procurement - Bjorn Morfin / John Hartsock
    - ii. Fire Station Alerting / Paging - John Hartsock

- iii. Portable/Mobile Radio Deployment - Todd Matsuo
- iv. Radio Templates - Ron Polluconi / John Hartsock
- v. Media Radio Use - John Hartsock
- vi. Use of Bond Premium Funds - Jim Davis

10. New Business: (\* Action Item)

- a. \*Approve a Contract Change Order for Day Wireless - 48V System
- b. \* Award a Construction Contract for the Memaloose / Whalehead / Tom Dick & Harry / Oak Grove Butte Sites
- c. \* Authorize A Site Use Agreement with PGE
- d. \* Authorize Eminent Domain Proceedings for Wilsonville Site
- e. **Next Board Meeting June 19, 2019 10:00A @ CCOM - EOC**

11. Open Agenda

12. Adjournment

# CLACKAMAS C800 RADIO GROUP

## BOARD OF DIRECTORS MEETING AGENDA

Meeting Minutes of the March 20, 2019 Meeting  
CCOM/Disaster Management, 2200 Kaen Rd., Oregon City, OR 97045

**1. C800 Board Meeting Called to Order at 1000**

**2. The following were in attendance:**

City of Canby / Chief Bret Smith	Estacada Fire District / Richard Anderson
City of Gladstone / Randy Hopperstad	Hoodland Fire District / Joe Schwab (phone)
City of Lake Oswego / Sue Scobert (phone)	Sandy Fire District / Chief Phil Schneider
City of Milwaukie / Chief Steve Bartol	Molalla Fire District / Chief Vince Stafford
City of Molalla / Chef Frank Schoenfeld / Chief Rod Lucich	CCOM / Cheryl Bledsoe
City of Oregon City / Shaun Davis	Clackamas Co. / Laurel Butman / Brian Nava
City of Sandy / Sean Lundry	WCCCA / Ron Polluconi
City of West Linn / Chief Terry Kruger / Capt Peter Mahuna	C800 / John Hartsock
Canby Fire / Chief Jim Davis	Day Wireless / Chris Tate
Clackamas Fire District #1/ Deputy Chief Ryan Hari / Div Chief Mike Corless / Rachel Trotman	

**3. Approval of Minutes – February 20, 2019 Board Meeting**

- a. Brett Smith made a motion to approve the minutes of the February 20, 2019 board meeting as submitted and the motion was seconded by Jim Davis. A unanimous vote was cast in favor.

**4. Public Comment:** None

**5. Communications:** None

**6. Financial Report** John Hartsock shared that the report is in the packet. Nothing unusual. Tracking on budget.

**7. Presentation and Acceptance of the FY 2019/2020 Proposed Budget- John Hartsock**

- a. John noted that the budget for the 2019/2020 fiscal year is included in the packet. He shared that nothing dramatically changed.
- b. He noted we've paid off the debt on the zone controllers, so Agencies won't have that cost this year.
- c. Overall, the increases in cost are areas related to the added sites (generator maintenance, battery system maintenance; the annual increase). The 24% increase is primarily because of the project fund that is included. He said that it's probably a 2% or 3 % increase overall in the operation cost.
- d. WCCCA costs are up slightly for an increase in training costs.

- e. He noted that we will maintain the \$430 per radio, which is what we had last year. The cost will actually be lower because of no charge for the switch, which is now paid off.
- f. He asked the group to look at the number of radios to make sure they are correct. (Listed in the middle of the budget; heading is “Number of Public Safety Radios”). We are using the same radio numbers as last year. This shows the number of APEX radios as well as the others. The “other” column is for non-APEX radios that are still on the list but won’t work in the new system. If there are updates on those numbers, reach out to Ron at WCCCA.
- g. Don’t need to take action on this today, just review before next meeting. At the April 24<sup>th</sup> meeting, there will be a budget hearing.

## **8. Committee Reports**

- a. Executive Committee
  - i. Did not meet; no report.
- b. Technical-John Hartsock
  - i. Met on February 27<sup>th</sup>. Went over site and system issues. They made sure we have everything in needs and wants in the logging recorder. Motorola is now going to go out and get three proposals. They will plan to do a presentation on logging recorders mid-April. Talked about interfaces between TriTech and Fire Station and Alerting. Also discussed system replacement. Trying to get the VHF System turned off. Next meeting is March 27<sup>th</sup>.
  - ii. Hoodland Fire had a question regarding the VHF shut off; they recently had an 800 failure and had to go entirely VHF in East Clackamas County. This led to concerns about redundancy. Ron discussed the two options: go to VHF or go to 800 interoperable repeaters at Brightwood and Timberline Sites. Need to leverage a better communications plan for these types of outages. The current system has a single path microwave connectivity and doesn’t have redundancy in control systems (zone or site). These are both risks. The new system will have at least two, if not three paths into each site. Ron shared that he understood that the VHF System kind of worked when it fell back to it. He shared that maps of conventional repeaters they are installing are available for coverage standpoint. Joe shared that they had a system failure and alarm failure that the system was down. Joe shared that the VHF System was modest at best. It brought up lots of concerns locally. John offered to have he and Ron come to a Hoodland Board Meeting/Staff meeting to go over this and bring maps to explain. John shared that it will be much better in the new system.
- c. Citizen Accountability-Ryan Hari
  - i. Ryan shared that the group met last night. He said it was a really good meeting and the group is very engaged. They are asking the right questions and are very pleased. They had a discussion about bond premium funds.
  - ii. Next meeting is June 18<sup>th</sup> in West Linn. Terry Kruger will confirm the meeting space and let John know.

## **9. Old Business:**

- a. System Management: Ron Polluconi
  - i. Ron stated the only major problem they’ve faced was that fail-soft event discussed previously in Hoodland. One of the redundant controllers had an error on it at Lenhart. Their response time was delayed due to snow; they couldn’t drive in, and so they snowshoed in. Otherwise, it would have been about a 45 minute response. The repair

time was fairly quick. It will be fully redundant in about 2 days. They continue to see channel outages; has been an ongoing issue for about a year. He noted that there is no problem with support, just a lot of maintenance. He apologized for the delayed time.

- ii. Phil Schneider asked about the Chiefs getting notified when the system fails. Cheryl stated that they haven't set up notifications for radio outages, but they can. Ron and John said there should have been two notices sent by email. Cheryl will bring it up at CCOM Tech meeting. Discussion about the way Chiefs are getting notified; sometimes email is not the best.
- b. System Upgrade/Replacement-John Hartsock
  - i. He shared he left the resiliency piece in there, as it is important in the overall planning and building of the system.
  - ii. Two interesting ones: 1) FEMA put out an After Action Report on the Alaska earthquake. They use the same radio technology we are using. During the actual shaking, they went into site-trunking because of microwave dishes misaligning. The minute the shaking stopped, the dishes re-aligned and the system worked. One problem is that they got some busy outs in the system. He noted that for our system that we have built enough redundancy and looked at the number of calls we can handle it. 2) After the Oak Grove snow event in Southern Oregon, it came out that a number of the sites in Southern Oregon, both State and local, either didn't have generators, the generators didn't start, or folks had to go to the site to start the generator. FEMA is going to give us a technical assistance grant to come in and do an After Action Plan. What they plan to get out of this is, look at how we make sure systems across the state have adequate redundancy. The scheme that Ron came up with, balancing fuel and battery use, will give us 4 weeks.
  - iii. Project Status/Procurement-John Hartsock
    1. Barton Site: Received the permits. Starting construction next week.
    2. Cooks Butte: Still in land use process. Planner working with us. They are optimistic.
    3. Parkway: Backed off of this one. May have some options up above it, at a site called Arrow Wood or possibly behind the High School.
    4. Sandy/Damascus/Canby: Up and running.
    5. Wilsonville: They went back and forth but decided that the best thing to do; having a hard time getting a willing owner on any other site in Wilsonville. Will bring back to the group next month. They plan to go after the easement.
    6. BLM:
      - Crutcher Bench- Underway.
      - Highland Butte- A little delay with BLM on tree sale.
    7. Tom, Dick and Harry / Memaloose / Oak Grove / Whalehead: Published the public notice, out for 30 days. We should know by mid-April if there are any concerns. Mary Ellen with the Forest Service has been very helpful. She has also just joined Hoodland's Board.
    8. Hoodland: In for land use.
    9. Existing Sites: Contract in today's packet to replace five towers. There are some structural issues and want to add a microwave to make them less than our standard for resiliency.
    10. Mt. View: Everything's done. Starting to install and work on antennas.

11. Goat Mountain: When snow clears, have tower and generator work.
12. Day Hill: Resolved antenna questions with Day Wireless.
13. Timberline: Minor work.
14. CCOM: Equipment is placed and powered up temporarily. There is a Microsoft issue, servers have to be re-powered within six months or they lose all their memory. We were able to power them up in time.
15. Brett Smith asked about the proposal in April regarding the Wilsonville easement. He asked if it would be possible to get a timeline/updated list on what has been done, what hasn't worked and why we are doing that. This will help to make a decision on accurate information. John stated absolutely. Ryan added that they wouldn't be taking any property, only asking to be added to the same easement that Wilsonville already has.
16. Project Budget discussion.
  1. Soft costs Architects/Engineering running about \$680 over budget. Construction costs about \$3,300,000. Radios are \$700 over budget.
  2. Two new sources of income:
    - a. \$1 million from City of Gresham for subscriber radio payment.
    - b. PGE came to us and wanted to put radios at Timberline / Brightwood / Memaloose / Oak Grove / CCOM / Mt Scott. We looked at what would be the cost of leasing for 15 years. PGE preferred to do a one- time payment out of capital dollars versus yearly out of operating dollars. The cost would be \$2,675,000 to use the space for 15 years. Contract is limited to four radios per site. If they decide to leave, they don't get their money back. They want to spend the money now, put it into Escrow account until sites are ready.
    - c. Next quarter will be continuing on with construction and bidding with Lake Oswego. John shared he will get more pictures of tower climbers and antennas going up.

**c. Fire Station Alerting/Paging – John Hartsock**

- a. Action item to go with US Digital. Some of Agencies, Molalla, have installed so we can get that project rolling. Need to get interface with CAD and CAD inter-connection underway as soon as possible.

**d. Portable/Mobile Radio Deployment-John Hartsock and Ron Polluconi**

- b. Nothing new to report. They are making sure that the WCCCA techs are being more engaged to make sure Agencies are getting correct information for radios. May see a schedule on the upgrade today.
- c. DVRS Systems (ability to have a repeater in a vehicle that will provide additional signal)
  1. Ron said they recently finished training class on the DVRS systems for the technical side. The DVRS can be tied into the trunk system so it can extend the range as a system and as a trunked extension or can set up local and extend in an area.
  2. Ron shared they are standing back on the technical side, not getting too heavily engaged on this piece of equipment. This wasn't part of their deployment strategy. It could slow down the deployment radios attached. They are reluctant to support the deployment of this equipment because they aren't sure how they want to support it and get it programed. They are following the technical track,

trying to learn as much as they can. The primary focus on this is the Fire Service. In WA County, there is a push for Fire Services to use some of the funds and put additional equipment in Law enforcement vehicles. Ron shared that the Law enforcement side is different than Fire and how they respond, so they are a little reluctant in WA County on the law side. From Fire Services, there is a lot of pre-planning required from an operational perspective in regards to deployment. He talked about the mall down on 205, asking where the DVRs have to be deployed to cover the mall. From a law enforcement standpoint how many cars would they have to deploy in order to cover the mall?

3. Ron noted that the interface is relatively simple from the technical side, but the operational elements are why they are waiting until some things get sorted out.
4. TVF&R is the tip of the spear pushing it forward. Hillsboro Fire has a lot of interest. Both of these groups are experimenting at this point.
5. John shared that there was a group in BC Canada, Burnaby Fire, who really looked at the system. They went out and mapped every building in their jurisdiction to determine how they would have to use it to be effective.
6. Ryan asked about how TVF&R is going to plan to fund this. Discussion followed about funding and use of service as well as availability and accessibility, new buildings and existing.

**e. Use of Bond Premium Funds-Jim Davis**

- a. Jim Davis shared that Ryan asked for a committee to get together to look at the excess Bond funds. Jim and Mike Corless are representing the Fire side, and Brett Smith is representing the Law enforcement side. They met at Canby fire and received the questions. Brett brought up some good points about definitions, so folks know what they are voting on. They will be sending out a survey to the group. Canby Fire's Administrative Assistance is currently working with them on this project. They are hoping to get this out to group soon and have results by September. Jim reviewed the questions they are looking at. A couple things will be removed from the list, as Ron and John noted that they are already in the budget. They noted they haven't received a lot of feedback from law, so they are hoping to get more information/ideas. One issue they talked about, that came from the Oregon City Police Chief, was information about giving money back to the tax payers. Jim shared that he spoke with Laurel Butman and Brian Nava about this.
- b. Laurel said we are levying to pay the debt, so there is nothing to give back. She said one thing that we could do is take that amount and split it up, sending everyone a \$40 check; which isn't really feasible due to the cost issuing checks. We could shave a little over a year off the 15 year term; so tax payers won't be paying quite as long. She noted that they are also looking at a Bond for the Courthouse as well. They are checking the Bond Covenant to see if we can do that. Another thought came this morning, came from Finance, would be to keep part of the money and retain it for capital maintenance in the future. She will look into the Bond Covenant for this option as well. Talking with Bond Council. She thinks the Bond was written to allow for the first one, getting rid of some of the debt. She will provide a Statement to include in the survey. May have to be capital replacement (John mentioned). Someone asked what the timing was for the geo bond for Courthouse. She said they are targeting November.

- c. Richard Anderson asked if the Courthouse will include CCOM. Laurel said they are still talking about this.
- d. She will get back to the group on what is feasible.
- e. Ryan talked about Citizen Accountability Meeting. He noted that from the citizens' standpoint, they are sending the message, "Play your cards carefully," as citizens please make sure you get what you need to finish this project, and not have to ask again.
- f. Steve Bartol asked if the survey includes how much these options cost or is that is too much. Jim answered that at this point, it is too much.
- g. Laurel said in language of Bond, for the Bond that the County would ask for advice from both the C800 and the Citizen Accountability group. The group felt one recommendation, that both agreed too would be best. Discussion followed.

#### **10. New Business: (\*Action Item)**

- a. \* Award Contract to Construct 5 Replacement Communication Towers.
  - i. John put out to public bid. He received five qualified bids. He shared he knows all & happy with all of them. HPS, was the lowest bid.
  - ii. Motion made by Steve Bartol to authorize the C800 Board of Directors to enter into a contract with HPS, Hillsboro, OR in the amount of \$999,103 to construct tower replacements and related work at the Brightwood/Lenhart/Pete's Mtn./Polivka/ and Mt. Scott sites. Second by Mike Corless. A unanimous vote was cast in favor.
- b. \*Award Fire Station Alerting System Contract
  - i. John shared they started off initially with four to five companies, and US Digital was the preferred provider.
  - ii. Motion made by Richard Anderson to authorize the C800 Board of Directors to enter into a contract with US Digital Designs, Tempe, AZ, in the amount of \$1,697,406.94 for the furnishing and installation of a Fire Station alerting system for all Clackamas Fire Agencies. Second by Jim Davis. A unanimous vote was cast in favor.
- c. **Next Board Meeting**
  - i. **Next meeting April 24, 2019 , 10 AM, at CCOM/EOC**

#### **11. Open Agenda**

- a. Brian Nava with Clackamas County brought up Aerial Imaging System. He said that they will be putting on training in the next weeks. The trainer is planning for a Public Safety Training on April 3<sup>rd</sup>. He will send out information to John and Ryan.

#### **12. Meeting adjourned at 11:08 AM.**



Office of the Secretary of State

Bev Clarno  
Secretary of State

A. Richard Vial  
Deputy Secretary of State



Audits Division

Kip R. Memmott, MA, CGAP, CRMA  
Director

255 Capitol St. NE, Suite 500  
Salem, OR 97310

(503) 986-2255

April 26, 2019

Clackamas 800 Radio Group Board  
11300 SE Fuller Road  
Milwaukie, Oregon 97222

We have reviewed the audit report of Clackamas 800 Radio Group for the period July 1, 2017, through June 30, 2018, in accordance with the provisions of ORS 297.465(3).

Our review disclosed issues that require management's attention to ensure future reports are accurate, clear, and comply with generally accepted accounting and reporting standards.

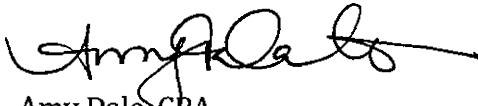
1. The government-wide statement of net position (p. 7) and governmental funds balance sheet (p. 9) both present *deferred maintenance charges* as assets. Given the implementation of GASB Statement No. 65, the use of the term deferred is limited to items classified as deferred inflows or deferred outflows of resources. Consider whether this balance is appropriately named and should be classified under the heading of deferred outflow of resources or re-titled.
2. The government-wide statement of net position (p. 7) should report liabilities whose average maturities are greater than one year in two components – the amount due within one year and the amount due in more than one year (GASB Codification (June 30, 2018) §2200.116).
3. Receivables reported on the statement of net position (p. 7) and governmental funds balance sheet (p. 9) appear to be aggregations from different sources. Governments should provide details in the notes to the financial statements when significant components have been obscured by aggregation. Balances of receivables may also have different liquidity characteristics. Significant receivable balances not expected to be collected within one year of the date of the financial statements should be disclosed. (GASB Codification (June 30, 2018) §2300.125)
4. The operating lease commitments note (p. 16) should present principal and interest requirements to maturity separately for each of the five subsequent fiscal years and in five-year increments thereafter (GASB Codification (June 30, 2016) §1500).
5. The budgetary comparison for the general fund is presented as required supplementary information (RSI). Budgetary comparisons are required by GAAP to be presented as RSI for the general fund and major special revenue funds *that have a legally adopted budget* (GASB Codification (June 30, 2018) §2200.206). Since the Clackamas 800 Radio Group is not subject to Local Budget Law, the budgets may not meet the definition of "legally

adopted." The nature of RSI does not permit governments to voluntarily expand the contents of RSI; only information required by GAAP may be presented as RSI (AICPA Audit & Accounting Guide, State and Local Governments (March 1, 2018) ¶16.67). Consider whether the budgetary comparison schedule would be more appropriately presented as supplementary information.

6. The list on (p. 1) includes the names of the officials; however, their mailing addresses are not included as required (OAR 162-010-0020(10)).

We appreciate your efforts in fulfilling the reporting requirements of Municipal Audit Law. If you have any questions or concerns, please call me at (503) 986-2255.

Sincerely,  
OREGON AUDITS DIVISION

A handwritten signature in black ink, appearing to read "Amy Dale", with a stylized flourish at the end.

Amy Dale, CPA  
Audit Manager

cc: Jarrard, Seibert, Pollard & Co. LLC

# Clackamas 800 Radio Group

## Profit & Loss Budget vs. Actual

### July 2018 through March 2019

	Jul '18 - Mar 19	Budget	\$ Over Budget	% of Budget
<b>Ordinary Income/Expense</b>				
<b>Income</b>				
401-00 · Beginning Fund Balance	0.00	531,933.00	-531,933.00	0.0%
405-00 · Members Contracts	60,200.00	61,060.00	-860.00	98.6%
410-00 · Partners Fees	988,247.50	953,418.00	34,829.50	103.7%
420-00 · Partners Debt Service Zone Cont	93,689.00	93,689.00	0.00	100.0%
421-00 · Partner Debt Service Microwave	0.00	0.00	0.00	0.0%
430-00 · Subscriber Radio Payments	0.00	200,000.00	-200,000.00	0.0%
431-00 · Interest Income	125.62	2,000.00	-1,874.38	6.3%
435-00 · Lease Revenue	18,113.34	46,846.00	-28,732.66	38.7%
440-00 · Miscellaneous Income	0.00	1,000.00	-1,000.00	0.0%
450-00 · Intergovernmental-Clackamas Co	15,912,142.11	20,000,000.00	-4,087,857.89	79.6%
455-00 · Bond Interest Income	0.00	400,000.00	-400,000.00	0.0%
<b>Total Income</b>	<b>17,072,517.57</b>	<b>22,289,946.00</b>	<b>-5,217,428.43</b>	<b>76.6%</b>
<b>Gross Profit</b>	<b>17,072,517.57</b>	<b>22,289,946.00</b>	<b>-5,217,428.43</b>	<b>76.6%</b>
<b>Expense</b>				
605-00 · Site Rental	155,783.32	159,597.00	-3,813.68	97.6%
610-00 · Fuel/Generators	10,464.61	15,000.00	-4,535.39	69.8%
615-00 · HVAC Maintenance	3,076.92	7,000.00	-3,923.08	44.0%
620-00 · Landscape Maintenance	8,460.00	7,500.00	960.00	112.8%
621-00 · Office Supplies	0.00	3,000.00	-3,000.00	0.0%
625-00 · Generator Maintenance	862.50	9,000.00	-8,137.50	9.6%
630-00 · UPS Maintenance	1,560.00	2,000.00	-440.00	78.0%
635-00 · Battery Maintenance	295.00	6,500.00	-6,205.00	4.5%
645-00 · Insurance	30,569.19	28,860.00	1,709.19	105.9%
650-00 · Utilities	35,287.70	157,500.00	-122,212.30	22.4%
655-00 · Consultant Services	33,774.05	38,400.00	-4,625.95	88.0%
657-00 · Regional Radio Expense	0.00	1,500.00	-1,500.00	0.0%
660-00 · WCCCA System Fees	746,600.00	735,332.00	11,268.00	101.5%
665-00 · Radio Maintenance Fees	69,778.41	60,000.00	9,778.41	116.3%
670-00 · Legal Services	3,564.00	8,000.00	-4,436.00	44.6%
675-00 · Financial Services	5,945.74	8,500.00	-2,554.26	69.9%
680-00 · Audit Fees	6,285.00	7,500.00	-1,215.00	83.8%
683-00 · Capital Reserve	0.00	100,000.00	-100,000.00	0.0%
685-00 · Miscellaneous Expenses	825.12	8,052.00	-7,226.88	10.2%
686-00 · Meeting Expenses	0.00	2,000.00	-2,000.00	0.0%
703-00 · Capital Outlay				
703-01 · Buildings & Land Improvement				
703-011 · Land Improvement	1,799,277.25			
703-012 · Building	12,226,351.19			
703-013 · Tower	487,024.30			
703-014 · Generator	137,358.00			
<b>Total 703-01 · Buildings &amp; Land Improvement</b>	<b>14,650,010.74</b>			
703-02 · Radio Backbone				
703-021 · Simulcast / Master Site	7,541.50			
703-022 · Subscriber Radios	70,922.26			
703-024 · Paging	7,523.31			
<b>Total 703-02 · Radio Backbone</b>	<b>85,987.07</b>			
703-03 · Equipment				
703-034 · Microwave	1,870,026.90			
<b>Total 703-03 · Equipment</b>	<b>1,870,026.90</b>			
703-00 · Capital Outlay - Other	441,764.09	20,600,000.00	-20,158,235.91	2.1%
<b>Total 703-00 · Capital Outlay</b>	<b>17,047,788.80</b>	<b>20,600,000.00</b>	<b>-3,552,211.20</b>	<b>82.8%</b>
795-00 · Debt Service	93,688.00	94,000.00	-312.00	99.7%
800-00 · Operating Contingency	0.00	50,000.00	-50,000.00	0.0%
999-00 · Unappropriated End Fund Bal	0.00	180,704.00	-180,704.00	0.0%
<b>Total Expense</b>	<b>18,254,608.36</b>	<b>22,289,945.00</b>	<b>-4,035,336.64</b>	<b>81.9%</b>
<b>Net Ordinary Income</b>	<b>-1,182,090.79</b>	<b>1.00</b>	<b>-1,182,091.79</b>	<b>-118,209,079.0%</b>
<b>Net Income</b>	<b>-1,182,090.79</b>	<b>1.00</b>	<b>-1,182,091.79</b>	<b>-118,209,079.0%</b>

1:55 PM

04/09/19

Accrual Basis

# Clackamas 800 Radio Group Profit & Loss Detail

March 2019

Type	Date	Num	Name	Memo	Class	Amount	Balance
<b>Ordinary Income/Expense</b>							
<b>Income</b>							
<b>431-00 · Interest Income</b>							
Deposit	03/31/2019			Interest		39.95	39.95
Total 431-00 · Interest Income						39.95	39.95
<b>435-00 · Lease Revenue</b>							
Deposit	03/06/2019	EFT	FBI	Deposit		130.00	130.00
Deposit	03/25/2019	EFT	FBI	Deposit		130.00	260.00
Deposit	03/25/2019	EFT	FBI	Deposit		130.00	390.00
Total 435-00 · Lease Revenue						390.00	390.00
Total Income						429.95	429.95
Gross Profit						429.95	429.95
<b>Expense</b>							
<b>615-00 · HVAC Maintenance</b>							
Bill	03/01/2019	141681	Hunter-Davissan, Inc.			352.25	352.25
Bill	03/01/2019	141547	Hunter-Davissan, Inc.			560.50	912.75
Bill	03/01/2019	141526	Hunter-Davissan, Inc.			352.25	1,265.00
Total 615-00 · HVAC Maintenance						1,265.00	1,265.00
<b>630-00 · UPS Maintenance</b>							
Bill	03/25/2019	FS19-1...	DC Group, Inc.			1,560.00	1,560.00
Total 630-00 · UPS Maintenance						1,560.00	1,560.00
<b>645-00 · Insurance</b>							
Deposit	03/05/2019	053989	Special Districts Insurance Services	2019 SDIS P/C Longevity Cre...		-1,694.50	-1,694.50
Total 645-00 · Insurance						-1,694.50	-1,694.50
<b>650-00 · Utilities</b>							
Check	03/04/2019	EFT	PGE			212.29	212.29
Check	03/04/2019	EFT	PGE			281.56	493.85
Check	03/05/2019	2771		VOID:		0.00	493.85
Check	03/06/2019	EFT	PGE			82.18	576.03
Check	03/07/2019	EFT	PGE			386.26	962.29
Check	03/11/2019	EFT	PGE			341.45	1,303.74
Check	03/13/2019	EFT	PGE			132.15	1,435.89
Check	03/18/2019	EFT	PGE			279.91	1,715.80
Check	03/19/2019	EFT	PGE			261.94	1,977.74
Check	03/19/2019	EFT	PGE			438.74	2,416.48
Check	03/19/2019	EFT	PGE			534.74	2,951.22
Check	03/25/2019	EFT	PGE			392.92	3,344.14
Check	03/29/2019	EFT	Canby Utility			83.96	3,428.10
Total 650-00 · Utilities						3,428.10	3,428.10
<b>655-00 · Consultant Services</b>							
Bill	03/31/2019		Hartsock Project Mgmt.			5,045.32	5,045.32
Total 655-00 · Consultant Services						5,045.32	5,045.32
<b>660-00 · WCCCA System Fees</b>							
Bill	03/06/2019	INV00...	WCCCA			186,650.00	186,650.00
Total 660-00 · WCCCA System Fees						186,650.00	186,650.00
<b>670-00 · Legal Services</b>							
Bill	03/31/2019	12379	Eakins, Eileen			1,056.00	1,056.00
Total 670-00 · Legal Services						1,056.00	1,056.00
<b>675-00 · Financial Services</b>							
Bill	03/04/2019	157712	Talbot, Korvola & Warwick, LLP			515.00	515.00
Bill	03/04/2019	157751	Talbot, Korvola & Warwick, LLP			495.00	1,010.00
Bill	03/13/2019	93986	Pamplin Media Group			73.75	1,083.75
Check	03/29/2019			Service Charge	01 Carver/Barton	20.00	1,103.75
Total 675-00 · Financial Services						1,103.75	1,103.75
<b>703-00 · Capital Outlay</b>							
<b>703-01 · Buildings &amp; Land Improvement</b>							
<b>703-011 · Land Improvement</b>							
Bill	03/01/2019		Andrew H. Thatcher Inc.		25 Lake Osweg...	1,000.00	1,000.00
Bill	03/07/2019	1553	Capital Design Services, LLC		11 Brightwood	750.00	1,750.00
Bill	03/07/2019	1554	Capital Design Services, LLC		11 Brightwood	1,500.00	3,250.00
Bill	03/08/2019	33176	ACS Testing, Inc.		19 Day Hill	105.00	3,355.00
Bill	03/08/2019	255710	KPFF Inc.		12 Crutcher Ben...	140.00	3,495.00
Bill	03/13/2019	16791	Black Mountain Consulting		05 Mount Scott	5,950.00	9,445.00
Bill	03/13/2019	19029	Summit Solutions Group LLC		03 Damascus	27,201.45	36,646.45
Bill	03/13/2019	19030	Summit Solutions Group LLC		06 Mtn View	66,574.92	103,221.37
Bill	03/13/2019	19030	Summit Solutions Group LLC		19 Day Hill	66,574.93	169,796.30
Bill	03/13/2019	19030	Summit Solutions Group LLC		10 View Acres	66,574.92	236,371.22
Bill	03/14/2019	16793	Black Mountain Consulting		05 Mount Scott	8,200.00	244,571.22
Bill	03/14/2019	1586	Capital Design Services, LLC		08 Polivka	1,200.00	245,771.22
Bill	03/14/2019	M2640...	PGE		20 Angel Falls	2,405.68	248,176.90
Bill	03/20/2019	8431	Securasite LLC		01 Carver/Barton	664.55	248,841.45
Bill	03/20/2019	8432	Securasite LLC		11 Brightwood	1,118.75	249,960.20
Bill	03/20/2019	8441	Securasite LLC		11 Brightwood	977.69	250,937.89
Bill	03/20/2019	8440	Securasite LLC		26 CCOM	900.00	251,837.89
Bill	03/20/2019	8447	Securasite LLC		26 CCOM	93.84	251,931.73

These financial statements omit the statement of cash flows and substantially all disclosures required by 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 on them.

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04/09/19

Accrual Basis

# Clackamas 800 Radio Group Profit & Loss Detail

March 2019

Type	Date	Num	Name	Memo	Class	Amount	Balance
Bill	03/20/2019	8446	Securasite LLC		40 All	243.75	252,175.48
Bill	03/20/2019	8461	Securasite LLC		40 All	1,320.44	253,495.92
Bill	03/20/2019	8463	Securasite LLC		02 Skyland/Coo...	7,290.00	260,785.92
Bill	03/20/2019	8448	Securasite LLC		12 Crutcher Ben...	612.50	261,398.42
Bill	03/20/2019	8455	Securasite LLC		03 Damascus	206.25	261,604.67
Bill	03/20/2019	8449	Securasite LLC		23 Goat Mountain	100.00	261,704.67
Bill	03/20/2019	8444	Securasite LLC		23 Goat Mountain	40.74	261,745.41
Bill	03/20/2019	8445	Securasite LLC		18 Highland Butte	175.00	261,920.41
Bill	03/20/2019	8452	Securasite LLC		27 Hoodland Fire	293.75	262,214.16
Bill	03/20/2019	8430	Securasite LLC		27 Hoodland Fire	887.50	263,101.66
Bill	03/20/2019	8429	Securasite LLC		14 Lenhart	97.44	263,199.10
Bill	03/20/2019	8443	Securasite LLC		14 Lenhart	908.80	264,107.90
Bill	03/20/2019	8442	Securasite LLC		20 Angel Falls	1,112.50	265,220.40
Bill	03/20/2019	8454	Securasite LLC		20 Angel Falls	1,801.54	267,021.94
Bill	03/20/2019	8453	Securasite LLC		05 Mount Scott	1,487.50	268,509.44
Bill	03/20/2019	8433	Securasite LLC		21 Oak Grove B...	481.25	268,990.69
Bill	03/20/2019	8456	Securasite LLC		07 Pete's	187.50	269,178.19
Bill	03/20/2019	8434	Securasite LLC		07 Pete's	655.33	269,833.52
Bill	03/20/2019	8435	Securasite LLC		40 All	506.25	270,339.77
Bill	03/20/2019	8462	Securasite LLC		40 All	185.02	270,524.79
Bill	03/20/2019	8464	Securasite LLC		08 Polivka	4,900.00	275,424.79
Bill	03/20/2019	8436	Securasite LLC		08 Polivka	629.17	276,053.96
Bill	03/20/2019	8437	Securasite LLC		13 Tom Dick an...	1,293.75	277,347.71
Bill	03/20/2019	8458	Securasite LLC		10 View Acres	93.75	277,441.46
Bill	03/20/2019	8438	Securasite LLC		10 View Acres	45.66	277,487.12
Bill	03/20/2019	8439	Securasite LLC		22 Whale Head	856.25	278,343.37
Bill	03/20/2019	8457	Securasite LLC		04 Wilsonville T...	243.75	278,587.12
Bill	03/20/2019	8450	Securasite LLC		04 Wilsonville T...	36.50	278,623.62
Bill	03/20/2019	8451	Securasite LLC		03 Damascus	687.50	279,311.12
Bill	03/21/2019	1603	Capital Design Services, LLC		17 Estacada D...	500.00	279,811.12
Bill	03/21/2019	1604	Capital Design Services, LLC		23 Goat Mountain	2,250.00	282,061.12
Bill	03/25/2019	5272	T3 Construction LLC		12 Crutcher Ben...	87,440.00	369,501.12
Bill	03/26/2019	IP0012...	BPS MaiCom LLC		26 CCOM	39,011.00	408,512.12
Bill	03/28/2019	1614	Capital Design Services, LLC		08 Polivka	600.00	409,112.12
Bill	03/28/2019	1614	Capital Design Services, LLC		14 Lenhart	600.00	409,712.12
Bill	03/28/2019	1615	Capital Design Services, LLC		07 Pete's	1,200.00	410,912.12
Bill	03/28/2019	1616	Capital Design Services, LLC		17 Estacada D...	300.00	411,212.12
Bill	03/28/2019	1617	Capital Design Services, LLC		15 Timberline	1,950.00	413,162.12
Bill	03/28/2019	1618	Capital Design Services, LLC		17 Estacada D...	1,750.00	414,912.12
Bill	03/28/2019	1619	Capital Design Services, LLC		24 Sawtell Fire ...	1,000.00	415,912.12
Bill	03/28/2019	1620	Capital Design Services, LLC		27 Hoodland Fire	2,800.00	418,712.12
Bill	03/28/2019	1621	Capital Design Services, LLC		14 Lenhart	3,500.00	422,212.12
Bill	03/29/2019	612443	Day Wireless Systems Inc.		40 All	2,914.00	425,126.12
Bill	03/29/2019	612491	Day Wireless Systems Inc.		10 View Acres	2,796.48	427,922.60
Bill	03/29/2019	612491	Day Wireless Systems Inc.		12 Crutcher Ben...	2,796.48	430,719.08
Bill	03/29/2019	612491	Day Wireless Systems Inc.		16 Canby	2,796.48	433,515.56
Total 703-011 · Land Improvement						433,515.56	433,515.56
<b>703-012 · Building</b>							
Bill	03/31/2019	96947.3	Todd Hess Building Company		05 Mount Scott	13,849.61	13,849.61
Bill	03/31/2019	96947.3	Todd Hess Building Company		06 Mtn View	13,849.62	27,699.23
Bill	03/31/2019	96947.3	Todd Hess Building Company		07 Pete's	13,849.61	41,548.84
Bill	03/31/2019	96947.3	Todd Hess Building Company		08 Polivka	13,849.62	55,398.46
Bill	03/31/2019	96947.3	Todd Hess Building Company		10 View Acres	13,849.61	69,248.07
Bill	03/31/2019	96947.3	Todd Hess Building Company		19 Day Hill	13,849.62	83,097.69
Bill	03/31/2019	96947.3	Todd Hess Building Company		26 CCOM	13,849.61	96,947.30
Total 703-012 · Building						96,947.30	96,947.30
<b>703-013 · Tower</b>							
Bill	03/05/2019	SI4801...	Lile International Companies		40 All	1,559.00	1,559.00
Total 703-013 · Tower						1,559.00	1,559.00
Total 703-01 · Buildings & Land Improvement						532,021.86	532,021.86
Total 703-00 · Capital Outlay						532,021.86	532,021.86
Total Expense						730,435.53	730,435.53
Net Ordinary Income						-730,005.58	-730,005.58
<b>Net Income</b>						<b>-730,005.58</b>	<b>-730,005.58</b>

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04/08/19

Accrual Basis

# Clackamas 800 Radio Group Profit & Loss Detail

March 2019

Type	Date	Num	Name	Memo	Class	Amount	Balance
Bill	03/20/2019	8446	Securasite LLC		40 All	243.75	252,175.48
Bill	03/20/2019	8461	Securasite LLC		40 All	1,320.44	253,495.92
Bill	03/20/2019	8463	Securasite LLC		02 Skyland/Coo...	7,290.00	260,785.92
Bill	03/20/2019	8448	Securasite LLC		12 Crutcher Ben...	612.50	261,398.42
Bill	03/20/2019	8455	Securasite LLC		03 Damascus	206.25	261,604.67
Bill	03/20/2019	8449	Securasite LLC		23 Goat Mountain	100.00	261,704.67
Bill	03/20/2019	8444	Securasite LLC		23 Goat Mountain	40.74	261,745.41
Bill	03/20/2019	8445	Securasite LLC		18 Highland Butte	175.00	261,920.41
Bill	03/20/2019	8452	Securasite LLC		27 Molalla Fire	293.75	262,214.16
Bill	03/20/2019	8430	Securasite LLC		27 Molalla Fire	887.50	263,101.66
Bill	03/20/2019	8429	Securasite LLC		14 Lenhart	97.44	263,199.10
Bill	03/20/2019	8443	Securasite LLC		14 Lenhart	908.80	264,107.90
Bill	03/20/2019	8442	Securasite LLC		20 Angel Falls	1,112.50	265,220.40
Bill	03/20/2019	8454	Securasite LLC		20 Angel Falls	1,801.54	267,021.94
Bill	03/20/2019	8453	Securasite LLC		05 Mount Scott	1,487.50	268,509.44
Bill	03/20/2019	8433	Securasite LLC		21 Oak Grove B...	481.25	268,990.69
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Bill	03/20/2019	8434	Securasite LLC		07 Pete's	655.33	269,833.52
Bill	03/20/2019	8435	Securasite LLC		40 All	506.25	270,339.77
Bill	03/20/2019	8462	Securasite LLC		40 All	185.02	270,524.79
Bill	03/20/2019	8464	Securasite LLC		08 Polivka	4,900.00	275,424.79
Bill	03/20/2019	8436	Securasite LLC		08 Polivka	629.17	276,053.96
Bill	03/20/2019	8437	Securasite LLC		13 Tom Dick an...	1,293.75	277,347.71
Bill	03/20/2019	8458	Securasite LLC		10 View Acres	93.75	277,441.46
Bill	03/20/2019	8438	Securasite LLC		10 View Acres	45.66	277,487.12
Bill	03/20/2019	8439	Securasite LLC		22 Whale Head	856.25	278,343.37
Bill	03/20/2019	8457	Securasite LLC		04 Wilsonville T...	243.75	278,587.12
Bill	03/20/2019	8450	Securasite LLC		04 Wilsonville T...	36.50	278,623.62
Bill	03/20/2019	8451	Securasite LLC		03 Damascus	687.50	279,311.12
Bill	03/21/2019	1603	Capital Design Services, LLC		17 Estacada D...	500.00	279,811.12
Bill	03/21/2019	1604	Capital Design Services, LLC		23 Goat Mountain	2,250.00	282,061.12
Bill	03/25/2019	5272	T3 Construction LLC		12 Crutcher Ben...	87,440.00	369,501.12
Bill	03/26/2019	IP0012...	BPS MaiCom LLC		27 Molalla Fire	39,011.00	408,512.12
Bill	03/28/2019	1614	Capital Design Services, LLC		08 Polivka	600.00	409,112.12
Bill	03/28/2019	1614	Capital Design Services, LLC		14 Lenhart	600.00	409,712.12
Bill	03/28/2019	1615	Capital Design Services, LLC		07 Pete's	1,200.00	410,912.12
Bill	03/28/2019	1616	Capital Design Services, LLC		17 Estacada D...	300.00	411,212.12
Bill	03/28/2019	1617	Capital Design Services, LLC		15 Timberline	1,950.00	413,162.12
Bill	03/28/2019	1618	Capital Design Services, LLC		17 Estacada D...	1,750.00	414,912.12
Bill	03/28/2019	1619	Capital Design Services, LLC		24 Sawtell Fire ...	1,000.00	415,912.12
Bill	03/28/2019	1620	Capital Design Services, LLC		27 Molalla Fire	2,800.00	418,712.12
Bill	03/28/2019	1621	Capital Design Services, LLC		14 Lenhart	3,500.00	422,212.12
Bill	03/29/2019	612443	Day Wireless Systems Inc.		40 All	2,914.00	425,126.12
Bill	03/29/2019	612491	Day Wireless Systems Inc.		10 View Acres	2,796.48	427,922.60
Bill	03/29/2019	612491	Day Wireless Systems Inc.		12 Crutcher Ben...	2,796.48	430,719.08
Bill	03/29/2019	612491	Day Wireless Systems Inc.		16 Canby	2,796.48	433,515.56
Total 703-011 · Land Improvement						433,515.56	433,515.56
<b>703-012 · Building</b>							
Bill	03/31/2019	96947.3	Todd Hess Building Company		05 Mount Scott	13,849.61	13,849.61
Bill	03/31/2019	96947.3	Todd Hess Building Company		06 Mtn View	13,849.62	27,699.23
Bill	03/31/2019	96947.3	Todd Hess Building Company		07 Pete's	13,849.61	41,548.84
Bill	03/31/2019	96947.3	Todd Hess Building Company		08 Polivka	13,849.62	55,398.46
Bill	03/31/2019	96947.3	Todd Hess Building Company		10 View Acres	13,849.61	69,248.07
Bill	03/31/2019	96947.3	Todd Hess Building Company		19 Day Hill	13,849.62	83,097.69
Bill	03/31/2019	96947.3	Todd Hess Building Company		26 CCOM	13,849.61	96,947.30
Total 703-012 · Building						96,947.30	96,947.30
<b>703-013 · Tower</b>							
Bill	03/05/2019	SI4801...	Lile International Companies		40 All	1,559.00	1,559.00
Total 703-013 · Tower						1,559.00	1,559.00
Total 703-01 · Buildings & Land Improvement						532,021.86	532,021.86
Total 703-00 · Capital Outlay						532,021.86	532,021.86
Total Expense						730,435.53	730,435.53
Net Ordinary Income						-730,005.58	-730,005.58
<b>Net Income</b>						<b>-730,005.58</b>	<b>-730,005.58</b>

# Clackamas 800 Radio Group

## Balance Sheet

As of March 31, 2019

	Mar 31, 19
<b>ASSETS</b>	
Current Assets	
Checking/Savings	
115-00 · Cash/Checking Account	703,772.06
Total Checking/Savings	703,772.06
Accounts Receivable	
11000 · Accounts Receivable	562,911.87
Total Accounts Receivable	562,911.87
Total Current Assets	1,266,683.93
Fixed Assets	
169-00 · CIP	8,003,794.52
160-00 · Buildings and Towers	10,956,645.15
165-00 · Radio Backbone	2,520,898.80
166-00 · Equipment	704,983.00
175-00 · Accumulated Depreciation	-10,958,322.09
Total Fixed Assets	11,227,999.38
Other Assets	
180-00 · Deferred O/F-P25 Maintenance	5,812,058.44
Total Other Assets	5,812,058.44
<b>TOTAL ASSETS</b>	<b>18,306,741.75</b>
<b>LIABILITIES &amp; EQUITY</b>	
Liabilities	
Current Liabilities	
Accounts Payable	
201-00 · Accounts Payable	728,681.93
Total Accounts Payable	728,681.93
Total Current Liabilities	728,681.93
Total Liabilities	728,681.93
Equity	
310-00 · Investment in Fixed Assets	11,227,999.38
320-00 · Retained Earnings, Prior	7,532,151.23
Net Income	-1,182,090.79
Total Equity	17,578,059.82
<b>TOTAL LIABILITIES &amp; EQUITY</b>	<b>18,306,741.75</b>

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04/08/19

**Clackamas 800 Radio Group**  
**A/R Aging Detail**  
**As of March 31, 2019**

	Type	Date	Num	Name	Due Date	Aging	Open Balance
<b>Current</b>							
Total Current							
<b>1 - 30</b>							
Total 1 - 30							
<b>31 - 60</b>							
Total 31 - 60							
<b>61 - 90</b>							
Total 61 - 90							
<b>&gt; 90</b>							
	Invoice	05/25/2018	17-153	Sandy Fire	05/25/2018	310	65,787.54
	Invoice	05/30/2018	17-156	Oregon City Police	05/30/2018	305	132,963.36
	Invoice	05/30/2018	17-159	Lake Oswego	05/30/2018	305	196,750.03
	Invoice	05/30/2018	17-160	American Medical Response	05/30/2018	305	79,180.14
	Invoice	07/31/2018	18-166	Canby FD	07/31/2018	243	11,481.80
	Invoice	07/31/2018	18-174	Hoodland Fire District	07/31/2018	243	13,378.00
	Invoice	07/31/2018	18-183	Sandy Fire	07/31/2018	243	35,421.00
	Invoice	07/31/2018	18-186	West Linn - Public Works	07/31/2018	243	18,920.00
	Invoice	07/31/2018	18-188	Boring Water	07/31/2018	243	860.00
	Invoice	07/31/2018	18-192	Clackamas County - Transportation Eng	07/31/2018	243	8,170.00
Total > 90							562,911.87
<b>TOTAL</b>							<b>562,911.87</b>





11300 SE Fuller Rd  
Milwaukie, Oregon 97222  
(503) 780-4806  
[CS00.org](http://CS00.org)

# **Clackamas 800 Radio Group**

**Fiscal Year 2019 / 2020**

**Proposed Budget**

April 24, 2019

C800 Budget Calendar 2019  
January 23, 2019

January 23, 2019	Appoint John Hartsock Budget Officer
February 19, 2019	Publish 1st Notice of Budget Committee Meeting
March 12, 2019	Publish 2nd Notice of Budget Committee Meeting
<b>March 20, 2019</b>	<b>Budget Committee Meeting</b>
April 2, 2019	Publish Notice of Budget Hearing
<b>April 24, 2019</b>	<b>Public Budget Hearing</b>
June 28, 2019	Submit Budget Document to Dept. of Revenue

# **2019/2020 BUDGET MESSAGE**

## **BACKGROUND**

The City of Canby, City of Gladstone, City of Lake Oswego, City of Milwaukie, City of Molalla, City of Oregon City, City of Sandy, City of West Linn, Canby Fire District, Clackamas Fire District Number 1, Colton Fire District, Estacada Fire District, Hoodland Fire District, Molalla Fire District, Sandy Fire District, Tualatin Valley Fire and Rescue, Clackamas County Sheriff, Clackamas County Health (herein after “Partners”) manage an ORS 190 organization named CLACKAMAS 800 RADIO GROUP (C800). The purpose of the CLACKAMAS 800 RADIO GROUP is to own and operate an effective and cost efficient 800MHz public safety communications system to support public safety to benefit and protect the citizens of Clackamas County.

The organizational and governance format provides an effective approach to public safety communications benefiting law enforcement, fire fighters, emergency medical service providers and the public they serve through a cooperative, partner-managed, information sharing, and communication systems/operations.

This is the eighteenth budget for C800. An initial budget was prepared in FY 2001/2002 but due to the system not being completed there were no operational funds expended. The system became operational in FY 2002/2003 and operational funds were collected and expended.

Clackamas County provided C800 the funding to construct the original 10 site 800MHz radio system. The C800 partners repaid the County through operating funds. In 2016 Clackamas County on behalf of C800 placed a ballot measure on the ballot for the voters of the County to authorize a \$59M general obligation bond to upgrade and expand the system. The measure passed with a 70% margin of approval. The upgrade project to move the system to P25 digital from analog and expand the system by 16 sites is currently underway.

Washington County Consolidated Communications Agency (WCCCA) provides technical management and maintains the radio system under an Intergovernmental Agreement.

## **GOAL**

The goal of C800 is to provide:

***"AN EFFECTIVE PUBLIC SAFETY VOICE AND DATA  
RADIO COMMUNICATIONS SYSTEMS OPERATING  
AT MAXIMUM EFFICIENCY -- DELIVERING  
QUALITY SERVICE -- IN THE MOST COST  
EFFECTIVE MANNER."***

## **FUNCTION OF THE CLACKAMAS 800 RADIO GROUP**

CLACKAMAS 800 RADIO GROUP is performing the following functions:

- A. Implementation of the goals and objectives as established by the C800 Board of Directors including development and implementation of long-range plans to the extent funds are appropriated for that purpose by the Partners.
- B. Adoption of an annual budget and approval of budget modifications as required.
- C. Review and evaluate efforts for effectiveness and conformance with established objectives short and long term.
- D. Approval of new Partners.
- E. Approval of Members who will utilize the radio system and determination of a fee schedule for this use.
- F. Approval of future phases of the Radio System build out including funding strategies for capital and operating costs, recognizing that this power of C800 does not obligate the Partners to participate in the funding or management of future phases assets.
- G. Select and retain personnel as deemed appropriate or required for C800's operations.
- H. Resolve operating problems of the Radio System as brought before the C800 Board.

## **EXPLANATION OF BUDGET**

To enable C800 to perform the above, the Board has directed that a budget be prepared as is allowed under statute for the ORS 190 organization. This is a "Council of Government Budget Process" per ORS 294.900 through ORS 294.930 (as amended 2012). As an ORS 190 organization, CLACKAMAS 800 RADIO GROUP is not permitted to levy taxes.

The revenue for the agency is derived from its Partner contributions, fees and charges instituted for other system users, site use agreements with other entities, grants, and loans.

The Board has adopted a funding formula based upon the number of radios programmed on the system. This formula takes the approved operating cost for C800 and divides it by the number of radios programmed onto the system. This per radio cost is then multiplied against the number of radios programmed by a particular agency on the system thus deriving that agency's cost.

## **FINANCIAL POLICY**

The financial policy of C800 is to run a fiscally sound cost conscience as well as an effective customer service organization. C800 operates on a modified accrual basis for accounting. The Board authorized the retention of the firm Talbot, Korvola, & Warwick, LLP to provide accounting services. Clackamas Fire District provides oversight of payments made on C800's behalf.

C800's budget is being used to operate and maintain the radio system as well as to shape the agency and determine its long-term mission and objectives. Washington County Consolidated Communications Agency (WCCCA) provides technical system management and maintenance of the radio system through an Intergovernmental Agreement with C800.

Personnel loaned by the Partners, consultants, and various vendors perform other duties and services required. Currently there are no personnel retained by the C800 as employees.

### **FINANCIAL POLICY FEATURES**

As outlined above services for the agency will be contracted for or provided by other governmental entities, private sector resources, or Partner agencies by direction of the Board. Likewise, the Board will approve material and service costs as required.

### **CHANGES FROM PREVIOUS BUDGET**

The following outlines the changes from the approved FY 2018/2019. Materials and Services have increased by 14.9%. Changes include: a) annual increases in radio site property leases in accordance with lease terms and the addition of sites (10.3 %); b) Generator fuel due to the site additions and increase fuel storage at the sites (50%) c) HVAC Maintenance due to added sites 57.9% d) Landscape maintenance due to added sites (30.1%) e) Generator Maintenance due to added sites (81.2%) f) Insurance cost (5.7%) g) Utility costs (23.1%); h) WCCCA system fees have increased (13.8%) due to the additional radio counts; i) radio maintenance cost due to aging equipment (5.4%); j). estimated legal fees due to the construction project (37.5%)

C800 and WCCCA are jointly working on the radio replacement project which includes upgrading the current radio system from analog to digital, improving coverage, and enhancing performance. This project was required due to system age, technology advancements, and the inability to support the current system into the future.

The per radio cost has remained the same from the FY 18/19 of \$430 per radio. The cost of \$43.77 per radio for the zone controller upgrade has expired.

### **CHANGES IN FINANCIAL POLICY**

A financial policy has been prepared and approved by Board and there have been no changes.

### **CONCLUSION**

Clackamas 800 Radio Group continues to be an excellent opportunity for the political and public safety jurisdictions; and public safety answering points and dispatch centers; fire and law enforcement and emergency medical service providers; and the citizens of Clackamas County, its cities and districts served by C800. As outlined above C800 is participating with WCCCA to start implement the upgrade to the Public Safety voice and data radio system across Clackamas and Washington County.

**CLACKAMAS 800 RADIO GROUP will provide:**

**"Superiority in Emergency Communications – because a life is reason enough"**

# Clackamas 800 Radio Group

April 24, 2019

## FY 2019 / 2020 Budget

### Revenue

Account #	Account Description	Actual FY 16/17	Actual FY17/18	Budget FY18/19	Estimated Final FY 18/19	Proposed FY 19/20	Approved by Budget Committee	Adopted by Governing Board	Increase from FY 18/19
401-00	Cash Resources	21,328	179,220	531,933	7,532,734	7,812,283	7,812,283		3.6%
405-00	Members Contracts	58,040	65,831	61,060	60,200	64,070	64,070		6.0%
410-00	Partners Fees	847,710	938,012	953,418	988,248	951,268	951,268		-3.9%
420-00	Partners Debt Service Zone Con	95,624	93,689	93,689	93,689	0	0		0.0%
421-00	Partners Debt Service Microwave	52,388	0	0	0	0	0		0.0%
430-00	Subscriber Radio Payments	0	2,385,101	200,000	395,000	100,000	100,000		-295.0%
431-00	Interest Income	12	121	2,000	150	500	500		70.0%
435-00	Lease Income	46,518	13,405	46,846	46,846	48,140	48,140		2.7%
440-00	Miscellaneous Income	18,142	91	1,000	500	1,000	1,000		50.0%
450-00	Bond Proceeds	1,876,970	15,606,939	20,000,000	21,650,000	31,500,000	31,500,000		31.3%
455-00	Bond Interest Income	0	0	400,000	0	500,000	500,000		100.0%
	<b>Total Revenue</b>	<b>3,016,732</b>	<b>19,282,409</b>	<b>22,289,946</b>	<b>30,767,367</b>	<b>40,977,260</b>	<b>40,977,261</b>	<b>0</b>	<b>24.9%</b>

### Expense

Account #	Account Description	Actual FY 16/17	Actual FY17/18	Budget FY18/19	Estimated Final FY 17/18	Proposed FY 18-19	Approved by Budget Committee	Adopted by Governing Board
<b>Personnel</b>	Salary	0	0	0	0	0	0	0
	Benefits	0	0	0	0	0	0	0
	<b>Total Personnel</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

# Clackamas 800 Radio Group

April 24, 2019

## FY 2019 / 2020 Budget

Account #	Account Description	Actual FY 16/17	Actual FY17/18	Budget FY18/19	Estimated Final FY 18/19	Proposed FY 19-20	Approved by Budget Committee	Adopted by Governing Board	Increase from FY 18/19
<b>Materials and Services</b>									
605-00	Site Rental	166,487	136,561	159,597	164,913	173,838	173,838		5.1%
610-00	Fuel / Generators	0	0	15,000	13,000	26,000	26,000		50.0%
615-00	HVAC Maintenance	7,976	6,442	7,000	5,000	9,503	9,503		47.4%
620-00	Landscape Maintenance	3,810	4,710	7,500	10,000	14,300	14,300		30.1%
621-00	Office Supplies	1,900	140	3,000	500	2,000	2,000		75.0%
625-00	Generator Maintenance	10,026	11,381	9,000	2,500	12,500	12,500		80.0%
630-00	UPS Maintenance	5,963	1,530	2,000	2,000	13,500	13,500		85.2%
635-00	Battery Maintenance	0	0	6,500	2,500	3,000	3,000		16.7%
645-00	Insurance	23,273	24,238	28,860	33,000	35,000	35,000		5.7%
650-00	Utilities	56,092	59,778	157,500	60,000	78,000	78,000		23.1%
665-00	Consultant Services	30,677	34,602	38,400	57,200	48,500	48,500		-17.9%
657-00	Regional Radio	0		1,500	0	1,500	1,500		100.0%
660-00	WCCCA System Fees	567,119	695,404	735,332	746,950	866,769	866,769		13.8%
665-00	Radio Maintenance Fees	36,514	64,417	60,000	85,632	90,000	90,000		4.9%
667-00	Radio Replacement Proj	0	0	0	0	0	0		0.0%
670-00	Legal Services	4,456	13,738	8,000	10,000	8,000	8,000		-25.0%
675-00	Financial Services	7,837	6,908	8,500	8,400	8,500	8,500		1.2%
680-00	Audit Fees	6,175	5,850	7,500	6,300	7,000	7,000		10.0%
685-00	Miscellaneous Cost	8,134	2,655	8,052	2,500	5,000	5,000		50.0%
686-00	Meeting Expense / Web	0	388	2,000	1,000	1,150	1,150		13.0%
	<b>Total Material and Services</b>	<b>936,439</b>	<b>1,068,742</b>	<b>1,265,241</b>	<b>1,211,395</b>	<b>1,404,060</b>	<b>1,404,060</b>	<b>0</b>	<b>13.7%</b>
Account #	Account Description	Actual FY 16/17	Actual FY17/18	Budget FY18-19	Estimated Final FY 18-19	Proposed FY 19-20	Approved by Budget Committee	Adopted by Governing Board	Increase from FY 18/19
683-00	Capital Reserve	0	0	100,000	0	100,000	100,000		100.0%
703-00	Capital Outlay	1,390,423	10,587,245	20,600,000	21,650,000	31,500,000	31,500,000		31.3%
795-00	Debt Service	510,650	93,688	94,000	93,689	0	0		0.0%
800-00	Operating Contingency	0	0	50,000	0	75,000	75,000		100.0%
	<b>Ending Fund Balance</b>	<b>179,220</b>	<b>7,532,734</b>	<b>180,704</b>	<b>7,812,283</b>	<b>7,898,201</b>	<b>7,898,201</b>		<b>1.1%</b>
	<b>TOTAL EXPENSE</b>	<b>3,016,732</b>	<b>19,282,409</b>	<b>22,289,945</b>	<b>30,767,367</b>	<b>40,977,260</b>	<b>40,977,260</b>	<b>0</b>	<b>24.9%</b>

# CLACKAMAS COUNTY 800 MHz RADIO SYSTEM

## Cost Allocation FY 19/20

April 24, 2019

PARTNER AGENCIES	Attention		TOTAL VOICE RADIOS FY 17/18	Annual Operating Cost per voice radio @	FY 18/19 Increase		FY 18/19 Cost
				\$ 430.00			
Clackamas County Health (AMR)	Philip Mason		27	11,610	(1,183)	-9.2%	12,793
Boring Fire Dist.	DeAnn Henry		0	-	0		0
Canby Fire	Jim Davis		69	29,670	(3,497)	-10.5%	33,167
Canby Police	Bret Smith	<a href="mailto:troj@ci.canby.or.us">troj@ci.canby.or.us</a>	61	26,230	(5,516)	-17.4%	31,746
Clackamas Sheriff	Nancy Artmann	<a href="mailto:bhass@co.clackamas.or.us">bhass@co.clackamas.or.us</a>	743	319,490	(32,559)	-9.2%	352,049
Clackamas Fire Dist. #1	DeAnn Henry	<a href="mailto:deannhen@ccfd1.com">deannhen@ccfd1.com</a>	330	141,900	(13,513)	-8.7%	155,413
Colton Fire			39	4,193	(1,407)	-25.1%	5,599
Estacada Fire	Bob Morrisey		57	24,510	2,714	12.5%	21,796
Gladstone Police	Jim Pryde		44	18,920	1,862	10.9%	17,058
Gladstone Fire	Mike Funk		40	17,200	(5,070)	-22.8%	22,270
Hoodland Fire	John Ingrao		59	12,685	(774)	-5.8%	13,459
Lake Oswego Police	Leslie Taylor		107	46,010	(6,110)	-11.7%	52,120
Lake Oswego Fire	Leslie Taylor		88	37,840	(1,013)	-2.6%	38,853
Lake Oswego Public Works	Leslie Taylor		54	23,220	4,300	22.7%	18,920
Milwaukie Police			75	32,250	(14,658)	-31.2%	46,908
Milwaukie Public Works			48	20,640	1,290	6.7%	19,350
Molalla Police	Rod Lucich	<a href="mailto:finance2@molalla.net">finance2@molalla.net</a>	37	15,910	748	4.9%	15,162
Molalla Fire	Vince Stafford		75	32,250	(2,339)	-6.8%	34,589
Oregon City Police	Jim Bend		102	43,860	742	1.7%	43,118
Sandy Fire	Phil Schneider		66	28,380	(6,683)	-19.1%	35,063
Sandy Police	Ernie Roberts		46	19,780	(1,068)	-5.1%	20,848
West Linn Police	Niel Hennley	<a href="mailto:gbierg@westlinnoregon.gov">gbierg@westlinnoregon.gov</a>	48	20,640	(11,106)	-35.0%	31,746
West Linn Public Works	Jeff Randall		26	11,180	(7,740)	-40.9%	18,920
TVF&R / West Linn Fire		<a href="mailto:accountspayable@tvfr.com">accountspayable@tvfr.com</a>	30	12,900	6,740	109.4%	6,160
Wilsonville - PW / Transit			74	31,820	31,820	100.0%	0
<b>TOTAL</b>			<b>2,271</b>	<b>951,268</b>	<b>(95,840)</b>	<b>-9.2%</b>	<b>1,047,107</b>



# CLACKAMAS COUNTY 800 MHZ RADIO SYSTEM

## Cost Allocation FY 19/20

April 24, 2019

MEMBER AGENCIES	Attention		TOTAL VOICE RADIOS FY 17/18	Annual Operating Cost per voice radio @	FY 18/19 Increase		FY 18/19 Cost
Boring Water District	Larry Alexander		2	860	0	0.0%	860
CC Community Corrections	Cris Hoy		53	22,790	0	0.0%	22,790
CC District Attorney	Sarah Brown		3	1,290	0	0.0%	1,290
CC Dog Services			5	2,150	0	0.0%	2,150
Clackamas Co Transp/Weigh	Joe Marek		26	11,180	3,010	36.8%	8,170
Clackamas Co Code/Environ	Sandy Hamilton		4	1,720	0	0.0%	1,720
CC Medical Examiner	Cathy Phelps	<a href="mailto:cathyphe@co.clackamas.or.us">cathyphe@co.clackamas.or.us</a>	4	1,720	0	0.0%	1,720
CC Juvenile	Ellen Crawford		4	1,720	0	0.0%	1,720
CC Community College	Bob Cochran		8	3,440	0	100.0%	3,440
City of Happy Valley	Steve Campbell		11	4,730	0	0.0%	4,730
Clackamas River Water	Lee Moore		6	2,580	0	0.0%	2,580
Lake Oswego Lake Corp	Christian Stauffer		10	4,300	0	0.0%	4,300
Sunrise Water Authority			12	5,160	0	0.0%	5,160
Willamette Shore Trolley	John Nagy		1	430	0	0.0%	430
<b>TOTAL</b>			<b>149</b>	<b>64,070</b>	3,010	#REF!	<b>61,060</b>

2,420

CCOM			169	0
LOCOM			34	0

# COUNTY

## 800 MHz RADIO

### NUMBER OF PUBLIC SAFETY RADIOS

April 24, 2019

As of 2/21/19  
APX Other

AGENCY	Radios
Partners	USER
Clackamas County / AMR	27
Boring Fire Dist.	0
Canby Fire	69
Canby Police	61
Clackamas Sheriff	743
Clackamas Fire Dist. #1	330
Colton Fire	39
Estacada Fire	57
Gladstone Police	44
Gladstone Fire	40
Hoodland Fire	59
Lake Oswego Police	107
Lake Oswego Fire	88
Lake Oswego Public Works	54
Milwaukie Police	75
Milwaukie Public Works	48
Molalla Police	37
Molalla Fire	75
Oregon City Police	102
Sandy Fire	66
Sandy Police	46
West Linn Police	48
West Linn Public Works	26
West Linn Fire / TVF&R	30
Wilsonville PW/Transit	74
<b>Total Partners</b>	<b>2,345</b>

27	5
1	1
69	10
61	57
739	440
330	80
39	37
57	9
44	19
40	36
59	64
107	78
88	58
54	44
75	31
48	44
37	15
75	30
102	29
66	56
46	2
48	31
26	43
<b>2238</b>	<b>1,219</b>

Members	USER
Boring Water District	2
CC Comm Corrections	53
CC District Attorney	3
CC Dog Services	5
Clackamas County Transp	26
Clackamas Cnty Code/Envi	4
CC Medical Examiner	4
CC Juvenile	4
CC Community College	8
City of Damascus	0
City of Happy Valley	11
Clackamas River Water	6
Lake Oswego Lake Corp	10
Sunrise Water Authority	12
Willamette Trolley	1
<b>Total Members</b>	<b>149</b>

2	2
50	3
3	3
10	0
26	19
4	3
6	2
5	0
0	6
0	0
14	11
0	6
11	8
0	12
1	3
<b>132</b>	<b>78</b>

Transp 2	DTD 12	Weigh 5
code 2 Ptbl	comm 2	
code 1 Mbl		

<b>TOTAL BILLABLE</b>	<b>2,494</b>
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<b>2370</b>	<b>1297</b>
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COUNTY

800 MHz RADIO

NUMBER OF PUBLIC SAFETY RADIOS

Mutual Aid			
Amtrak	1	1	0
Aurora Fire	15	0	15
CC Emergency Mgmt	10	10	3
Monitor Fire	13	0	13
ODFW	11	0	11
Reach Medi-Plane	5	3	4
Silverton Fire District	5	0	5
USFS	14	15	0
Woodburn Fire	2	0	2
Total Mutual Aid	76	29	53
GRAND TOTAL	2,570	2399	1350
CCOM	169	121	137
LOCOM	34	32	23
Total w/ Dispatch	2,773	2552	1510

# 800 MHz RADIO SYSTEM

## Radio Site Locations - Site Lease Cost

April 24, 2019

1	Barton	11,124.00
2	Cooks Butte	0.00
3	Damascus	15,735.27
4	Wilsonville	13,112.72
5	Mt Scott	0.00
6	Mt View Water Tank	0.00
7	Petes Mountain	16,802.90
8	Polivka	6,992.70
9	Sandy	13,112.72
10	View Acres	25,250.00
11	Brightwood	0.00
12	Crutcher	0.00
13	Tom Dick & Harry	0.00
14	Lindhart	0.00
15	Timberline	0.00
16	Canby	13,112.72
17	Day Hill	17,389.11
18	Highland	0.00
19	Redland Rd	13,711.16
20	Memaloose	0.00
21	Oak Grove	0.00
22	Whalehead	0.00
23	Goat Mountain	27,504.22
24	Sawtell	0.00
25	Neer Rd	0.00
26	CCOM	0.00
27	Hoodland/Brightwood	0.00
28	LOCOM	0.00
29	Lake Oswego / Canterbury	In Radio Cost
Total		\$ 173,847.52

OWNER	LOCATION	Lease Cost	Lease Terms	2019/20 Payment	Payment Due	Lease Renewal
	Site Address					
McKenzie Family Trust Land Holdings PO Box 1148 Welches, OR 97067	Barton Parcel # 00640480	\$10,800 per year 3% per yar escalation / Due Jan 1	Signed 1/31/18 10 years w/ 4-5 year options	\$11,124.00	Jan 1, 2020	1/31/2028
City of Lake Oswego 351 1st Street Lake Oswego, OR 97037 (503) 635-0252 Leslie Taylor	Cooks Butte Park	\$1 per year	Signed April 20, 2018 10 years w/ 4-5 year options	\$ -		4/20/2028 4/20/3033 4/20/2038 4/20/2043
Nicholas and McKenie Chully 9330 SE Wooded Hills Ct Damascus, Or 97089	Damascus Tax Lot 13E28B-01401	\$14,400 Per Year 3% per year escalation / Due Jan 1	Signed 2/20/2017 10 years w/ 4 - 5 year options	\$15,735.27	Jan 1, 2020	1/1/2027
City of Wilsonville 25799 SW Town Center Loop E Wilsonville 97070	Tax lot 502, Section 1, T3S, R1W, W.M	\$12,000 Per Year 3% per year escalation / Due Jan 1	Signed ----- 10 years w/ 4 - 5 year options	\$13,112.72		1/1/2028
Oregon Department of Transportation 455 Airport Road SE Salem, OR 97301-5375 (503)731-8427 Rolland Arnev	Mt. Scott 10999 Ridgeway Dr Happy Valley	Trading tower space for land lease	Signed 2/1/02 25 years	\$0.00		1/31/2027
City of Oregon City 320 Warner Milne Rd Oregon City, OR 97045 (503) 657-0891 Nancy Kraushaar	Mt. View Water Tank 415 Mountain View St. Oregon City	\$1.00 per year System Partner	10 Year Lease / No date on lease - assume Aug 26, 2003 w/ two five year options	\$0.00		8/26/2013 8/26/2018 8/26/2023

7	BBS Property Mgmt Lewis Snader 918 Schaeffer Rd West Linn, OR 97068 (503) 705-7994	Pete's Mountain 1775 Schaeffer Rd West Linn	\$12,000 per year / 2% per year escalation - Due January 1	Signed 8/7/01 10 yrs w/ 2 5yr options	\$16,802.90	Jan 1, 2020	7/6/2011 7/6/16 7/6/2021
8	Boring Water Dist PO Box 66 Boring, OR 97009 (503) 663-4594 Larry Alexander	Polivka Hill Water Tank 26230 Wally Rd Boring	\$4,800 per year 2% per year escalation Due January 1	Signed 8/7/01 10 years w/ 2 - 5yr options	\$6,992.70	Jan 1, 2020	7/30/2011 7/30/2016 7/30/2021
9	Darren Mc Ara/Tami McAra /Brenda Tinjurn/Robert Lux 3516 Kelso Rd Boring, OR 97009	Sandy 38275 Marcy St Sandy, OR 97055	\$12,000 Per Year 3% per year escalation / Due Jan 1	Signed 9/19/2016 10 years w/ 4 - 5 year options	\$13,112.72	Jan 1, 2020	9/1/2026 9/1/2031 9/1/2036 9/1/2041
10	Oak Lodge Water District 14496 SE River Road, Milwaukie OR 97267 (503) 654-7765 Katherine Willis	View Acres 4410 SE View Acres Milwaukie	\$25,000 per year /1% per year escalation	Signed 3/26/18 20 years w/ 2 - 5yr options	\$ 25,250.00	June 30, 2019	7/1/2037 7/1/2042 7/1/2047
11	US Dept of Interior Salem Dist Office 1717 Fabry Stree SE Salem 97306	Brightwood WM T2S R6E S14 SW1/4 NE1/4 SE1/4 NE1/4	\$0	Signed 5/1/06 20 years request new lease in 2025	\$0.00		4/1/2026
12	US Dept of Interior Salem Dist Office 1717 Fabry Stree SE Salem 97306	Crutcher Bench	\$0	Signed 2/1/18 25 years request a new lease in 2043	\$0.00		12/31/2043
13	US Dept of Agriculture Forest Service Mt Hood National Forest 16400 Champion Way Sandy, OR 97055	Tom Dick & Harry	\$0		\$0.00		
14	State of Oregon Department of Forestry North Cascade District 22965 N Fork Road SE Lyons, OR 97358 Gregg Cline	Lenhart Butte Tax lot 400 SW1/4 of NW1/4 of SW1/4 of S35 T2S R5 WM	\$0	Signed 8/11/05 10 years w/ 5 year extensions	\$ -		7/11/2015 7/11/2020 7/11/2025
15	US Dept of Agriculture Forest Service Mt Hood National Forest 16400 Champion Way Sandy, OR 97055	Timberline WM S6, T 3S, R 9E	\$0	Signed 10/21/2013 29 years request new lease in 2040	\$ -		1/1/2042
16	Zimmer Family Limited Trust 28485 S Sundowner Court Canby, OR 97013	Canby Parcel # 00797828 Canby, OR 97013	\$12,000 Per Year 3% per year escalation / Due Jan 1	Signed 7/29/2016 10 years w/ 4 - 5 year options	\$13,112.72	Jan 1, 2020	8/1/2026 8/1/2031 8/1/2036 8/1/2041
17	Cascade Utilities Inc d/b/a Reliance Connects PO Box 189 Estacada, OR 97023	23151 S. Day Hill Road Estacada, OR 97023	\$15,000 per year w/ a 3% adjustment annually	Signed 7/13/15 10Years w/ 4 5 year options	\$17,389.11	Jan 1, 2020	1/1/2025
18	US Dept of Interior Salem Dist Office 1717 Fabry Stree SE Salem 97306	Highland Butte	\$0	Signed 2/1/18 29 years request a new lease in 2047	\$0.00		12/31/2047

19	Ruth E Staats Trust 20062 S. Redland Rd Oregon City, OR 97045 971 563-1983 3RVision@gmail.com David Staats	Redland Road 20062 S. Redland Rd Oregon City	\$9,600 per year 2% per year escalation Due January 1	Signed 8/30/01 10 years w/ 2 - 5yr options	\$13,711.16	Jan 1, 2020	7/30/2011 7/30/2016 7/30/2021
20	US Dept of Agriculture Forest Service Mt Hood National Forest 16400 Champion Way Sandy, OR 97055	Memaloose	\$0		\$0.00		
21	US Dept of Agriculture Forest Service Mt Hood National Forest 16400 Champion Way Sandy, OR 97055	Oak Grove Butte	\$0		\$0.00		
22	US Dept of Agriculture Forest Service Mt Hood National Forest 16400 Champion Way Sandy, OR 97055	Whale Head	\$0		\$0.00		
23	Weyerhaeuser Company 37904 Brewster Road Lebanon, OR 97355 Attn: Land Use Manager	Goat Mt. T55 R2E Sect 7 Lots 3900 & 4000	\$12,000 per year 5% per year escalation Due July 29	Signed 10/23/02 10 years w/ 2 - 5yr options	\$ 27,504.22	July 29, 2019	9/22/2012 9/22/2017 9/22/2022
24	Molalla Fire District 320 N Molalla Ave Molalla, OR 97038 Stafford	Viince Sawtell 36715 S Sawtell RD Molalla, OR 97038	\$0	Signed 6/6/16 5 years w/ 5- 5 year extensions	\$0.00		6/6/2021 5/5/2026 5/5/2031 5/5/2036 5/5/2041 5/5/2046
25	City of Lake Oswego 351 1st Street Lake Oswego, OR 97037 (503) 635-0252 Leslie Taylor	Neer Rd			\$ -		
26	Clackamas County 901 Main St, Oregon City, OR 97045 (503) 655-8581 County Administrator	CCOM Prime Site 2200 Kaen Rd, Oregon City	\$0 County Owned Property	No Lease	\$0.00		None
27	Hoodland Fire	Brightwood Station					
28	City of Lake Oswego 351 1st Street Lake Oswego, OR 97037 (503) 635-0252 Leslie Taylor	LOCOM Dispatch Site 351 1st Street Lake Oswego	\$0 City Owned Property	No Lease	\$0.00		None
29	WCCCA PO Box 6375 Beaverton, OR 97007 (503) 690- 4911 ext 272 Dave Austin	WCCCA Site - Canterbury Lane - Share Lease/Maintenance Costs 10310 SW Canterbury Ln	Part of WCCCA IGA		In Radio Cost		None

WCCCA FY 2019/20 Radio System Maintenance Cost

1/16/2019

Description			Proposed WCCCA Budget		WCCCA Allocation		C800		2018/2019	% Chg	Newberg PD		Columbia County		Columbia County shares % of Depart \$ based upon Zone Controller support allocation.
Personnel: Radio Services			1,392,845		57.30% \$ 800,369		41.3% \$575,050		492,492	16.76%	1.3%	17,426	0.0%	\$ -	
Dept	Object#	Materials & Services					% of Radios				% of Radios		% of Radios		
Radio Department															
572	5300	Office Supplies	1,541		100%	1,541		-	953	-100.00%			0.0%	-	WCCCA
572	5301	Radio Supplies - Shop	12,000		82%	9,850	16.7%	2,000	0	100.00%	1.3%	150	0.0%	-	WCCCA Newberg
572	5303	Uniforms	3,750		57%	2,155	41.3%	1,548	1,451	6.70%	1.3%	47	0.0%	-	All Shared
572	5323	Food	250		57%	144	41.3%	103	104	-0.75%	1.3%	3	0.0%	-	All Shared
572	5330	Non Capital Furn & Equip	10,256		57%	5,893	41.3%	4,234	1,161	264.71%	1.3%	128	0.0%	-	All Shared
572	5340	Software Upgrades	2,700		57%	1,551	41.3%	1,115	1,119	-0.38%	1.3%	34	0.0%	-	All Shared
572	5350	Fuel (Vehicles)	9,120		57%	5,241	41.3%	3,765	3,730	0.95%	1.3%	114	0.0%	-	All Shared
572	5360	Radio Supplies - Infrastructure	73,018		94%	68,724	5%	3,380	1,538	119.80%	1.3%	914	0.0%	-	C800 Share only one shared site.
572	5363	M & R Vehicles	12,000		57%	6,896	41.3%	4,954	5,388	-8.05%	1.3%	150	0.0%	-	All Shared
572	5368	Maintenance Agreements	127,100		94%	119,626	5%	5,884	4,615	27.50%	1.3%	1,590	0.0%	-	C800 Share only one shared site.
Contracts / Professional Services															
572	5430	Telephone	96		57%	55	41.3%	40	0	100.00%	1.3%	1			
572	5431	Admin. Telephone	5,200		57%	2,988	41.3%	2,147	2,102	2.13%	1.3%	65	0.0%	-	All Shared
572	5461	Training	3,145		57%	1,807	41.3%	1,298	1,285	1.05%	1.3%	39	0.0%	-	All Shared
572	5462	Travel Expenses	6,900		57%	3,965	41.3%	2,849	1,617	76.17%	1.3%	86	0.0%	-	All Shared
572	5472	Employee Recognition	300		57%	172	41.3%	124	0	100.00%	1.3%	4			All Shared
572	5500	Dues & Subscriptions	590		57%	339	41.3%	244	207	17.68%	1.3%	7	0.0%	-	All Shared
572	5510	Shipping & Postage	500		57%	287	41.3%	206	187	10.39%	1.3%	6			
572	5572	Advertising/Public Notices	500		57%	287	41.3%	206	0	100.00%	1.3%	6			
Facility/ Tower Department															
600	5300	Office Supplies	1,000		100%	1,000		-				-	0.0%	-	WCCCA
600	5330	Non Capital Furn & Equip	2,600		57%	1,494	41.3%	1,073	1,907	-43.71%	1.3%	33	0.0%	-	All Shared
600	5350	Fuel (Sites)	25,000		94%	23,530	5%	1,157	1,000	15.74%	1.3%	313	0.0%	-	C800 Share only one shared site.
600	5361	M & R Facility/Sites	61,000		94%	57,413	5%	2,824	2,227	26.81%	1.3%	763	0.0%	-	C800 Share only one shared site.
600	5362	M & R Tower Sites Facilities	16,300		94%	15,341	5%	755	904	-16.52%	1.3%	204	0.0%	-	C800 Share only one shared site.
600	5368	Maintenance Agreements	72,500		99%	71,593		-			1.3%	907	0.0%	-	C800 Share only one shared site.
600	5413	Contracted Services	6,500		94%	6,118	5%	301	3,331	-90.97%	1.3%	81	0.0%	-	C800 Share only one shared site.
600	5416	Building Maintenance	52,000		94%	48,942	5%	2,407	1,923	25.19%	1.3%	651	0.0%	-	C800 Share only one shared site.
600	5432	Heat/Energy	4,500		94%	4,235	5%	208	177	17.70%	1.3%	56	0.0%	-	C800 Share only one shared site.
600	5433	Electricity	145,000		94%	136,473	5%	6,713	5,077	32.22%	1.3%	1,814	0.0%	-	C800 Share only one shared site.
600	5434	Water Sewer	18,000		94%	16,941	5%	833	615	35.50%	1.3%	225	0.0%	-	C800 Share only one shared site.
600	5436	Garbage	2,800		94%	2,635	5%	130	96	35.03%	1.3%	35	0.0%	-	C800 Share only one shared site.
600	5445	Rent for Site Leases	120,000		94%	112,943	5%	5,556	4,849	14.57%	1.3%	1,501	0.0%	-	C800 Share only one shared site.
600	5510	Shipping & Postage	200		94%	188	5%	9	0	100.00%	1.3%	3			
Subtotal Radio Services M&S Budget			\$ 796,366		\$ 730,369		\$ 56,066	\$ 47,563	17.88%		\$ 9,931		\$ -		
1 New Tech Vehicle + 1 Replacement			74,000		42,523		30,552	8,290	268.54%		926				
Contingency for Battery replacements			20,000		20,000		-				-		-		
Total Capital Outlay			\$ 94,000		\$ 62,523		\$ 30,552	8,290	268.54%		\$ 926		\$ -		
WCCCA Radio System Overhead Allocation			\$ 542,594		\$ 311,790		41.3% 224,015	217,171	3.15%		1.3% \$ 6,788		0.0% \$ -		All Shared
on-related Administrative Overhead Backout of C800			18,914		18,677		(18,914)	(18,914)	0.00%		1.3% 237				
Legal, Contract Svcs, Business Misc, Adv. Com. Ed															
TOTALS			\$ 2,825,805		\$ 1,923,728		\$ 866,769	\$ 746,602	16.10%		\$ 35,308		\$ -		
System Cost per Radio			\$ 411		SubLease Re \$ (112,168)								#REF!		\$ (112,168)
					Maint. Rev \$ (23,000)								#REF!		
					WCCCA to Recover \$ 1,788,560								#REF!		
							C800 Cost				Newberg PD		Columbia County		
1/12/2018 RADIO COUNTS							FY 19/20 \$866,769	\$746,602	16.10%		FY 19/20 \$ 35,308		FY 17/18 #REF!		
WCCCA			3,950	57.5%			Qtrly Bills \$216,692	\$186,650	16.10%		Qtrly Bills \$ 8,827		Qtrly Bills #REF!		
C800			2,838	41.3%											
														C800 Radio Annual Fees	
														FY 12/13	430,090
														FY 13/14	467,841 8.8%
														FY 14/15	480,108 2.6%
														FY 15/16	528,134 10.0%

Newberg PD	86	1.3%
Total System Radio Count	6,874	100.0%

WCCCA MEMBERS, ASSOCIATES and NON-MEMBER Radio Fees						
	FY 2018-19	15.67%	FY 2019-20	Radio #	\$ Totals	
Members & Associates	\$ 374.21	\$ 57.65	\$ 431.86	3,555	\$ 1,535,265	
Non-Members	\$ 582.41	\$ 58.84	\$ 641.25	395	\$ 253,295	
				3,950	\$ 1,788,560	

FY 16/17	567,119	7.4%
FY 17/18	695,405	22.6%
FY 18/19	762,118	24.6%
FY 19/20	866,769	13.7%
Contract \$ amount change	104,651	

WCCCA MEMBERS, ASSOCIATES and NON-MEMBER /Radio Fee							
	Current	Revenue	% increase	Revenue	2019-2020		
	Radio Ct	FY 18-19	15.67%	FY 19-20	New Rate	\$ Increase	FY18/19
members	3555	1,327,324	207,941	\$ 1,535,265	\$ 431.86	\$ 57.65	\$ 374.21
non-members	395	218,988	34,307	\$ 253,295	\$ 641.25	\$ 58.84	\$ 582.41
	3950	1,546,312	242,248	\$ 1,788,560			

weighted avg

\$ 0





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

## Board of Directors Action Request

**To:** C800 Board of Directors  
**From:** John Hartsock, Manager  
**Date:** April 24, 2019  
**Re:** Approval of Budget for FY 2019 / 2020

~~~~~  
**REQUEST:** It is hereby requested that the C800 Board of Directors approve Resolution 01-19 adopting the budget for the Clackamas 800 Radio Group in the amount of \$40,977,260 for FY 2019/2020.

**HISTORY:** As required by Oregon Revised Statutes the C800 Board of Directors formed a Budget Committee comprised of the Board members to review the budget as proposed by staff. John Hartsock presented the budget to the Budget Committee on March 20, 2019. The Budget Committee approved the budget as submitted and recommended that the Board adopt the budget.

**FINANCE:** This action will establish the budget for C800 for FY 2019 / 2020

**LEGAL:** The process has been conducted in accordance with the requirements of the State of Oregon.

**RECOMMENDATION:** It is recommended that the C800 Board of Directors approve Resolution 01-19 adopting the budget for the Clackamas 800 Radio Group in the amount of \$40,977,260 for FY 2019/2020.



## RESOLUTION 01-19

April 24, 2018

**BE IT RESOLVED** that the Board of Directors of the Clackamas 800 Radio Group hereby adopts the budget for Fiscal Year 2019– 2020 in the amount of Forty Million, Nine Hundred Seventy Seven Thousand, Two Hundred Sixty One dollars (\$40,977,261) now on file at 11300 SE Fuller Rd Milwaukie, Oregon.

**BE IT RESOLVED** that the amounts for the fiscal year beginning July 1, 2019 for the purposes shown below are here by appropriated.

**General Fund:**

|                               |                            |
|-------------------------------|----------------------------|
| <b>Personnel</b>              | <b>\$ 0.00</b>             |
| <b>Materials and Services</b> | <b>\$ 1,404,060</b>        |
| <b>Debt Service</b>           | <b>\$ 0</b>                |
| <b>Capital Outlay</b>         | <b>\$31,500,000</b>        |
| <b>Operating Contingency</b>  | <b>\$ 75,000</b>           |
| <b>Capital Reserves</b>       | <b>\$ 100,000</b>          |
| <b>Ending Fund Balance</b>    | <b><u>\$ 7,898,201</u></b> |

**Total Appropriation      \$40,977,260**

The above resolution statements were approved and declared adopted this 15<sup>th</sup> day of May 2019.

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Deputy Chief Ryan Hari, Chair



# RADIO PROJECT STATUS

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## Emergency Communication System Upgrade

C800 Project Leader: John Hartsock

WCCCA Project Leader: Ron Polluconi

C800 Project Manager: Bjorn Morfin

Date: April 24, 2019



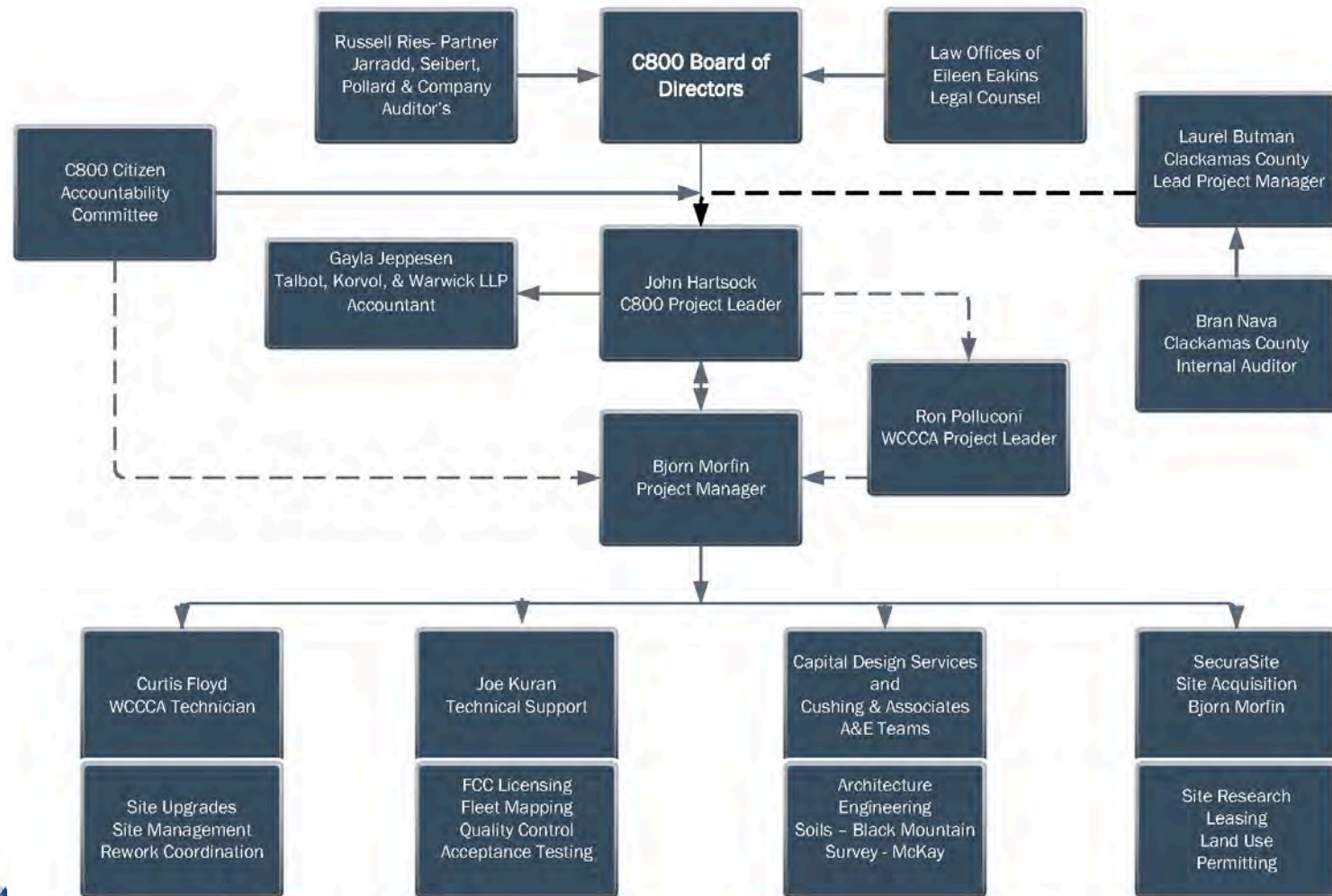
# Resiliency:

## A Primary Objective of the Upgraded System Design

- New Facilities and Towers - Designed to the Oregon Structural Specialty Code: “Essential Facilities” Risk Category IV: i.e., Essential structures in this category are used for communications across non-redundant and hardened networks such as: rescue or disaster operations, and public safety facilities. They are to withstand a magnitude 9 earthquake and continue to operate.
- Existing Facilities and Towers - Upgraded to Meet the Current Essential Facilities Codes. Includes 6 tower replacements / 5 tower upgrades and 11 building foundation upgrades.
- 48V DC Power Systems Combined with Emergency Generators - Having 1,000 gal propane fuel supply to provide up to 4 weeks of back up power.
- Redundant HVAC units to maintain environmental control.



# C800 Project Team



# Project Status New Sites Summary

|                                                         | C800                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|---------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Fourteen New Sites Acquisition / Design / Construction: | <ul style="list-style-type: none"> <li>• <b>Barton:</b> Construction underway – site clearing and tower foundations complete. Target completion by June 28, 2019.</li> <li>• <b>Cooks Butte:</b> Preparing land use submittal including arborist review, sensitive lands review, NEPA, for submittal by late April or early May after the neighborhood meeting.</li> <li>• <b>Kerr Parkway Water Tank:</b> We are researching alternative locations.</li> <li>• <b>Damascus / Sandy / Canby:</b> Construction / radio installation complete.</li> <li>• <b>Wilsonville:</b> Issue on obtaining an access easement / researching new sites.</li> <li>• <b>Crutcher Bench (BLM):</b> Construction underway anticipated completion by July 12, 2019</li> <li>• <b>Highland Butte (BLM):</b> Construction to begin by June finalizing tree sale with BLM</li> <li>• <b>Tom Dick &amp; Harry / Memaloose / Whale Head / Oak Grove (USFS):</b> USFS has advised no public comment – should issue permit by end of April or early May. Construction bid and permits should be available by early May.</li> <li>• <b>Hoodland Fire/Brightwood:</b> Land use submitted February 15<sup>th</sup> will submit for permits by late April</li> </ul> |



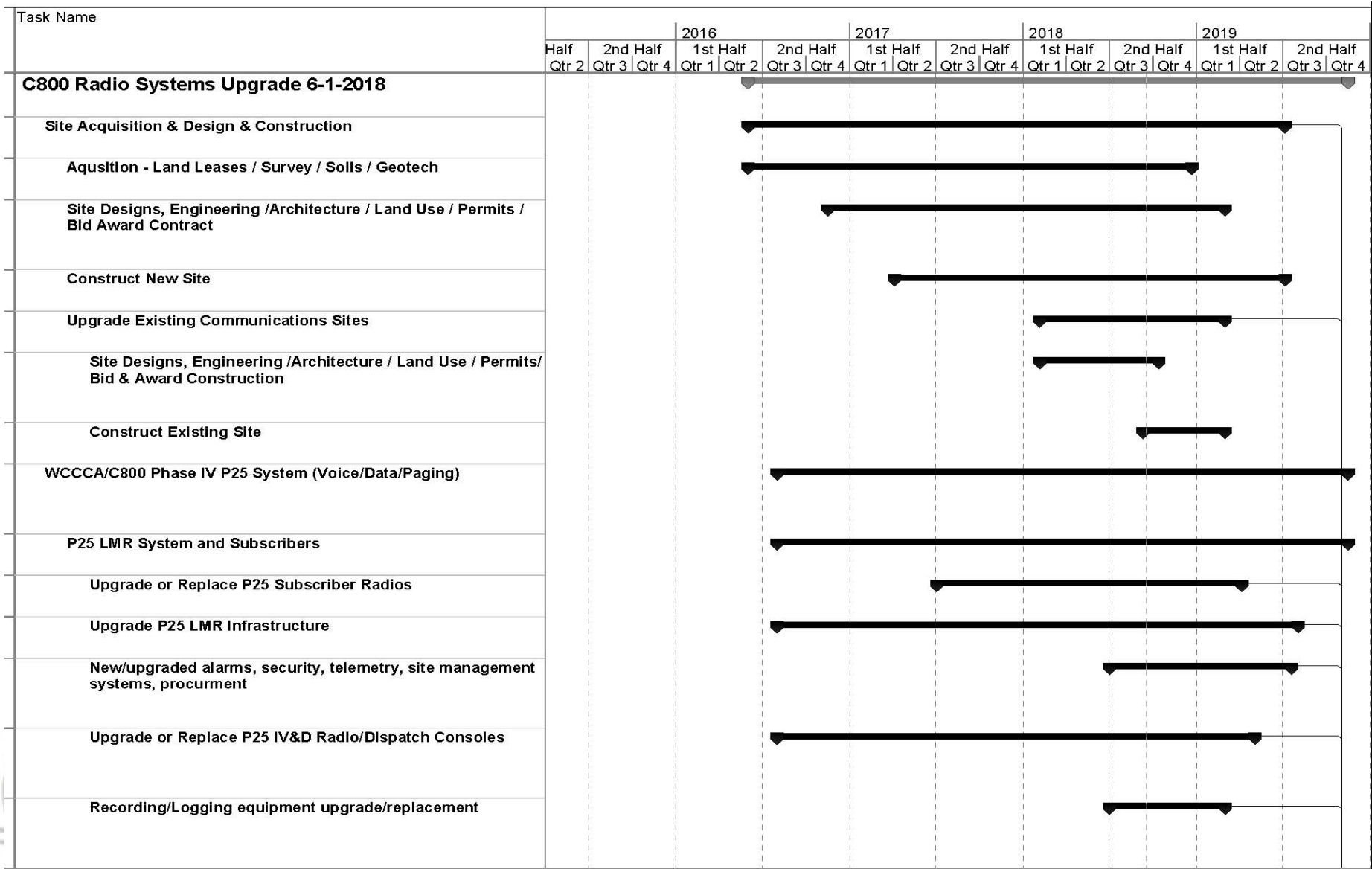
# Site Acquisition Status – C800



# Project Status Existing Sites Summary

|                                               | C800                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|-----------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 13 Existing Sites<br>Design /<br>Construction | <ul style="list-style-type: none"> <li>• <b>Brightwood / Lenhart / Mt Scott / Pete's / Polivka:</b> Tower replacement / building foundation upgrades / 48V DC power system / new generator and 1,000 gal fuel tank / new HVAC units. Submitted for construction permits in March – Anticipate early May start.</li> <li>• <b>Goat Mtn / Mt View / Redland Rd / Sawtell / View Acres:</b> Tower structural upgrades / building foundation upgrades / 48V DC power system / new generator and 1,000 gal fuel tank / new HVAC units. Mt View/Redland/Sawtell/View Acres complete<br/>Goat will begin in May weather permitting</li> <li>• <b>Day Hill:</b> 48V DC power system / new generator and 1,000 gal fuel tank / new HVAC units. Anticipate starting in April</li> <li>• <b>Timberline:</b> new generator and 1,000 gal fuel tank</li> <li>• <b>CCOM:</b> New Uninterruptable Power System for Master Site Equipment / revisions to fire suppression system / new cable tray. Work complete.</li> </ul> |

# Project Schedule



# Project Schedule

| Task Name                                        |            |                |  |       | 2018           |  |       |                | 2019 |       |                |  |       |                |  |       |
|--------------------------------------------------|------------|----------------|--|-------|----------------|--|-------|----------------|------|-------|----------------|--|-------|----------------|--|-------|
|                                                  | Half Qtr 2 | 2nd Half Qtr 3 |  | Qtr 4 | 1st Half Qtr 1 |  | Qtr 2 | 2nd Half Qtr 3 |      | Qtr 4 | 1st Half Qtr 1 |  | Qtr 2 | 2nd Half Qtr 3 |  | Qtr 4 |
| Recording/Logging equipment upgrade/replacement  |            |                |  |       |                |  |       |                |      |       |                |  |       |                |  |       |
| Backup Dispatch (Wide and Control Station modes) |            |                |  |       |                |  |       |                |      |       |                |  |       |                |  |       |
| Site on Wheels (wide and ST modes)               |            |                |  |       |                |  |       |                |      |       |                |  |       |                |  |       |
| Microwave Backhaul Systems                       |            |                |  |       |                |  |       |                |      |       |                |  |       |                |  |       |
| New/Upgrade 48 VDC and Battery Backup Systems    |            |                |  |       |                |  |       |                |      |       |                |  |       |                |  |       |
| Paging, Messaging Systems upgrade/replacement    |            |                |  |       |                |  |       |                |      |       |                |  |       |                |  |       |
| IP based Fire Station Alerting System            |            |                |  |       |                |  |       |                |      |       |                |  |       |                |  |       |
| Video and Security systems                       |            |                |  |       |                |  |       |                |      |       |                |  |       |                |  |       |
| Interoperable RF Systems and Links               |            |                |  |       |                |  |       |                |      |       |                |  |       |                |  |       |
|                                                  |            |                |  |       |                |  |       |                |      |       |                |  |       |                |  |       |
| System Operational January 3, 2020               |            |                |  |       |                |  |       |                |      |       |                |  |       |                |  |       |

- New Site Design & Construction complete: September 2019
- Existing Sites Upgrade complete: June 2019
- System Operational Date: January 2020



# C800 Radio System Upgrade Budget <sup>(1)</sup>

|                  |                                  |                              |
|------------------|----------------------------------|------------------------------|
| Project:         | <b>C800 Radio System Upgrade</b> |                              |
| Date Original:   | 10/1/2015                        | Date Updated: March 18, 2019 |
| Project Manager: | Bjorn Morfin                     |                              |

| Item                                                                   | Budget            | Original Encumbrance | Additional Encumbrance / Change Order | Estimate to Complete | Percent Complete | Estimated Total   | (Over) Under Budget | Expended            |
|------------------------------------------------------------------------|-------------------|----------------------|---------------------------------------|----------------------|------------------|-------------------|---------------------|---------------------|
| <b>Soft Cost</b>                                                       |                   |                      |                                       |                      |                  |                   |                     |                     |
| 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 - Securacite                     | 320,000           | 321,250              | 121,300                               | 0                    | 82.17%           | 442,550           | (122,550)           | 363,648.75          |
| Site Planning A&E - Cushing/Capital/Cundiff/Forensic/KPFF/SDC/ToddHess | 725,000           | 651,781              | 468,930                               | (295,500)            | 92.41%           | 825,211           | (100,211)           | 762,560.45          |
| Geotechnical / Environmental Consulting Black Mtn                      | 250,000           | 443,670              | 0                                     | 25,000               | 93.20%           | 468,670           | (218,670)           | 436,811.10          |
| Survey - McKay                                                         | 75,000            | 124,240              | 0                                     | 0                    | 67.88%           | 124,240           | (49,240)            | 84,335.00           |
| USFS Land Use Fees                                                     | 15,000            | 10,000               | 24,000                                | 5,000                | 85.48%           | 39,000            | (24,000)            | 33,338.70           |
| Land Use Fees                                                          | 25,000            | 9,400                | 0                                     | 15,000               | 38.27%           | 24,400            | 600                 | 9,339.00            |
| Plan Check / Permit Cost                                               | 60,000            | 10,000               | 0                                     | 30,000               | 23.81%           | 40,000            | 20,000              | 9,525.20            |
| Printing                                                               | 2,500             |                      |                                       | 2,500                | 0.00%            | 2,500             | 0                   | 0.00                |
| Bid Advertising                                                        | 3,500             | 850                  | 0                                     | 1,000                | 57.39%           | 1,850             | 1,650               | 1,061.65            |
| Materials Testing & Inspection                                         | 40,000            | 2,700                | 0                                     | 15,000               | 14.82%           | 17,700            | 22,300              | 2,623.75            |
| Project Management                                                     | 300,000           | 80,000               | 245,200                               | 0                    | 75.54%           | 325,200           | (25,200)            | 245,647.65          |
| Legal Fees                                                             | 30,000            | 15,000               | 0                                     | 8,000                | 55.60%           | 23,000            | 7,000               | 12,787.60           |
| Licensing                                                              | 20,000            | 69,000               |                                       | 5,000                | 93.10%           | 74,000            | (54,000)            | 68,890.50           |
| Miscellaneous                                                          | 30,000            | 88,000               | 70,000                                | 4,000                | 55.79%           | 162,000           | (132,000)           | 90,381.88           |
| <b>Sub-Total Soft Cost</b>                                             | <b>1,956,000</b>  | <b>1,850,891</b>     | <b>974,430</b>                        | <b>(187,930)</b>     | <b>82.96%</b>    | <b>2,637,391</b>  | <b>(681,391)</b>    | <b>2,188,021</b>    |
| <b>Construction Cost</b>                                               |                   |                      |                                       |                      |                  |                   |                     |                     |
| Site Construction                                                      | 8,895,000         | 5,870,634            | 0                                     | 3,545,000            | 34.63%           | 9,415,634         | (520,634)           | 3,260,827.69        |
| Buildings                                                              | 1,350,000         | 2,018,663            | 0                                     | 40,000               | 86.46%           | 2,058,663         | (708,663)           | 1,780,009.60        |
| Towers                                                                 | 660,000           | 1,383,357            | 0                                     | 90,000               | 60.85%           | 1,473,357         | (813,357)           | 896,484.14          |
| Generator                                                              | 500,000           | 513,196              | 0                                     | 35,000               | 72.31%           | 548,196           | (48,196)            | 396,420.21          |
| 48VDC                                                                  | 1,065,000         | 1,443,767            | 0                                     | 15,000               | 15.43%           | 1,458,767         | (393,767)           | 225,112.48          |
| Lake Oswego Antenna                                                    | 18,000            | 17,500               | 0                                     | 0                    | 100.07%          | 17,500            | 500                 | 17,511.75           |
| <b>Sub-Total Construction Cost</b>                                     | <b>12,488,000</b> | <b>11,247,117</b>    | <b>0</b>                              | <b>3,725,000</b>     | <b>43.92%</b>    | <b>14,972,117</b> | <b>(2,484,117)</b>  | <b>6,576,365.87</b> |

# C800 Radio System Upgrade Budget (2)

|                  |                                  |               |                |
|------------------|----------------------------------|---------------|----------------|
| Project:         | <b>C800 Radio System Upgrade</b> |               |                |
| Date Original:   | 10/1/2015                        | Date Updated: | March 18, 2019 |
| Project Manager: | Bjorn Morfin                     |               |                |

| Item                            | Budget            | Original Encumbrance | Additional Encumbrance / Change Order | Estimate to Complete | Percent Complete | Estimated Total   | (Over) Under Budget | Expended             |
|---------------------------------|-------------------|----------------------|---------------------------------------|----------------------|------------------|-------------------|---------------------|----------------------|
| <b>Equipment Costs</b>          |                   |                      |                                       |                      |                  |                   |                     |                      |
| Simulcast Equipment             | 20,726,000        | \$19,592,515         |                                       | 200,000              | 72.08%           | 19,792,515        | 933,485             | 14,265,838.02        |
| Paging                          | 373,000           | 7,523                |                                       | 365,000              | 3.44%            | 372,523           | 477                 | 12,803.31            |
| Subscriber Radios               | 5,000,000         | 6,303,129            |                                       | 500,000              | 49.21%           | 6,803,129         | (1,803,129)         | 3,347,748.70         |
| Asset Management                | 119,000           |                      |                                       | 119,000              | 0.00%            | 119,000           | 0                   | 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         | 0                    | 2,349,951                             | 250,000              | 95.11%           | 2,599,951         | 768,048             | 2,472,851.91         |
| Security System                 | 1,364,000         |                      |                                       | 500,000              | 0.22%            | 500,000           | 864,000             | 1,079.96             |
| Fire Station Alerting           | 0                 |                      |                                       | 1,470,000            |                  | 1,470,000         | (1,470,000)         |                      |
| <b>Subtotal Equipment Costs</b> | <b>36,850,000</b> | <b>31,715,226</b>    | <b>2,349,951</b>                      | <b>3,504,000</b>     | <b>68.97%</b>    | <b>37,569,177</b> | <b>(719,177)</b>    | <b>25,912,380</b>    |
| Bond Cost                       | 300,000           | 290,372              |                                       | 0                    | 111.43%          | 290,372           | 9,628               | 323,547              |
| <b>Subtotal Project Cost</b>    | <b>51,594,000</b> | <b>45,103,605</b>    | <b>3,324,381</b>                      | <b>7,041,070</b>     | <b>63.10%</b>    | <b>55,469,056</b> | <b>(3,875,056)</b>  | <b>35,000,315</b>    |
| Additional Proceeds             | 4,875,000         |                      |                                       |                      |                  | (4,875,000)       | 4,875,000           |                      |
| <b>Adjusted Project Costs</b>   | <b>56,469,000</b> | <b>45,103,605</b>    | <b>3,324,381</b>                      | <b>7,041,070</b>     | <b>63.10%</b>    | <b>50,594,056</b> | <b>999,944</b>      |                      |
| Contingency                     | 7,406,000         |                      |                                       | 7,406,000            | 0.00%            | 7,406,000         | 0                   |                      |
| <b>Total Project Cost</b>       | <b>63,875,000</b> | <b>45,103,605</b>    | <b>3,324,381</b>                      | <b>14,447,070</b>    | <b>60.35%</b>    | <b>58,000,056</b> | <b>999,944</b>      | <b>35,000,314.68</b> |

|                       |                   |                           |
|-----------------------|-------------------|---------------------------|
| Bond Proceeds         | 5,845,000         | Taxable                   |
|                       | 53,155,000        | Non Taxable               |
|                       | <b>59,000,000</b> |                           |
| Additional Proceeds   | 2,200,000         | Subscriber Radio Payments |
|                       | 2,675,000         | PGE Payment               |
|                       | <b>4,875,000</b>  |                           |
| <b>Total Proceeds</b> | <b>63,875,000</b> |                           |

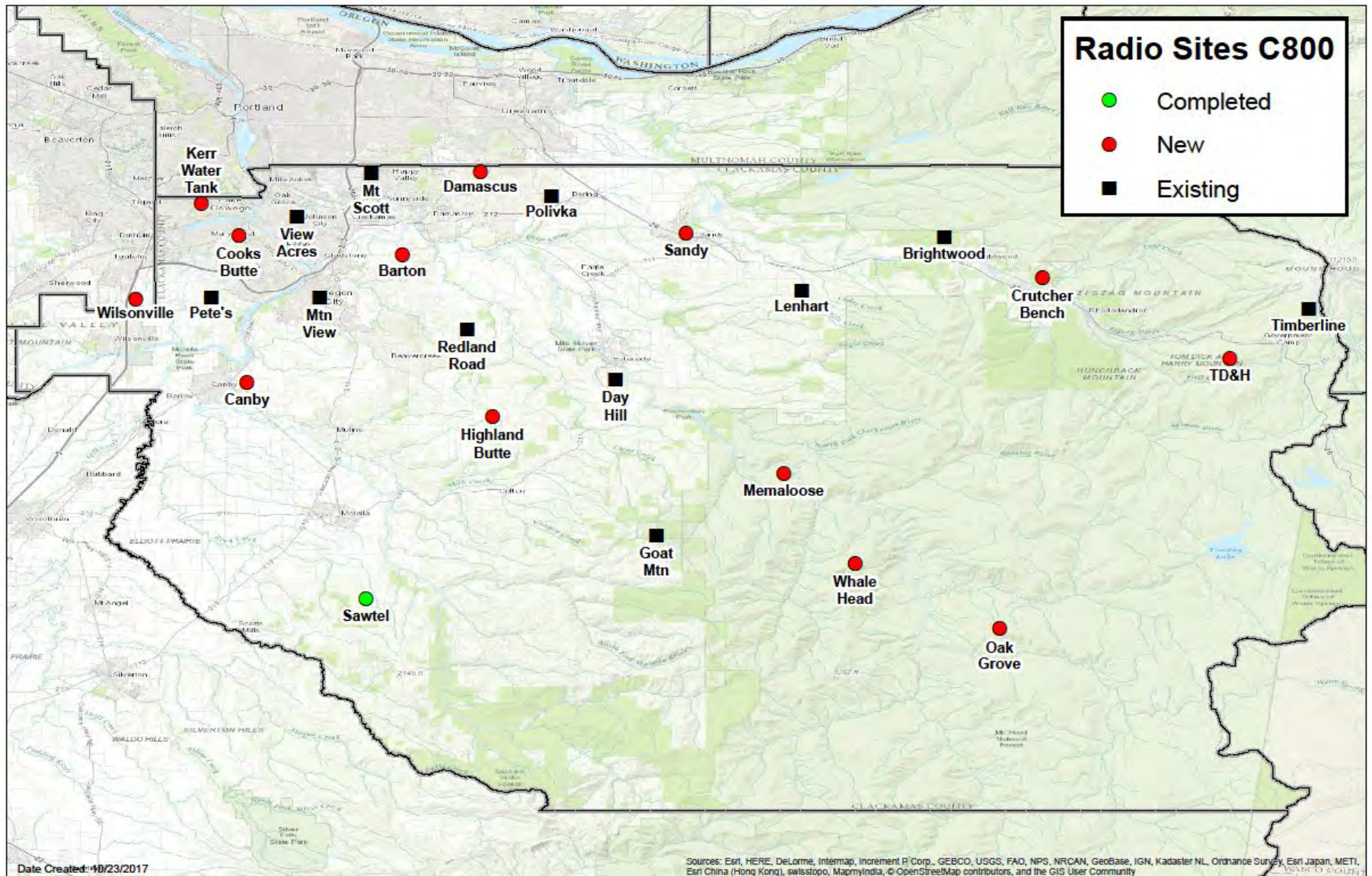
|                       |                  |
|-----------------------|------------------|
| Premium Bond Proceeds | <b>7,165,794</b> |
|-----------------------|------------------|



# Q2 - 2019 Quarterly Outlook

|                                                                                           | <b>C800</b>                                                                                                                                                                                                                                             |
|-------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>• Procurement</li> </ul>                           | <ul style="list-style-type: none"> <li>• Bid and award asset management system</li> <li>• Bid and award security/CCTV system</li> </ul>                                                                                                                 |
| <ul style="list-style-type: none"> <li>• Leases &amp; Land Use Applications</li> </ul>    | <ul style="list-style-type: none"> <li>• Complete Cooks land use and submit for building permits</li> <li>• Submit Wilsonville site for building permits</li> </ul>                                                                                     |
| <ul style="list-style-type: none"> <li>• Existing Site &amp; Building Upgrades</li> </ul> | <ul style="list-style-type: none"> <li>• Continue to construct civil work relating to shelter/generator foundation upgrades, doors, electrical, and related site compound renovations.</li> <li>• Construct tower upgrades at existing sites</li> </ul> |
| <ul style="list-style-type: none"> <li>• Radio / Microwave</li> </ul>                     | <ul style="list-style-type: none"> <li>• Continue radio infrastructure install</li> <li>• Begin microwave system install</li> <li>• Finalize subscriber radio distribution and existing radio upgrades</li> </ul>                                       |

# C800 Site Locations





# Project Summary:

To create an efficient, dependable public safety radio communications system that works in all parts of Clackamas County!

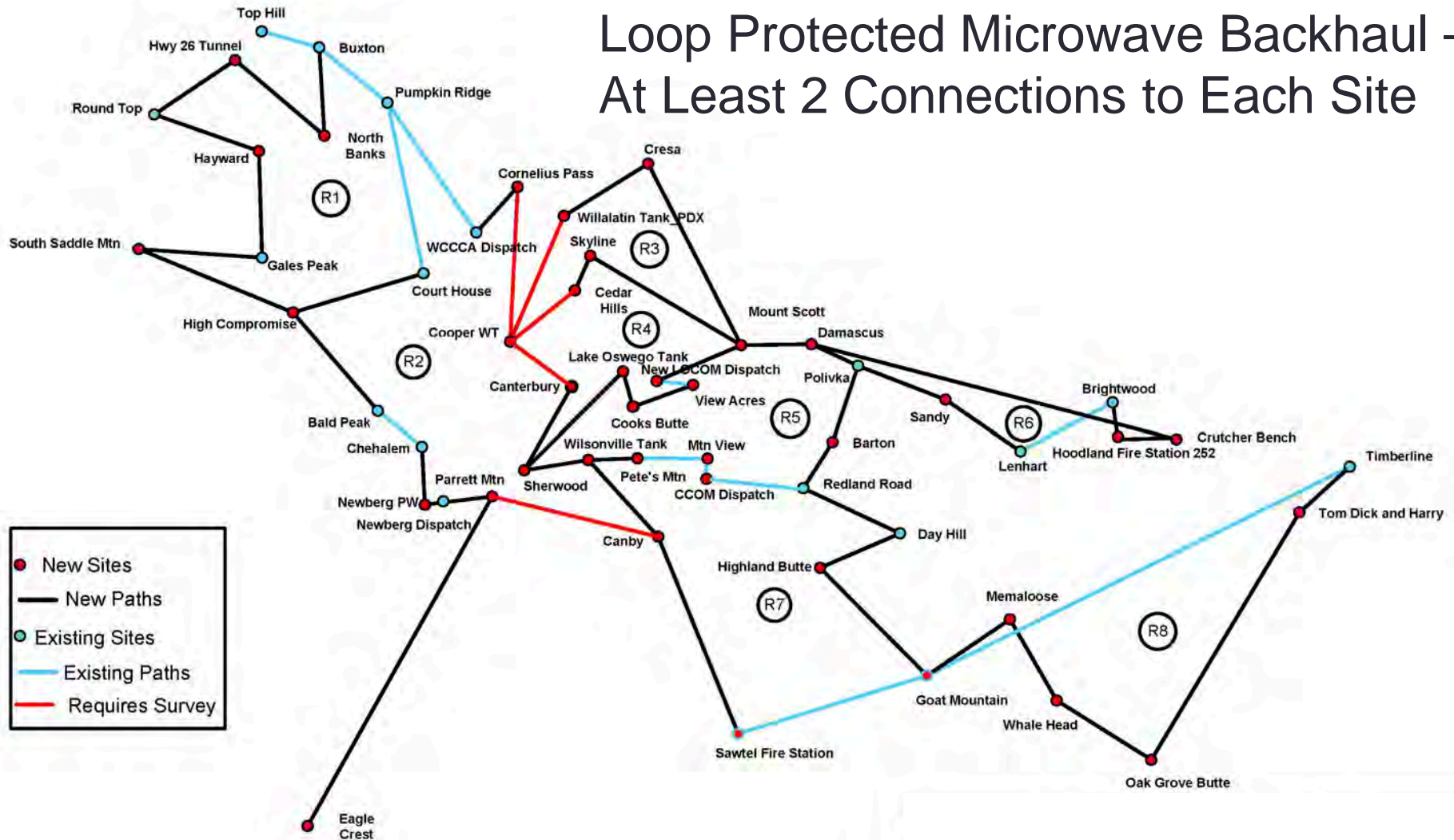
**What's Happening With the  
Communications Upgrade  
Project?**



# Resiliency:

## A Primary Objective of the Upgraded System Design

Loop Protected Microwave Backhaul –  
At Least 2 Connections to Each Site







CLACKAMAS  
800 RADIO  
GROUP

BARTON

**9-1-1**  
**WCCCA**  
POLICE • FIRE • MEDICAL





CRUTCHER





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

## Board of Directors Action Request

**To:** C800 Board of Directors  
**From:** John Hartsock, Manager  
**Date:** April 24, 2019  
**Re:** Approve a Contract Change Order to Day Wireless Systems for 48V DC Power.

**REQUEST:** It is hereby requested that the C800 Board of Directors approve issuing a contract change order in the amount of \$84,238.43 for additional 48V batteries at the Goat Mtn site, battery system for the Hoodland Fire site and AC wiring at all sites.

**DESCRIPTION:** In September of 2018 the Board authorized a competitively bid contract to Day Wireless for the furnishing and installation of 48V DC battery systems at the existing and new radio sites to power the radio system. It has been determined that an additional set of batteries are required at the Goat Mtn site and the Hoodland Fire Station site was added. Further AC circuits need to be extended at the 12 existing sites. The competitive bid provided unit prices and thus Day Wireless is still the low competitive bidder.

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

**LEGAL:** A C800 contract change order will be utilized as approved by legal counsel.

**RECOMMENDATION:** It is hereby recommended that the C800 Board of Directors approve issuing a contract change order in the amount of \$84,238.43 for additional 48V batteries at the Goat Mtn site, battery system for the Hoodland Fire site and AC wiring at all sites.





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## Board of Directors Action Request

**To:** C800 Board of Directors  
**From:** John Hartsock, Manager  
**Date:** April 24, 2019  
**Re:** Award of Construction Contracts for the Memaloose / Whalehead / Oak Grove / Tom Dick & Harry – USFS Communication Sites.

**REQUEST:** It is hereby requested that the C800 Board of Directors authorize C800 to enter into contracts with T3 Construction Roseburg, OR in the total amount of \$1,166,000 to construct communication sites at the Memaloose / Whalehead / Oak Grove / Tom Dick & Harry sites. Further to establish an allowance of \$3,930,000 for utility extensions and road improvements.

**DESCRIPTION:** As a part of the communication system upgrade project there are four sites being added within the US Forest Service lands - Memaloose / Whalehead / Oak Grove / Tom Dick & Harry. We prepared bid documents which were posted on ORPIN on February 25, 2019 for bids. Thirty-one firms downloaded the documents. On March 21, 2019 six firms submitted bid proposals ranging from \$1,166,000 to \$4,315,000. The project estimate was \$1,235,000. All six firms were qualified and presented the appropriate bid packages.

T3 is the firm that is constructing the Highland Butte, Barton, and Crutcher's Bench sites and is performing to our expectations. We are pleased that they were the successful contractor.

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

**LEGAL:** A C800 construction contract will be utilized as approved by legal counsel.

**RECOMMENDATION:** It is hereby recommended that the C800 Board of Directors authorize C800 to enter into contracts with T3 Construction Roseburg, OR in the total amount of \$1,166,000 to construct communication sites at the Memaloose / Whalehead / Oak Grove / Tom Dick & Harry sites. Further to establish an allowance of \$3,930,000 for utility extensions and road improvements.







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## Board of Directors Action Request

**To:** C800 Board of Directors  
**From:** John Hartsock, Manager  
**Date:** April 24, 2019  
**Re:** Agreement with PGE for Site Use at Timberline/Brightwood/Memaloose/Oak Grove Butte/Mt Scott/CCOM.

**REQUEST:** It is hereby requested that the C800 Board of Directors authorize C800 to enter into an agreement with PGE to allow their use of the Timberline/Brightwood/Memaloose/Oak Grove Butte/Mt Scott/CCOM for their radio system for fifteen years for a one-time compensation of \$2,675,000.

**DESCRIPTION:** PGE is in the process of developing a voice communications radio system and a data communication radio system to serve their service area. It was determined that the C800 sites at Timberline/Brightwood/Memaloose/Oak Grove Butte/Mt Scott/CCOM would be locations where PGE and C800 could share facilities.

PGE preferred to make a one-time payment for the use of these sites versus an annual rent payment. Utilizing are standard rental fee table we amortized the use over the desired 15-year term to determine the value of the one-time payment.

**FINANCE:** The funds from this one-time payment will be placed into the radio project to offset utility extension costs to the USFS sites.

**LEGAL:** A C800 Communications Site Use Agreement will be utilized as approved by legal counsel.

**RECOMMENDATION:** It is hereby recommended that the C800 Board of Directors authorize C800 to enter into an agreement with PGE to allow their use of the Timberline/Brightwood/Memaloose/Oak Grove Butte/Mt Scott/CCOM for their radio system for fifteen years for a one-time compensation of \$2,675,000.





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## Board of Directors Action Request

**To:** C800 Board of Directors  
**From:** John Hartsock, Manager  
**Date:** May 15, 2019  
**Re:** Resolution Authorizing the Use of Eminent Domain to Acquire Access to the Wilsonville Site

**REQUEST:** It is hereby requested that the C800 Board of Directors approve Resolution 02-19 authorizing the use of eminent domain to acquire access to the Wilsonville site.

**DESCRIPTION:** C800 has negotiated a lease with the City of Wilsonville for the right to construct a communications site at their water tank site located at NE OF 8275 SW ELLIGSEN ROAD, WILSONVILLE, OR 97062. Access to that site is via an easement from a third party, Pheasant Ridge R.V. Park Inc., and they have refused to grant a like easement to C800.

We have made numerous attempts with Bjorn Morfin (SecuraSite), Eileen Eakins (C800 legal counsel), Deputy Chief Hari, and me to secure the easement to no avail. C800 has retained Cynthia Fraser with the firm of Garvey Schubert Barer to assist C800 with the eminent domain process. Ms. Barer has prepared this resolution.

**FINANCE:** The funds for this project are a part of the communications upgrade project.

**LEGAL:** The resolution has been prepared and recommended by Cynthia Fraser special counsel for this effort.

**RECOMMENDATION:** It is hereby recommended that the C800 Board of Directors approve Resolution 02-19 authorizing the use of eminent domain to acquire access to the Wilsonville site