PROJECT STATUS

Emergency Communication System Upgrade (ECSU)

C800 Project Leader: John Hartsock

WCCCA Project Leader: Ron Polluconi

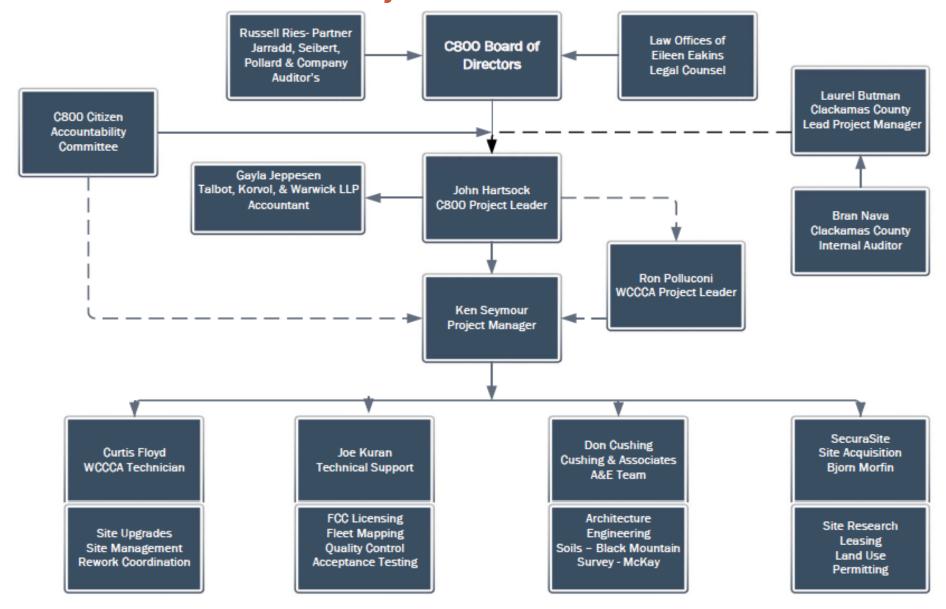
Project Manager: Ken Seymour – WCCCA/C800 Contractor

Date: May 17, 2017





C800 ECSU Project Team



Project Status Summary

	C800
Site Acquisition & Design:	 Barton (Carver): Site Acquisition (SA) redirected to look at new candidate location near Barton, west of South Harding Road Skyland/Cooks Butte: Pending recommendation from city on which site candidate to pursue Damascus: A & E firm working on site plan. Meeting with PGE for power delivery is scheduled 6/13. Geology survey completed Wilsonville: Zoning drawings in review. SA is preparing land use application Sandy: Preparation for building permit filing, tower design with vendor in progress Crutcher Bench (BLM): Updated site drawings to show bullet proof propane tank enclosure. BLM doesn't allow underground tanks. A&E working on final site plans Tom Dick & Harry (USFS): Still awaiting USFS review. FAA feasibility study and Oregon Department of Aviation (ODA) states no lighting is required Canby: Finalizing LU application. Target date for submittal is 5/19
CLACKAMAS 800 DADIO GROUD	Highland Butte (BLM): Updated site drawings to show bullet proof propane tank enclosure. A&E working on final site plans

Project Status Summary

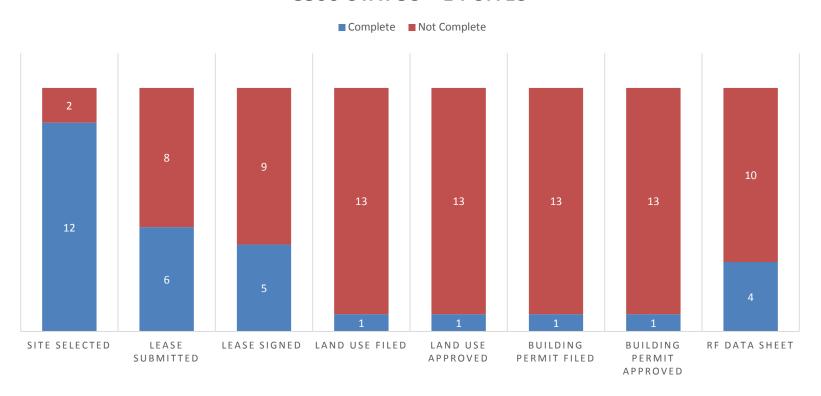
	C800
Site Acquisition & Design:	 Angel Falls (USFS): FAA feasibility study and ODA states no lighting is required. Still awaiting USFS review. Environmental Assessment (EA) pending Oak Grove Butte (USFS): FAA feasibility study and ODA states no lighting is required. Still awaiting USFS review. Environmental Assessment (EA) pending Whale Head (USFS): FAA feasibility study and ODA states no lighting is required. Still awaiting USFS review. Environmental Assessment (EA) pending Lake Oswego Tank (Kerr Parkway & Tanglewood Dr): Met with City Manager and Water Bureau. Positive initial feedback. City wants to see a site sketch to discuss with Mountain Park HOA.
LMR (Land Mobile Radio) System Procurement	C800, WCCCA, and Motorola project kickoff meeting occurred. Weekly project and planning meetings have begun





Site Acquisition Status – C800

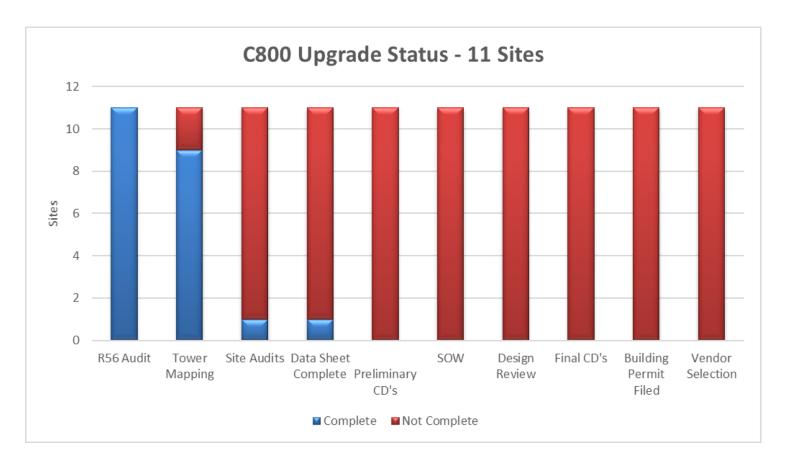
C800 STATUS - 14 SITES







Site Upgrade Status – C800







5/17/2017 **7**

Project Schedule



- New Site Design & Construction complete: August 2018
- Existing Sites Upgrade complete: June 2018
- System Operational Date: Late December 2018





C800 Radio System Upgrade Budget (1)

Project:

C800 Radio System Upgrade

Date Original:

10/1/2015 Date Updated: Apr 30, 2017

Project Manager: Ken Seymour

ltem	Budget	Original Encumbrance	Additional Encumbrance / Change Order	Estimate to Complete	Percent Complete	Estimated Total	(Over) Under Budget	Expended
Soft Cost								
Site Acquisition Consulting - Quest	60,000	30,000	40,000	0	95.81%	70,000	(10,000)	67,069.81
Site Acquisition Consulting / Permits - Securasite	270,000	-		0	49.99%	268,500	1,500	134,230.03
Site Planning - Cushing	725,000	317,178	326,281	75,000	46.22%	718,459	6,541	332,076.26
Geotechnical / Environmental Consulting - Black Mtn	200,000	89,100	13,600	85,000		187,700	12,300	82,550.00
Survey - McKay	75,000	50,160		20,000	47.63%	70,160	4,840	33,420.00
USFS Land Use Fees	10,000			0	0.00%	10,000	0	0.00
Land Use Fees	25,000			20,000	1.32%	20,268	4,732	268.00
Plan Check / Permit Cost	60,000			57,000	4.90%	60,000	0	2,937.56
Printing	2,500			2,500	0.00%	2,500	0	0.00
Bid Advertising	3,500			3,400	5.80%	3,460	40	200.81
Materials Testing & Inspection	40,000			38,000	2.87%	39,200	800	1,123.75
Project Management	300,000			20,000	14.72%	299,000	1,000	44,000.00
Legal Fees	30,000			18,000	31.18%	30,000	0	9,352.60
Licensing	20,000			20,000	0.00%	20,000	(000)	0.00
Miscellaneous	10,000	6,800		4,000	62.14%	10,800	(800)	6,710.88
Sub-Total Soft Cost	1,831,000	1,067,266	379,881	362,900	39.44%	1,810,047	20,953	713,940
Construction Cost								
Site Construction	8,981,000	362,439		8,618,561	3.17%	8,981,000	0	284,499.93
Buildings	1,350,000	986,718		363,282	2.04%	1,350,000	0	27,523.60
Towers	660,000	511,282		148,718	0.00%	660,000	0	0.00
Generator	414,000			414,000		414,000	0	0.00
48VDC	1,065,000			1,065,000		1,065,000	0	63,816.00
Lake Oswego Antenna	18.000		0	0	100.07%	17,500	500	17,511.75
Existing Sites	100,000			93,600	6.40%	100,000	0	6,400.00
Sub-Total Construction Cost	12,588,000	1,884,339	0	10,703,161	3.18%	12,587,500	500	399,751.28

C800 Radio System Upgrade Budget (2)

			Additional					
ltem	Budget	Original Encumbrance	Encumbrance / Change Order	Estimate to Complete	Percent Complete	Estimated Total	(Over) Under Budget	Expended
Equipment Costs								
Simulcast Equipment	14,928,000			14,928,000	0.00%	14,928,000	0	0.00
Master Site Equipment	3,534,000			3,534,000	0.00%	3,534,000	0	0.00
Console	1,650,000			1,650,000	0.00%	1,650,000	0	0.00
Back up Dispatch	426,000			426,000	0.00%	426,000	0	0.00
Spares	1,200,000			1,200,000	0.00%	1,200,000	0	0.00
Paging	373,000			373,000	0.00%	373,000	0	0.00
Subscriber Radios	5,000,000	1,515,649		3,484,351	40.17%	5,000,000	0	2,008,749.49
Unified Push to Talk	188,000			188,000	0.00%	188,000	0	0.00
Asset Management	119,000			119,000	0.00%	119,000	0	0.00
Post Warranty	3,100,000			3,100,000	0.00%	3,100,000	0	0.00
System Refresh / Upgrade	2,700,000			2,700,000	0.00%	2,700,000	0	0.00
Test Equipment	100,000			100,000	0.00%	100,000	0	0.00
Microwave	3,368,000	406,169		2,961,831	11.59%	3,368,000	0	390,406.05
Security System	1,364,000			1,364,000	0.08%	1,364,000	0	1,079.96
Subtotal Equipment Costs	38,050,000	1,921,818	0	36,128,182	6.31%	38,050,000	0	2,400,236
	_,,	-,,		-,,		,,		_,,
Bond Cost	300,000	290,372		0	100.00%	290,372	9,628	290,372
Subtotal Project Cost	52,769,000	5,163,795	379,881	47,194,243	7.21%	52,737,919	31,081	3,804,298
		2,122,100	21.2,201	,,		,,	2.,201	2,22.,200
Contingency	6,231,913			6,231,913	0.00%	6,231,913	0	
Total Project Cost	59,000,913	5,163,795	379,881	53,426,156	6.45%	58,969,832	31,081	3,804,298.28

Premium 7,165,794

Bond Proceeds	5,845,000 Taxable
	53,155,000 Non Taxable
	59,000,000

Q2'17 Quarterly Outlook

		C800
•	Procurement	Order Tower and Equipment shelters for Sandy, Canby, and Wilsonville sites
•	Leases & Land Use Applications	 File Land Use applications for Canby and Wilsonville sites Prepare Damascus application material Apply for Building Permit on Sandy site Expect approval of Highland Butte & Crutcher's Bench BLM applications
•	Existing Site & Building Upgrades	 Develop intermediary tower and antenna configuration plans (drawings, RF data sheets) on existing sites Proceed with upgrade plans for civil work relating to shelter/generator foundation upgrades, doors, Electrical, and related site compound renovations





Appendix A

New Site Build (NSB) List

Site Name	Nearest City	Jurisdiction	Site	Lease	Lease	Land Use	Land Use	_	Building Permit	
	_		Selected	Submitted	Signed	Filed	Approved	Permit Filed	Approved	Sheet
~	▼	▼	▼	▼	▼	▼.	▼	▼	▼.	Complete
Barton (Carver)	Barton/Logan									
Skyland (or Cooks)	Lake Oswego			1	1					
Damascus	Damascus		1	1	1					
Wilsonville Tank	Wilsonville		1	1						1
Sandy	Sandy		1	1	1	N/A	N/A			1
Crutcher Bench	Zig Zag	BLM	1							
Tom Dick and Harry	Government Camp	USFS	1							
Canby	Canby		1	1	1					1
Highland Butte	Cedar Reservoir	BLM	1							1
Angel Falls	Angle Falls	USFS	1							
Oak Grove Butte	Frog Lake	USFS	1							
Whale Head	SE Clackamas	USFS	1							
Sawtel Fire Station	Molalla		1	1	1	1	1	1	1	
Lake Oswego Tank	Lake Oswego		1							

C800
• 14 Sites





Appendix B

Existing Sites - Upgrade List

Turf	Site	Type	Site Name	Nearest City	R56 Audit	Tower	Site Audits	Intermediate
,T	Numb 🔻	~	▼	▼	~	Mappin *	~	Data Shee ▼
C800	C-5	Existing	Mount Scott	Happy Valley	1	1		
C800	C-6	Existing	Mtn View	Oregon City	1	1		
C800	C-7	Existing	Pete's	West Linn	1	1		
C800	C-8	Existing	Polivka	Boring	1	1	1	1
C800	C-10	Existing	View Acres	Milwaukie	1	1		
C800	C-11	Existing	Brightwood	Brightwood	1			
C800	C-14	Existing	Lenhart	Sandy	1	1		
C800	C-15	Existing	Timberline	Timberline Lodge	1	1		
C800	C-17	Existing	Day Hill	Estacada	1	1		
C800	C-19	Existing	Redland Road	Redland	1	1		
C800	C-23	Existing	Goat Mountain	Colton	1			

C800
• 11 Sites





Appendix C C800 Site Locations

