

# Erie County Communications Committee

L. Robert Kimball &  
Associates

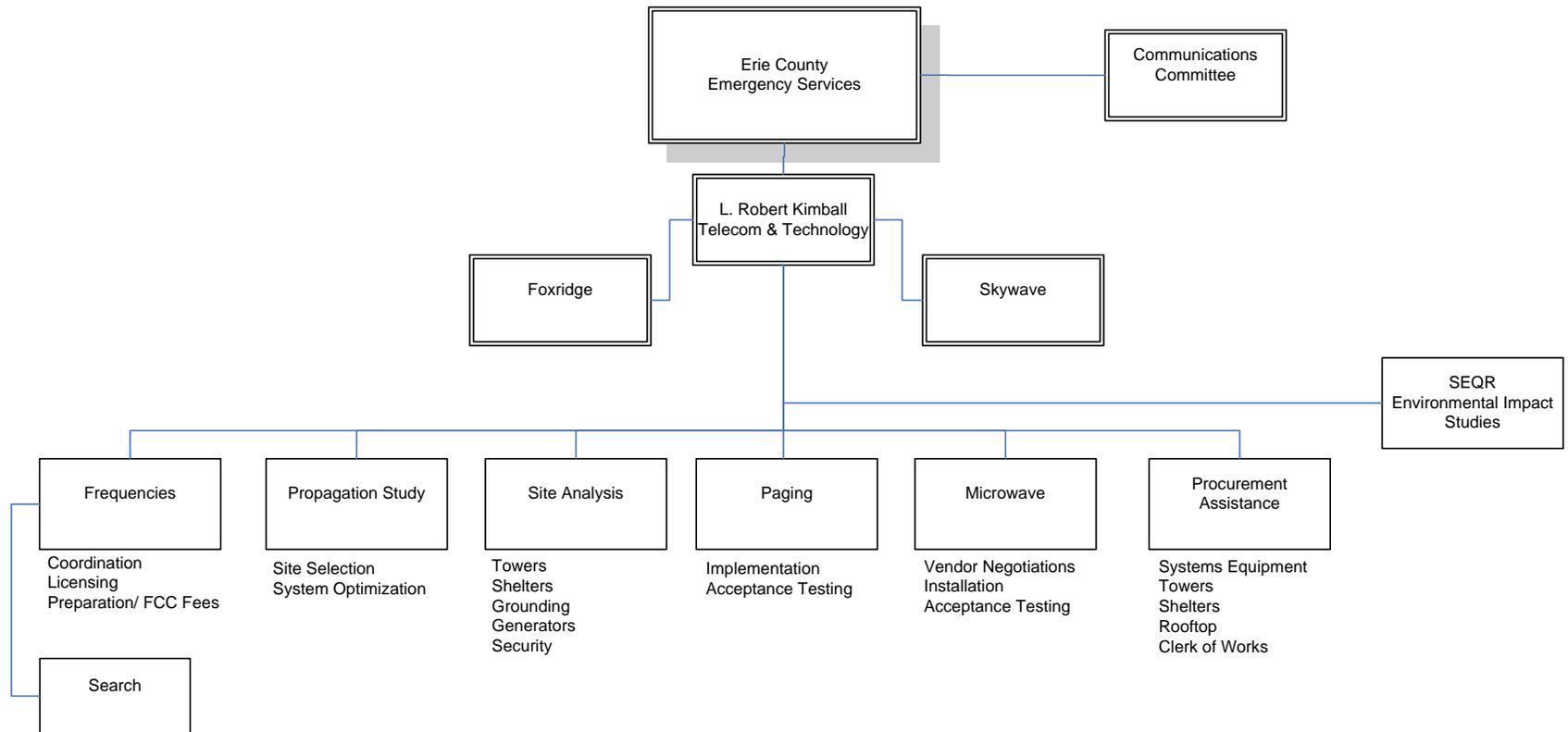


# County Plan for UHF

- Two-channel digital simulcast for ECSO
- Migration of Low Band Fire Systems to simulcast UHF system
- Single UHF channel for County-wide Mutual Aid Fire simulcast
- Single UHF channel for County-wide Mutual Aid Law Enforcement simulcast
- Single Channel for County-wide Emergency Services simulcast

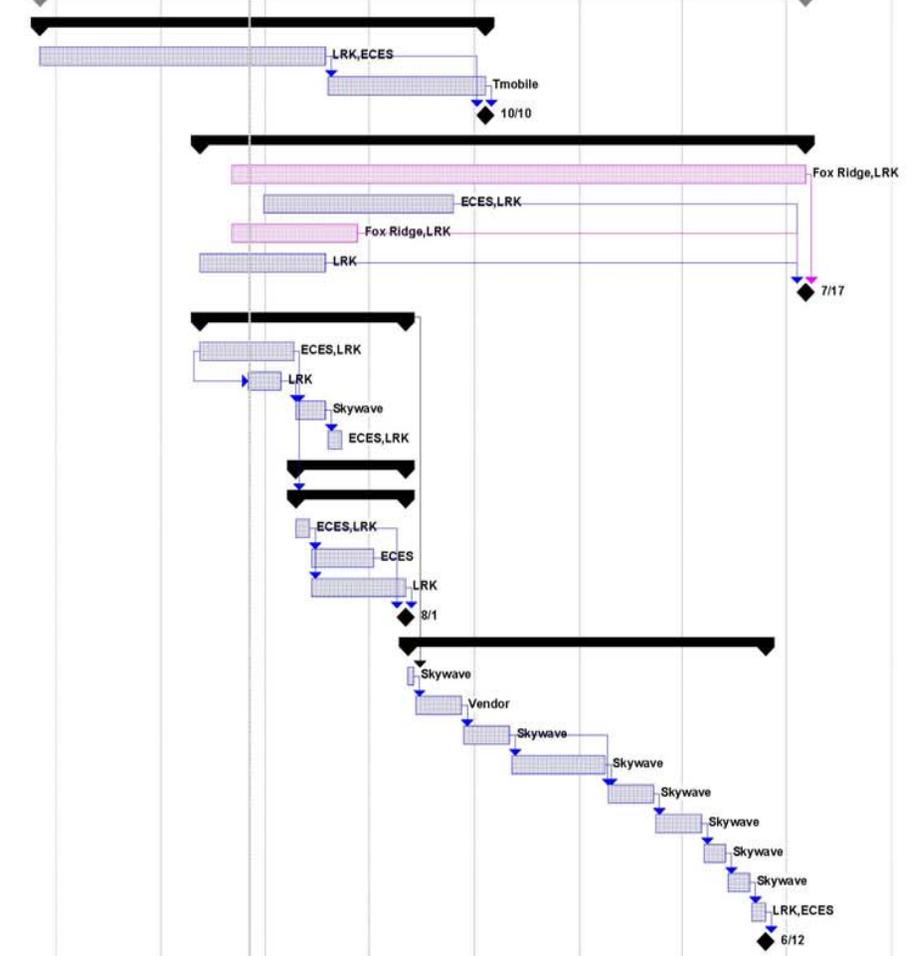


# Kimball Support



# PRELIMINARY PROJECT PLAN

ID	Task Name	Duration	Start	Finish	Predecessor	Timeline																										
						4th Quarter	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter																		
						Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct
0	<b>Erie County Radio Project</b>	<b>480 days</b>	<b>Mon 9/17/07</b>	<b>Fri 7/17/09</b>		▶																										
1	Microwave	280 days	Mon 9/17/07	Fri 10/10/08		▶																										
2	T-Mobile Negotiations	9 mons	Mon 9/17/07	Fri 5/23/08		▶																										
3	Construction of Microwave	5 mons	Mon 5/26/08	Fri 10/10/08	2	▶																										
4	Microwave Complete	0 days	Fri 10/10/08	Fri 10/10/08	2,3	▶																										
5	<b>Frequency Work</b>	<b>380 days</b>	<b>Mon 2/4/08</b>	<b>Fri 7/17/09</b>		▶																										
6	Frequency Acquisition 450 MHz	18 mons	Mon 3/3/08	Fri 7/17/09		▶																										
7	Recapture "SWN" Frequencies	6 mons	Mon 3/31/08	Fri 9/12/08		▶																										
8	Frequency Acquisition 420 MHz	4 mons	Mon 3/3/08	Fri 6/20/08		▶																										
9	Niagara Frequencies	4 mons	Mon 2/4/08	Fri 5/23/08		▶																										
10	Frequency Work Complete	0 days	Fri 7/17/09	Fri 7/17/09	6,7,8,9	▶																										
11	<b>System Design</b>	<b>130 days</b>	<b>Mon 2/4/08</b>	<b>Fri 8/1/08</b>		▶																										
12	Site Selection	3 mons	Mon 2/4/08	Fri 4/25/08		▶																										
13	Preliminary Propagation Studies	21 days	Mon 3/17/08	Mon 4/14/08	12SS+	▶																										
14	Preliminary System Design	1 mon	Mon 4/28/08	Fri 5/23/08	12,13	▶																										
15	Customer approval	10 days	Mon 5/26/08	Fri 6/6/08	14	▶																										
16	<b>Site Work</b>	<b>70 days</b>	<b>Mon 4/28/08</b>	<b>Fri 8/1/08</b>		▶																										
17	<b>Site Assessment</b>	<b>70 days</b>	<b>Mon 4/28/08</b>	<b>Fri 8/1/08</b>	12	▶																										
18	Tower, Shelter, Grounding, Security, Power	2 wks	Mon 4/28/08	Fri 5/9/08		▶																										
19	Site Improvements	2 mons	Mon 5/12/08	Fri 7/4/08	18	▶																										
20	SECRA Studies	3 mons	Mon 5/12/08	Fri 8/1/08	18	▶																										
21	Site Work Complete	0 days	Fri 8/1/08	Fri 8/1/08	18,19	▶																										
22	<b>Procurement</b>	<b>225 days</b>	<b>Mon 8/4/08</b>	<b>Fri 6/12/09</b>		▶																										
23	Order Equipment	5 days	Mon 8/4/08	Fri 8/8/08	11	▶																										
24	Manufacture Equipment	30 days	Mon 8/11/08	Fri 9/19/08	23	▶																										
25	Stage Equipment	30 days	Mon 9/22/08	Fri 10/31/08	24	▶																										
26	Install Site Equipment	60 days	Mon 11/3/08	Fri 1/23/09	25	▶																										
27	Install Central Site Equipment	30 days	Mon 1/26/09	Fri 3/6/09	25,26	▶																										
28	Optimize System	30 days	Mon 3/9/09	Fri 4/17/09	27	▶																										
29	Coverage Testing	3 wks	Mon 4/20/09	Fri 5/8/09	28	▶																										
30	Prepare CATP Documents	3 wks	Mon 5/11/09	Fri 5/29/09	29	▶																										
31	CATP Signoff	2 wks	Mon 6/1/09	Fri 6/12/09	30	▶																										
32	System Completed	0 days	Fri 6/12/09	Fri 6/12/09	31	▶																										



Project: Erie County Radio Project  
Date: Tue 3/18/08

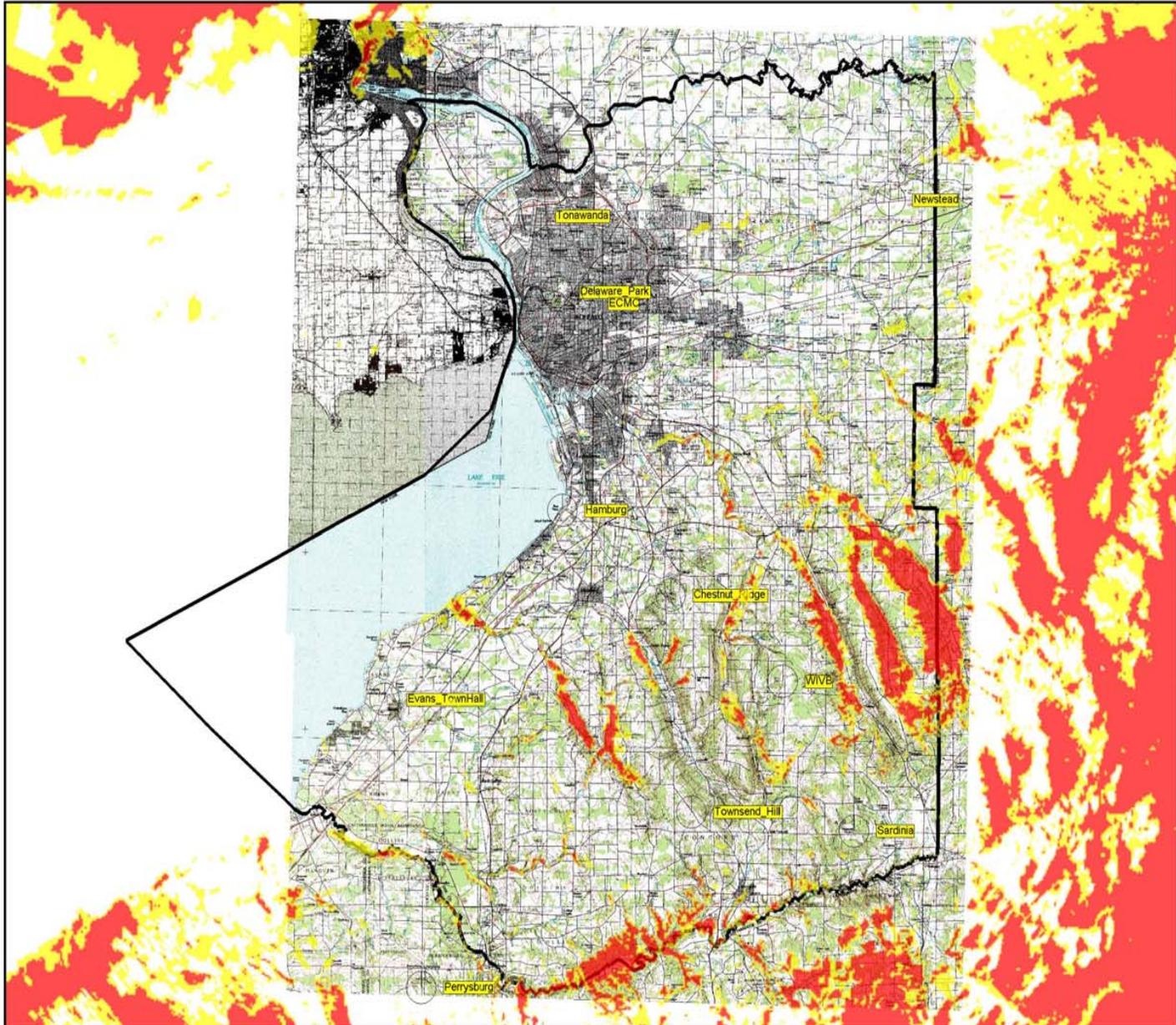
Task Progress Summary External Tasks Deadline

Split Milestone Project Summary External Milestone

# Preliminary Prop Study

- Identified 11 prospective sites
- Additional sites may be needed





SIGNAL™: ErieCo\_NY

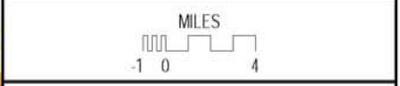
Prop. model 1: Anderson-2D v1.00  
 Time: 50.0% Loc.: 50.0%  
 Prediction Confidence Margin: 11.5dB  
 Climate: Continental Temperate  
 Land use (clutter): USGS-EDX format (.151 files)  
 Atmospheric Abs.: none  
 K Factor: 1.333

Received Power at remote

Yellow	> -101.4 dBmW	DAQ 3.4 or better
Orange	-111.5 to -101.4 dBmW	DAQ 2.0 - DAQ 3.4
Red	< -111.5 dBmW	Unsatisfactory Performance

Display threshold level: -250.0 dBmW  
 RX Antenna - Type: OMNI  
 Height: 6.0 ft AGL Gain: 0.00 dBd  
 County Boundary

Notes  
 P25 Digital Simulcast Radio Network



Erie County, New York  
 Conceptual UHF Performance  
 Portable Talk-Back Outdoors March 2008

# Next Steps

- Continue negotiations with T-Mobile for microwave upgrade
- Kimball to continue efforts to license frequencies on behalf of the County
- Kimball to complete narrow-banding of existing UHF frequencies on behalf of the County
- County to investigate additional sites (as required) based on results of available coverage maps
- Execute agreement with Skywave regarding SOW



# QUESTIONS ??

If you have questions, Please Contact  
Kevin Hughes at 858-4832  
Jerry Whittington at 858-4799

