EMWIN-Denver Task Force

Progress Meeting Westminster Public Safety Center October 30, 2003

EMWIN-Denver Project Chronology

2002:

Apr Kevin Stewart fact-finding trip to Houston (w/Harris County OEM, Appraisal District, Read Communications)

- Nov UDFCD sponsors EMWIN Workshop at Colorado OEM (w/Frank Gutierrez, Jim Robinson, David Read from Houston)
 2003:
- Feb UDFCD Board approves \$15k implementation assistance
- Mar UDFCD hires Fort Worth consultant Ray Bartik
- Apr Project scoping meeting held at Westminster (Ray meets with EMWIN Task Force)
- May DHS grant funding application includes EMWIN
- July Ray completes preliminary design report
- Oct Task Force meeting

Resolution No. 3



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EMWIN Houston

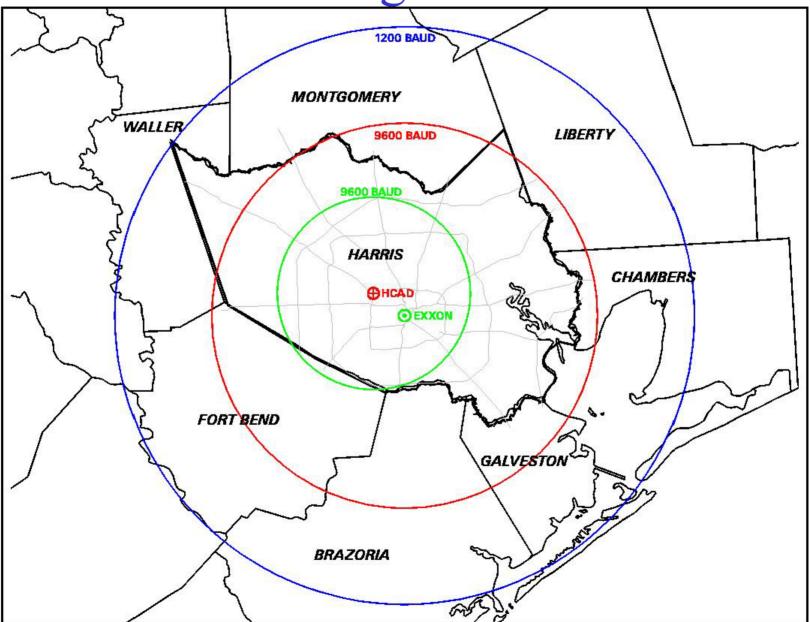
Broadcasting the NWS Emergency Managers Weather Information Network in Southeast Texas

CURRENT WATCHES January 29, 2003

Authorization to Develop an Emergency Managers Weather Information Network



Broadcast Coverage for Houston Area





Urban Drainage and Flood Control District

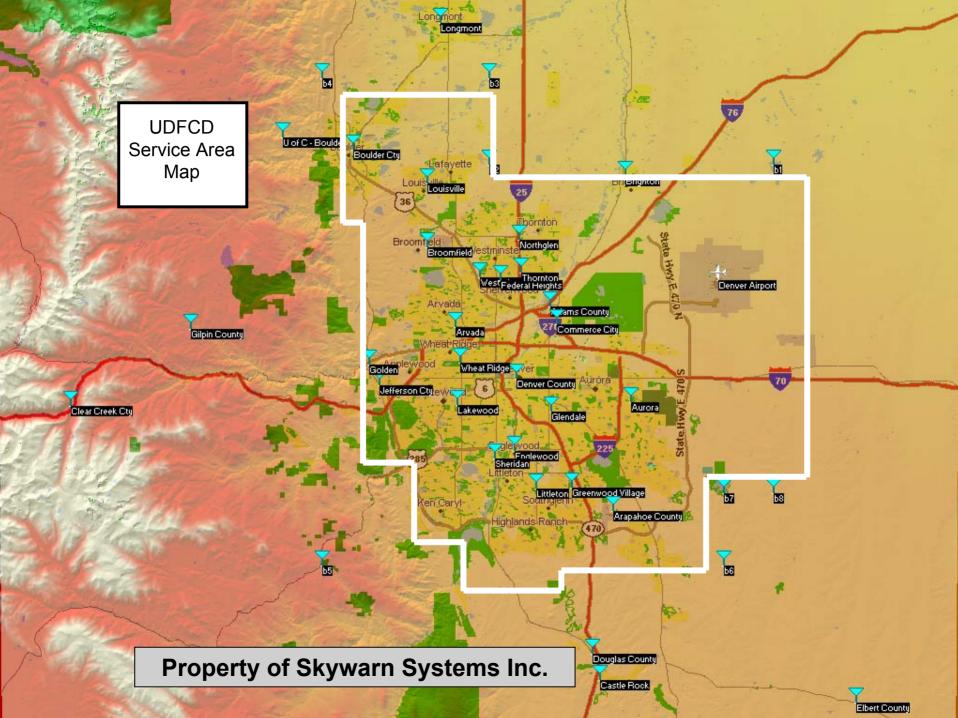


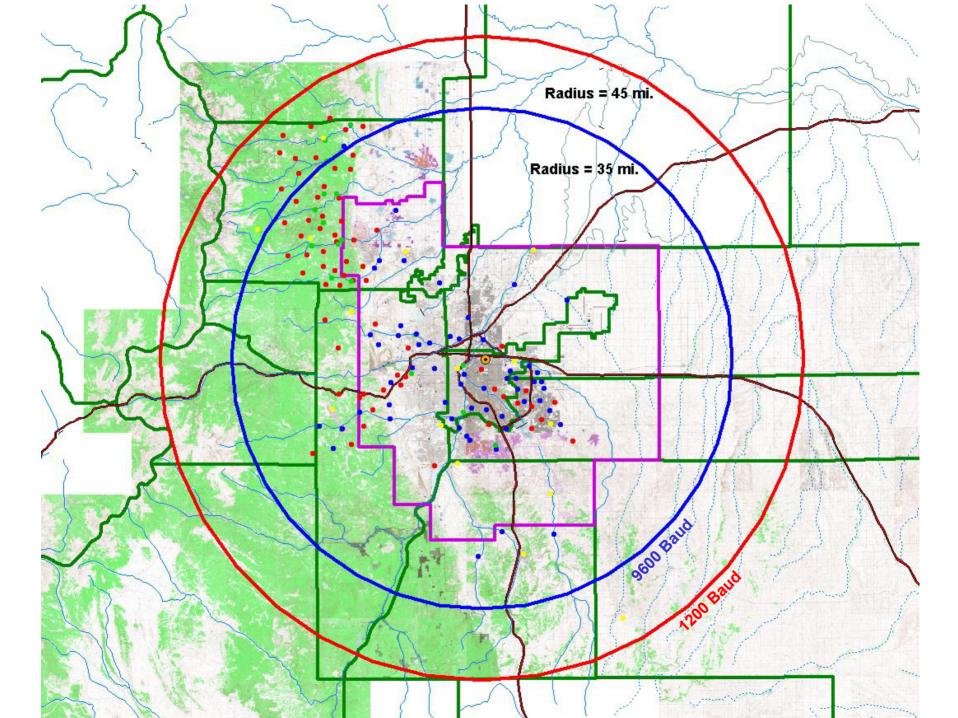


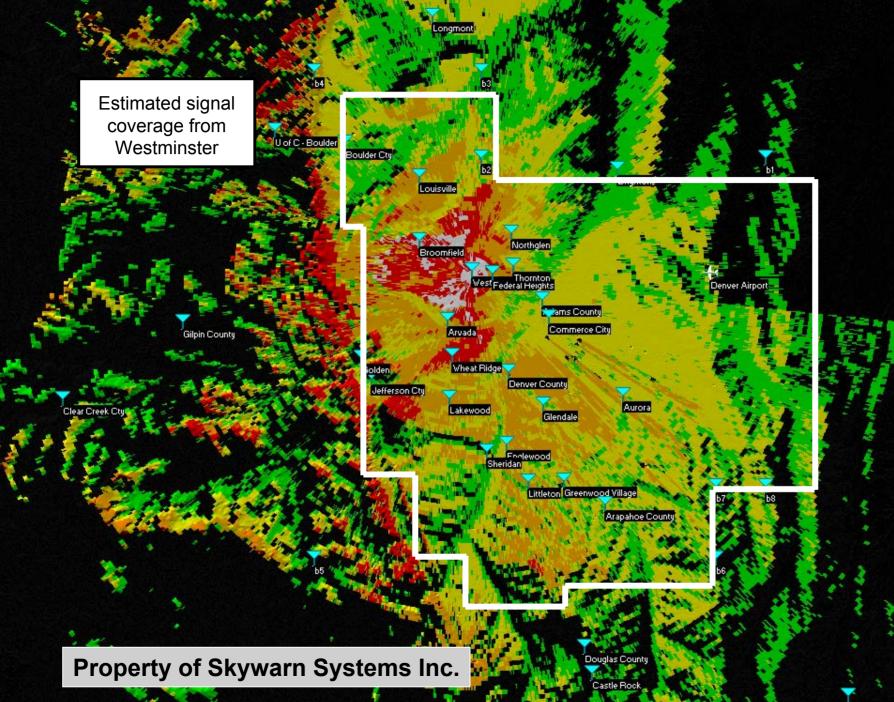
Prepared by



July, 2003



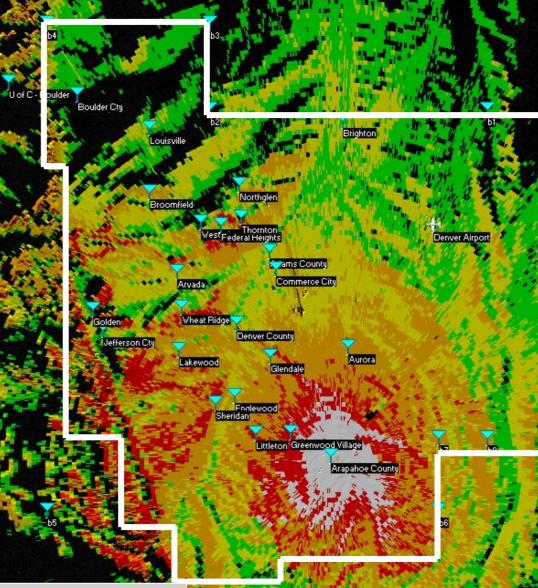




Estimated signal coverage from Arapahoe County

Clear Creek Cty

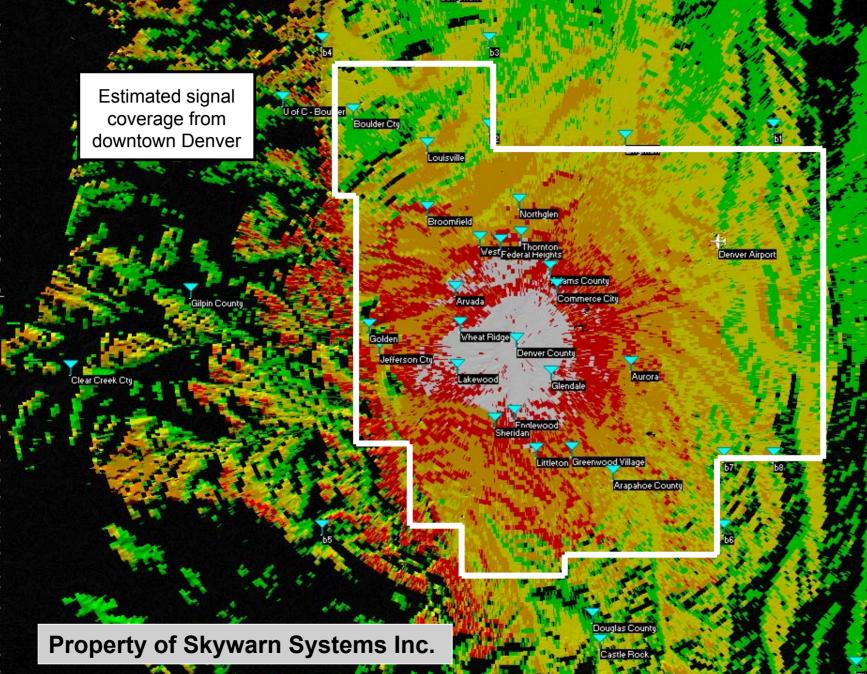
Property of Skywarn Systems Inc.



Douglas Count

Longmon

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Elbert County

Appendix D Preliminary Equipment List**

QTY	ITEM	UNIT PRICE	EXT. PRICE
1	100W VHF reconditioned transmitter	\$3,200.00	\$3,200.00
1	Transmit antenna 6dB gain	662.00	662.00
1	Bandpass cavity	600.00	600.00
1	single isolator 125 w	395.00	395.00
1	100 feet 7/8" feedline	754.00	754.00
2	3 foot flex jumpers	109.50	219.00
1	6 foot jumper	120.00	120.00
1	9600 bps modulator	345.00	345.00
	SUBTOTAL Transmitter		6,295.00
1	WX13 rx and 6' mesh dish	1,595.00	1,595.00
1	snow cover - 6 foot	159.00	159.00
1	non-penetrating roof mount	95.00	95.00
1	shipping	75.00	75.00
	SUBTOTAL Satellite Rcvr		1,924.00
2	Dell Computer Model 2350	1,250.00	2,500.00
1	DSL / Cable Modem	122.00	122.00
1	Ethemet Router	125.00	125.00
1	KVM Switch	99.00	99.00
2	Serial cables	14.00	28.00
3	Ethemet Cables - 6 ft	10.00	30.00
1	Ethernet cable - 25 ft.	18.00	18.00
1	RS-232 switchover unit	350.00	350.00
	SUBTOTAL Computer Equipt.		2,846.00
	TOTAL		\$11,065.00

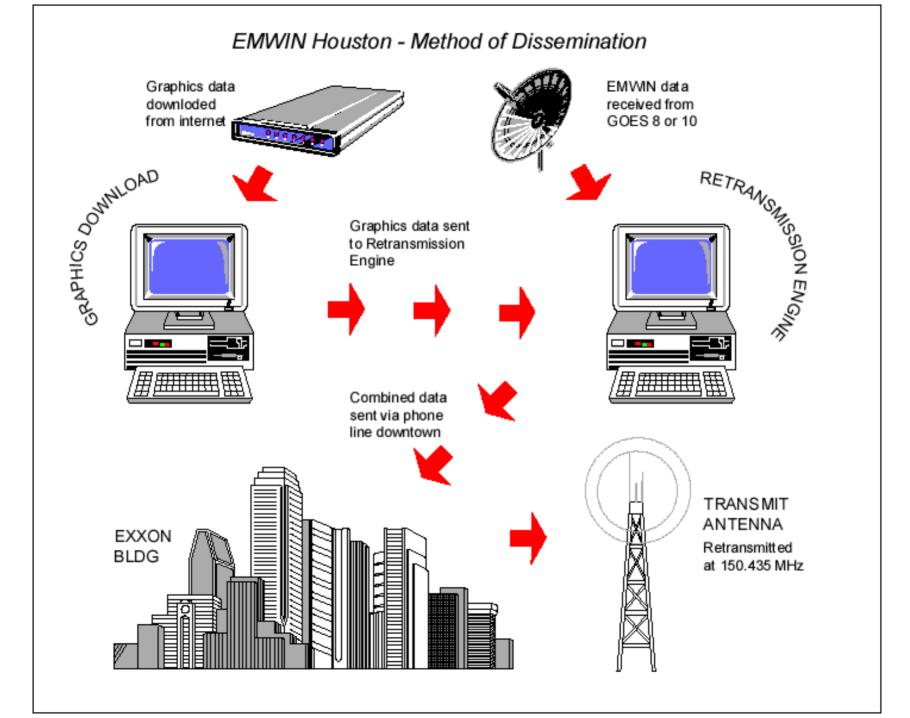
Project Implementation—Phase I

Some questions to answer today:

- 1. Is this project a go? YES!
- 2. Who will host the downlink equipment? *(Westminster?, District, others options?)*
- 3. Who will host the rebroadcast equipment? *(Westminster?, Xcel?, Quest?, Arapco?, others?)*
- 4. Should District proceed with procuring equipment now?
- 5. How do we fund high-speed Internet connections? *(Qwest DSL?, Comcast Cable?, other partners?)*
- 6. Who can help with installation? *(cost or in-kind services?)*
- 7. What other equipment is needed and who will provide it?
- 8. Who will host the EMWIN-Denver website?
- 9. What is a reasonable time frame?

EMWIN-Houston System Review

EMWIN-Denver Progress Meeting Westminster Public Safety Center October 30, 2003



Broadcast User Base in Houston

- Harris County
 Government Offices
- Galveston and Fort Bend County EOCs
- Area Cities
- Harris County Sheriff and Constable Patrol Vehicles

- Refineries and Manufacturing Plants
- Lifeflight Dispatcher
- Six Flags Astroworld
- Skywarn Volunteers
- PBS Stations
- Independent School Districts

Houston Control Point Data Connections

- Dedicated T-1 circuit for webserver, mailserver, and image acquisition
- Ethernet connection to 168.7125 transmit encoder on HCAD building
- Two-wire leased circuit to ExxonMobil for 1200 baud datastream
- Four-wire leased circuit for 9600 baud data

Houston Downlink Antennas





Houston Downlink Requirements

- 2, WX-13 GOES EMWIN Receivers
- 1, WX-13ATX Automatic Signal Loss Switchover Unit
- 1, WX-96ENC, 9600 Baud Encoder for Data Transmission2, 6' Mesh Dishes /w Snow Covers
- Total Estimated Cost: \$3,962

Main Antennas at ExxonMobil



9600 Baud Equipment Cabinet

