

WWRA OPS COMMITTEE TASK TRACKING (3 July 2004 to 5 March 2005)
CURRENT PRIORITY ACTION ITEM – ACTION ITEM--INDEFINITE HOLD – COMPLETED ITEM

2004 2005	Task	Order Status	Op Status	Work	Equipment	REMARKS	B J G K	Target Due Date
2/1/05	05192	-	Yes	<p align="center">PLAN</p> <p>Connect the Service monitor (SM) directly to the receiver input and check useable sensitivity @12db sinad. This is considered the useable sensitivity benchmark referred to as BM. Record reading. Connect the Iso-tee to the RX input and terminate it with a load. Connect the SM to the isolated port and calibrate the tee for 30 DB of isolation @ 12 DB sinad. This will be the isolated benchmark. Record reading. Remove the load and connect the duplexer to the tee. Set SM to achieve 12 DB sinad. Record reading. Any difference between this measurement and the isolated BM is considered noise floor desense.</p> <p align="center">VHF READINGS</p> <p align="center">.280 KHz Transmit Frequency 41 Watts Output 5 KHz Modulation</p>	Repeater System	<p>Bill, N7YT Kevin, WQ1B Mike, W7MKY George, N7GME</p> <p>UNIDAPT-RF-SAMPLER-SILVER RFA – 4059A \$51.40 Westlake Electronics 206 6221728</p> <p>RF Industries Mira Mesa, San Diego, CA 800 233-1728</p> <p>CONTINUED BELOW</p>	B K M G	COMPLETED 2/19/05

2004 2005	Task	Order Status	Op Status	Work	Equipment	REMARKS	B J G K	Target Due Date
2/1/05	05192	-	Yes	<p>PLAN [CONT.]</p> <p>Remove tee and connect it to the outbound side of the duplexer, terminate with load. Test for 12 DB sinad, record reading. The difference between this reading and the Iso BM is the insertion loss through the duplexer. Now enable the transmitter, repeat test, and record reading. The difference between this reading and the Iso BM will reflect desense caused by the transmitter through the duplexer.</p> <p>Remove the load and connect the antenna to the duplexer. Repeat test, record reading. Any difference between this reading and the previous one will reflect desense caused by the antenna system. Compare this reading to the isolated benchmark to calculate total system desense.</p> <p>Kevin, WQ1B</p> <p>UHF READINGS</p> <ul style="list-style-type: none"> -120 Threshold -85 Calibrate ISO-T -85 Antenna Connected -118 Duplexer (antenna-(2 db loss) -85 Through Isolator [Benchmark] -80 Useable sensitivity Transmit w/Load -5 DB of desense through Dummy Load -81 with antenna connected -4DB of desense through dummy load -116 to bring up and hold it -114 useable desense 30 Watt power output 1.3 KHz OFF frequency 2.7 Transmit Deviation 	Repeater System	<p>CONTNUED</p> <p>Bill, N7YT Kevin, WQ1B Mike, W7MKY George, N7GME</p> <p>NOTE: Most testing on UHF was completed however a signal could not be generated in below 350MHz in order to test the VHF repeater receiver.</p> <p>NOTE: Checked all UHF cavity connectors and added 90 degree N connector to stressed coax.</p>	B K M G	<p>16 Hrs.</p> <p>COMPLETED 2/19/05</p>

2004 2005	Task	Order Status	Op Status	Work	Equipment	REMARKS	B J G K	Target Due Date
2/1/05	05193	-	Yes	Sweep Antenna Coax system My plans for sweeping the feed lines are to use the Site master sweep gear that I have access to and test the Feed lines for SWR and Return loss. This will be a quick assessment of the state of the entire run up to the antenna. If the Ops Committee thinks this would be worthwhile, it can investigate options on purchase of sweep gear. Ed, KD7YRW Ed, Bill & George shut down VHF/UHF repeaters and Ed connected his sweep gear to both coaxes. Readings were excellent and Ed's gear confirmed both Bill and George's SWR meters to be calibrated correctly. Readings on both VHF/UHF coaxes were either 1:2 to 1 or 1 to 1.	Repeater COAX Antennae System	Bill, N7YT Ed, KD7YRW George, N7GME Readings on both VHF and UHF coaxes were excellent with less than 1:12 to 1 reading.	B E G	12 Hrs. COMPLETED 5 Feb 05
7/3/04	04190	Shipped 2/28/05 Returned 3/13/05	-	Bill, N7YT and George, N7GME brought Motorola communications service monitor up to hill to place in storage area and check for necessary cable lengths. Ordering 4 10-foot cables so as to service the repeaters and controllers conveniently. 2/19/05 A signal could not be generated in below 350MHz in order to test the VHF repeater receiver. 1. Service monitor needs to be repaired so as to work on VHF. 2. Remove batteries. Completed 2/19/05. 3. 2-24-05 - Decision to send back to Motorola for repair. 4. 3-13-05 – Repaired and returned.	MOTOROLA Comm. Service Monitor	Installed on hill Needs to be checked out with familiarization operations for users. Returned from Motorola Calibration Lab: costs \$1475.00	B G	4.5 Hrs. -2-24-05 COMPLETED 3-13-05
3/3/05	05196	-	-	3/3/05 – Received request from K7GPS to adjust our APRS Digipeater to reduce transmission periodicity to conform to latest protocol. Changed to TRACE3-3.	VHF Digipeater		B G	2 Hrs. COMPLETED 3/4/05