

**WWRA OPS COMMITTEE TASK TRACKING (12 November 2006 to 21 March 2008)****CURRENT PRIORITY ACTION ITEM – ACTION ITEM--INDEFINITE HOLD – COMPLETED ITEM**

2004 2006	Task	Order Status	Op Status	Work	Equipment	REMARKS	OPS Comm	Target Due Date
11/12/06	06223	Ordered 10/12/06 Received 10/21/06 Ordered 12/7/06 Received 12/11/06		12/6/06 – Installed HD to replace temperature probe that seemed to be reading temperatures too high and too low depending on season. After installing the HD it appears the problem is in the APRS weather control head. 12/6/06 – Decision to procure a 100 foot extension cable so HD can be co-located with the rest of the weather sensors under the protection of the small tower up on the generator building. 6/15/07 – Decision made to work on this on a later hill trip.	Humidity Detector	Note on APRS Control Head: We may have to send back the APRS U-2000 control head later. HD is working properly upon installation. Need to install extension cable.	B G	<b>12/20/06</b> <b>1 Hour</b> <i>Install ext. cable</i> <i>Next Hill Trip</i>  <b>6/25/07</b> <b>1 Hour</b> <b>COMPLETED</b>
12/20/06	06226	Ordered 6/25/07 Received --	Yes	12/20/06 – Temperature display for APRS is at 17° while temperature reported by weather vox is the local correct ambient temperature. Both weather devices are receiving information from the same sensors. 3/3/07 – Technician Jim Stewart at Peet Brothers said the probe coming from the temp probe must be plugged into the Aux #2 slot while the humidity detector is plugged into the main connector. Need to do some more research. 4/10/07 – Rebooted U 2000 APRS control board and got same temperature result. Ordering new temperature probe. 5/8/07 – Placed new temperature probe in service but still has 21°F. Next step will be to replace keypad control panel with loaner and send the old one back for replacement. 6/23/07 – Changed out U-2000 with one of George's, N7GME unit and got temperature readings to change to ambient temperature. Ordered new keypad unit for WWRA. 6/25/07 – Shipped old U-2000 back to Peet Bros for repair of replacement of refurbished unit. 8/31/07 – Installed repaired U-2000 and new temperature probe. Completed repair.	U-2000 Temperature Readings		G	<b>Ongoing</b>  <b>3/3/07</b> <b>Hill Trip</b> <b>2 hours</b>  <b>4/10/07</b> <b>Hill Trip</b> <b>1 hour</b>  <b>6/23/07</b> <b>Hill Trip</b> <b>1 hour</b>  <b>8/31/07</b> <b>1 hour Hill Trip</b>  <b>COMPLETED</b>
5/14/07	07231	Ordered 5/16/07 Received 5/24/07	No	5/14/07 – Damaged UHF DSC meter and volume knob when coil of coax fell against cabinet. Ordered replacements. 6/23/07 – N7YT and N6ECV replaced damaged parts. Completed.	UHF Repeater Panel		G B E J	<b>23 June 2007</b> <b>Hill Trip</b> <b>1 hour</b> <b>COMPLETED</b>

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6/27/07	07234	-	Yes	6/27/07 – Auto-patch did not work. 6/29/07 – Called Qwest to check lines. Found broken “solid” wire on wall. Repaired and put back in commission.	Auto Patch		G J	<b>Hill trip 06/29/07 2 hours COMPLETED</b>
6/29/07	07235	-	Yes	6/29/07 – APRS quit transmitting. Found broken solid wire near solder joint. Replaced power cable with strand wire and powered up APRS transmitter. Everything else functioning correctly.	APRS		G J	<b>Hill trip 06/29/07 2 hours COMPLETED</b>
7/15/04	04191	-	Yes	Audio on UHF repeater is high causing as best described as a rumbling sound when no voice audio is present. Audio levels will be adjusted on next scheduled trip to hill. Mike, W7MKY to manufacture testing cable. N7YT, Bill to design and provide schematic as of 02/01/05. <b>6/15/07</b> This project will be the main reason for the trip to the hill 23 June. 6/23/2007 – Bill, N7YT, George, N7GME, Jim, N6ECV & Eric, KE7EDW worked on a few projects but this was a training work trip. After several attempts to lower the courtesy tone adjusting C-35 all the way in either direction and finally leaving all the way to the left it did not make any difference. Also adjusted VOICE pot ¼ to left. No difference in volume.	UHF & VHF Repeater Audio Levels	Note: Both VHF and UHF audio levels need adjusting including the courtesy tones.  Note: This adjustment was attempted and the audio volume levels are at their lowest.	B G	<b>Hill Trip 23 June 2007 20 Hours  COMPLETED 23 June 2007</b>
6/15/07	07230	-	No	6/15/07 – Develop a plan to do a “hands-on” rigging of the Alternate VHF repeater to produce a document checklist and to train all four operations committee members. 6/23/07 – After everyone witnessed the shifting of coax antenna connections it was decided to wait until a circuit was created to hook the Alternate VHF repeater to the PA-100 amplifier.	Alternate VHF Repeater		G B J E	<b>23 June 2007 Hill Trip COMPLETED</b>

2004 2006	Task	Order Status	Op Status	Work	Equipment	REMARKS	OPS Comm	Target Due Date
9/3/07	07234	Ordered 9/4/07 Received 9/24/07	No	<p>9/3/07 – Entire repeater system shutdown at 2000. It was determined that the power supply had failed.</p> <p>9/4/07 – Since it was raining heavily with accompanying thunder and lightning at the time of failure a trip to the hill was not done until 0630.</p> <p>Upon inspection the UPS had suffered some sought of voltage transient and just shut down. RESETTING the UPS was all that was needed to return the entire system to operating parameters.</p> <p><b>See Note:</b> Procurement of a new technology UPS with a more generator compatible switching circuit is needed so we ordered a unit that runs on AC continuously obviating the need for a complicated switching controller.</p> <p>12/3/07 – UPS caused failure again. 3<sup>rd</sup> time. Once again it failed during heavy weather so it was decided to wait until next morning to install new UPS. Installed 12/4/07.</p> <p>12/4/07 – We finally pinned down the different shutdowns to the UPS. We originally were investigating controller issues. Our host tests generators routinely so this has affected our system.</p>	UPS	<p><b>NOTE:</b> This is the second time this particular UPS did not respond correctly. On September 2, 2006 it failed even when AC line voltage was available. At that time we assumed the battery was at fault and replaced it. However this time around further investigation of the current UPS is that it is basically unsuitable for use with generators since generators "hunt" when initially lit off for the operating frequency and that is intolerable to the switching capability of this unit so the potential for failure is there. We suspect that there have been additional failures of the repeaters and then returned to normal without us realizing it. In one case there was no generator light off but instead the only answer is that the switching circuitry in the UPS was affected by the lightning storm and shut the unit off. This unit was first installed in 1988 and since previous Ops volunteers have worked on it that its reliability is suspect.</p>	B G	<p><b>9/4/07 Hill trip 2.5 hours</b></p> <p><b>12/4/07 Hill trip 4 HOURS</b></p> <p><b>COMPLETED</b></p>
11/23/07	07236	-	No	<p>11/23/07 – APRS Digipeater went off the air. We suspect the old culprit that the TNC went out.</p> <p>12/4/07 – Replaced with backup TNC. Returned to normal operation</p>	KPC-9612		G	<p><b>COMPLETED 12/4/07 1 hour</b></p>
11/29/07	07237	-	No	<p>11/29/07 – Rain gauge has not been feeding data to APRS and Weather Vox for last two weeks. Probably gauge has pine needles plugging hole. Needs to be cleaned.</p> <p>12/4/07 - Found 2 pine needles and dust debris with a full rain bucket. It was easily cleaned and returned to normal operation.</p>	Rain Gauge		E	<p><b>COMPLETED 12/4/07 1 hour</b></p>
12/4/07	07238	-	Yes	<p>. Need to press reset buttons on APRS to transmit weather data?</p> <p>3/21/08 – Programmed WWRA TNC and installed.</p> <p>3/21/08 – Pressed the proper buttons and got weather transmissions started up again on APRS.</p>	APRS Weather	<p>Note: Pressing the buttons on U2000 control head to transmit weather to TNC must be done at the site so requires a hill trip to accomplish.</p>	G	<p><b>COMPLETED 3/21/08 3 hours</b></p>