

**WWRA OPS COMMITTEE TASK TRACKING (1 February 2005 – 3 January 2014)****CURRENT PRIORITY ACTION ITEM – ACTION ITEM – INDEFINITE HOLD – COMPLETED ITEM**

2005 2014	Task	Order Status	Op Status	Work	Equipment	REMARKS	OPS Comm	Target Due Date
2/1/05	05194	-	Yes	Cabinet wiring harnesses need to be overhauled and refurbished. 12/28/13 – Removed one length 2 feet of VHF receiver antenna coax in cabinet by moving UHF repeater above new Unit B VHF repeater.	Controller Repeater Cabinets	<b>Note:</b> Removing or replacing some antenna coaxes helps eliminate excess connectors.	G	Long Term Project
5/14/05	05201	Ordered 5/20/05 Received 6/2/05  Ordered 3/21/12 Received 3/29/12	Yes	Since we expect to be in the same location at the site we decided to get the materials and make up some new coax runs from repeater cabinet to cavity cabinet thereby eliminating many of the connectors, and associated potential problems that they present, installed with the current installation. 5/20/05 – Ordered 6 Male N-connectors 12/28/06 – We had to shut down the UHF repeater due to some RF leaking which was blanking out the VHF repeater. Ran checks with Byrd wattmeter [21 watts forward power 0 reflective power] and checked all connections in the cabinet and RF leak disappeared. 3/21/12 – Ordered three 6-foot coaxes with N-connectors installed. 4/28/12 – Drilled holes and installed one 6-foot coax. Was able to reroute other cables by drilling on 2" hole. Need to order longer coax to replace one on floor between cabinets.	Coaxes Between Repeater & Cavity Cabinets	6/13/06 – While visiting the site the area in the transmitter room that we were offered to move to be being taken over and new racks for a new tenant are being installed. We are happy we stayed where we are presently located. <b>Note:</b> Work on 12/28/06 visit emphasizes the need to change out much of the old coax and replace connectors.	G B	<b>Coax Connector Work TBD</b>  <b>Hill Trip 12/28/06 3.5 Hours</b>  <b>Hill Trip 4/28/12 2.5 Hours</b>
5/26/06	06209	-	Yes	5/26/06 – Set Squelch LOOSE. 6/23/07 – Set Squelch LOOSE.	VHF UHF Repeaters	<b>NOTE:</b> This is an ongoing operations policy until a decision to set squelch tight is made.	B G E J	<b>5/26/06 .25 hour</b>
6/24/07	07232	Related to task 05194	No	6/23/07 – After encountering several problems with loose 12VDC connections and wiring that has been poorly configured since before 1999 discussions led to procuring a distribution panel and re-wiring entire cabinet. 6/25/07 – Talked to Port Townsend Marine Electric about building a 12VDC electrical distribution box. 8/21/07 – Installed Electrical Distribution panel. 8/27/07 - Wired main power with #10 gauge. 8/27/07 - Wired UHF Control Link.	12VDC Electrical Distribution Panel & Repeater Cabinet Wiring	<b>Note:</b> 8/20/07 - After installation of panel it will be several trips to install new wiring runs and hook up all equipment to this panel.	G J B	<b>Installed 8/20/07 Hill trip 6 hours</b>  <b>8/27/07 Hill trip 4 hours</b>

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6/25/07	07233		No	6/25/07 – Ops committee responsible for maintaining repeater decided to pursue procuring a backup Astron power supply since we thought we had lost our only one during field day hill visit. We need to get information from data plate on next hill visit. 6/29/07 – Current power supply is an ASTRON 50M rack mounted unit.	Backup 12VDC Power Supply		B G	<b>Procurement TBD</b>
7/3/08	08249	Ordered 7/3/08	Yes	7/3/08 – One pin on Molex connector on PA-100 broke so we ordered a replacement and some spares.	PA-100 Molex Connector		G	<b>TBD</b>

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3/31/11	<b>11262</b>	Procured 3/31/11 Shipped 5/2/11 Received 6/20/11	NO	<p>3/31/11 – After an email vote to the BoD it was unanimous that the operations committee be authorized to purchase a second VHF repeater identical to the one in use now. This will be mated with the new RLC Club controller for a backup system. The intent is to remove the old 1978 Kendecom VHF “Alternate” repeater system and sell on E-bay.</p> <p>6/20/11 – Working on new DB25 – DB9 cable.</p> <p>10/7/12 - After several months of programming and testing installed new controller and VHF unit today. Left older VHF repeater on hill and brought controller down to be shipped to manufacturer for repair and refurbishment.</p> <p>10/7/12 – Made second run to hill do to an inadvertent lockup between Port 4 Wx-Vox and Port 5 VHF due to some programming issue. Fixed problem but need another hill trip after some programming and to turn Weather Voice back on and test. Everything looks very good giving the WWRA more redundancy in the VHF system.</p> <p>10/8/12 – VHF repeater locked up and went off the air in the morning during net. Went up hill for third time and removed some gear. After leaving hill the VHF repeater went off the air again. Went up the hill for fourth time. Removed complete new system and reinstalled old VHF repeater. Working well.</p> <p>10/9/12 – Called ACS manufacturer with problem and was instructed on how to test the repeater by shorting our yellow/white wire in unit to get it to transmit into dummy load. When attempting to turn center “transmit” switch to on position during preps to test it was discovered that the switch was stuck. This could be the “mechanical” issue we were looking for since we exhausted all of the programming and software corrections we could think of. Called ACS with this finding and they are sending us another switch.</p> <p>10/11/12 – Conducted test as directed by ACS technician, James and it failed. Shipped back to ACS to arrive 10/19/12.</p> <p>10/12/12 – 1. Re-connected WxVox to system. 2. Soldered 12V lead on UHF rptr. 3. Added soldering iron to tools.</p>	<b>NEW ACS And Second VHF 5000B Series Repeater</b>	The new system will be used as an emergency backup to the current VHF system using the same programming matrix. This affords much more streamlined programming for operations committee.	G B	<p>It is contemplated that this new upgrade will take several years to implement this installation.</p> <p>Bench work <b>123 hours</b> 6/20/11-10/7/12</p> <p>Hill work <b>8 hours</b> 10/7/12</p> <p>Hill Work <b>2 hours</b> 10/12/12</p> <p>Hill Work</p>
		10/9/12 Switch Shipped Received						
		10/11/12 Return Shipped to ACS						

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3/31/11	<b>11262 Cont.</b>	Nov 2012 Returned From ACS	No	5/19/13 – Returned to hill with controller and VHF repeater. Installed and then made two additional runs to correct problems. VHF repeater finally locked up in transmit at end of day. 5/20/13 – Brought the NEW Controller and VHF repeater back down for further analysis. 7/2/13 – Sent controller back. Was okay except for a missing nut on serial port. 12/28/13 – Installed NEW VHF Unit B repeater and it is working properly by setting the COR and PL active levels to HIGH since Unit B is constructed with these components to operate HIGH.	<b>NEW ACS And Second VHF 6000 Series Repeater</b>	<b>Note:</b> This is the second time we have had issues with this controller and VHF repeater. Placed on bench for further testing.		Hill Work  <b>7 hours</b> 5/19-20/2013  <b>3 hours</b> 12/28/13  <b>COMPLETED</b> <b>12/28/13</b> <b>Repeater Portion</b>
4/28/12	12265 & 12268		No	4/28/12 – Temperature for APRS is not working on the control unit. Need to swap out the control unit with another. 9/15/12 – APRS weather has been OOC for some time. It started with losing temp but has now lost all info to the APRS display. 9/15/12 - The Wx-Vox is working fine getting its data from the same sensors so it must be the APRS keypad control unit. Sending it back to the manufacturer. 10/7/12 – Replaced with repaired unit and still no temperature. Going to replace cable and/or junction boxes on next hill trip. 10/12/12 – Replaced the two junction boxes in an attempt to get temperature display on APRS. Temperature to APRS unit still not working. 11/3/12 - After discussion with Peet Bros. It was learned that a second temp probe needs to be connected. Will do on next trip. 7/14/13 – APRS weather was not working. Replaced 9V BATTERY in both keypad control units. Reset and programmed output for APRS and WxVox.	APRS Weather Temperature & Weather APRS Temperature Display	Note: Temperature works on WxVox but not on APRS unit. Need to check with Peet Bros  Note: Combined Tasks 12265 and 12268.	GB	4/28/12 .5 hours on hill  9/15/12 1.5 hours hill time  10/12/12 Hill Work ½ hour
9/15/12	12269		No	7/15/12 – Took readings on output of VHF transmitter with Byrd Wattmeter. 20 watts forward power and 0 reflective power readings. The VHF repeater is transmitting at 20 watts. 12/28/13 – By observing power supply output Unit B VHF repeater now operating at about 100 watts.	VHF Repeater		GB	9/15/12 1 hour hill time  <b>COMPLETED</b> 12/28/13 1 hour

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7/14/13	13271	No	Partial	7/14/13 – Modem 33.6 Modem is not working properly. Checked it out via telephone line on hill and it is responding however no echo on the computer screen. 12/28/13 - Procured new Robotics modem but still do not have the echo return on the computer screen when connected. Suspect this may resolve itself when new Unit B controller is installed.	Modem	<b>Note:</b> We can program controller remotely via computer landline by listening to controller voice report on UHF but receive no echo return on computer screen.	G	7/14/13 2 hour Hill Trip
12/14/13	13272	No	No	12/12/13 – Unit A VHF repeater has intermittent static problem. It comes and goes with no time to check it by the time tech's get to hill. It was decided to swap out the whole VHF repeater. 12/14/13 – In the process of replacing one unit with another we discovered an issue with the PL tone board in unit B. When installing second VHF repeater B we discovered that the PL Tone has an opposite polarity than the rest of the system. This needs to be corrected before further work. 12/28/13 – Installed new Unit B VHF repeater. 12/30/13 – VHF repeater went down during morning use. Removed Unit B and reinstalled Unit A. 1/3/14 – Static on the VHF repeater receiver has been an intermittent problem. The repeater [Unit A] has actually gone down but has "healed" itself frustrating any attempts to trouble shoot it. It was decided to wait for Unit B to come back from the manufacturer. It was sent back along with Unit B controller. When Unit B is in place both Unit A controller and VHF repeater will be sent to manufacturers for repair. If in the event of losing VHF the Alternate Repeater will be placed in service.	VHF "A" Repeater  VHF "B" Repeater	<b>Note:</b> 12/14/13 - It was particularly treacherous on the road to Gold Mountain this morning. Greasy mud that a heavy 4x4 was most suited for and we had to make two trips.  <b>Note:</b> 12/30/13 – After conferencing with Advanced Communications Systems manufacturer shipped Unit B and new controller [Unit B] back to ACS for testing.	B G	12/14/13 12 hours Hill Trip  12/28/13 3 hour hill trip  12/30/13 3 hour hill trip