

# WCRWG Status Report: 2016-02-23

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## **Notes and Updates since last report**

1. Jan ZS1VDV and David ZS1DDK performed maintenance on two repeaters this Sunday past. At the Piketberg site (145.625MHz), a local interference source was found. The repeater squelch was adjusted to 0.25microvolts, the controller was reconfigured to key on CTCSS and carrier instead of carrier-only and the duplexer was fine-tuned. A circulator was installed between the repeater transmitter and the duplexer. At Hawequas (145.650MHz), the UHF link repeat setting was in an inconsistent state due to a deactivation on 15 Feb to protect the transmitter. The setting was deactivated then reactivated. On both sites, the controller firmware was updated.

## **Donations received since last report**

1. A cash donation has been received from Dirk van der Berg ZS1VDB.
2. It has been **0 weeks** since the last donation was received.

## **General requirements: upgrade and maintenance program**

1. Cash donations
2. High quality N-type male and female connectors for ½" heliax
3. VHF and UHF ferrite circulators.

## **Repeater Information and Status**

Repeater status is usually one of **DOWN**, **Operational** or **Testing**.

145.575	<b>Oakdale</b>
<b>Status</b>	<b>DOWN</b>
<b>Frequencies and Tones</b>	Output: 145.575 / Input: 144.975 (ZU9DBI_C)
<b>Mode</b>	D*STAR (6K0F7W - GMSK)
<b>Faults Reported</b>	Work being done on the Oakdale tower.
<b>Site specific requirements</b>	None
<b>Links</b>	None
<b>Notes</b>	The repeater has a 3 minute transmit timer with an approximate 30 second lockout penalty. This is a factory setting in the controller. Users are advised to set a transmit timeout in their radios of less than 3 minutes.

145.600	<b>Hanskop (Sir Lowry's Pass)</b>
<b>Status</b>	<b>Operational</b>
<b>Frequencies and Tones</b>	Output: 145.600 (88.5) / Input: 145.000 (88.5)
<b>Mode</b>	Analogue FM-N (11K0F3E)
<b>Faults Reported</b>	
<b>Site specific requirements</b>	None
<b>Links</b>	1. Link to Jonaskop/145.675 down.
<b>Notes</b>	

145.625	<b>Piketberg</b>
<b>Status</b>	<b>Operational</b>
<b>Frequencies and Tones</b>	Output: 145.625 (88.5) / Input: 145.025 (88.5)
<b>Mode</b>	Analogue FM-N (11K0F3E)
<b>Faults Reported</b>	None
<b>Site specific requirements</b>	None
<b>Links</b>	1. Link to Hawequas/145.650 operational
<b>Notes</b>	DTMF codes: 8100 – V+U link (default) 8104 – no link 8120 – parrot repeater 8121 – inside temperature 8122 – outside temperature 8123 – PSU voltage Controller will self-reset to default if no change after 9 hours.

145.650	<i>Hawequas (Du Toitskloof Pass)</i>
Status	<b>Operational</b>
Frequencies and Tones	Output: 145.650 (88.5) / Input: 145.050 (88.5)
Mode	Analogue FM-N (11K0F3E)
Faults Reported	
Site specific requirements	None
Links	<ol style="list-style-type: none"> <li>1. Link to Hanskop/434.600 down</li> <li>2. Link to Piketberg/145.625 operational</li> </ol>
Notes	DTMF codes: 8000 – V+U link (default) 8004 – no link 8020 – parrot repeater 8021 – inside temperature 8022 – outside temperature 8023 – Battery voltage Controller will self-reset to default if no change after 9 hours.

145.650	<i>Riversdale</i>
Status	<b>Operational</b>
Frequencies and Tones	Output: 145.650 / Input: 145.050
Mode	Analogue FM (16K0F3E)
Faults Reported	
Site specific requirements	None
Links	<ol style="list-style-type: none"> <li>1. Link to Jonaskop/145.675 operational</li> <li>2. Link to George down at George.</li> </ol>
Notes	

145.675	<i>Jonaskop (Villiersdorp)</i>
Status	<b>Operational</b>
Frequencies and Tones	Output: 145.675 (88.5) / Input: 145.075 (88.5)
Mode	Analogue FM-N (11K0F3E)
Faults Reported	
Site specific requirements	None
Links	<ol style="list-style-type: none"> <li>1. Link to Hanskop/145.600 operational</li> <li>2. Link to Riversdale/145.675 operational</li> </ol>
Notes	

145.700	<i>Constantiaberg</i>
Status	<b>Operational</b>
Frequencies and Tones	Output: 145.700 (88.5) / Input: 145.100 (88.5)
Mode	Analogue FM-N (11K0F3E)
Faults Reported	None
Site specific requirements	None
Links	None
Notes	Antenna upgrade being planned.

145.725	<i>Hermanus</i>
<b>Status</b>	<b>Operational</b>
<b>Frequencies and Tones</b>	Output: 145.725 / Input: 145.125
<b>Mode</b>	Analogue FM-N (11K0F3E)
<b>Faults Reported</b>	None
<b>Site specific requirements</b>	None
<b>Links</b>	None
<b>Notes</b>	

145.750	<i>Kanonkop (Tygerberg)</i>
<b>Status</b>	<b>Operational</b>
<b>Frequencies and Tones</b>	Output: 145.750 (88.5) / Input: 145.150
<b>Mode</b>	Analogue FM (16K0F3E)
<b>Faults Reported</b>	None
<b>Site specific requirements</b>	None
<b>Links</b>	None
<b>Notes</b>	

434.600	<i>Hanskop (Sir Lowry's Pass)</i>
<b>Status</b>	<b>DOWN</b>
<b>Frequencies and Tones</b>	Output: 434.600 (88.5) / Input: 433.000 (88.5)
<b>Mode</b>	Analogue FM-N (11K0F3E)
<b>Faults Reported</b>	Low audio on 434.600 from link
<b>Site specific requirements</b>	None
<b>Links</b>	1. Link to Hawequas/145.650 down
<b>Notes</b>	

434.625	<i>Kanonkop (Tygerberg)</i>
<b>Status</b>	<b>Operational</b>
<b>Frequencies and Tones</b>	Output: 434.625 (88.5) / Input: 433.025
<b>Mode</b>	Analogue FM (16K0F3E)
<b>Faults Reported</b>	None
<b>Site specific requirements</b>	None
<b>Links</b>	1. IRLP node 8535 2. Echolink node 796398 (ZU9DCM-R), using EchoIRLP modification.
<b>Notes</b>	Dial-out to other Echolink nodes requires the use of a dial prefix, currently *0 (star-zero), as it is an add-on to IRLP. The disconnect code for a call is '73' – use this for both Echolink and IRLP calls.

<b>ZS0DCC</b>	<b>Helderberg Digipeater</b>
<b>Status</b>	<b>Operational</b>
<b>Frequencies and Tones</b>	Output: 144.800 / Input: 144.800
<b>Mode</b>	Digital FM-N (11K0F2D) AFSK
<b>Faults Reported</b>	
<b>Site specific requirements</b>	None
<b>Links</b>	None
<b>Notes</b>	

<b>ZS0DZ</b>	<b>Kasteelberg Digipeater</b>
<b>Status</b>	<b>Testing</b>
<b>Frequencies and Tones</b>	Output: 144.800 / Input: 144.800
<b>Mode</b>	Digital FM-N (11K0F2D) AFSK
<b>Faults Reported</b>	
<b>Site specific requirements</b>	None
<b>Links</b>	None
<b>Notes</b>	

<b>ZS1SIX</b>	<b>6meter Beacon (CPUT)</b>
<b>Status</b>	<b>Operational</b>
<b>Frequencies and Tones</b>	50.080
<b>Mode</b>	FSK
<b>Faults Reported</b>	None
<b>Site specific requirements</b>	None
<b>Links</b>	None
<b>Notes</b>	

Send fault reports via e-mail to: [wc-repeater-fault@googlegroups.com](mailto:wc-repeater-fault@googlegroups.com)

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### **Account Information**

Account Name: Western Cape Repeater Working Group (WCRWG)

Bank: FNB

Account type: Cheque

Account number: 62338034937

Branch code: 250655 (Electronic payments)

Branch code: 200612 (Counter deposits)