

* Note that for all past days the WFG has been starting 1 second before the given UTC time. Today we will give the GUI a time 1 second later than we want to start in order to compensate.

13

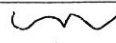
Date	June 13 , 2019
Timestamp Start (UTC)	082701
Timestamp End (UTC)	093000

Running: → Edlyn Thursday
 → Continuous Wave - L=0

satellite pass
 at ~092000

Waveform Generator 1		
	Amplitude	Phase
Channel 1	-10 rising -7.8	0
Channel 2	-10 rising -8.7	
Channel 3	-10 rising -8.0	
Channel 4		

The high attenuation is due to the fact that Paul wants low power. The satellite will be close.

Waveform Generator 2		
	Amplitude	Phase
Channel 1	-10 rising -7	0
Channel 2	-10 rising -7.8	
Channel 3	-10 rising -7.2	
Channel 4		

~085700

→ Edlyn Thursday

→ Continuous_Wave - L=1

13

Date	June 11 , 2019
Timestamp Start (UTC)	093101
Timestamp End (UTC)	100000 101000

satellite pass at 095841

Waveform Generator 1		
	Amplitude	Phase
Channel 1	-7.8	0
Channel 2	-8.7	/
Channel 3	-8.0	
Channel 4		

the reduction in amplitude (further) is due to the phase shift in L=1 (phase shift = amplitude shift) still ~70kW total power per transmitt

Waveform Generator 2		
	Amplitude	Phase
Channel 1	-8.3	G
Channel 2	-9.1	/
Channel 3	-8.6	
Channel 4		

→ Edlyn Thursday

→ Continuous wave - $L=0$

(to get power back up)

13

Date	June 14 , 2019
Timestamp Start (UTC)	101101
Timestamp End (UTC)	101700

Waveform Generator 1		
	Amplitude	Phase
Channel 1	-7.8 / -0.2	0
Channel 2	-8.7 / -0.2	
Channel 3	-8.0 / -0.3	
Channel 4		

Waveform Generator 2		
	Amplitude	Phase
Channel 1	-8.3 / -0.2	0
Channel 2	-9.1 / -0.5	
Channel 3	-8.6 / -0.3	
Channel 4		

→ Edlyn Thursday

~~Edlyn Thursday~~

→ Twist - 01n1 - 20s

13

Date	June 13 , 2019
Timestamp Start (UTC)	101801
Timestamp End (UTC)	102700

Waveform Generator 1		
	Amplitude	Phase
Channel 1	-0.2	0
Channel 2	0.2 -0.2	
Channel 3	-0.3	
Channel 4		

Waveform Generator 2		
	Amplitude	Phase
Channel 1	-0.2 / -0.5	0
Channel 2	-0.5	
Channel 3	-0.3	
Channel 4		

→ Edlyn Thursday

→ Continuous Wave - $L=0$

13

Date	June 13 , 2019
Timestamp Start (UTC)	102801
Timestamp End (UTC)	103100

Waveform Generator 1		
	Amplitude	Phase
Channel 1	-0.2	0
Channel 2	-0.2	
Channel 3	-0.3	
Channel 4		

Waveform Generator 2		
	Amplitude	Phase
Channel 1	-0.5	0
Channel 2	-0.5	
Channel 3	-0.3	
Channel 4		

8.175 CW for tuning

13

Date	June 10 ¹³ , 2019
Timestamp Start (UTC)	105601
Timestamp End (UTC)	112801

Waveform Generator 1		
	Amplitude	Phase
Channel 1	-8.7	126
Channel 2	-9	91
Channel 3	-6.4	0
Channel 4	0	0

Waveform Generator 2		
	Amplitude	Phase
Channel 1	-11.7	64
Channel 2	-11.9	341
Channel 3	-9.1	298
Channel 4	0	0



8.175 MHz CW for tuning

13

Date	June 11 , 2019
Timestamp Start (UTC)	11 30 01
Timestamp End (UTC)	12 10 00

Waveform Generator 1		
	Amplitude	Phase
Channel 1	-8.7 / -7.6	0
Channel 2	-9 / -7.5	
Channel 3	-6.4 / -5.0	
Channel 4	0	

~80 kW per transmitter

Waveform Generator 2		
	Amplitude	Phase
Channel 1	-11.7 / -10.5	0
Channel 2	-11.9 / -11.3	
Channel 3	-9.1 / -7.5	
Channel 4	0	

→ Edlyn Thursday

→ 8 MHz - Freq - Step

13

Date	June 11 ¹³ , 2019
Timestamp Start (UTC)	121101
Timestamp End (UTC)	124500

Waveform Generator 1		
	Amplitude	Phase
Channel 1	-1	0
Channel 2		
Channel 3		
Channel 4		

Waveform Generator 2		
	Amplitude	Phase
Channel 1	-1	0
Channel 2		
Channel 3		
Channel 4		



→ Edlyn Thursday

* Back down to

→ Continuous Wave - $L=0$

5.125 MHz

13

Date	June 11 , 2019
Timestamp Start (UTC)	130001 (tx's on at ~130810)
Timestamp End (UTC)	130800

Waveform Generator 1		
	Amplitude	Phase
Channel 1	-3 / -0.2	0
Channel 2	/ -0.2	
Channel 3	/ -0.3	
Channel 4		

~130500

Waveform Generator 2		
	Amplitude	Phase
Channel 1	-3 / -0.5	0
Channel 2	/ -0.9	
Channel 3	/ -0.3	
Channel 4		

→ Edlyn Thursday

→ ~~cont~~ Twist_3x0_3x1

13

Date	June 14 , 2019
Timestamp Start (UTC)	13 10 01
Timestamp End (UTC)	15 55 00

testing to see how much we can push the transmitters
(since the twist is the most volatile)

Waveform Generator 1		
	Amplitude	Phase
Channel 1	-0.2 / -0.2	0
Channel 2	-0.2 / -0.2	
Channel 3	-0.3 / -0.1	
Channel 4		

Waveform Generator 2		
	Amplitude	Phase
Channel 1	-0.5 / -0.8	0
Channel 2	-0.5 / -0.8	
Channel 3	-0.3 / -0.6	
Channel 4		

→ Edlyn Thursday

→ Descrete - Half - Step

13

Date	June 13 , 2019
Timestamp Start (UTC)	160001
Timestamp End (UTC)	174500

Waveform Generator 1		
	Amplitude	Phase
Channel 1	-0.2	0
Channel 2	-0.2	/
Channel 3	-0.3	
Channel 4		

Waveform Generator 2		
	Amplitude	Phase
Channel 1	-0.5	0
Channel 2	-0.5	/
Channel 3	-0.3	
Channel 4		

→ Edlyn Thursday

→ Twist - 3x0 - 3x1

13

Date	June 11 , 2019
Timestamp Start (UTC)	174601
Timestamp End (UTC)	215500

Lost 1, 5, & 6 at ~201600 / Lost again at ~201730
back by ~201700 / Back by ~201830

Waveform Generator 1		
	Amplitude	Phase
Channel 1	-0.2	0
Channel 2	-0.2	
Channel 3	-0.1 / 0	
Channel 4		

~204000 tried switching off a generator to prevent transmitters from tripping (lost ~100 kW total power)
back by 205500

Waveform Generator 2		
	Amplitude	Phase
Channel 1	-0.8	0
Channel 2	-0.8	
Channel 3	-0.1	
Channel 4		

→ Edlyn Thursday

→ Twist_10x0_10x1

13

Date	June 13 , 2019
Timestamp Start (UTC)	22 00 01
Timestamp End (UTC)	03 05 40

Waveform Generator 1		
	Amplitude	Phase
Channel 1	-0.2 / 0	0
Channel 2	-0.2 / 0	
Channel 3	0 / 0	
Channel 4		

~230000
(~420 kw total)

Waveform Generator 2		
	Amplitude	Phase
Channel 1	-0.8	0
Channel 2	-0.8	
Channel 3	-0.1	
Channel 4		