

Postmaster-General's Department

Telegrams: 'Radiospec'  
"Hobart" Hobart  
Telephone: B7001-334



General Post Office  
Hobart  
Tasmania  
28th Aug. 1956.

In reply please quote  
No

Dear Grote,

Enclosed please find information  
regarding Time Signals emitted by Melbourne  
and Sydney Radio Stations.

Regards,

*M. Mulling*

Melbourne

P.S. The last dot of the six following  
the letters X N & G indicates the  
exact minute.

Time Signals - 500 Kc/s

Melbourne Radio - VIM

Time 1157 - 1200 E.S.T. )  
2357 - 2400 E.S.T. ) Daily

System X X X X X ..... 1st minute  
N N N N N ..... 2nd minute  
G G G G G ..... 3rd minute

Sydney Radio - VIS

Time 1255 - 1300 E.S.T. ) Except Sundays  
2055 - 2100 E.S.T. ) and holidays

System One dash at the seconds 0-2, 10-11, 20-21,  
30-31, 40-41 and 50-51 in each minute and  
a dot at every other second.

Time Signals - 500 Kc/s

Melbourne Radio - VIM

Time 1157 - 1200 E.S.T. )  
2357 - 2400 E.S.T. ) Daily

Minute  
System 57-8 X X X X X ..... 1st minute  
58-9 N N N N N ..... 2nd minute  
59-60 G G G G G ..... 3rd minute  
*last dot noon.*

Sydney Radio - VIS

Time 1255 - 1300 E.S.T. ) Except Sundays  
2055 - 2100 E.S.T. ) and holidays

System One dash at the seconds 0-2, 10-11, 20-21,  
30-31, 40-41 and 50-51 in each minute and  
a dot at every other second.

*Beginning of last dash is 1pm EST.*

VIA

500 KC

Adelaide Radio

1027 - 1030 AM

2227 - 2230 PM

Perth Radio

VIP 500 KC

1057 - 1100

2257 - 2300

Saturday 1057 - 1100

Sunday 2257 - 2300

VIA + VIP system same as VIM except  
six dots replaced by three dashes. The  
end of last dash is exact half or near  
hour.

Attenuator ODB,

17/5/57

R.F. noise Division

Existing tube oac marked 25/11/56  
using Philips tube A

0.8

Change oac to tube marked Best oac to 13/2/57

3.7

Change " " " " Mixer to "

1.6

" " " " " Removed 18/9/56

1.3

Left in this  
condition

Attenuator 0 DB

15/3/57

R.F. noise divisions

Existing setup (Tube marked Beat use to 13/2/57) mixer 0.9  
(Tube marked Mixer to 13/2/57) osc

Changed osc tube to one marked 25/11/56 1.9

" " " " " " 18/9/56 0.8

Put tube marked Mixer to 13/2/57 back in osc

Changed mixer to tube marked 18/9/56 0.3

" " " " " " 25/11/56 0.5

" " " New Philips tube A 8.5

" " " " " " B 10.0

Put tube marked Beat osc to 13/2/57 back in mixer

Changed osc to new Philips tube A 5.0

" " " " " " B 5.0

These two produce abundant excitation

Changed osc to tube marked 25/11/56

" mixer " new Philips tube A

13.5

Present tube line up - 15/3/57

Mixer to 13/2/57 } weak  
Removed 18/9/56

Beat osc to 13/2/57 } fair  
Removed 25/11/56

Philips tubes A+B Good.

Osc tube marked Beat Osc to 13/2/56 } 15.5

Mixer new Philips tube A

Left in this condition

13/2/57

# attenuator 0 17B.

R.F. Noise  
Division

Tube removed 29/10/56 o.c. Present tube in mixer	} ———	0.3 ✓
Tube removed 25/11/56 o.c. Present tube in mixer	} ———	1.5
Tube removed 18/9/56 o.c. Present tube in mixer	} ———	0.5
Tube removed 24/12/56 o.c. Present tube in mixer	} ———	0.2 ✓
Good tube from beat o.c. in o.c. Present tube in mixer	} ———	3.6
Tube removed 4/1/57 in o.c. Present tube in mixer	} ———	1.5
Tube removed 4/1/57 in o.c. Good tube from beat o.c. in mixer	} ———	4.5
Present mixer tube in o.c. Good tube from beat o.c. in mixer	} ———	5.7 { left tubes in this condition.
Present mixer tube in o.c. Tube removed 4/1/57 in mixer	} ———	2.0

## Existing build up of tubes.

Tube removed 24/12/56	} very weak
" " 29/10/56	
" " 18/9/56	weak.
" " 4/1/57	} ← loose inside as gain changes when lapped. Put it in beat oscillator.
" " 25/11/56	
Present mixer tube	} moderate

24/12/56

Attenuator at 0dB

R.F. noise divisions

Mixer + osc tube as is. 0.7

Interchanged Mix + osc 0.2

Tube removed 29/10/56 in mix. 0.1

" " " " osc 2.2

" " " " mix } 1.0

+ Present mixer in osc

Tube removed 29/10/56 in osc } 0.4

" " 18/9/56 in mix }

Reversed above two tubes 0.6

Tube removed 29/10/56 in osc } 1.8

" " 25/11/56 in mix }

Reversed above two tubes 1.7

Tube removed 29/10/56 in osc } 3.8

Tube from second beat osc in mix }

Reversed above two tubes 2.1

Tube removed 25/11/56 in osc } 2.6

Present mixer

Reversed above two tubes 2.2

all tests made without case over R.F. amplifier

(over)



13/2/57

No output when  
in beat oscillator

		Good tube	10.5
		Tube removed 4/1/57	6.9
Tube removed	24/12/56	very weak	2.0
" "	18/9/56	weak	4.0
" "	29/10/56	fair } about same	3.1
" "	25/11/56	" }	6.7

Tube from 2nd 1. F. chassis beat osc nearly new, very good

Attenuator ODB

R.F. 4/1/57  
noise

Tubes as is

0.5 div

Reversed tubes

0.2 "

Tube removed 29/10/56 in osc, 0.8 div.

" " in mix 0.3 "

New tube in osc 1.2 div.

New tube in mix 2.0 div.

New tube in mix, Tube removed 29/10/56 in osc 2.7 div.

Reversed tubes 0.9 div

Tube removed 4/1/57 midway between those removed on  
29/10/56 & 25/11/56 in 'quartz'

de unwork in!