

Wireless in Australia



Compiled by
The Wireless Institute of Victoria

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1914

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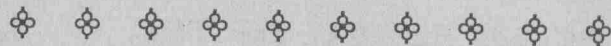
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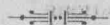
PREFACE.

THIS publication, the first of its kind for Australia, has been compiled from official and other authentic sources in order to fill a long felt want by Wireless Experimenters, and also to show the public to what extent has been the growth of Wireless in Australia during the past three years. It is issued with the hope that it may promote both study and experiment in this most useful branch of science.

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SOME OF THE OBJECTS
OF THE
WIRELESS INSTITUTE OF VICTORIA



1. To bring Wireless Experimenters into closer association and improve the friendly relations existing between them.
2. To provide a meeting place where information and ideas can be exchanged and discussed.
3. To arrange visits to various works, institutions, etc., of interest to those who study Electricity in its various branches, especially Wireless.
4. To establish a kind of Union amongst Wireless Experimenters whereby they can, in a solid body, support their rights, and, in a measure, regulate the conditions under which they may experiment.

In addition to the above, a Series of Lectures, given in most cases by well-known men from the highest scientific circles, is arranged.

Through the medium of the Institute, Members can obtain instrument and material for their experiments from some of the best known firms in Australia at considerably reduced rates.

Members are encouraged to set before the meetings any problems or enquiries they may meet with in their experiments. In this way the general knowledge of the members is always increasing.

Attention is directed to the clause in application papers which states that persons, before applying for licence to experiment in radiotelegraphy, must be capable of operating at a speed of *not less than 12 words per minute*.

It would also be impressed upon experimenters that experiment may best be carried on by observation of the most important of the rules applicable to operators on commercial stations, i.e.:—that every effort should be used to avoid interference. This may best be accomplished by the use of the least power necessary to obtain effective communication, by sharp tuning, by waiting until other stations operating upon the same wave length have ceased working, by listening in before pressing key, and by not tuning up spark with attenuator switch in *sending* position. Experimenters in districts where there are a number of stations should refrain from operating continuously for any length of time.

COMMERCIAL CALLS

LAND STATIONS

VIA Adelaide.
VIB Brisbane.
VIC Cooktown.
VID Darwin.
VIE Esperance.
VIG Port Moresby.
VIH Hobart.
VII Thursday Island.
VIK King Island.
VIL Flinders Island.
VIM Melbourne.
VIN Geraldton.
VIO Broome.
VIP Perth.
VIR Rockhampton.
VIS Sydney.
VIT Townsville.

VIW Wyndham.
VIY Mount Gambier.
VIZ Roebourne.
VKN Navy Office.
VKP Flinders Base.
VKQ Garden Island.
VKR Cockburn Sound.
VKS Port Stevens.
WMA Military Pack Set, Vic
WMB Military Pack Set, Vic
WMC Military Pack Set, Vic
WMD Military Pack Set, Vic
WSA Military Pack Set, N.S.W.
WSB Military Pack Set, N.S.W.
WSC Military Pack Set, N.S.W.
WSD Military Pack Set, N.S.W.

COMMERCIAL CALLS

SHIP STATIONS

ACM Cormorant.
 ACN Condor.
 ACO Coln.
 APL Planet.
 ASB Scharnhorst.
 BCT New Zealand.
 BFB H.M. A.S. Cambrian.
 BGV H.M. A. S. Philomel.
 CIA Wahine.
 DAE Adelaide.
 DAK Albany.
 DAQ Alrich.
 DAR Ahlers.
 DAU Australia.
 DBE Brisbane.
 DBF Berkenfels.
 DBR Bremen.
 DCC Cassell.
 DCZ Chemnitz.
 DEA Essen.
 DEC Elsass.
 DEE Esslingen.
 DFE Fremantle.
 DFT Frankfurt.
 DGA Ganelon.
 DGB Gutenfels.
 DGF Goldenfels.
 DGN Goeben.

DGU Gneisenau.
 DHD Huberfels.
 DHT Hobart.
 DJV Java.
 DKD Fred. der Grosse.
 DKG Grosser Kurfurst.
 DKL Kon. Luise.
 DKS Barbarossa.
 DKU Kandelfels.
 DLG Stolberg.
 DLU Luneberg.
 DME Melbourne.
 DMH Mulheim.
 DMV Mannheim.
 DMO Moltkefels.
 DOL Colmar.
 DOM Bochum.
 DPQ Posen.
 DPX Pommern.
 DRJ Rheinland.
 DRL Prince R. Leopold.
 DRN Roon.
 DSA Scharnhorst.
 DST Kleist.
 DSU Dusseldorf.
 DSY Sydney.
 DSZ Seydlitz.
 DTA Diadrich.

DTB Tasmania.
 DTT Raunstaad.
 DUD Sumatra.
 DWR Wismar.
 DWT Worturm.
 DZN Zeiten.
 FMB Armand Behic.
 FMD Dumbea.
 FMN Nera.
 FMS Sydney.
 FMT Amazone.
 FMV Ville de la Ciotat.
 FMZ Caledonien.
 FPA Pacifique.
 GAJ Hawke's Bay.
 GBC Willesden.
 GBD Tongariro.
 GBE Magara.
 GBJ Benalla.
 GBN Blomfontein.
 GBU Ulysses.
 GBP Kasama.
 GBQ Nestor.
 GBY Kalomo.
 GBZ Whakarua.
 GCQ Hurunai.
 GCR Indrapura.
 GCY Poleric.
 GDO Bovic.
 GDQ Cevic.
 GDR Cufic.
 GDS Delphic.
 GDT Georgic.
 GDU Tropic.

GEG Saldanha.
 GEH Katuna.
 GEI Kabinga.
 GEK Kasenga.
 GGH Commonwealth.
 GGS Rimutaka.
 GIM Aparima.
 GJJ Geelong.
 GJK Irishman.
 GJP Kiaora.
 GJQ Kumeric.
 GKB Makarini.
 GKE Mamari.
 GKL Matatua.
 GKQ Narrung.
 GKS Night Companion.
 GKW Normannia.
 GLG Pakeha.
 GLW Rangatira.
 GLY Roseric.
 GMD Silvertown.
 GMF Star of Ireland.
 GMO Suveric.
 GNE Waimana.
 GNG Wakool.
 GNH Wilcannia.
 GNK Waipara.
 GQA Ayrshire.
 GQB Perthshire.
 GQC Durham.
 GQD Somerset.
 GRY Dorset.
 GSB Port Macquarie.
 GSF Shropshire.

GSU Wiltshire.
 GTI Ajana.
 GTJ Argyllshire.
 GTZ Port Lincoln.
 GXE Essex.
 GYB Ophir.
 GYV Koranna.
 GYZ Starvinia.
 JIB Inaba Maru.
 JTN Tainai Maru.
 MAB Kandahar.
 MAF Karema.
 MAH Star of Australia.
 MAL Adelie Land, L.S.
 MAM Matoopo.
 MAT Armadale.
 MAV Swazi.
 MBT Rimitaka.
 MBU Marere.
 MCD Ceramic.
 MCB Nerehana.
 MEM Patrol.
 MFG Kumara.
 MFU Aeneas.
 MFV Ascanius.
 MFW Anchises.
 MGB Pera.
 MGF Miltiades.
 MGG Moravian.
 MGH Norseman.
 MGJ Marathon.
 MGK Demosthenes.
 MGM Themistocles.
 MHD Gothic.

MHY Paparoa.
 MJC Suevic.
 MJD Niwara.
 MKA Ruahine.
 MKB Ruapehu.
 MKE Rotorua.
 MKF Muritai.
 MKH Mimirol.
 MKJ Turakina.
 MKK Medic.
 MKM Maloja.
 MKP Medina.
 MKQ Ballarat.
 MKR Beltana.
 MKV Remuera.
 MKY Farnia.
 MKZ Ascot.
 MMD Malwa.
 MME Mantua.
 MMF Morea.
 MMG Egypt.
 MMH Moldavia.
 MMJ Mongolia.
 MML Macedonia.
 MMM Mooltan.
 MMR Marmora.
 MMU China.
 MMY India.
 MNR Miner.
 MNR Rembrandt.
 MOD Otranto.
 MOF Orsova.
 MOH Otway.
 MOJ Orvietto.

MOK Omrah.
 MOY Osterley.
 MOZ Orontes.
 MQA Rohilla.
 MQC Persic.
 MQI Macquarie Island, L.S.
 MTS Star of Scotland.
 MTW Orama.
 MUZ Zealandic.
 MWC Runic.
 MWE Arawa.
 MWF Tainui.
 MWI Ionic.
 MWJ Mersey.
 MWN Athenic.
 MWT Corinthic.
 MYC Afric.
 MYD Belgic.
 MYN Tahiti.
 ONE L'Avenir.
 PKB Batavia, L.S.
 PKC Sitabonda, L.S.
 PKD Koepang, L.S.
 PLE Tasman.
 PLM Houtman.
 PMG Arthur Von Durmer.
 SAM Amakura Maru.
 SFE Indianic.
 SFF Hellenic.
 SFG Tasmanic.
 SFH Australic.
 SHD South Head, Sydney, M.S.
 SOF Suffolk.
 SVI Tainan Maru.

UWD Oteric
 VFS H.M.A.S. Torch.
 VGR Everett G. Griggs.
 VHA Kulumbangra.
 VHB Levuka.
 VHC Kyarra.
 VHD Kanowna.
 VHE Karoola.
 VHF Bombala.
 VHG Willochra.
 VHH Warilda.
 VHI Wandilla.
 VHJ Grantala.
 VHK Western Australia.
 VHL Dimboola.
 VHM Kapunda.
 VHN Katoomba.
 VHO Canberra.
 VHP Indarra.
 VHQ Fiona.
 VHR Roscommon.
 VHS Stuart.
 VHT Montoro.
 VHU Mataram.
 VHV Matunga.
 VHW Wyandra.
 VHX Victoria.
 VHY Ulimaroa.
 VHZ Wimmera.
 VJA Riverina.
 VJB Westralia.
 VJC Zealandia.
 VJD St. Albans.
 VJE Cooma.

VJF	Morinda.
VJG	Wyrema.
VJH	Mokoia.
VKA	H.M.A.S. Australia
VKB	H.M.A.S. Brisbane
VKC	H.M.A.S. Melbourne
VKD	H.M.A.S. Sydney
VKE	H.M.A.S. Encounter
VKF	H.M.A.S. Pioneer
VKG	H.M.A.S. Protector
VKH	H.M.A.S. Warrego
VKI	H.M.A.S. Yarra
VKJ	H.M.A.S. Parramatta
VKK	H.M.A.S. Derwent
VKL	H.M.A.S. Torrens
VKM	H.M.A.S. Swan
VKO	H.M.A.S. Cerberus
VLA	Awanui, L.S.
VLB	Bluff.
VLC	Chatams, L.S.
VLD	Auckland, L.S.
VLE	Maheno.
VLF	Tofua.
VLG	Maunganui.

VLH	Hauroto.
VLJ	Aorangi.
VLK	Makura.
VLL	Talune.
VLM	Moeraki.
VLN	Manuka.
VLO	Moana.
VLP	Manapouri.
VLQ	Warrimoo.
VLR	Marama.
VLS	Hinemoa.
VLT	Maitai.
VLU	Atua.
VLV	Navua.
VLW	Wellington, L.S.
VLX	Tutaniki.
VLZ	Paloona
VMA	Maori.
VMM	Moura.
VPK	Cocos Island, L.S.
VHJ	Sierra.
WHL	Ventura.
WHM	Sonoma.

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XBH	H. O. McCormack, Neutral Bay.	XCX	A. Binns, Mosman.
XBM	C. P. Bartholomew, Mosman.	XDA	T. W. W. Burgess, Wagga Wagga.
		XDC	L. M. J. Butler, Singleton.

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XDM	Maclurcan and Lane, Sydney.
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XEN	F. Leverrier, Waverley.
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XFM	F. J. Brooks, Arncliffe.
XFN	Gunner Clarke, Ashfield.
XFP	W. P. Renshaw, Roseville.
XFQ	N. H. Wright, Mosman.
XFR	V. J. Brain, Ashfield.
XFT	A. Borland, Burwood.
XFU	K. Stanton, Ashfield.

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 XO C. G. B. Colquhoun, South Yarra.
 XO C. M. Urquhart, Albert Park.
 XO B. C. L. Harvey, Port Melbourne.

XJAD C. J. Brown, Melbourne.
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XJAF C. R. Smith, Caulfield.
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XJAJ A. Crook, Castlemaine N.
XJAK J. Rafferty, Hawthorn.
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XJCD J. C. F. Burrows, Kew.

XJCG L. Roche, Hawthorn.
XJCL J. B. Arnold, Moonee
Ponds.
XJCM W. E. Sanson, Warrnam-
bool.
XJCN W. K. Davenport, St.
Kilda.
XJCO C. R. Dodson, Fairfield
XJCP R. Mitchell, Royal Park.
XJCS J. Matthews, Sunshine.
XJCT V. Meyers, Melbourne.
XJCU A. B. Corkill, Moonee
Ponds.
XJCV R. Field, Kew.
XJCW J. Welch, Murrumbeena.
XJCX C. Bannister, Brighton.
XJCY C. Semmens, E. St. Kilda.
XJCZ H. E. Taylor, Camberwell
South.
XJDA C. Forshaw, Elwood.
XJDB K. Francis, Coburg.
XJDC C. T. B. Knell, Windsor.
XJDD H. M. Shannon, Bruns-
wick.
XJDE I. Hughes, Kew.
XJDF Captain William Clarkson,
Toorak.
XJDG J. A. Campbell, Toorak.
XJDH E. G. Offen, Middle Pk.
XJDI A. Stocks, Surrey Hills.
XJDJ F. G. Cathcart, Canter-
bury.
XJDK T. Cummins, E. St. Kilda
XJDL A. McKay, Hawthorn.

XJDM J. Fitchett, Balwyn.
XJDN F. S. Barnett, North Wil-
liamstown.
XJDO A. C. Smith, Matlock.
XJDP G. G. Robb, Croxton.
XJDQ C. Crowther, Canterbury.
XJDR W. L. Leunig, Jnr., Sale.
XJDS A. H. Morris, Sale.
XJDT G. K. Allen, Coburg.
XJDU C. S. C. Hughes, East
Melbourne.
XJDV T. A. Crerar, Hexham.
XJDX G. Strutt, Elwood.
XJDY L. A. Adamson, Mel-
bourne. Wesley College

XJDZ S. G. Robinson, S. Yarra.
XJEA A. McGregor, Armadale.
XJEB J. Hesketh, Kew.
XJEC B. Coutts, Camberwell.
XJED H. MacKinolty, Korum-
burra.
XJEE A. P. Scott, E. Malvern.
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wood.
XJEG H. A. Gatfield, S. Yarra
XJEH E. Drake, Camberwell.
XJEI E. Robinson, Caulfield.
XJEJ E. Mustard, N. Fitzroy.
XJEK J. H. Beyer, Armadale.
XJEL T. G. Foord, Gardiner.

Queensland.

XQA M. J. G. Brims, Mareeba.
 XQB L. Freeman, Rockhampton.
 XQC R. H. Berry, Rockhampton
 XQD H. A. Shepherd, Rock-
 hampton.
 XQF S. V. Colville, S. Brisbane.

XQG G. H. Gibson, Brisbane.
 XQH H. B. Rockwell, Wynnum
 XQI W. H. Hannam, Stamford.
 XQJ A. G. Bamfield, Corfield.
 XQK C. Wicks, South Brisbane.

South Australia.

XVB L. Jones, Hawthorn.
 XVC V. Alderman, Glenelg.
 XVD A. H. H. Evans, Mile End
 XVE J. J. McLaughlan, Sema-
 phore.
 XVF O. W. Judd, N. Norwood.
 XVG C. E. Ames, Torrensville.
 XVH S. F. Howe, Exeter.
 XVI L. P. Anderson, Largs Bay
 XVJ C. M. Reid, Hyde Park.
 XVK P. Stapleton, Mt. Gambier.
 XVN E. R. Stanton, Enfield.

XVO N. C. McClelland, Frank-
 lin Harbor.
 XVP W. Magain, Edwardstown.
 XVQ I. Banyer, North Adelaide.
 XVR A. Longstaff, Alberton.
 XVS A. A. Cotton, Glanville.
 XVT C. J. Othen, Glanville.
 XVV A. G. Waterhouse, North
 Adelaide.
 VXX H. Clark, Kent Town.
 XVY A. H. Bailey, Unley.

Western Australia.

Tasmania.

XYB J. S. Fitzmaurice, Perth.
 XYD P. Kennedy, Perth.
 XYE A. E. Dewar, Kalgoorlie.
 XYK W. E. Coxon, Maylands.
 XYN F. C. Read, Perth.
 XYR H. G. H. Irving, W. Perth
 XYV W. B. Garner, Perth.

XYX A. Sibly, North Perth.
 XYAE S. C. Ambler, W. Perth.
 XYAF T. W. Sampson, Boulder
 XYAG W. E. Mill, Burbanks.
 XYAH W. E. Collins, Canning-
 ton.

XZA A. G. Dixon, Wynyard.
 XZB E. Kirby, Hobart.
 XZC M. Harvey, Hobart.
 XZD F. N. Medhurst, Sandy
 Bay.
 XZE R. James, via Hobart.

XZH W. P. Hallam, Hobart.
 XZJ V. Batchler, Hobart.
 XZO W. O. Duffy, Hobart.
 XZP R. S. Dawson, Hobart.
 XZQ H. D. Mansfield, Burnie.

International Morse Code Signals.

Letters.	Figures.
a - . -	1 - . - - - -
b - - . - . -	2 - - - - -
c - - . - . -	3 - - . - - -
d - - . -	4 - - - - -
e -	5 - - - - -
f - . - - -	6 - - - - -
g - - - -	7 - - - - -
h - - - -	8 - - - - -
i - -	9 - - - - -
j - . - - - -	0 - - - - -
k - - - -	
l - - - -	
m - - -	
n - - -	
o - - - -	
p - . - - - -	
q - - - - -	
r - - - -	
s - - -	
t -	
u - - -	
v - - - -	
w - - - -	
x - - - -	
y - - - -	
z - - - -	

Figure Contractions.

1 -
2 - -
3 - - -
4 - - - -
5 - - - -
6 - - - -
7 - - - -
8 - - -
9 - -
0 -

Punctuation and other Signs.

Full stop	-	-	(.)	- - - - -
Semicolon	-	-	(:)	- - - - -
Comma	-	-	(,)	- - - - -
Colon	-	-	(:)	- - - - -
Note of interrogation, or request for the repetition of anything transmitted which is not understood	-	-	(?)	- - - - -
Note of exclamation	-	-	(!)	- - - - -
Apostrophe	-	-	(')	- - - - -
Hyphen or dash	-	-	(-)	- - - - -
Bar indicating fraction	-	-	(/)	- - - - -
Parentheses (before and after the words)	-	-	()	- - - - -
Inverted commas (before and after each word or each passage placed between inverted commas)	-	-	(" et ")	- - - - -
Underline (before and after the words or part of phrase)	-	-		- - - - -
Call (preliminary of every transmission)	-	-		- - - - -
Double dash (=) (signal separating the preamble from the address, the address from the text, and the text from the signatures)	-	-		- - - - -
Understood	-	-		- - - - -
Error	-	-		- - - - -
Cross (end of transmission)	-	-		- - - - -
Invitation to transmit	-	-		- - - - -
Wait	-	-		- - - - -
" Received " Signal	-	-		- - - - -
End of work	-	-		- - - - -

List of Abbreviations.

The following list of abbreviations has been prepared for the use of British ships and coast stations licensed by the Postmaster-General in accordance with the list annexed to Article 22 of the Service Regulations to the International Radiotelegraph Convention of 1912.

In the use of these abbreviations, the signal employed should be repeated three times.

The addition of the mark of interrogation - - - - - indicates that the sentence is being put as a question.

Abbreviation.	Question.	Answer or Advice.
1.	2.	3.
- - - - -	(C Q)	General call to all stations.
- - - - -	(T R)	Prefix for preliminary correspondence.
- - - - -	(I)	Station is about to send with high power.
PRB	Do you wish to communicate with my station by means of the International Signal Code?	I wish to communicate with your station by means of the International Signal Code.
QRA	What is the name of your station?	This station is —.
QRB	How far are you from my station?	The distance between our stations is — nautical miles.
QRC	What are your true bearings?	My true bearings are — degrees.
QRD	Where are you bound?	I am bound for —.
QRF	Where are you coming from?	I am coming from —.
QRG	To what company or line of navigation do you belong?	I belong to —.

Abbreviation.	Question.	Answer or Advice.
1.	2.	3.
QRH	What is your wave length?	My wave length is — metres.
QRJ	How many words have you to transmit?	I have — words to transmit.
QRK	How are you receiving?	I am receiving well.
QRL	Are you receiving badly?	I am receiving badly
	Shall I transmit - - - - - 20 times for you to adjust your apparatus?	Transmit - - - - - 20 times for me to adjust my apparatus.
QRM	Are you being interfered with?	I am being interfered with.
QRN	Are the atmospherics very strong?	The atmospherics are very strong.
QRO	Shall I increase my power?	Increase your power.
QRP	Shall I decrease my power?	Decrease your power.
QRQ	Shall I transmit faster?	Transmit faster.
QRS	Shall I transmit slower?	Transmit slower.
QRT	Shall I stop transmitting?	Stop transmitting.
QRU	Have you anything for me?	I have nothing for you.
QRV	Are you ready?	I am ready. All is in order.
QRW	Are you busy?	I am busy with another station [or with —] Please do not interrupt.
QRX	Shall I stand by?	Stand by. I will call you at — o'clock [or: when required.]
QRY	What is my turn?	Your turn is No. —.
QRZ	Are my signals weak?	Your signals are weak.
QSA	Are my signals strong?	Your signals are strong.
QSB	Is my tone bad?	The tone is bad.
QSC	Is my spark bad?	The spark is bad.
QSD	Is my spacing bad?	Your spacing is bad.
	Let us compare watches. My time is —. What is your time?	The time is —
QSF	Are the radiotelegrams to be transmitted alternately or in series?	The radiotelegrams are to be transmitted alternately.
QSG	- - - - -	The transmission will be in series of 5 radiotelegrams.
QSH	- - - - -	The transmission will be in series of 10 radiotelegrams.

MEMORANDA.

Abbreviation.	Question.	Answer or Advice.
1.	2.	3.
Q SJ	What is the rate per word to — ?	The rate per word is —.
Q SK	Is the last radiotelegram cancelled?	The last radiotelegram is cancelled.
Q SL	Have you got the receipt?	Please give a receipt.
Q SM	What is your true course?	My true course is — degrees
Q SN	Are you communicating with land?	I am not communicating with land.
Q SO	Are you in communication with another station (or: with —)?	I am in communication with — (through the medium of —).
Q SP	Shall I signal to — that you are calling him?	Inform — that I am calling him.
Q SQ	Am I being called by — ?	You are being called by —
Q SR	Will you despatch the radiotelegram ?	I will forward the radiotelegram.
Q ST	Have you received a general call?	I have received a general call for all stations.
Q SU	Please call me when you have finished [or: at — o'clock ?]	I will call you when I have finished.
Q SV	Is public correspondence engaged?	Public correspondence is engaged. Please do not interrupt.
Q SW	Must I increase the frequency of my spark?	Increase the frequency of your spark.
Q SX	Must I diminish the frequency of my spark?	Diminish the frequency of your spark.
Q SY	Shall I transmit with a wavelength of — metres?	Let us transfer to the wavelength of — metres.
Q SZ	- - - - -	Transmit each word twice. I have difficulty in receiving your signals.
Q TA	- - - - -	Transmit each radiotelegram twice. I have difficulty in receiving your signals, or Repeat the radiotelegram you have just sent. Reception doubtful.

MEMORANDA.

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