Australian Government

Australian Radiation Protection and Nuclear Safety Agency

ARPANSA Base Station Survey 2007 - 2008

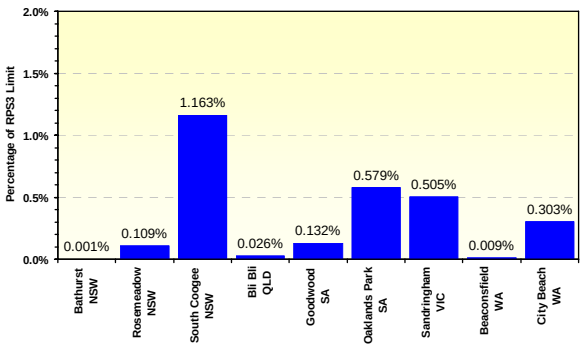
ARPANSA conducts surveys of radio frequency electromagnetic energy (RF EME) levels arising from mobile phone base station antennas

www.arpansa.gov.au/radiationprotection/basestationsurvey

ARPANSA Survey

- Base stations were selected on basis of community concern.
- Measurement locations chosen by ARPANSA to coincide with expected maximum RF EME levels.
- Final measurements taken by NATA accredited RF assessors, appointed by ARPANSA – with financial support from MCF.
- Maximum values ranged from 1.16 % to < 0.001 % of Standard.

Summary Results (Full Scale is 2% of Standard)



ARPANSA Survey – Conclusions

- From survey measurements, full power EME levels were well below public limits in ARPANSA Standard.
- Actual measured values, including "cumulative" effect were also much lower than levels permitted by the ARPANSA Standard.
- All results were less than predictions in EME Reports provided by carriers.
- 9 sites measured in 2007, more sites will be visited in 2009

More information:

Visit ARPANSA's website www.arpansa.gov.au/radiationprotection

→ ARPANSA Mobile Phone Base Station Survey 2007 – 2008 (further details and data) www.arpansa.gov.au/radiationprotection/basestationsurvey

→ ARPANSA Environmental EME Reports (prediction methodology for EME reports) www.arpansa.gov.au/emereports

→ Electromagnetic Radiation (EMR) Literature Survey (updates on published literature) www.arpansa.gov.au/radiationprotection/emr/literature

→ Radiation Protection Standard for Maximum Exposure Levels to Radiofrequency Fields - 3 kHz to 300 GHz (2002) www.arpansa.gov.au/Publications/codes/rps3.cfm

Mobile Carriers Forum Radio Frequency National Site Archive

→ Search a listing of Australian mobile telephone base stations www.rfnsa.com.au/nsa

World Health Organization International EMF Project

→ Assessing scientific evidence of possible health effects of RF EME www.who.int/emf