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Fenceless dog fence

Dear Sir/Madam – Apologies in writing but weve not had anyone answer the door when we called – we found your details off the Mats Borough web site, but alas Ive not found your names, which is pretty bad as we are a near neighbor

This letter is in reference to xxx E Rutan Drice Wasilla 99654 – and I really hope weve hit the right person!

For the past 6 years we have been operating a radio research facility on a couple of Acres backing onto Hart Lake about 0.25 miles from you - and monitoring stations/signals using Very low and Medium frequencies studying the affect on how radio signals are effected by Aurora and Solar storms.

The radios are linked up to a web server and monitored by various research and university groups around the world and the data we are gathering is all part of a greater understanding of how solar storms affect communications and power grids

As part of the requirement it needs a real quiet radio environment – and this is and has been a considerable struggle with new buildings and a greater use of dimmers, electronic controls systems, cable and new switch mode power supplies.

At the beginning of this year we started to try to find and see if we would mitigate the worst sources of interference effecting a large swarth of frequencies and with the support of MEA, MTA and GCI, about to dig up he right away and direction finding techniques have pin pointed one source as coming from nearyour property - and in particular the interference exiting your house via the power lines and being transmitted by the power lines over an area of some 0.5miles (!) – you can perhaps see why it was so difficult to pin point.

I was out surveying with MEA a couple of weeks back and they very briefly disconnected the supply to your property but the noise didn’t disappear, however it maybe you have battery backup for the device that is causing noise and interference.

To actually hear what the interference sounds like in close proximity I would ask you to turn on a Medium wave radio in the house of perhaps the car in the driveway and listen to the Bup-Bup-Bup-Bup continual noise that is at a very very high level from say 520 up to 1200Khz. If you listen to 620kHz youll understand the noise emanating from your area.

The interference repeats itself every 9KHz and is likely from a poorly installed, faulty device or non filtered device running in the house and it may be an electrical or fire hazard – to determine what the actual device is that is causing this noise you could isolate individual units or switch off at the breaker – we think it may be an electronic dog fence, perhaps an Innotek or similar dog fence devicewhich uses a buried loop of wire, but what we are sure is that its exceeding the FCC technical standards and needs remediation

We would we ask is to find what the device is and then can perhaps tackle how to stop it interfering with so many radio stations and frequencies – Im not sure how your neighbors can listen to say 620Khz or the weaker Medium wave stations .

the radio station can be heard and the interference gets strong as approaching the house and moreover the power lines from your house even though they are underground. Excuse the side view of recording, I blame the Iphone

MEA have indicated they are unable to intervene at present as the problem is “house side” and Im reluctant to take to the FCC whose domain the interference mitigation would reside without first seeing if we can clear the problem up locally – GCI are also aware of this issue and have concerns as the noise source may get into the new cable plant planned for the road later.

With your support we can clear this up pretty quickly as it maybe a household hazard you are unaware of - and I would ask you give me call at your convenience to see how I can help – Im a radio telecommunications engineer by profession in Anchorage with some 40 years of radio interference detection and elimination under my belt.

First thing to find out is what is the device that is causing this issue ☺ I do know its on +24 hours a day and 365 days a year.

Thank you for your time – and hope this can be resolved as it will really (really) help the science – and probably your neighbors radio listening pleasure.

Yours sincerely

Laurence Howell IEng MIET MIIE FRGS PE (ECUK)