

Requesting upgrade of current experimental grant for WH2XND

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Gentlemen,

I am requesting a few changes to my experiment grant for WH2XND.

The attached .PDF files are copies of recent e-mails from two utility companies engineering departments PLC data and locations in proximity of my transmitter/antenna.

Included is a Google Earth photo of my transmitting location to APS high voltage transmission lines.

My proactive stance proves my concerns of signals being transmitted from my location and that no interference should ever arise. The utility companies have listed their PLC locations "if any" and the frequencies that the PLC data is being transmitting via their high voltage transmission lines "see copies of e-mails below"!

APS Engineer Jerry Anderson states no PLC devices in Maricopa County!

SRP Engineer Ron Taylor listing distance and direction from my transmitter with no PLC frequencies listed in the 2200 or 630 meter bands.

With the known utilities data I am requested an increase of power to 100 watts ERP for the MF band 470-495 KHz.

I am also requesting the addition of the LF band frequencies of 135.700 to 137.800 KHz at 20 watts ERP.

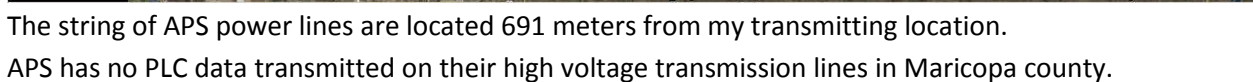
This power and frequency upgrade will enable further distance propagation testing to listening stations in Japan and Australia with the use of digital modes.

I hope that a relationship of trust has been built by being proactive with both Utility companies.

SRP Engineer Ron Taylor is a licensed Amateur Radio Operator. WA7GIL

Respectfully Submitted.

Ronald R. Douglass Sr WH2XND



APS has no PLC data transmitted on their high voltage transmission lines in Maricopa county.

Following is letter from Jerry Anderson APS Engineering group:

From: Jerry.Anderson@aps.com [<mailto:Jerry.Anderson@aps.com>]

Sent: Thursday, May 28, 2015 08:26

To: rdouglas57@cox.net

Subject: RE: PLC control on high voltage transmission lines

APS does not have any power line carrier in Maricopa County.

Jerry Anderson

Communications Engineer

From: Ron Douglass [<mailto:rdouglas57@cox.net>]

Sent: Wednesday, May 20, 2015 5:53 PM

To: Anderson, Jerry L

Subject: PLC control on high voltage transmission lines

Hi Jerry,

I know you are the communications engineer for APS regarding High Voltage power lines in Maricopa County.

Does APS "Arizona Public Service" have PLC "power line carrier" operational in Maricopa County that could be interfered with by transmitting on the LF frequency of 136 KHz or the MF frequency of 475 KHz?

Thank you for your time.

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Phoenix, AZ 85086

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Following is letter from Ronald Taylor SRP Engineering group:

From: Taylor Ronald L (Ron) [<mailto:Ron.Taylor@srpnet.com>]

Sent: Friday, July 10, 2015 12:25

To: rdouglas57@cox.net

Subject: RE: Hi Ron its Ron NI7J

No problem ... One mistake I see I made. The bearing to the one in globe is backwards. 295 is the bearing from Globe to you, so subtract 180 degrees and the bearing from you to it is 105 degrees ... All the best ... Ron

Sent: Friday, July 10, 2015 11:09 AM

To: Taylor Ronald L (Ron)

Subject: RE: Hi Ron its Ron NI7J

SRP WARNING: THIS IS AN EXTERNAL EMAIL. THINK BEFORE YOU CLICK ON LINKS OR OPEN ATTACHMENTS

Ron thank you very much for the info this will be very helpful.

Best Regards

Ron Douglass NI7J/WH2XND

From: Taylor Ronald L (Ron) [<mailto:Ron.Taylor@srpnet.com>]

Sent: Friday, July 10, 2015 10/10:53 AM

Subject: RE: Hi Ron its Ron NI7J

Hey Ron, I finally got some numbers. We have 3 remaining PLC transmitters in our system. The closest one to you operates at 263 KHz and the closest approach to your QTH is 11.2 miles at 182.7 degrees from you. The next one operates at a close by frequency below 300 KHz but I don't know what that frequency is exactly. The separation distance to you at the closest point is 17.5 miles at 192 degrees from you. The third one is in the Globe/Miami mining area on 183.2 KHz at a distance of about 69 miles at 295.5 degrees from you. We certainly do not have anything either at 2200 meters or 630 meters.

Hope this helps. Let me know if you need anything else ... Thanks .. Ron