

11/25/2014

Michael Wilhelm

FCC Public Safety & Homeland Security Bureau, Policy & Licensing Division

445 12th Street SW

Washington, DC 20554

Dear Mr. Wilhelm,

The State of Ohio MARCS Program Office respectfully asks for your help in attaining a Special Temporary Authority (STA), to enable our staff to perform testing with a vehicular in-band repeater on 769.05625, one of the low power, 700 MHz mobile repeater frequencies. The goal of this testing is to find a 700 MHz, low power repeater frequency, enabling Ohio State Highway Patrol & Ohio Department Of Natural Resources officers to be able to communicate on portables when they have exited their vehicles.

Both of these agencies have been using 774.2875 in their in-band repeaters, a State License frequency on WPTZ770, as a “temporary” fix for portable coverage issues. Now that the State of Ohio is completing a State-wide, P25, system upgrade, using a mix of 700 and 800 frequencies, officers & technicians are finding major interference to these repeaters and associated portables which jeopardizes officer safety.

Moving down to one of the 769 frequencies is the best possible option of using any repeater in the 700 band because it puts the repeater at the bottom end of the Public Safety band. Every site is organized from highest to lowest frequency, with the highest always being the control channel - 774s, 773s, 772s 771s, 770s, and finally 769s - and the lowest frequency is the last to be selected. This means the repeater would be the furthest away from any control channels, which transmit continuously, and if there are lower voice frequencies using 769s, they will almost always be at the top of the stack, which makes them least likely to get selected. By using a 769 low power frequency for the repeater it enables the State Patrol & Natural Resources officers to operate on the MARCS P25 system with minimal to no interference issues. This is what we would like to prove by our testing. If the testing would prove successful, the

State of Ohio MARCS Program Office would seek further help in attaining a permanent license for State-wide use of this frequency and possibly 769.06875.

The type of repeaters which would be used is as follows:

Pyramid (SVR200) Pyramid (SVR250M)

Model SVR200M Model SVR250M

FCC ID LRUSVR-200M FCC ID LRUSVR-200M

IC 2390A-SVR200M IC 2390A-SVR200M

Thank you for your help and consideration in these matters.

Sincerely,



Robert M. Bill

Infrastructure Specialist

MARCS Program Office

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