

**Before the
Federal Communications Commission
Washington, D.C. 20554**

In the Matter of)
)
Amendment of the Commission’s Rules) **RM-10330**
To Shield Electronics Equipment Against)
Acts of War or Terrorism Involving)
Hostile Use of Electromagnetic Pulse (EMP))
)

To the Commission:

**Notice from Nickolaus E. Leggett, Amateur Radio Operator (N3NL),
GROL Licensee, Inventor, and Analyst**

I am one of the petitioners in this docket.

I am a certified electronics technician and an Extra Class amateur radio operator (call sign N3NL). I also hold an FCC General Radiotelephone Operator License with a Ship Radar Endorsement. I am an inventor holding three U.S. Patents. My latest patent is a wireless bus for digital devices and computers (U.S. Patent # 6,771,935). I have a Master of Arts degree in Political Science from the Johns Hopkins University.

I am one of the original petitioners for the establishment of the Low Power FM (LPFM) radio broadcasting service (RM-9208 July 7, 1997 subsequently included in MM Docket 99-25). I am also one of the petitioners in the docket to establish a low power radio service on the AM broadcast band (RM-11287). I have filed a total of over 200 formal comments with the FCC over the years since the 1970s. I have filed comments with other Federal agencies as well including the USPTO, FAA, FERC, EPA, and the TSA.

A Potential Opportunity for the Commission

The Army Military Auxiliary Radio System (MARS) is planning an exercise simulating a coronal mass ejection solar storm, its impacts on communications, and the steps needed to deal with an intense solar storm.

Representatives of the Federal Communications Commission could observe this exercise in detail and determine if solar storms are a subject of concern for the Commission. This would allow the Commission to consider holding a Notice of Inquiry (NOI) on solar storms as well as the related topic of Nuclear Electromagnetic Pulse (NEMP).

Listed below is a copy of the formal notice about this exercise:

Army Military Auxiliary Radio System (MARS)

September 18 at 11:44am ·

**MARS Exercise to Simulate a Coronal Mass Ejection;
Collaborate with Amateur Radio During Aftermath**

Beginning the week of 8 November, MARS will participate in a quarterly contingency HF exercise in support of the Department of Defense. The exercise scenario will simulate a CME event and focus on actions that radio operators should take prior to and following a CME event.

Training objectives for this exercise will include:

- understanding what a CME is and how much forecast lead time can be expected prior to the CME.
- what effects are associated with a CME and what precautions should radio operators take prior to the CME to protect equipment
- Following the CME, operators will begin assessing the affects that resulted from the CME and begin reporting this information
- Interoperation with amateur radio operators and groups to assist in assessing the affects of the CME event.

Amateur radio operators, ARES, and RACES are encouraged to participate in this exercise; if you're group is interested

in participating, please email: mars.exercises@gmail.com with your contact information.

Respectfully Submitted,

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