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FM FREQUENCY SEARCH - FM TRANSLOCATORS - DIPLEXERS
MICROWAVE COORDINATION - AM NRSC - FM OCCUPIED SPECTRUM
AM ARRAY DESIGN - TUNE UP - AM METHOD OF MOMENTS PROOFS
HAVE SPECTRUM ANALYZER WILL TRAVEL
Bruce Bellamy Ed (ET) Trombley Rick Grzebik Don Baad
Owner-Engineer Sr. Engineer Engineer Sr. Engineer



News from the offices of Munn-Reese APRIL 1, 2019

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The F.C.C. struggles with Russian meddling over stealing the Magnetic North Pole and the New FCC AM Propagation Models.

For years the FCC has struggled to explain why radio waves in the northern hemisphere propagate north farther than they do south. Daytime sky wave skipping north has been a problem for Michigan AM stations for years. Anybody remember the strange echoes landing in the cities north of Detroit during the Tiger ball games? If you listened closely you heard the play ½ a second before Ernie announced it on the 50 kilowatt Detroit station. That's not weird science, it was Daytime sky wave. The Great Lakes line up on each side of Michigan to create a magnetic bowling alley pulling RF waves to the North Pole.

News broke recently that the Russians have moved the North Magnetic Pole and we don't know why. On January 13, 2019 the magnetic north pole crossed the international date line into the Eastern hemisphere, Siberia! The announcement was slowed by the recent U.S. government shutdown, many NOAA researchers were furloughed. Did Russia have a hand in that too? All navigation charts need to be corrected.

The FCC must take immediate action to curb the eastern propagation shift and has released [FCC-19-GICU812](#). Every AM directional array in the Great lakes area, all seven states, must have pattern studies to keep the eastward interference shift to a minimum. Got an AM directional array? Contact Bruce Bellamy today.

Bruce Bellamy moves FM Translator through Lake Michigan

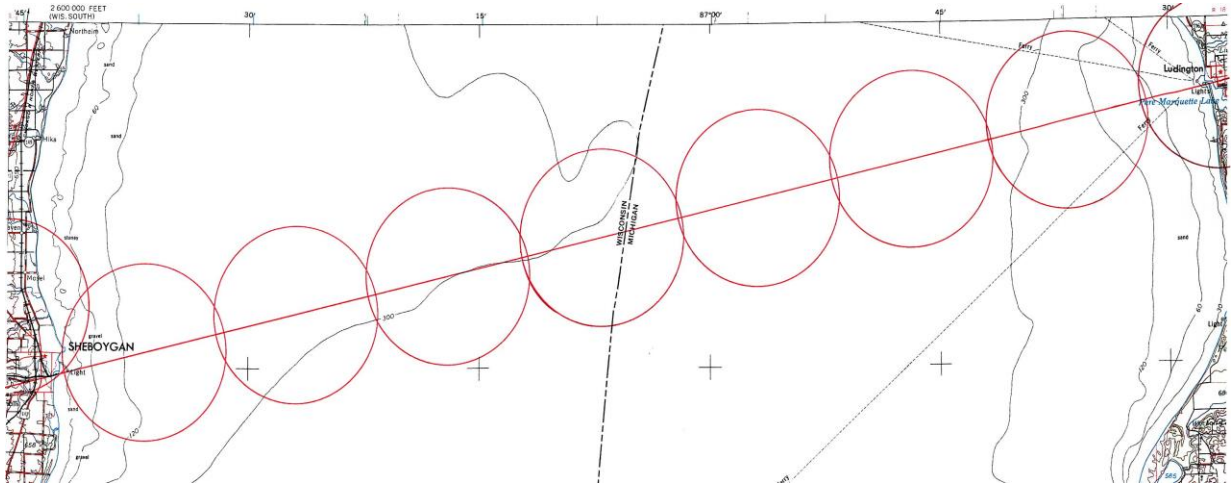
In an astounding account of true engineering genius and design, Bruce Bellamy answered the call for the unusual. Ex-Ray Broadcasting of Sheboygan, Wisconsin contacted the Munn-Reese boys with an immediate need. They wanted a fill-in AM translator in the worst way. Jumping to the call, a search was conducted and the closest translator was located in Ludington, Michigan, on the other side of the lake.

A plan was devised based on the worst case results to a worst case end. The plan included Broadcasting, Filing Applications and Licensing to cover the Construction Permits all while sailing across the Great Lake of Michigan. A tower was rigged to the bow of the SS Badger Car Ferry sporting a one bay curricular FM broadcast antenna. The receiving antenna was strung between the forward and aft communications towers on the boat.



Using GPS navigation, cesium beam clocks and a hand drawn map of the course across the lake, the

project began to take shape. The plan included 8 scheduled windows of opportunity to run the translator on the air as the boat crossed the designated target. The targets were picked to generate overlapping coverage contours.



Immediately after the window of operation came the Electronic filing of the license to cover the current construction permit and then the immediate filing of the next Construction Permit for the jump of the translator.

It took Bruce Bellamy 9 trips across the lake to accomplish his task. Only 8 crossings were planned but on the seventh crossing an Alberta Clipper blew in from Canada and the lake that is said to “sail like a young man’s dream”, became the enraged ex-girlfriend of Poseidon. The weather started getting rough; the tiny ship was tossed, if not for the courage of the fearless crew the Minnow would be... Hey! That’s a Re-run! Who’s got the remote?

After a splendid dinner of Brussels Sprout Bruschetta with garlic tomato and basil, the lake

got seriously choppy. Bruce Bellamy turned green, then purple and went off line for 24 hours, missing one of the scheduled operations of the translator. In the end it was a triumphant finish, with the translator safely planted in Sheboygan and Ex-Ray Broadcasting pleased with the entire move across the lake. Bruce Bellamy then set his sights on home. He took the train.

The Disclaimer: The 2019 Fools of April edition of the Munn-Reese Newsletter was written by Thumbs Feebleman and is published solely for the enjoyment of you, the reader. The somewhat dull life of Thumbs Feebleman, FCC Theologian is extended only by your feedback.

We now return you to our Regularly Scheduled Program.

In this Issue of the Munn-Reese News Letter!

It's the Annual Running of the Analyzers 2019!

Media Bureau announces comment dates for NCE/LPFM

EAS WEA War Games to test Mobil Radios near Nuke Plant

Rick & Gary receive the Carl E. Lee Engineering Award

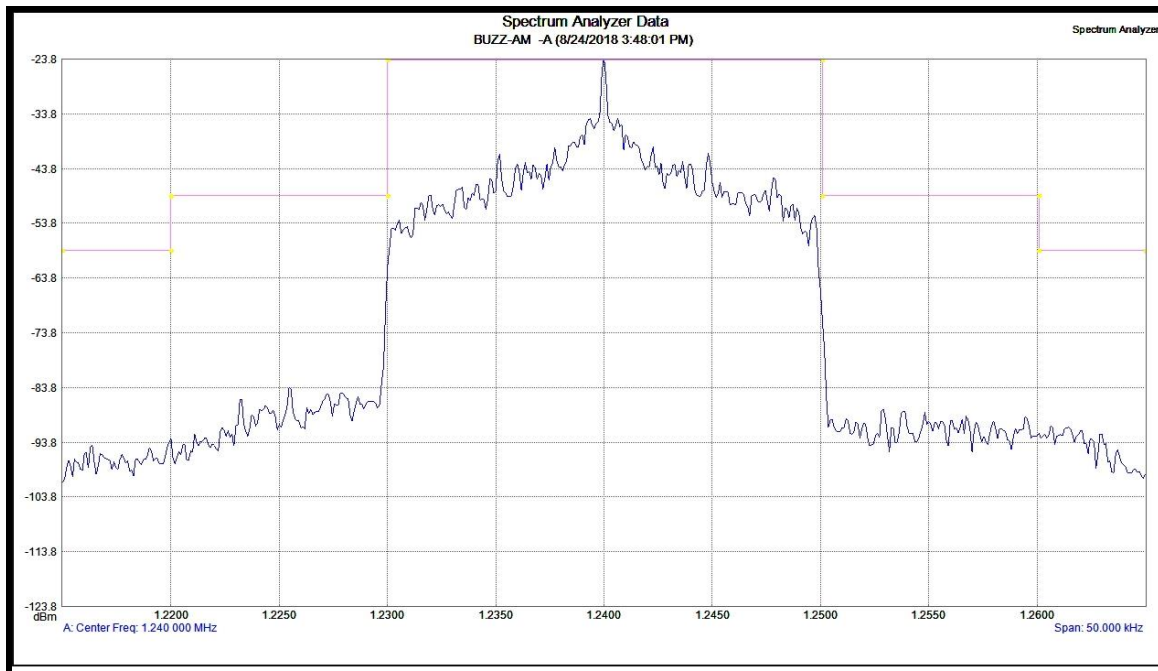
New Procedure for Tower ASR Ownership Transfers Starts

TV Channels Lost & Found? The FCC offers help Re-scanning your TV's lost channels.

The Posting of your FCC License has changed But, maybe not.

It's the Annual Running of the Analyzers 2019!

BUZZ-AM 1240



Like a slinky with a kink in it, spring has sprung once again around the Great Lakes. It's time again for the annual running of the spectrum analyzers. Rick and Ed produce the much coveted, but never duplicated Munn-Reese NRSC report.

It's suitable for framing too!

Rick & ET will once again brave the potholed highways of the rust belt using GPS guidance, high angle surveillance and active lightning dissipation technology to out maneuver Canadian truckers, Homeland Security, the Huron Metro Park police and Gretchen's gas tax.

Also! Did you turn on a new FM translator? FCC part 74 refers back to part 73 for occupied spectrum requirements of FM translators. If you have made changes to your FM transmission plan, that may trigger FCC 73.1590 and 73.317. We can perform those measurements on our yearly tour.

Satellite “C Band” Registration & Microwave Frequency Coordination



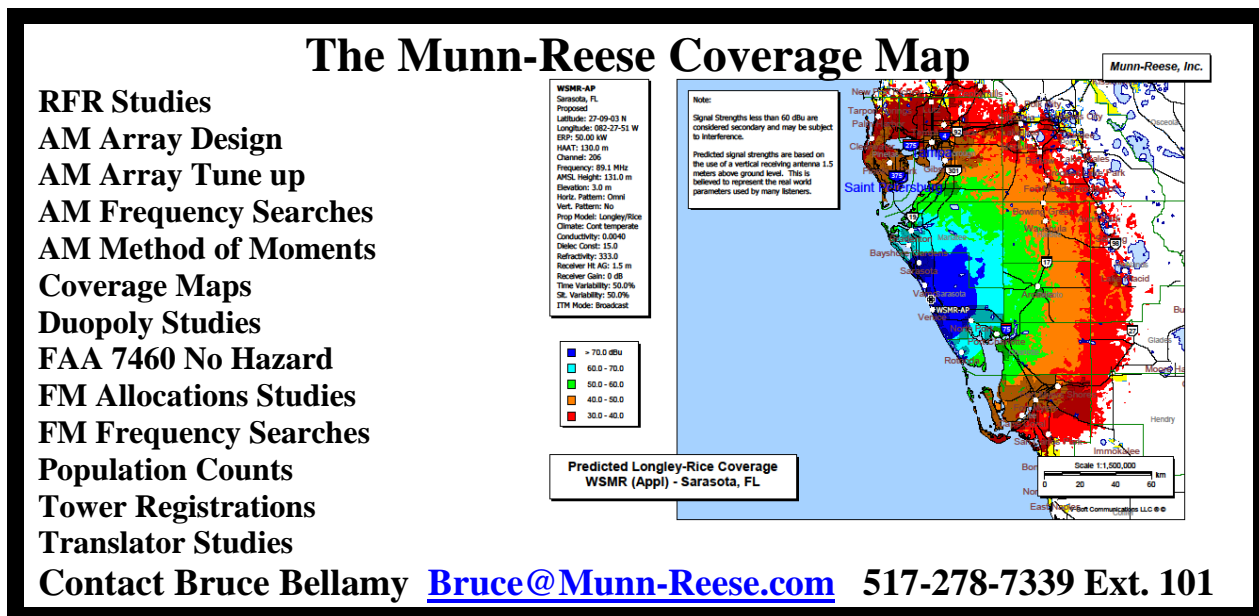
Munn-Reese can help you with all your Part 74 Frequency Coordination and Licensing needs. For straight answers about STL or RPU systems and licensing requirements contact Rick Grzebiak via email at Rick@Munn-Reese.com or 517-278-7339 ext 108

Media Bureau announces comment dates for NCE/LPFM

NCE Point System Notice of proposed rulemaking. MB Docket No. 19-3, Comment Date: May 20, 2019, Reply Comment Date: June 18, 2019. On February 14, 2019, the Commission adopted a Notice of Proposed Rulemaking In the Matter of Reexamination of the Comparative Standards and Procedures for Licensing Noncommercial Educational Broadcast Stations and Low Power FM Stations. The Commission sought comment on several proposals designed to improve the rules and procedures to select and license competing applications for new noncommercial educational broadcast stations and low power FM stations. [DA-19-195A1](#) The full text of the proposed changes can be found here. The document is 55 pages. [FCC-19-9A1](#)

EAS WEA War Games to test Mobil Radios near Nuke Plant

In this Order, the Public Safety and Homeland Security Bureau (Bureau) of the Federal Communications Commission (Commission) grants a limited waiver of the Commission's wireless Emergency Alerts (WEA) rules to permit Participating Commercial Mobile Service (CMS) Providers to participate in an end-to-end WEA test to be conducted by the South Carolina Emergency Management Division. This proposed end-to-end test of WEA would occur within the ten-mile Emergency Planning Zone (testing zone) surrounding the V.C. Summer Nuclear Station (nuclear station). For the reasons discussed below, we grant the request, subject to certain conditions. [DA-19-191A1](#)



Rick Grzebik & Gary Harding

Receive the Carl E. Lee Engineering Award



Rick Grzebik (left) and Gary Harding (right) were honored March 5 at The Great Lakes Media Show during the Exhibitor Reception!



Brag A Little!!

Just a quick note to

Munn-Reese now has two engineers that have received, The Carl E. Lee Broadcast Engineering Excellence Awards. Ed Trombley was presented his award in 2010 at the MAB Great Lakes Media Show. At Munn-Reese you get years and years of experience to help tackle today's broadcast engineering needs.

New Procedure Tower ASR Ownership Transfers starts 2/14/19

On February 14, 2019, the FCC will revise its Antenna Structure Registration System (ASR) to put into place a new process for reporting changes in ownership of towers and other structures registered

in the system. Related changes will be made to FCC Form 854, Antenna Structure Registration, on the same date. To implement these changes, the ASR online system will be unavailable as of 6:00 a.m. on February 14, 2019, until approximately 10:00 a.m. on the same day. The changes described below will be effective when the ASR system comes back online. [DA-19-69](#)

TV RESCAN ASSISTANCE at the FCC Consumer Help Center

WASHINGTON, February 4, 2019. The Federal Communications Commission today announced the launch of a special call center dedicated to helping viewers of over-the-air television rescan their TVs during the ongoing transition of local TV channels to new frequencies following the Commission's broadcast incentive auction.

Viewers may reach the call center toll-free by dialing 1-888-CALLFCC (1-888-225-5322) and pressing "6" to speak to a help desk representative. The call center is staffed from 8:00 a.m. to 1:00 a.m. Eastern time, seven days a week, to enable consumers throughout the country to obtain assistance during evening and weekend hours.

[DOC-356045](#)

Posting of your FCC License has changed.

The FCC has deleted the rules in part 73 and part 74 that required the station license to be nailed to the wall or kept in a 3 ring binder at the

control point. A much needed word of caution here from Thumbs. The chief operator still needs to know what the licensed operating parameters are. It can be an FM station or a 12 tower AM directional array. Contract engineers come and go like the seasons. Sometimes assumptions are made and they are made wrong. I have seen numerous times where an AM station with a directional array does a partial proof to tuck the pattern back in. Sometimes a monitor point gets moved. The License gets modified by the FCC but the copy never makes it to the transmitter building wall. Contract engineers trade places. The new guy sees the array on the wrong operating numbers. He then calls ET for help only to find, it's all right where it belongs. Then the engineer goes digging for the new license that never made it to the wall. It no longer needs to be posted, but it still needs to be the correct copy of the license in the engineer's hand. [FCC-18-174](#)

The Best of The FCC Enforcement Actions

MEMORANDUM & OPINION (Strike 1!)

Enforcement ORDER (Strike 2!)

NAL FOR \$18K FORFEITURE (Strike 3!)

That \$18,000 also includes an upward adjustment of \$2,000 for the extensive and egregious nature of the apparent violations. Failure to timely file a required form, unauthorized discontinuance of operation, unlawfully originating programming, and unauthorized operation. Action by: Chief, Audio Division, Media Bureau. Adopted: 2019-03-27 by NALF. [DA-19-212A1](#)

Notice of Violation

Interference to a Licensed Fixed Satellite Service (FSS)
Earth Station [DOC-356507A1](#)

FCC Media Release

The United States uses a New Tool to Quiet Pirate Radio. A Civil Injunction forcing the pirate to go silent. Kind of an STA in reverse! [DOC-356445A1](#)

Notice of Violation

The FCC inspector noted that some of the tower lights were dark on this three tower array. Then he came back 15 days later and the lights were still dark. A search for an FAA NOTAM found none on file. [DOC-356430A1](#)

Notice of Violation

AM towers having radio frequency potential at the base must be enclosed within effective locked fences. [DOC-356569A1](#)

Notice of Violation

The license for amateur radio station KE6MWS does not authorize any form of broadcasting, including those on the broadcast frequency 95.7 MHz. [DOC-356614A1](#)

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