

ARRL EMC Committee Report – Doc. #16

July 12, 2023

for the ARRL Board of Directors Meeting
July 21 and 22, 2023

Submitted by Carl Luetzelschwab K9LA
Director, Central Division
Chair, ARRL EMC Committee



for the period January through June 2023

Thanks to WIRFI for his many years with the ARRL. W1GKS is the new HQ Lab Manager

Meetings

On March 26, 2023, notes of the EMC Committee activities were sent to all participants. An EMC Committee meeting was held on May 31, 2023 to review the status of the various activities. The next meeting is planned for late July/early August and will include a discussion of representing the ‘standards’ activity.

Lab efforts YTD

W1EMI reports over 100 cases. The two biggest categories are power line noise and noise from solar installations. The remaining are miscellaneous issues, including Part 15 devices not meeting their limits.

Initiatives in Progress

Illegal Transmitters – Synopsis (short summary for initial FCC discussions) with K3ZJ.

Part 15 Devices Not Meeting Limits – Synopsis (also a short summary for initial FCC discussions) with K3ZJ.

ARRL position paper on AM radio

K9LA is still working on it

Good news – Ford will continue putting AM radios in their 2024 models

This action may set the trend among others

Shortwave Modernization Coalition proposal

K9LA and W9XA reviewed this proposal

Interference to distant receivers is minimal

Interference to local receivers – could be a very big problem

K9LA looked at RF exposure limit – 24 MHz, 16 KW, four 15 dBi antennas, 20% duty cycle (patterned after the site in Wanatah, IN) – approx 300 feet separation needed

RFI teams

All these efforts are towards the goal of having at least one RFI Team in every section.

K1UI

New England Division RFI Team Project	
Timing	Action
June 2022	Teams formed in all 7 sections.
July 2022	ARDC equipment grant submitted.
September 2022	ARDC grant (\$23.6K) approved.
October 2022	Training and deployment for teams in progress. Funds not yet received.
Dec/Jan 2023	Goal to meet with teams, train and deploy equipment. 4 of 7 complete.
1 st /2 nd Qtr 2023	Implement pilot, adjust process after 10 and 25 cases in process
3 rd Qtr 2023	Full process implementation and follow-up. Stage for additional grants as required

AI4GK – six cases to W1EMI

WA6MEM – little activity, LAX burying power lines, would be nice to have a document that outlines solar installation guidelines for community leaders

Standards

Kermit W9XA replaces Ed W1RFI as one of the five ‘standards’ representatives. The other four are W1EMI, W1MG, KI6LGY and N6TPT

Here are the standards that our five representatives have been working on or are still working on. Note that the ARRL is not involved with the CISPR standards – but one of our representatives is involved.

IEEE EMC Society	IEEE Power and Energy Society	ANSC-C63 Standards Development Organization
P1897	P1613	C63.9
	PC37.90.1	C63.10
	PC37.90.2	
	PC37.90.3	
Mike W1MG, Jerry KI6LGY	Jerry KI6LGY	Kermit W9XA, Steve W1EMI, Jerry KI6LGY

National Radio Systems Committee (part of NAB)	International Electrotechnical Commission (ARRL not involved)
AIWG (AM Improvement WorkGroup)	CISPR 32
	CISPR 35
	Ghery N6TPT
Steve W1EMI	

IARU EMC Committees

K9LA continues to participate in the IARU Region-1 (mostly EU and AF) EMC Committee and its NMC (Noise Measurement Campaign) sub-group. K9LA's ENAMS (Electrical Noise Area Measurement System) set-up monitors noise from 66 kHz to 31 MHz in his rural environment in northeast Indiana.

W5ZN (IARU Secretary) reports that there are still two openings in the IARU Region-2 EMC Committee that were vacated when W1RFI ended his long career with the ARRL.

IARU Region-1 EMC Committee	IARU Region-2 EMC Committee
Delegate	Coordinator
	Delegate
Carl K9LA	TBD for both