

Joseph M. Davis, P.E.
Presenter Biography September 2016



Joseph M. Davis is a television and radio consulting engineer with over 35 years' experience and is president of the consulting firm Chesapeake RF Consultants LLC.

Joe received a Bachelor of Science in Electrical Engineering Technology in 1982 from Old Dominion University in Norfolk, Virginia, and since 1980 has worked directly for and then served as a consultant to various television and radio stations in engineering capacities, including transmitter and tower site relocation, facility upgrade, signal propagation, interference evaluation, FCC technical regulatory matters, and in the evaluation of human exposure to radiofrequency (RF) electromagnetic fields.



He has been involved in the digital television transition since 1996, providing consulting services to broadcasters in regard to the FCC's technical requirements concerning evaluation of digital allotment tables, DTV station authorization, expansion, use of alternate channels, and preparation of technical exhibits for submission to the FCC. He prepared the technical specifications and applications that led to the FCC's first grants of DTV station construction permits dating back to 1997. He has provided considerable licensing support of full-power, low-power, and Class A television stations throughout the transition to digital, including channel changes and maximization of post-transition operations. He has directly advised FCC staff regarding potential challenges and costs for TV broadcasters subject to incentive auction channel repacking. He has provided numerous presentations concerning the FCC's repacking procedures to TV group engineers and professional organizations.

Other professional services provided by Mr. Davis include radio and television channel allocation studies, upgrade analysis, RF exposure evaluation, waiver support, multiple ownership studies, engineering exhibit preparation, and microwave licensing. Due diligence services are provided related to the evaluation of prospective broadcast station acquisition and FCC spectrum auctions, including comparative coverage analysis and review of engineering-related licensing matters. Services regarding FM radio stations include channel studies to examine potential for upgrade, improvement, and site relocation. Current activity includes FM translator frequency availability analysis, facility design, interference modeling, and related FCC filings including those for AM stations seeking to establish an FM translator.

He has performed and supervised measurements of RF electromagnetic field for evaluation of exposure levels at publicly-accessible areas near transmitter sites and at on-tower locations to evaluate the possibility of worker exposure. He has appeared in person before local governmental boards and the FCC staff regarding antenna siting matters and has briefed numerous attorneys, trade groups, and broadcasters on various technical issues.

Joe is a licensed Professional Engineer in the Commonwealth of Virginia, where his residence and office are located. He is a full member of the Association of Federal Communications Consulting Engineers (AFCCE), and has served two terms as AFCCE's president and one term as Chair of the AFCCE CDBS Technical Advisory Committee. He is also a member of the Institute of Electrical and Electronic Engineers (IEEE), the National Society of Professional Engineers (NSPE), and the Society of Broadcast Engineers (SBE), and is Certified as a Professional Broadcast Engineer by the SBE.

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