Reviewer: Albert M. Manville, II, Ph.D., C.W.B.
Principal, *Wildlife and Habitat Conservation Solutions, LLC,*

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R9	Manville 2007 - USFWS official agency comments to FCC regarding Notice of Proposed Rulemaking on the "effects of communication towers on migratory birds," 2007	Manville Report Att. R9.pdf
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Mini Resume/CV: Albert M. Manville, II, Ph.D., C.W.B.

Dr. Albert (Al) Manville retired June 2014 from his position as a Senior Wildlife Biologist with the Division of Migratory Bird Management, U.S. Fish & Wildlife Service, Headquarters Office, Arlington, VA. He was the Service's national lead on issues related to anthropocentric causes of bird mortality both from structures and from fishery impacts. In those capacities, he chaired the Communication Tower Working Group, the Avian Power Line Interaction Committee Service Steering Committee, and the Waterbird Bycatch Working Group; he co-chaired the Interagency Seabird Working Group, the Wind Turbine Siting Working Group Subcommittee, and represented the Service on the Wildlife Workgroup of the National Wind Coordinating Collaborative, on the Avian Power Line Interaction Committee, on the Technical Advisory. Committee for Audubon National Wildlife Refuge, was a technical scientific advisor to the Wind Energy Federal Advisory Committee, and was a technical advisor to the Bird-Safe Glass Initiative. He also served on the White House's Office of Science and Technology Policy Wind-Wildlife Federal Taskforce.

Al received a B.S. degree in zoology from Allegheny College (Meadville, PA) with a research focus on black bears. He received an M.S. in natural resources and wildlife management from the University of Wisconsin, Stevens Point, studying the parasites and diseases of black bears, while also conducting waterfowl and upland gamebird assessments. He earned a Ph.D. at Michigan State University in wildlife ecology and management, studying black bears in the wild using radio tracking devices to assess their movements, dispersion, den site selection, and survival, as well as the impact of humans on bear populations. He also conducted several independent avian studies at MSU. More recently, he studied the interaction between wolves, brown bears and humans in Alaska for 12 years; spent 6 summers conducting research in the Aleutian Islands on the impacts of marine debris on seabirds, sea lions, and seals; and studied impacts to seabirds, wolves, bears and other wildlife from the *Exxon Valdez* oil spill for 5 years post-spill. Dr. Manville was also trained by the U.S. Depai tment of State as a Mandarin Chinese linguist and interpreter working for the National Security Agency while serving in the U.S. Navy where he also was trained in the use of electronic equipment. He is designated a "Certified Wildlife Biologist" (CWB) by The Wildlife Society.

Among many varied career positions, Dr. Manville was Big Game Records Coordinator for the Boone and Crockett Club, has served as Vice President/Director of Science Policy for Defenders of Wildlife, and was a member of the U.S. Scientific Delegation on High Seas Driftnetting which led to significant victories at the United Nations in stopping large-scale driftnet fishing worldwide. He helped write and pass 7 Federal environmental laws dealing with marine plastic debris, oil spills, and military plastic dumping. He chaired a coalition of more than 50 environmental groups that helped win $16.2 million in federal research appropriations to investigate marine entanglement issues. He founded the Nongame Coalition (also helping to garner — $2 M in federal nongame bird appropriations), and co-founded the Ad Hoc Advisory Committee on Plastics/Keystone Dialogue on Plastics which helped convince the U.S. Navy to stop all dumping of plastics worldwide, efforts codified into law in 1993. He served on the Board of Managers of the Washington Biologists' Field Club and has been nominated for membership in the Cosmos Club. He is a member of numerous professional societies.

Al previously served as the Executive Director of the Adirondack Mountain Club in Upstate New York. He has served on the Steering Committee of the Endangered Species Coalition, Washington, DC. In 1997, he became a branch chief with the Division of Migratory Bird Management with USFWS where, as a senior wildlife biologist, he was in charge of bird strike, related policy, and international migratory bird issues for his Division. In 1999, Dr. Manville received the Conservation Service Award from the Secretary of the Interior for bird efforts with the electric utility industry.

Manville has testified over 40 times before Congress and other governmental bodies and conducted numerous research efforts globally. He has published more than 175 professional and popular papers, chapters and book reviews (including the current chapter in *Problematic Wildlife: a Cross Disciplinary Approach,* 2016, springer.com), and given more than 160 invited public presentations. He has served on the Editorial Advisory Board of the *Nature Conservancy* Magazine, was the wildlife consultant for the Walt Disney/Touchstone Pictures production of the movie *White Fang* based on Jack London's book, and has conducted hundreds of radio (e.g., TalkinBirds.com #561, 2/7/2016 interview on FAA lighting) and television interviews, and been extensively quoted in the print and electronic media.

He has held teaching positions at Michigan State University, was on the faculty of George Mason University and the USDA Graduate School Evening Programs, and since 2000 has been an Adjunct Professor for Johns Hopkins University (DC Campus) teaching evening, weekend and weeklong intensive graduate ecology and conservation biology/wildlife management courses for JHU. He also enjoys flying as a private pilot, is a wildlife photographer, kayaker, and dog aficionado, and he serves as Principal for his consulting business, *Wildlife and Habitat Conservation Solutions, LLC,* registered in the Commonwealth of Virginia.