August 17, 2017

Kelly Hammerle
National Program Manager
Bureau of Ocean Energy Management
45600 Woodland Road
Mailstop VAM-LD
Sterling, VA 20166


Re: Maryland Attorney General’s Comments in Response to BOEM’s Request for Information and Comments on the Preparation of the 2019-2024 National Outer Continental Shelf Oil and Gas Leasing Program MAA104000 (82 FR 30886; July 3, 2017)

Dear Ms. Hammerle:

As Attorney General of Maryland, I write to express my strong opposition to any efforts to open up the Mid-Atlantic Outer Continental Shelf (OCS) lease area to oil and gas exploration and drilling, as it would cause unacceptable and significant environmental and economic effects on our State’s natural resources and coastal communities. My concerns echo those of more than 120 East Coast municipalities – including Ocean City, Maryland and Baltimore, Maryland – and more than 1,200 local, state and federal elected officials that have formally opposed offshore drilling. I, along with eight other Attorneys General, also recently provided the attached comments strongly opposing the proposal by the National Marine Fisheries Service (NMFS) to issue incidental harassment authorizations to take marine mammals during seismic surveys in the Atlantic Ocean (82 FR 26244; June 6, 2017) – authorizations required as precursors to offshore oil and gas exploration and drilling.

Background

On July 3, 2017, the Bureau of Ocean Energy Management (BOEM) solicited information and requested comments on the preparation of a new five-year National Outer Continental Shelf Oil and Gas Leasing Program (National OCS Program) for 2019-2024 pursuant to the OCS Lands Act. Upon completion, the National OCS Program for 2019-2024
will replace the National OCS Program for 2017-2022, which was approved on January 17, 2017. The National OCS Program provides the proposed schedule of lease sales for the subsequent five-year period, and enables the Federal Government, States, industry, and other interested parties to begin planning for the later steps in the leasing process. BOEM initiated this new five-year planning process as a result of President Trump’s April 28, 2017 Executive Order, America-First Offshore Energy Strategy.

The July 3, 2017 Federal Register notice requested comments on all 26 OCS Planning Areas, including the areas that are restricted from leasing by Presidential withdrawal or Congressional moratorium. BOEM seeks a wide array of information, including, but not limited to, information associated with the economic, social, and environmental values of all OCS resources, as well as the potential impact of oil and gas exploration and development on other OCS resources, and on the marine, coastal, and human environments. The Federal Register notice also states that as a result of the initiation of a new National OCS Program development process and, with it, the renewed potential for a lease sale in the Atlantic region, BOEM may receive new geological and geophysical permit applications in the near future.

**Retain Current 5-Year Program (National OCS Program for 2017-2022)**

BOEM announced the first steps in the development of a new National OCS Program for 2019-2024 only six months after it finalized the current 5-Year Program (National OCS Program for 2017-2022). During the development of the current 5-Year Program, BOEM proposed to include a lease sale which would have opened up the Mid-Atlantic OCS area to oil and gas exploration and drilling. In March 2015, I along with hundreds of concerned citizens of this region, voiced my opposition to that proposed lease sale and that proposal was roundly rejected. After an extensive public process, BOEM decided to remove the Mid-Atlantic area from the current 5-Year Program and acknowledged that drilling off the Atlantic coast is ill-advised due to market dynamics, strong local opposition, and conflicts with competing commercial and military ocean uses.

Those concerns remain unchanged today. Drilling off the Mid-Atlantic coast continues to be ill-advised and ignores the strong opposition from the local communities that would be most impacted by oil and gas drilling. Accordingly, the current 5-Year Program should remain in place through 2022 and any new 5-Year Program should exclude the Mid-Atlantic OCS for oil and gas exploration and drilling activities.

**Oil & Gas Drilling Would Significantly Impact Maryland’s Economy and Natural Resources**

Every step of the oil and gas exploration process threatens Maryland’s irreplaceable natural resources. Deep penetration seismic surveys, for which five applicants are currently seeking authorization from NMFS to incidentally take marine mammals, are likely to have significant, long-lasting, and widespread impacts on the reproduction and survival of fish and marine mammal populations (see attached July 21, 2017 letter). Our natural resources will also
be endangered by the extraction, transfer, and transport of fuels as well as the inevitable spills and blowouts that occur during drilling activity. As manifested in Prince William Sound following the Exxon Valdez spill and along the Gulf Coast following the Deepwater Horizon disaster, these risks are concrete, enduring, and profound. If plans to allow drilling in the Mid-Atlantic move forward, coastal communities could face, among other things, chronic oil and chemical leaks, the potential for major spills, and the industrialization of shorelines by infrastructure needed for oil and gas development.

Oil and gas drilling activities could significantly impact the water quality of our state’s beaches, which have been rated among the best. Offshore oil and gas exploration could put at risk Assateague Island, which includes more than 37 miles of high-quality ocean beaches and is one of the few remaining undeveloped barrier island environments along the Mid-Atlantic coast. The Chesapeake Bay, the nation’s largest estuary which is on the fragile road to recovery, serves as nursery grounds for hundreds of species which spend part of their lives in the Atlantic, including striped bass, flounder, and crabs. Commercially- and recreationally-valuable species such as the striped bass, blue crab, oyster, flounder, black sea bass, sea scallops, and menhaden are all dependent on the Bay and its tributaries. The Assateague Island beaches provide vital habitats for the millions of migratory birds that use the Atlantic Flyway. Our more than 3,100 miles of coastline supports a thriving ecosystem of marine mammals and sea life and provides critical habitat to several federally endangered and threatened species of fish, birds, and turtles. These all could be put in danger by oil and gas exploration and drilling activities and the inevitable spills and blow-outs that would occur during the process.

In addition to environmental concerns, oil and gas drilling would significantly affect Maryland’s tourism, commercial fishing, and recreation related economies which depend on a healthy ocean and healthy marine mammals. Assateague Island is an important regional destination visited by more than two million people annually, resulting in a net economic benefit of $112 million annually. Approximately eight million visitors annually visit Ocean City, Maryland, a year-round resort on the Eastern Shore that boasts a 10-mile beachfront, with tourism spending of at least $1 billion. The Mid-Atlantic seafood industry supports more than 130,000 jobs, generating $4 billion in income. Millions of dollars have been invested to protect and improve the Chesapeake Bay. A major oil spill would have devastating impacts on the local and regional recreational, fishing, and tourism industries as well as our exceptional natural resources. But even if an oil spill does not directly contact Maryland’s coast, there could be significant effects on the State’s resources, including interruptions in the operation of the region’s shipping and military activities, impacts to the habitat of commercially important species that would damage commercial and recreational fishing industries, decline in tourism, and lost revenues.

These unacceptable environmental and economic risks have prompted more than 120 East Coast communities, including the City of Baltimore and Ocean City, Maryland, as well as over 1,200 local, state, and federal elected officials to formally oppose oil and gas exploration. More than 35,000 businesses and 500,000 commercial fishing families along the Atlantic Coast from Maine to Florida oppose offshore oil and gas drilling activities because it threatens the
coastal ecosystem on which 1.4 million commercial fishing, tourism, and recreation jobs depend.\(^1\)

**Conclusion**

As history shows, the impacts of drilling for oil and gas are widespread, severe and do not respect state boundaries. The impact from exploration and drilling activity in the Mid-Atlantic would significantly erode the health of Maryland’s coastline and the Chesapeake Bay, and could wreak havoc on coastal communities for hundreds of miles. Regional economies based on tourism, recreation and fishing would be at risk.

The significant environmental and economic risks associated with offshore oil and gas drilling outweigh any potential benefits. The federal government has long maintained protections for the Mid-Atlantic OCS area, and has prohibited oil exploration in this critical and sensitive area. I implore you to keep those protections in place and exclude the Mid-Atlantic OCS area from the 2019-2024 planning program.

Sincerely,

BRIAN E. FROSH
Maryland Attorney General

Enclosure

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\(^1\) Business Alliance for Protecting the Atlantic Coast, http://protectingtheatlanticcoast.org/about-us. See also New Jersey Chamber Exec Elected Chair; Business Alliance Formally Organized, Cape May County Herald, March 15, 2017, http://www.capemaycountyherald.com/community/business/article_c0b9cebc-0999-11e7-a75d-27d7076a9cc4.html.
Jolie Harrison, Chief
Permits and Conservation Division
Office of Protected Resources
National Marine Fisheries Service
1315 East-West Highway
Silver Spring, MD 20910

Re: Takes of Marine Mammals Incidental to Specified Activities; Taking Marine Mammals Incidental to Geophysical Surveys in the Atlantic Ocean (82 FR 26244; June 6, 2017)

Dear Ms. Harrison:

The Attorneys General of Maryland, Connecticut, Delaware, the District of Columbia, Massachusetts, New York, North Carolina, Pennsylvania, and Rhode Island (“State AGs”) appreciate this opportunity to comment on the proposal by the National Marine Fisheries Service (“NMFS”) to issue incidental harassment authorizations (“IHA”) to take marine mammals incidental to conducting geophysical survey activities in the Atlantic Ocean (82 FR 26244; June 6, 2017). Five applicants – Spectrum Geo Inc., TGS-NOPEC Geophysical Company, ION GeoVentures, WesternGeco, LLC, and CGG – are proposing to conduct deep penetration seismic surveys using air-gun arrays as an acoustic source. The State AGs strongly oppose these seismic survey proposals, as they are contrary to public policy and science. We urge NMFS to deny the IHA applications.

The proposed, two-dimensional seismic surveys pose a real danger to the Atlantic coastline. Vessels tow large arrays of seismic air-guns, which emit high energy, low-frequency impulsive sound that travels long distances. These air-guns shoot loud blasts of compressed air

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through the ocean and miles under the seafloor, every ten seconds for days and weeks on end. The air-gun blasting can cause disruptions of communication, migration, feeding, and reproduction of marine mammals, fish, and creatures on the ocean floor.\(^2\) These sounds can cause marine mammals and fish to lose hearing and die.\(^3\)

Seismic blasts may hinder recovery of threatened or endangered marine mammal species. The risk of any adverse impact to the critically endangered North Atlantic right whale could have devastating consequences, especially because the remaining population of 500 whales faces many other threats that imperil the species’ survival.\(^4\) Last year, twenty-eight marine biologists with right whale expertise expressed “profound concern” over the impacts of seismic surveys along the Atlantic coast.\(^5\) Even with proposed mitigation, these scientists warned that “widespread seismic air-gun surveys may well represent a tipping point for survival of this endangered [North Atlantic right] whale, contributing significantly to a decline toward extinction.”\(^6\)

The detrimental impact of seismic surveys has been studied and documented in peer-reviewed scientific literature. In a study published earlier this year, investigators from the National Oceanic and Atmospheric Administration (the agency that oversees NMFS) and two of the country’s most prominent marine research universities concluded that reef fish abundance

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\(^4\) Since June 1, 2017, six North Atlantic right whales have been reported dead in the Gulf of St. Lawrence. The cause of their deaths is unknown. http://news.nationalgeographic.com/2017/06/north-atlantic-right-whale-deaths-st-lawrence-spd/


\(^6\) \textit{Id.}
declined 78% during seismic surveying.\textsuperscript{7} And just last month, scientists for the first time found that air-gun blasts kill large numbers of zooplankton, the invertebrates at the base of the marine food chain necessary to the survival of many marine species, including fish and baleen whales.\textsuperscript{8} Finding that zooplankton declined by 64% as far as 4,000 feet away from the air-gun blast source, the study concluded that “there is a significant and unacknowledged potential for ocean ecosystem function and productivity to be negatively impacted by present seismic technology.”\textsuperscript{9} These recent studies demonstrate that seismic surveys have immediate and far-reaching effects on commercial fishing, charter boat operators, recreational anglers, restaurants, and visitors to coastal communities. The adverse effects of seismic surveys on fish species and zooplankton may also harm marine mammals by reducing or disrupting the food sources on which they prey.\textsuperscript{10}

In a 2015 letter, seventy-five of the world’s leading marine scientists stated that the Interior Department’s finding that seismic surveys along the mid-Atlantic and south Atlantic coasts would have a negligible effect on marine life was “not supported by the best available science.”\textsuperscript{11} On the contrary, the proposed seismic surveys were, according to these scientists, “likely to have significant, long-lasting, and widespread impacts on the reproduction and survival of fish and marine mammal populations.”\textsuperscript{12}

Even if seismic surveys were warranted, which they are not, NMFS has failed to meet its responsibility under the Marine Mammal Protection Act to effect “the least practicable adverse impact on such species or stock and its habitat.” (§ 101(a)(5)(A)(i)(II)(aa)). For example, new and evolving quieting technologies, such as marine vibroseis, could minimize marine mammal impacts associated with current air-gun technologies.\textsuperscript{13} NMFS appears not to have considered


\textsuperscript{9} Id.


\textsuperscript{11} Letter urging the President to reject seismic oil and gas surveys in the Atlantic, March 5, 2015, http://news.neaq.org/2015/03/full-text-letter-urging-president-to.html.

\textsuperscript{12} Id.

\textsuperscript{13} One of the inventors of the seismic air-gun is among those developing this new technology designed to be much less harmful and disruptive to the marine environment. See Neel Keller, Could New Technologies Make Seismic Testing Safer, Outer Banks Sentinel, May 3, 2016, http://www.obsentinel.com/news/could-new-technology-make-seismic-testing-safer/article_433a122e-f5c9-11e5-b119-1b520f9b596a.html. Recent research suggests that marine vibroseis may be less environmentally impactful than seismic air-guns. Duncan, A., Weilgart, L., Leaper, R., Jasny, M., Livermore, S., A modelling comparison between received sound levels produced by a
them in proposing these authorizations. The proposals also make no effort to eliminate overlapping survey areas. The five applicants appear to be proposing to conduct seismic surveys in the same general areas collecting essentially the same data. This senseless redundancy increases the potential for significant long-lasting impacts on the marine mammal populations off the coasts of our states.

The proposed seismic surveys are designed to acquire data over large areas to screen for potential oil and gas drilling and would be conducted in an area extending from Delaware to Florida. These authorizations are a precursor and, in fact, were integral to any campaign to allow oil and gas drilling in the Atlantic. That plan, however, was roundly rejected when, after an extensive public input process, the Bureau of Ocean Energy Management removed from the Five-Year Program (2017-2022) the sale that was proposed for the Mid- and South Atlantic area. The Bureau’s decision to remove the Atlantic program area from this most recent leasing plan acknowledged that drilling off the Atlantic coast is ill-advised due to market dynamics, strong local opposition, and conflicts with competing commercial and military ocean uses.

Every step of the oil and gas exploration process threatens irreplaceable natural resources, including the testing and drilling needed to locate deposits; extraction, transfer, and transport of fuels; and the inevitable spills and blowouts that occur during drilling activity. As you know, these risks are not theoretical. As manifested in Prince William Sound following the Exxon Valdez spill and along the Gulf Coast following the Deepwater Horizon disaster, they are concrete, enduring, and profound. These risks have prompted more than 120 East Coast communities, including the City of Baltimore and Ocean City, Maryland, as well as local, state, and federal elected officials to formally oppose oil and gas exploration, including seismic survey activities. More than 35,000 businesses and 500,000 commercial fishing families along the Atlantic Coast from Maine to Florida oppose seismic testing and offshore oil and gas drilling exploration because it threatens the coastal ecosystem on which 1.4 million commercial fishing, tourism, and recreation jobs depend.14

The Atlantic shoreline boasts some of the most pristine beaches in the country, as well as some of the most historically productive estuaries, including the Chesapeake Bay. The well-documented injury to marine resources presented by seismic testing could adversely impact fisheries and tourism industries along the Atlantic coast, and put at risk billions of State and federal dollars invested in the restoration and maintenance of coastal resources.

Simply put, the harassment of marine life to be authorized under this proposal is unjustified and unwarranted. For all of the above reasons, the proposed seismic surveys present

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risks to the affected regions that far outweigh any benefit. Accordingly, all five pending applications should be denied.

Sincerely,

BRIAN E. FROSH
Attorney General of Maryland

GEORGE JEPSEN
Attorney General of Connecticut

MATTHEW DENN
Attorney General of Delaware

KARL A. RACINE
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MAURA HEALEY
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