

Discipline	Title
AQ	<u>NAAQS Exemption Level Study</u>
AQ	<u>Year 2014 Gulf-wide Emissions Inventory Study</u>
AQ	<u>Enhancing the Capability of a New Meteorological Model for Air Quality and Other BOEM Applications in the Gulf of Mexico</u>
PO	<u>Coral Reef Ocean Acidification Sentinel Site in the Flower Garden Banks National Marine Sanctuary</u>
PO	<u>Testing Chang and Oey's (2011) Gulf of Mexico Oscillator Hypothesis: A Field Program</u>



Offshore Air Quality



- Background
 - Industry's exploratory drilling or producing plans include data to estimates air emissions as required by OCS Lands Act.
 - These emissions estimates are compared to an exemption level to determine if the plan has impacts to onshore air quality and is therefore approved or denied.
 - This exemption level must assure that the plan's emissions would have no impact to onshore NAAQS standards.
 - Presently the exemption level is calculated using $33.3xD$, where D is the distance to shoreline in statute miles. If a plan's emissions are under this exemption level, the plan is approved.



- **Relevance to BOEM**
 - To ensure BOEM is complying with the updated standards by using an appropriate exemption level
- **Objectives**
 - To verify the existing exemption level or to determine a new one if necessary to be used by BOEM in its review of submitted plans to ensure that sources do not impact the onshore air quality.



- **Methods**

- The contractor shall perform several modeling episodes using an approved USEPA model from “Guideline on Air Quality Models” to verify or calculate a new exemption level in the Gulf based on distance to shoreline.

- **Products**

- Modeling Files
- Report



- **Cost Breakdown**

- ~\$80K to run a model for different scenarios and meteorological conditions
- ~\$40K to set-up the scenarios, gathering meteorological data, and writing the report
- ~\$20K to update our current model to run in new Windows
- Total Cost-~\$140

