

December 5, 2016

## MEMORANDUM

To: Tom Moore, WESTAR  
From: John Grant, Amnon Bar-Ilan  
Subject: National O&G Inventory Analysis: November Progress

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Below is a summary description of progress made on the subject project during November 2016.

### TASK 1. NATIONAL INVENTORY ANALYSIS

#### 1) Point O&G Sources:

- a) Gave a status update presentation to the National O&G Committee.
- b) Continued detailed analysis of NEI point source emissions for select states.
  - i) Analyzed relationship between S/L/T agency submission thresholds to midstream point source emissions magnitude.
  - ii) Analyzed the extent of controls information available in NEI files for midstream point source emissions.
- c) Drafted memo section on point source O&G emissions review. Submitted draft memo for client review.

#### 2) Nonpoint O&G Sources:

- a) Continued analysis of O&G Tool
  - i) Continued analysis of basin factors in the O&G Tool including statistical analysis and review of data sourced from GHGRP Subpart W reporting.
  - ii) Analyzed and compared well type definitions in the EPA O&G Tool, the IHS Enerdeq database, NSPS OOOO, and GHGRP, and select state O&G commissions.
  - iii) Compared select state O&G activity estimates from the EPA O&G Tool, IHS Enerdeq, and state oil and gas commissions.
  - iv) Reviewed the basis of diesel and natural gas engine emission factors included in the EPA O&G Tool.
- b) Drafted memo section on nonpoint source O&G emissions review. Submitted draft memo for client review.

### TASK 2. REGIONAL ANALYSIS

Provided draft solicitation to Tom Moore for input from S/L/T agencies for the regional analysis.