

**MEMORANDUM**

**TO**: Jennifer Snyder, US EPA

**FROM**: Mike Pring, Eastern Research Group, Inc. (ERG)

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**DATE**: April 11, 2019

**SUBJECT**: Summary of Revisions to the Nonpoint Oil and Gas Emissions Estimation Tool – 2017 NEI Version 1

The purpose of this memorandum is to summarize additional changes that have been made to the 2017 Nonpoint Oil and Gas Emissions Estimation Tool (Tool) since the February 14, 2019 Summary of Revisions memo.

**Emission Factor and Basin Factor Updates**

The GHGRP Subpart W updates discussed during the March 14, 2019 Committee conference call have been incorporated into the Tool. See “Summary of Analysis of 2017 GHGRP Subpart W Data for Use in the 2017 NEI Nonpoint Oil and Gas Emission Estimation Tool” memo dated March 14, 2019.

**Tool Updates**

1) An SCC has been added for Coalbed Methane Dewatering Pump Engines (2310023000).

2) The SCC codes used for Artificial Lift Engines and Associated Gas Venting have been revised from the 2014 Tool as follows:

|  |  |  |  |
| --- | --- | --- | --- |
| **2014 SCC** | **2014 SCC Description** | **2017 SCC** | **2017 SCC Description** |
| 2310000330 | Oil & Gas Expl & Prod /All Processes /Artificial Lift | 2310011600 | Oil and Gas: Onshore Oil Production/Artificial Lift Engines |
| 2310011000 | On Shore Crude Oil Production All Processes | 2310011001 | Oil and Gas: Onshore Oil Production/Associated Gas Venting |

3) A default emission factor of (736 MCF/completion) has been added for conventional oil well completions based on the CenSARA study average. No default emission factor was used for conventional oil well completions for 2011 and 2014 as EPA was studying this source type under the NSPS OOOO/OOOOa revisions. This emission factor is used where no county-specific data was available.

4) A default emission factor of (1,602 MCF/completion) has been added for unconventional oil well completions based on the “Draft Inventory of U.S. Greenhouse Gas Emissions and Sinks: 1990-2017“. This emission factor was based on an analysis of GHGRP Subpart W data and is used where no county-specific data was available.