RESEARCH & DEVELOPMENT PROJECT SCOPE
DATA MODEL FOR THE COMMON EMISSIONS FORM (CEF)
January 19, 2017

OVERVIEW

1. Participants (* indicates team lead)

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Mark Wert*	Massachusetts	mark.wert@state.ma.us
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2. Project Funding - $3K

Funding for this project will be used to:

- SLT survey/data model research and design support; on-line survey tool
- Help gather/clarify survey responses to ensure broad-based participation
- Compile survey results, identify/document concurrences and differences, follow-up needed
- Help develop scope of SLT data requirements needed to support SLT use of Common Emissions Form (CEF)
- Assist with data presentation materials

3. How project fits within the larger Combined Air Emissions Reporting (CAER) "future state"?

This project will concentrate on the data fields needed across programs to develop a common emission reporting form as envisioned in the CAER.

4. Project Description

Document a data model with the emissions-related data elements needed to support a common emission form (CEF) reporting structure in a shared emissions platform. Identify and include state-specific data elements sufficient to allow for broad usage by states and EPA CAER programs.

5. Project Steps

1. Review outcome of the Air Force Project
2. Review results from Data Harmonization Short Term Win
3. Develop list of CAER data elements

4. Add state-specific and EPA-program specific elements from team members and existing sources – review for redundancy.
5. Present preliminary results to PDT – incorporate current results from other teams.
6. Develop survey for wider state input.
7. Pilot survey with a few states – evaluate results. Present to ECOS states call.
8. Administer survey to all states – likely through ECOS.
9. Follow-up contacts with responders for clarification and non-responders.
10. Compile results and evaluate for redundancy.
11. Incorporate findings from other teams (e.g., GHG, TRI).
12. Present results to PDT.

6. Prior Work

1. Air Force Project (2006-2008) – Air Force lead project in which EPA and five (5) state agencies (North Carolina, Nebraska, Texas, Utah and, Washington). The project goal was to create a universal schema which could be used by the Air Force to report to multiple state agencies in a single submission. Project was put on hold due to lack of resources for implementation. This was a high-profile project which had interest from multiple industries as well as the EPA Administrator.
2. CAER Short Term Win – Data Harmonization
3. AZ table with NEI and SLEIS data elements.

7. Deliverables

1. Initial list of NEI data elements + elements from team member states + AZ (SLEIS) + USAF study (TX, NB, WA, NC, UT)
2. List of data elements expanded to include elements from GHG, CEDRI, and TRI (as known from existing sources).
3. A survey for states to solicit additional data elements.
4. Evaluation of survey results. Identification of any issues that could impede or complicate the development or function of a CEF.
5. List of data elements expanded to include further elements identified by GHG and TRI teams.
6. Data model that identifies relationships between groups of emissions data elements.
7. List of data elements suitable for Scenario 4 CAER pilot.

8. Expected Workload

Average of. 2-3 hours per week over course of project, concentrated in initial weeks and at intervals based on the deliverables.

DELIVERABLES & EXPECTED COMPLETION DATES

Deliverable	Expected Completion Date
List of NEI data elements + elements from team member states + AZ (SLEIS) + USAF study (TX, NB, WA, NC, UT)	February 9, 2017
List of data elements expanded to include elements from GHG, CEDRI, and TRI (as known from existing sources).	March 2, 2017
A survey for states to solicit additional data elements	March 9, 2017
Evaluation of survey results.	May 4, 2017

Deliverable	Expected Completion Date
List of data elements expanded to include further elements identified by GHG and TRI teams.	May 18, 2017
Data model that identifies relationships between groups of emissions data elements	June 1, 2017
List of data elements suitable for Scenario 4 CAER pilot	June 22, 2017