Onroad Input and Emissions Submittals

Laurel Driver
July 10, 2012
EIS vs NEI

• Emission Inventory System (EIS)
  – Data repository for air emissions data used to create the NEI
  – Contains State, Local, Tribal and EPA submitted data
  – Can store multiple emissions values for the same unit/process
  – Can store annual, monthly, daily data (e.g., fires, events)
  – Data available via a password-protected web site
    • EIS Gateway https://eis.epa.gov/eis-system-web/welcome.html

• National Emission Inventory (NEI)
  – Snapshot in time from EIS
  – Inventory version shared with the public
  – One emissions value per process selected
  – Annual emissions values
S/L/T Reporting Requirement

- Air Emissions Reporting Rule (AERR)
  [http://www.epa.gov/ttn/chief/aerr/](http://www.epa.gov/ttn/chief/aerr/)
  - Complete criteria pollutant inventory every 3 years
    - All point sources (100 tpy potential to emit threshold)
    - Nonpoint Sources
    - **Onroad** and Nonroad sources
    - Events (wildfires and prescribed fires)
    - 2011 Emissions due 12/31/2012, EIS window opens 6/1/2012
  - Annual reporting for type A point source facilities
    - SO2, NOx, CO with potential to emit $>2,500$ tpy
    - VOC, PM, NH3 with potential to emit $>250$ tpy
    - Pb with potential to emit $>5$ tpy (to be amended to agree with Lead NAAQS level of $>0.5$ tpy)
  - HAPs are submitted voluntarily by many S/L/Ts and are encouraged as part of an integrated report
Uses of the NEI

• The NEI is one of the key inputs for:
  – Modeling of national rules
    - NAAQS reviews, CSAPR, etc
  – Non-attainment Designations
  – NATA Review – toxics risk modeling
  – Trends reports and analyses
Components of the EIS

• Six different data categories
  – Facility Inventory
  – Point Emissions
  – Nonpoint Emissions
  – Onroad Emissions
  – Nonroad Emissions
  – Event Emissions (wildfires and prescribed fires)
  – No biogenic emissions, although these are part of EPA’s modeling files
Onroad Submissions

• Emissions in NEI must be from an EPA-approved model
  – MOVES
  – EMFAC (California)

• EPA strongly encourages submittals of MOVES County Database (CDB) tables rather than emissions

• Tribes and CA should submit emissions
Why Inputs?

- EPA prefers to receive activity data instead of emissions as they allow for more in-depth analysis and consistent, integrated emissions in the NEI. If you do not submit onroad input data, EPA will generate emission estimates using national defaults.
- EPA will provide a set of default onroad inputs for agencies to review/customize as desired.
- Agencies may accept EPA defaults in lieu of submittals by sending a “support request” to EIS that states this.
- To the extent resources allow, EPA will assist agencies to build their submittals.
Support Request
Summary of County Database (CDB) Submittal Steps

- Review instructions on the 2011 NEI web page
- Pick up your draft default CDBs from EIS
- Compile ONLY county CDBs with improvements
- Repeatedly run QA script and address errors that are found until there are no errors
- Submit:
  - 1. QA tool report
  - 2. Checklist
  - 3. Documentation
  - 4. CDB folders for each county CDB

- EACH SUBMITTAL IS A COMPLETE REPLACEMENT OF PREVIOUS SUBMITTALS!
  - Thus an agency’s final submittal must include all counties they wish to submit
Pick up your draft default CDBs
Update Inputs
Compile ONLY CDBs for Counties with improvements

<table>
<thead>
<tr>
<th>Table Name</th>
<th>Description</th>
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<tbody>
<tr>
<td>countyyear</td>
<td>Stage 2 program description</td>
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<td>emissionratebyage</td>
<td>Alternate California standards</td>
</tr>
<tr>
<td>sccroadtypedistribution</td>
<td>Distribution of SCC vehicle classes to SCC road types</td>
</tr>
<tr>
<td>auditlog</td>
<td>Log of changes to the county database</td>
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<td>avft</td>
<td>Alternate diesel sales fractions</td>
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<td>avgspeeddistribution</td>
<td>Average speed distributions</td>
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<td>county</td>
<td>County description</td>
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<td>Distribution of VMT to day types</td>
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<td>fuelformulation</td>
<td>Description of fuels</td>
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<td>Market share of fuels by month</td>
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<td>hourvmtfraction</td>
<td>Distribution of VMT to hours of the day</td>
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<td>hpmsvtypeyear</td>
<td>Annual VMT by HPMS vehicle class</td>
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<td>Distribution of the VMT to months of the year</td>
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<td>Description of the road types</td>
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<tr>
<td>sourcetypeagedistribution</td>
<td>Distribution of vehicle population to vehicle age</td>
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<td>Vehicle populations</td>
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<td>state</td>
<td>Description of the state</td>
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<tr>
<td>year</td>
<td>Year of evaluation</td>
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<td>zone</td>
<td>Allocation of activity to zones</td>
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<td>zonemonthhour</td>
<td>Temperature and humidity values</td>
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<tr>
<td>zoneroadtype</td>
<td>Allocation of vehicle operation to zones</td>
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</table>
1. QA Report

- **PSC_QA_Report.txt**
- QA tool is available for download on the 2011 NEI website. MySQL tool checks CDB in their native format.
- Users can run the QA tool script on all CDBs for submittal.
- The QA tool checks CDB format, naming convention, ranges, sums, etc in each CDB table.
- The QA tool generates a report for inclusion with EIS submittal.
- If the tool finds any errors, they must be corrected before EIS will accept them: EIS will reject any submittal with a QA report that indicates errors.
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</tbody>
</table>
2. Check list

- **PSC_Checklist.xls (or xlsx)**
- This checklist is available for download on the 2011 website
- The checklist indicates
  - Which tables in which counties contain updates to EPA defaults
  - For which counties agencies accept EPA defaults
- The checklist must be included in the EIS submittal
Example of Checklist
3. Documentation

- **PSC_Documentation.doc (or docx)**
- A word file that explains the source of SLT provided input data. A .doc or .docx file is required
- Additional supporting files of any format are optional (e.g., .pdf or .xls)
4. CDB Folders

- **PSC_County_Database.zip**
  - Zipped file containing individual folders for each county’s CDB, and labeled with a creation date in the name (example “c10001y2011_20120601.”)
  - CDBs must include a minimum of the 24 tables listed in the summary checklist for each submitted county.
  - The submitter does not need to submit CDBs for counties where he has no improvements over EPA defaults.
- There will be no representative county submittals.
- Format is the same MySQL files that MOVES uses.
- **EACH CDB SUBMITTAL IS A COMPLETE REPLACEMENT OF PREVIOUS SUBMITTALS**
Submittal Package

*PSC = Program System Code
Creating XML HEADER

• 2 ways

  – Using staging tables
    • CERS and ExchangeHeader tables only -- currently under revision

  – Edit XML available from 2011 NEI page
    xsi:schemaLocation="http://www.exchangenetwork.net/schema/header/2 http://www.exchangenetwork.net/schema/header/2/header_v2.0.xsd">
    <hdr:Header>
        <hdr:AuthorName>Your Name</hdr:AuthorName>
        <hdr:OrganizationName>Your Organization</hdr:OrganizationName>
        <hdr:DocumentTitle>EIS</hdr:DocumentTitle>
        <hdr:CreationDateTime>2012-04-10T14:02:39</hdr:CreationDateTime>
        <hdr:Keywords></hdr:Keywords>
        <hdr:Comment></hdr:Comment>
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            <hdr:PropertyValue>QA</hdr:PropertyValue>
        </hdr:Property>
        <hdr:Property>
            <hdr:PropertyName>DataCategory</hdr:PropertyName>
            <hdr:PropertyValue>Onroad</hdr:PropertyValue>
        </hdr:Property>
        <hdr:Property>
            <hdr:PropertyName>CDBDataFile</hdr:PropertyName>
            <hdr:PropertyValue>Sample_CDB_File.zip</hdr:PropertyValue>
        </hdr:Property>
    </hdr:Header>
    <hdr:Payload>
            xsi:schemaLocation="http://www.exchangenetwork.net/schema/cer/1 http://www.exchangenetwork.net/schema/cer/1/index.xsd">
            <cer:UserIdentifier>youruserid@xyz.gov</cer:UserIdentifier>
            <cer:ProgramSystemCode>yourPSC</cer:ProgramSystemCode>
            <cer:EmissionsYear>2011</cer:EmissionsYear>
        </cer:CERS>
    </hdr:Payload>
</hdr:Document>
EIS Feedback

• EIS checks
  – Required files and folders are present
  – Naming conventions and formats are met
  – Counties in QA report match counties in CDB folders
  – QA Report confirms there are no errors from the QA tool checks
Feedback Report for CDBs Submittal
What EPA will do with submittals

• Collect and compile submitted CDBs
• Run QA tool again
• Contact agencies with questions
• Run latest available MOVES model for CAP/HAP at monthly or finer level
• Load emissions into EIS
Emissions Submittals

• Agencies may submit emissions, but inputs are preferred
• Multiple emissions data are accessible in EIS. If an agency submits, EPA and SLT data will be present.
Onroad Emissions Submittals

- Requirements for submitting onroad emissions inventory
  - CERS
  - Exchange Header
  - Location
  - Emissions Process
  - Reporting Period
  - Emissions

- Optional
  - Excluded Location Parameter
Required - CERS

• Required
  – User ID (EIS login)
  – Program System Code
  – Emissions Year

• Optional
  – Model
  – Model Version
  – Emissions Creation Date
  – Submittal Comment
Required - Exchange Header

Required:
- AuthorName
- OrganizationName
- DocumentTitle (EIS)
- DataFlowName (EIS_v1_0)
- SubmissionType ("QA" or "Production")
- PropertyName ("Data Category")
- PropertyValue ("Onroad")

Optional:
- Keywords
- Comments
- PropertyName ("CDBDataFile" - required when submitting CDB data)
  - PropertyValue (the name of the CDB zip file being submitted - required when submitting CDB data)
Required - Location

• Required
  – State/County FIPS or Tribal Code

• Optional
  – Census Tract Identifier
  – Shape Identifier
  – Location Comment
Required - Emissions Process

• Required
  – State/County FIPS or Tribal Code
  – Source Classification Code
  – Emissions Type Code

• Optional
  – Census Tract
  – Shape Identifier
  – Process Comment
Required - Reporting Period

• Required
  – State/County FIPS or Tribal Code
  – Source Classification Code
  – Emissions Type Code
  – Reporting Period Type Code
  – Calculation Parameter Type Code - **Only Onroad** (“I” for input)
  – Calculation Parameter Value and UOM – **Only Onroad** (VMT, E3Mile)
  – Calculation Parameter Material Code – **Only Onroad** (“368” for vehicle)

• Optional
  – Census Tract and Shape Identifier
  – Calculation Data Year – Only Onroad
  – Calculation Data Source – Only Onroad
  – Reporting Period Comment
Required - Emissions

• Required
  – State/County FIPS or Tribal Code
  – Source Classification Code
  – Emissions Type Code
  – Reporting Period type Code
  – Pollutant Code
  – Total Emissions and UOM

• Optional
  – Census Tract and Shape Identifier
  – Emissions Comment
Creating XML File via the Bridge Tool

Select the Data Category being converted.

Browse for Access file and select “Start”.

**REMEMBER**: The Bridge Tool works on Access 2003. If your file is saved as Access 2007 or later, you will need to do a “save as” to Access 2003 prior to using the Bridge Tool.
Common Bridge Tool Errors

- Look at your xml file prior to zipping it using Note Pad or your web browser. Make sure you see all of the components.
Submitting the zipped XML File

• Two methods
  – Node-to-node
  – CDX web client (most common method)
    • [https://nodewebrss.epa.gov/user/Login.aspx](https://nodewebrss.epa.gov/user/Login.aspx)
    • Use Gateway login and password

• QA and Production Environment
  – QA is always open to check your data. Does not change anything in the EIS
  – Production submission is your official submission and will update the EIS
  – Recommend always sending to QA first
Please Sign In.

ID: ombrowski.sally@epa.gov
Password: ************
Domain: default

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Last updated on Tuesday, January 31st, 2012
URL: http://nodewbrss.epa.gov/user/Login.aspx
Select EIS from the left-hand side bar
Browse for your **ZIPPED XML** submission file. Then complete your email notification. This can be more then one email address. Then select “Submit”.

Email Notifications

• First email, from “CDXNotification”, immediate
  – Transaction Status: **Pending**

• Second email, also from “CDXNotification”, when EIS completes processing
  – Transaction Status: **Completed**. Feedback report is available at EIS Gateway

• Third email, from “noreply” (EIS Gateway), on quarter hours
  – Status: Completed or **Failed**
    • Wrong file submission error – Usually a zipped Access file is submitted instead of the xml file
    • Window closed error – “User, agency, submission year not authorized”
    • Completed might be for an XML file containing no data

• Go to EIS Gateway and read the Feedback Report and resolve any critical errors and Potential Duplicates
The Feedback Report

• Summary Page
  – Name of submitter
  – What environment submissions was made to
    • QA or Production
  – Data Category submitted
    • Onroad
  – Total number of critical and warning errors.
Feedback Report
Critical Errors

- The most important page of your feedback report
- All critical errors must be resolved prior to submitting to Production
Feedback

<table>
<thead>
<tr>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
<th>H</th>
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Feedback

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When will my data show up in EIS?

- Onroad data on the Gateway is available immediately
- Reports available the next day
Nonpoint/Onroad/Nonroad Emissions Search

WARNINGS

The selected search criteria yield more results than can be displayed. Please refine your search.

Search Criteria

- States: NC
- Counties: All counties selected
- Tribes: All tribes selected
- Sectors: All sectors selected
- Source Classifications: All source classifications selected

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<tr>
<th>Source Classification</th>
<th>Emissions Type Code</th>
<th>HPS State and County</th>
<th>Tribal</th>
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Showing 1 to 10 of 200 entries
Agency Submission History Report

Select the inventory year of interest

Inventory Year: 2008
How do I get data out of EIS?
Report Downloads

EIS Gateway

Reports Available for Download

<table>
<thead>
<tr>
<th>Report Type</th>
<th>Time Requested</th>
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<th>First Name</th>
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<td>2012-01-31 10:33 AM</td>
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</table>

Report Type: Facility
Data Set: 2003-2008 V2_0 GPR
Pollutants: CO, SO2, NOX, VOC, PM2.5,PM10, PRL, 7430821
States: MN

Showing 1 to 10 of 63 entries
How does EPA Check Your Data?

• Again, inputs are strongly preferred. We have QA to fix errors in advance of running MOVES

• Submitted emissions are compared to EPA’s for pollutants covered, disagreement between CAP/HAP, anomalous emis type/pol combinations, SCC coverage, etc.
Common Problems

• Overwriting previous submittals. Several submitters in trying to update/correct emissions values, submitted only one pollutant which overwrote previous submittal which contained many pollutants
• Poor use of emission type. For example, all emissions as evap does not make sense.
• Bad emis type/pollutant combinations (e.g., evap pm)
Contacts

• Submittal Issues
  - Sally Dombrowski  dombrowski.sally@epa.gov; 919-541-3269

• Inventory Issues
  – Laurel Driver – Mobile Sources
    driver.laurel@epa.gov, 919-541-2859

• MOVES Issues
  – mobile@epa.gov