

## README FILE 2

### Mexico Emissions Inventory Program - Volumes II through IX

The following emission inventory volumes were prepared for the Western Governors' Association and the Binational Advisory Committee by Radian International LLC as support to the Mexico Emissions Inventory Program. Volumes II, III, IV, V, VI & VIII are available in the Adobe Acrobat (PDF) file format.

#### Volume II: Emissions Inventory Fundamentals

This manual presents the basic fundamentals of emissions inventory development and discusses inventory elements that apply to multiple source types (e.g., point and area) to avoid the need for repetition in multiple volumes.

Key Topics: applicable regulations, rule effectiveness, rule penetration, pollutant definitions (excluding nonreactive volatile), point/area source delineation, point/area source reconciliation.

Filename: eifunda.pdf

#### Volume III - Basic Emission Estimating Techniques (EETs)

This manual presents the basic EETs used to develop emission estimates, including examples and sample calculations. Inventory tools associated with each methodology are identified and included in Volume XI (References).

Key Topics: source sampling, emissions models, surveying, emission factors, material balance, and extrapolation.

Filename: techniqs.pdf

#### Volume IV: Point Source Inventory Development

This manual provides guidance for developing the point source emissions inventory. A cross-reference

table is provided for each industry/device type combination (e.g., petroleum refining/combustion devices) with one or more of the basic EETs presented in Volume III.

Key Topics: cross-reference table, stack parameters, control devices, design/process considerations, geographic differences and variability in Mexico, quality assurance/quality control (QA/QC), overlooked processes, data references, and data collection forms.

Filename: point4.pdf

#### Volume V: Area Source Inventory Development

This manual provides guidance for developing the area source emissions inventory. After the presentation of general area source information, a table is provided to cross-reference each area source category (e.g., asphalt application) with one or more of the basic EETs presented in

Volume III. Then, source category-specific information is discussed for each source category defined in the table.

Key Topics: area source categorization and definition, cross-reference table, control factors, geographic differences and variability in Mexico, QA/QC, data references, data collection forms (questionnaires).

Filename: areasrc5.pdf

#### Volume VI: Motor Vehicle Inventory Development

Because motor vehicles are inherently different from point and area sources, the available estimation methods and required data are also different. To estimate emissions from these complex sources, models are the preferred estimation tool. Many of these models utilize extensive test data applicable to a given country or region. This manual focuses primarily on the data development phase of estimating motor vehicle emissions.

Key Topics: available estimation methods, primary/secondary/tertiary data and information, source categorization, emission factor sources, geographic variability within Mexico, QA/QC.

Filename: motorvh6.pdf

#### Volume VII: Emissions Inventory Development: Natural Sources

As of March 2001, this volume has not been developed.

#### Volume VIII: Modeling Inventory Development

This manual provides guidance for developing inventory data for use in air quality models and addresses issues such as temporal allocation, spatial allocation, speciation, and projection of estimation estimates. As a part of the spanish language version of Volume 8, five Excel files are included which provide a starting template for calculating inventories for the source categories needed for various model applications. These Excel files are available in the PDF format and as zipped files.

Key topics: definition of modeling terms, seasonal adjustment, temporal allocation, spatial allocation, chemical speciation, and projections (growth and control factors).

Filename: modeldev.pdf

#### Volume IX: Emissions Inventory Program Evaluation

As of March 2001, this volume has not been developed.

