



The CHIEF

The ClearingHouse for Inventories and Emission Factors

TIME IS RUNNING OUT FOR EMISSION INVENTORIES

The clock turns ineluctably towards November 15, when the states preparing SIPs for ozone and/or carbon monoxide owe their final 1990 baseline emission inventories to EPA. So far, inventory components have been submitted for about two-thirds of the nonattainment areas, but not many of these are complete. Most lack the required successful entry of emissions data into the Aerometric Information Retrieval System (AIRS). EIB is urgently appealing to any state and local agencies needing assistance with these inventories, particularly regarding AIRS, to communicate their needs immediately to their Regional Office inventory contact or to EIB. We can make trained staff and/or contractor teams available, either by telephone or on site, to help you meet that the deadline.

TAKE ADVANTAGE OF THE GENEROUS OFFER OF HELP TO BRING THIS ACTIVITY TO A SUCCESSFUL CONCLUSION!!!!
The EIB contact is Sharon Nizich, (919) 541-2825. ♣

— OMS Completes *MOBILE5* —

EPA's Office Of Mobile Sources has released the latest revisions to the Highway Vehicle Emission Factor Model, *MOBILE5*, and this new version is now on *The CHIEF BB*. Here are the most significant changes in *MOBILE5* from its 1991 predecessor, *MOBILE4.1*:

1- All vehicle and fuel emission control programs mandated by the 1990 Act amendments are addressed;
2 - Opting into the California low-emitting vehicle program can be modeled;

3 - The basic emission rate equations for 1981 and later light duty gas vehicles have been revised, based on results of the transient testing program at Hammond, IN;

4 - Basic emission rates for all gasoline-fueled vehicles have been adjusted to account for differences in certification/test and in commercially available fuel properties;

5 - Speed correction factors for light duty gas vehicles have been revised;

6 - It expands ability to model the effects of both transient test

inspection/maintenance (I/M) programs and functional tests of in-use vehicles' control systems;

7 - *MOBILE5* gives a user the option of estimating emissions as of January 1 or July 1 of a specified year.

A number of lesser revisions have also been made. For more details, contact Lois Platte, EPA Office Of Mobile Sources, 2565 Plymouth Rd., Ann Arbor, MI 48105; telephone (313) 668-4368. ♣



1992 IS THE YEAR OF THE EMISSION INVENTORY!

FINAL EMISSION INVENTORIES FOR O₃/CO NONATTAINMENT AREAS
ARE DUE TO EPA BY 11/15/92.

— DRAFTS ARE PAST DUE! —

3 DAYS ONLY



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WHAT'S NEW ON *THE CHIEF* BULLETIN BOARD:

Bulletin Board activity waxes forth, now with over 800 registered *CHIEF* users who logged in more than 4350 times since the last issue. We are still opening more access lines for you to reach the BB. Remember that, as well as the list of current Alerts, there is one for old Alerts for those who want to make sure they're up to date. Alerts will stay current for at least a month before they are moved to the "old" list.

We like hearing from you. Write, phone or E-mail to Michael Hamlin, bulletin board System Operator, here at the Newsletter.

The Surface Impoundment Modeling System (SIMS) is still the most popular data base downloaded from *The CHIEF BB*. New material on the BB includes several items discussed below in detail, plus Quality Review guidelines and information from EIB's Inventory Guidance And Evaluation Section about the Direct Assistance Program and Emission Statements. The new mobile source model, MOBILE5, discussed elsewhere in this issue, is now on the board.

Now, read on about these new tools: **NEW AP-42 CHAPTERS: FINAL VERSIONS** — The BB now has the fully revised contents of AP-42 Chaps. 1, External Combustion Sources; 2, Solid Waste Disposal; 3, Stationary Internal Combustion Sources; and the new Chap. 12 on organic liquid storage and handling. Take a look at this new material and let us have your feedback on it. Send us comments, etc., by BB E-mail or however you wish.

TANKS — EIB's newest emission estimation tool, the *TANKS* pc program, is now on *The CHIEF BB* for downloading. *TANKS* presents, in

a menu driven format, the newly revised storage tank equations which will appear in AP-42 *Supplement E*. The system calculates monthly and annual VOC and toxic air emissions, for horizontal and vertical fixed roof tanks, internal and external floating roof tanks, and underground tanks, incorporating the latest American Petroleum Institute equations. The program can produce either summary, detailed, or fully detailed reports. The user's manual for the system is also on *CHIEF* for downloading. *TANKS* requires 3 MB of hard disk space to operate. For more information, contact *Info CHIEF* at phone (919) 541-5285.

CALCULATOR FOR CONTROLLED PM-10 EMISSIONS —

This program, the PM-10 Controlled Emission Calculator, allows users to enter known information on PM-10 sources and then to obtain expected control efficiencies and emissions from those sources. It should be helpful for SIP preparation, inventory compilations, source estimation and the like. The user supplies a Source Classification Code (SCC), a factor for uncontrolled emissions, the control device (or devices), and the units desired. The program contains all known SCCs for PM-10 sources, as well as typical control devices and their efficiency ratings. The calculator then supplies the user with the percent control efficiency and the expected emissions from the source configuration put into the program. This output can then be viewed, printed or filed elsewhere. Some error checking is provided, as are pop-up menus for SCCs, input requirements and help with the

program. For more information, contact Michael Hamlin at the Newsletter, phone (919) 541-5232.

INTERIM VERSIONS OF XATEF & SPECIATE — The 1992 versions of the Crosswalk/Air Toxic Emission Factor Data Base Management System (XATEF) and the VOC/PM Speciation Data Base Management System (SPECIATE) are both available for downloading from *The CHIEF BB*.

More than 1800 citations and emission factors have been added to XATEF this year, the majority of which come from the California Hot Spots Inventory Pooled Source Test Data.

The 1992 *SPECIATE* is also on the BB, with new species profiles developed by the Office Of Mobile Sources for automobile exhaust and evaporative emissions. These profiles were produced with data from EPA, the California Air Resources Board and AUTO/OIL.

1992 is the end of the line for XATEF. It has served us well, but next year will see its replacement by *FIRE*, the Factor Information Repository System, which will contain rated toxic and criteria emission factors.

ORDERING MODULE FOR DOCUMENTS — The BB now has a module for quick ordering of any of the *Locating And Estimating* series on toxic substances. To reach the module, go to the main menu and select Order Documents. Your requests will then go directly to our library services people for distribution to you. If you need assistance or more information, call the *Info CHIEF*, phone (919) 541-5285. ☛

— NEWS FROM ENVIRONMENT CANADA —

The Pollution Data Analysis Division (PDAD) of Environment Canada is continuing its compilation of the 1990 inventory, with the help of its Regional Offices and the Provincial Ministries Of The Environment. The number of point sources included in this inventory will be more than twice that of previous national inventories. A new pc data base system is being developed which will help in compiling inventories of common pollutants, toxics and greenhouse gases. The system will provide better reporting capabilities and will allow analysis of current and projected emissions, using a Geographical Information System. For further information on these matters, contact Marc Deslauriers, (819) 994-3069.

In early November, look for *Canada's Greenhouse Gas Emissions - Estimates for 1990*, which quantifies emissions of CO₂, CH₄, N₂O and CFCs, with background information on the methods used in the estimations. This will be followed by a methods manual in Spring 1993. For further information, contact Art Jaques, (819) 994-3098.

By June of '93, we also expect to produce a comprehensive forecasting model which uses data on future technology, regulations and macroeconomic conditions. This model will have a direct link with the latest information in the inventory data base. For further information, contact Libby Greenwood, (819) 953-1659.

Work also continues on developing the National Pollutant Release Inventory (NPRI) for toxic substances, which will be similar to the U. S.'s Toxics Release Inventory (TRI). The reporting criteria for NPRI are being developed by a committee representing industry, environmental and labour organizations, and provincial governments. Current proposals are for NPRI to address air, water and land releases of about 175 substances, from commercial entities having 10 or more employees and involving >10,000 per year. For further information, including an interim report discussing the criteria and unresolved issues, contact Gordon Pope, (819) 953-1654.

Contacts within PDAD are:

Pollution Data Analysis Division
 Ronald Solman, Acting Chief,
 Telephone (819) 953-1656, fax (819) 953-9542

Subject	Contact	Telephone
Air Toxics (NPRI)	Gordon Pope	(819) 953-1654
Common Pollutants Inventory & Systems	Marc Deslauriers & François Lavallée	" 994-3069 " 994-4073
Data Informatics	François Cadoret	" 994-3129
Emission Forecasting	Libby Greenwood	" 953-1659
Greenhouse Gases	Art Jaques	" 994-3098
Ambient Air Quality Trends	Tom Furmanczyk	" 994-3128

Canada's second national *State Of Canada's Environment*, a comprehensive report of more than 700 pages, examines environmental quality from several perspectives. The report sells for \$35.95 U. S., plus shipping and handling. For a brochure on this document, Canadians please contact Environment Canada Enquiry Centre, phone (819) 997-2800. From outside Canada, write *International Specialized Book Services*, 5602 NE Hassalo Street, Portland, OR 97213. To order the report, call 1-800-547-7734. Oregon residents call (503) 287-3093. Fax orders: (503) 284-8859. ♀

— THE HUMAN FACTORS ... ANNE POPE —

This issue, we want to tell you about Anne Pope, one of the hardest working, most productive people we know. Anne joined the Agency almost six years ago and is an original member of EIB. She is a whiz on emissions of toxic substances and how to estimate and inventory them, and she's overseen the production of many of the *Locating And Estimating . . .* series. Anne developed and maintains the toxic speciation program, the XATEF program, and the new *Air CHIEF* CD-ROM. She also has responsibility for the new AP-42 Chapter 12, covering storage tanks and other points of organic emissions, soon to appear in *Supplement E*.

Anne is a native of McLeansville, NC, a rural Piedmont town where her family has lived since Revolutionary times. She was reared there to be a

paradigm of, in her words, the "Southern Belle". Graduate of N. C. State University with B. S. degrees in



Science Education and Zoology, and in Chemical Engineering, she has taught high school chemistry and physics, then worked in private industry for a time before coming the EPA. A

strong affection for the N. C. State Wolfpack runs in Anne's family.

In addition to her work here, Anne has a special commitment to environmental education, and she leads the AWMA's national committee on presenting this subject in grades K through 12. Anne has been a leader in training teachers and developing teaching materials, and in arranging school classroom presentations on environmental topics. She believes this work is vital to achieving a clean and healthy environment through voluntary life style changes, and that we must encourage young people to pursue careers in environmental science. Anne has recently been chosen by the Office Of Air Quality Planning And Standards (OAQPS) to develop and administer a program which will send environmental

speakers into school classrooms around central North Carolina and will pay for North Carolina teachers to take college level (and certification renewal) courses on teaching environmental responsibility.

And yes, Anne still has time for a personal life. She enjoys gardening, water skiing, sailing, beach trips and

cooking. She and her husband, Warren, have "two adorable children" - Erin, 9, and Edward, 6. Anne and Warren are practitioners one of the more arcane critters of the littoral Southeast, The Shag, which she will gladly discuss with the uninitiated. And still more, Anne is secretary of the Research Triangle chapter of

AWMA, an officer in her PTA, a committee worker in her church, and chairman of the board of a non-profit preschool.

To reach Anne here at the Newsletter, especially about shagging stuff, phone (919) 541-5373. 🐾

THE JOINT EMISSION INVENTORY OVERSIGHT GROUP —

JEIOG Research In Progress

A JEIOG project now underway will likely provide useful data on the air pollution role of vegetation in the southern and southeastern US. AEERL's Emission And Modeling Branch, the National Center For Atmospheric Research's Trace Gas Biogeochemistry Section, the Washington State University Laboratory For Atmospheric Research, and NOAA's Atmospheric Turbulence And Diffusion Division have completed a field campaign on how a forest canopy environment affects isoprene emission rates. Rates were measured at leaf, canopy, and landscape

levels. A system was also deployed to test isoprene emission rate from oak leaves under controlled environmental conditions. This work, when completed will allow the separation of physiological effects related to canopy position from the role of environmental and meteorological parameters.

VOC measurements were taken using a variety of techniques, including tethered balloon systems. Measurements were made to determine emission rates from the predominant vegetation types in the area, which should be generally representative of

Southern Appalachian and Piedmont regions. The participants will meet in Boulder in February 1993 to compare analyses of data and to make research recommendations for incorporating their results into biogenic emissions inventories. The results will be a better understanding of the interaction of meteorology and the forest canopy, and data to help validate components of models of natural VOC inventories such as the Biogenic Emissions Inventory System. For more information, contact Chris Geron, AEERL/EMB, at (919) 541-4639. 🐾

— — FROM THE CHIEF'S CORNER — —

We're really excited about the TANKS pc program, now on the CHIEF BB, and about the new AP-42 Chapter 12, both of which should be quite useful in estimating storage tank emissions. TANKS is especially user friendly, and even I, the proverbial computer idiot personified, can use it. If you want to make use of them, just download them from *The CHIEF Bulletin Board*. If any problems or questions arise, call the *Info CHIEF*, (919) 541-5285.

The new Chapter 12 will be a large part of the upcoming AP-42 *Supplement E*, which we hope to have available in print by mid-December. It'll be on the BB even sooner. Most of you know we're in the midst of a rather ambitious review and update of the entire AP-42 stationary source volume. For many source types, we are finding little or no data, and

updates for these activities are not possible. With some other source categories, a number of obstacles have arisen to impede the process. The work is proceeding, however, and we are making substantial and timely progress. There is so much new material that's nearly complete that we'll probably be producing a *Supplement F* by early 1993. With that done, we should be "caught up" in the review process. Meanwhile, remember to check *The CHIEF BB* for drafts and new sections, which you can download without waiting until they appear in print. After the completion of one more supplement, around October '93, we'll be pulling all the series into a Fifth Edition. This one will contain all the information developed since the Fourth appeared in 1985, and we're considering a slightly different format. Look, too, for the

annual update of the *Air CHIEF* CD-ROM next Spring, which contains AP-42 and many other emission factor documents.

If any of you old hands at AP-42 have thought over the years about how to improve the series, be sure to let us know. We do this for you, and you're our customers, so tell us how you think we can make it better. We'd love to get an outpouring of ideas, criticism and comments on things - emission factor needs, changes in the Newsletter, the BB, the CD-ROM. It's not likely that we can satisfy every person's every need, but help us try. By telling us what you want, you can help us set our priorities. Drop us a note, zip a message over the CHIEF BB's E-mail, or give us a phone call. We'll do what we can. 🐾

— Jim Southerland

SUCCESSFUL PILOT PROJECT CONCLUDED —

EMISSIONS DATA OBTAINED FROM STATE PROGRAMS

The pilot project to catalog, evaluate and acquire emissions data from state control programs came to a successful conclusion at the end of September, and a similar project is already being planned for next fiscal year. Nine state and local air quality offices were visited to evaluate the availability of source test information suitable for developing criteria and noncriteria (including HAPS) emission factors. The offices visited included San Diego, Bakersfield and Ventura, California; Maryland; New Jersey; Houston and Beaumont, Texas; and Wisconsin. Over 3,000 emission evaluations were screened and cataloged during the visits, and over 700 were copied (using over 250 reams of paper!) for further evaluation and data extraction. Some possibly suitable material was not obtained because of confidentiality restrictions, but an attempt will be made next year to obtain it - if it can be declassified or be used to develop emission factors without revealing the confidential information. Although all of the material has not been fully quality assured, we estimate that over 75% of the emission evaluations can be used to develop emission factors for AP-42. For more information, contact Ron Myers at the Newsletter, phone (919) 541-5407.

Thus far, the data base contains information for 515 facilities, as follows:

SCC	Industry Group Name	Number Of Tests And Facilities
10X & 20X	External & Internal Combustion -	43 Tests @ 16 Facilities
301	Chemical Manufacturing -	272 Tests @ 138 Facilities
302	Food & Agriculture -	47 Tests @ 24 Facilities
304	Secondary Metal Production -	33 Tests @ 16 Facilities
305	Mineral Products -	111 Tests @ 70 Facilities
40X	Organic Solvent/ Petroleum Product Evaporation -	131 Tests @ 83 Facilities
50X	Solid Waste Disposal -	80 Tests @ 45 Facilities
None		127 Tests @ 71 Facilities



RECENT ENHANCEMENTS TO THE AIRS FACILITY SUBSYSTEM (AFS)

The National Air Data Branch (NADB), working with EIB and the Stationary Source Compliance Division (SSCD), has implemented a considerable number of enhancements to AFS during FY92. We give here a list of the improvements, all of which are either in place or scheduled to be by early FY93. For any further information on these matters, contact Chuck Isbell of NADB, at (919) 541-5448, or Suzanne Ackerman of NADB, (919) 541-5404.

OZONE/CO SIPS - AFS underwent a major modification to provide new data elements and modified screens to support the storage and retrieval capabilities for 1990 State

Implementation Plan (SIP) inventories.

MULTI-YEAR ACCESS - Multiple years and types of emission inventory data will be maintained on line in AFS. This enhancement supports both the development of draft and final SIP inventories and the development of annual emission inventories. It enables the user community to update multiple year emissions data at the same time, ending the "freeze" of the system that prevented annual emission users from adding new inventories before finalization of 1990 SIP inventories.

"FREEZE" AND "THAW" CAPABILITIES FOR SIP INVENTORIES - These

allow a "frozen" status, to protect SIP data from being changed during EPA reviews or after an inventory is approved by EPA, but provide the flexibility to "thaw" or "unfreeze" the data when changes need to be made to a frozen inventory.

SIP DRAFT DATA CONFIDENTIALITY - This software provides the ability to treat Draft SIP inventory data as confidential until the draft inventory is finalized. It prevents unauthorized users from retrieving draft SIP data before the data are ready for release.

DAILY PROCESS CHANGES - The Peak Ozone Daily Process and the Peak CO Season Process Stored

Format now allow users to specify more precise process rates.

NEW CMS DATA ELEMENTS AND SUPPORTING SOFTWARE - AFS now supports the new Compliance Monitoring Strategy (CMS) adopted by SSCD for inspection targeting.

AFS BATCH TRANSACTION GENERATION - Software to allow users to generate AFS batch transactions from their existing AFS data is being reviewed. The first phase of the software is already available.

FIXED FORMAT REPORTS - These reports have been modified to print both the selection and the sort criteria at the beginning of each report.

PLANT ID SELECTION ON STATE REGISTRATION - The Plant Identification Selection Screen now supports selection of compliance plants for on line update or for browse, by specifying the "STATE REGISTRATION NUMBER".

HIGH VOLUME SOURCE SWAP - Users are now able to perform large

volumes of plant ID source swaps. This utility supports development of lists detailing the old and new plant IDs and the simple submittal of the lists for batch processing.

DATA MIGRATION SOFTWARE - This software allows data to be moved from the AFS production data base, thereby supporting system testing, training, and review in the development environment. It will allow, for example, state personnel to be trained on the very data they will be asked to maintain, without affecting production data in any way.

Look for these improvements by the end of October:

COMPLIANCE ACTION LINKING - AFS is making a major change to facilitate the tracking violations to resolution. This option allows users to establish three pathways and to link associated actions to one or more. Violations, Consent Decrees/ Administrative Orders, and Administrative Penalties.

COUNTY LEVEL SECURITY - AFS now supports security down to the county level, not just at the State level, removing the potential for any user within a state (with update authority) to update another agency's data.

HELP FEATURE - AFS is adding a HELP capability, striving to be much more "user friendly". (The first phase of HELP, field level "?", will be available before the AIRS Conference in November.)

SUBTOTALING IN AD HOC - The ad hoc retrieval (quick look) is being modified to support subtotaling of numeric fields.

ON LINE REPETITIVE DATA ENTRY - This feature provides the on line update user the ability to generate new records (stacks, points, segments, etc.) from an existing record, without having to rekey in all the repetitive data. ↵

⑧ QUIZ CORNER ⑧

➡ USE YOUR AP-42

This puzzle requires a browse through AP-42 to obtain the values to fill in. The first five people who respond with the correct answer will be praised by name in the next issue of the Newsletter. Please send all responses to Keith Baugues at the Newsletter, phone (919) 541-5366.

Solve the following:

$$(D * (A + B) / (C * 10)) ^ E + (F * 14) = ???!$$

Where: (all values are in lbs/SCC unit)

A = NOx emission factor, charcoal mfg., batch kiln

B = SOx emission factor, secondary lead production, pot furnace

C = VOC emission factor, phthalic anhydride, O-xylene oxidation: distillation

D = PM-10 emission factor, external combustion boiler, electric generation, solid waste, refuse derived fuel

E = Particulate emission factor, external combustion boiler, subbituminous coal, cyclone furnace (drop the ash content)

F = Carbon monoxide emission factor, external combustion boiler, electric generation, wood/bark waste, wood fired boiler (lowest end of the range)

✂ TECH NOTES

✂ — **O₃/CO INVENTORY PREPARATION PLAN (IPP) STATUS** - Final IPPs for 43 States were due to the Regions on October 1, 1991. All 45 plans have been received in both draft and final form, and 38 plans have been approved. EIB will continue to work with the Regions on how to deal with any problems. For more information, contact Lee Gabele at the Newsletter, phone (919) 541-5292.

⌘ — **CONCRETE BATCHING** - Several emission tests are being planned to characterize particulate and PM-10 from concrete batch plants. The present AP-42 factors for the two types of batching operations are poorly rated, and new data are needed. The trade association has assisted EPA in locating suitable test sites. Relatively new control technology was installed on one facility to be tested and was scheduled for installation on another. The first test will be scheduled for late October or early November. For more information, contact Ron Myers at the Newsletter, phone (919) 541-5407.

⌘ — **TESTING BRICKS AND RELATED CLAY PRODUCTS** - At least three emission tests are planned to characterize the emissions from this activity. The present emission factors for raw material handling in making regular bricks, clay pipe, pottery and some types of refractory brick came from technology transfer and are poorly documented. Many PM-10 Nonattainment Areas have a significant number of these facilities, and better factors are needed. At least three brickmaking facilities will be tested for PM and PM-10 emissions from the grinding, screening and storage of the raw material. Criteria and noncriteria kiln emissions will be included in the test program. The Brick Institute Of America is assisting EPA in locating typical facilities and in gaining the companies' confidence in the program. The first test is scheduled for the end of October, with preliminary data available in December. For more information, contact Ron Myers at the Newsletter, phone (919) 541-5407.

⌘ — **INFO CHIEF FOCAL POINT** – Remember our central telephone contact here at the Newsletter to answer general questions and to direct your calls to the right technical staff people. If you already know whom you want to talk with here, please call her or him. Otherwise, try the *Info CHIEF* at (919) 541-5285. ♣

UPCOMING MEETINGS AND CONFERENCES

— Emission Inventory Issues And Progress, second annual EPA/AWMA specialty conference, 19-22 October, Durham, NC. Contact Larry Jones, Emissions Modeling Branch (MD 62), EPA/AEERL, Research Triangle Park, NC 27711, phone (919) 541-7716; or John O'Connor, Radian Corp., Box 13000, Research Triangle Park, NC 27709, phone (919) 541-9100.

— Continuous Emission Monitoring, AWMA conference/course, 8-11 November, Chicago, IL. Contact Marcy Mazzei, AWMA, Box 2861, Pittsburgh, PA 15230, phone (412) 232-3444.

— Pollution Prevention - Industry's Challenge, AWMA/WEF/NSWMA, 18-20 November, Dallas, TX. Contact Martha Swiss, AWMA, Box 2861, Pittsburgh, PA 15230, phone (412) 232-3444.

— Role Of Meteorology In Managing The Environment Of The 90s - AWMA specialty conference/course, 26-28 January 1993, Scottsdale, AZ. Contact Lou Schoub, (602) 381-8855.

— Pollution Prevention, Reuse, Recycling And Environment Efficiency - AWMA specialty conference, 20-22 April 1993, Durham, NC, Contact Gretchen Watson, AWMA, Box 2861, Pittsburgh, PA 15230, phone (412) 232-3444.

— Measurement Of Toxic And Related Air Pollutants - AWMA/EPA specialty conference, 3-7 May 1993, Durham, NC, Contact Gretchen Watson, AWMA, Box 2861, Pittsburgh, PA 15230, phone (412) 232-3444. ♣

THE CHIEF NEWSLETTER is produced quarterly by the Emission Inventory Branch, Technical Support Division, of EPA's Office Of Air Quality Planning And Standards. Its purpose is to enhance communication within the emission factor and inventory community by providing new and useful information and by allowing for the exchange of information between and among its readers. Comments on the Newsletter and articles for inclusion in it are welcome and should be directed to Whitmel M. Joyner, Editor, Emission Inventory Branch (MD 14), US EPA, Research Triangle Park, NC 27711; commercial phone (919) 541-5493.

The contents of THE CHIEF NEWSLETTER do not necessarily reflect the views and policies of the Agency, neither does the mention of trade names or commercial products constitute endorsement or recommendation for use. ♣ ♣ ♣ ♣ ♣ ♣ ♣

HEADQUARTERS INVENTORY CONTACTS

October 1992

— EMISSION FACTORS —

	AP-42 Chapter	Contact	Telephone (919) 541-
1.	External Combustion	Joe McSorley	4796
2.	Solid Waste Disposal	Ron Myers	5407
3.	Internal Combustion	Michael Hamlin	5232
4.	Evaporation Loss Sources	Ron Ryan	4330
5.	Chemical Process Industry		
	Organics	Dennis Beauregard	5512
	Inorganics	Ron Myers	5407
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— EMISSION INVENTORIES —

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— PM-10 SIPS —

OAQPS/AQMD	Robin Dunkins	5335
OAQPS/SSCD	Chris Oh	(202) 308-8732

— O₃/CO SIPS —

OAQPS/AQMD	Sheila Holman	0861
OAQPS/SSCD	Vishnu Katari	(202) 308-8717
Office Of Mobile Sources	Mark Wolcott	(313) 668-4219

— LEAD SIPS —

OAQPS/AQMD	Tom Pace	5634
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REGIONAL OFFICE INVENTORY CONTACTS

October 1992

	<i>Contact</i>	<i>Telephone</i>
— PM-10 —		
Region I	Ian Cohen	(617) 565-3229
II	Stan Stephenson	(212) 264-4926
III	Tom Casey	(215) 597-2746
IV	Leslie Cox	(404) 347-2864
V	John Summerhays	(312) 886-6067
VI	Mark Sather	(214) 655-7258
VII	Lisa Haugen	(913) 551-7877
VIII	Mindy Mohr	(303) 294-7539
IX	Morris Goldberg	(415) 744-1296
X	George Lauderdale	(206) 553-6511
— O₃/CO —		
I	Martha Larson	(617) 565-3270
II	Stan Stephansen	(212) 264-4926
III	Raymond Forde	(215) 597-8239
IV	Steve McCary	(404) 347-2864
V	Ed Doty	(312) 886-6057
VI	Quang Nguyen	(214) 655-7238
VII	Royan Teter	(913) 551-7609
VIII	Tim Russ/Bev Rios	(303) 293-1814/293-0960
IX	Morris Goldberg	(415) 744-1296
X	Christi Lee	(206) 553-1814
— AIR TOXICS —		
I	Janet Beloin	(617) 565-2734
II	Carol Bellizzi/Ken Eng	(212) 264-2517/9627
III	Iz Milner/Therese Dougherty	(215) 597-9090/1325
IV	Stuart Perry	(404) 347-2864
V	Bruce Varner	(312) 886-6793
VI	Tom Driscoll	(214) 655-7223
VII	Wayne Kaiser	(913) 551-7603
VIII	Mindy Mohr	(303) 294-7539
IX	Ken Bigos	(415) 744-1240
X	Chris Hall	(206) 553-1949
— LEAD —		
I	Bob Judge	(617) 565-3233
II	Stan Stephenson	(212) 264-4926
III	Joe Kunz	(215) 597-8486
IV	Leslie Cox	(404) 347-2864
V	Gus Felix	(312) 886-6009
VI	Guy Donaldson	(214) 655-7242
VII	Stan Walker	(913) 551-7494
VIII	Mindy Mohr	(303) 294-7539
IX	Liza Finley	(415) 744-1299
X	George Lauderdale	(206) 553-6511

THE EMISSION INVENTORY BRANCH

J. David Mobley, Chief
(919) 541-4676
Sherry Russell, Secy.
Mary Taborn, Secy.

EMISSION FACTOR AND METHODOLOGIES SECTION

Jim Southerland, Chief
(919) 541-5522
Dennis Beauregard
Michael Hamlin
Whit Joyner
Joe McSorley
Ron Myers
Anne Pope
Ron Ryan
Dallas Safriet
Dennis Shipman
Edna Winstead, Secy.

INVENTORY GUIDANCE AND EVALUATION SECTION

Marty Martinez, Chief
(919) 541-0875
Keith Baugues
Steve Bromberg
Lee Gabele
Bill Kuykendal
David Misenheimer
Sharon Nizich
Laurel Schultz
Mary Ann Warner-Selph
Susan Curtis, Secy.