ENABLING DOCUMENT

SOURCE IDENTIFICATION PROCEDURES FOR SOURCES SUBJECT TO REGULATIONS UNDER SECTION 112(d) OF THE CLEAN AIR ACT AS AMENDED IN 1990

Developed in Cooperation with
US Environmental Protection Agency
(Region 4, OAQPS, & OECA)
State of Georgia
State of New York
State of Florida
State of Illinois

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TABLE OF CONTENTS

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NOTICE

This document has been reviewed in accordance with U.S. Environmental Protection Agency policy and approved for publication. Mention of trade names or commercial products does not constitute endorsement or recommendation for use.

1.0 INTRODUCTION

1.1 PURPOSE

The primary purpose of this document is to provide State and local environmental regulatory agencies guidance for identifying and compiling a list of sources subject to regulation under section 112(d) of the Clean Air Act as amended in 1990. In general, this document contains guidelines and/or procedures on suggested activities which can be undertaken to identify such sources subject to maximum available control technology (MACT) standards. Use of this document will facilitate the efficient implementation of all MACT standards and ensure the level of environmental protection mandated by the Act. The document assumes a general knowledge of title III of the Act and the promulgated regulations thereto. Readers not familiar with these programs should refer to the sections mentioned in the "Background" and to the General Provision for MACT implementation, 40 CFR 63, Subpart A. This document should clarify typical questions regarding source identification and should help facilitate the development of comprehensive lists of affected facilities. As we learn more through the actual process of source identification, this document will be revised accordingly. It is hoped that this document becomes an evolving, "living document" that will experience continuous improvement through the fine tuning of the source identification process.

1.2 BACKGROUND

Critical to an agency's success in limiting hazardous air pollutant emissions is its ability to identify sources subject to MACT standards. Listings of specific sources subject to MACT or procedures that can be used to identify sources within a jurisdiction are necessary for a number of reasons. The resources required of a regulatory agency to implement a standard will be a function of the number of sources subject to the MACT. Further, because some sources will not be required to obtain a title V permit, state and local agencies willing to oversee implementation of such standards for non-Part 70 sources need to be able to gauge the resources required in order to make a commitment. Finally, sources must be easily and quickly identified to facilitate the transfer of information on new standards.

During an April 1995 meeting of EPA OAQPS, OECA, OGC and Regional Offices with State and Local air program representatives (Brown Summit II), one of the action items identified included the development of a standard method to identify sources subject to MACT standards. The workgroup convened on this action item envisioned the development of a "cookbook" for this process.

1.3 MACT IMPLEMENTATION SCHEDULE

With the promulgation of each MACT standard, there are several administrative actions which must be undertaken in a relatively short time-frame. These requirements dictate the need for a comprehensive listing of subject sources. A comprehensive listing of subject sources will ensure the proper allocation of resources by the implementing agencies. Although MACT requirements will vary depending on whether a source is an existing, new area or new major facility, the main events for a facility subject to MACT standards (primarily major sources) are listed below:

1) Source submits an initial notification no later than 120 days after the effective date of a relevant standard.
2) Source submits a notification at least 60 days before conducting a performance test; at least 30 days before conducting opacity and visible emission observations.
3) A source submits a notification of compliance status within 60 days after the performance test.

The above listed activity deadlines may be overridden by the specific requirements listed in an individual MACT standard.

2.0 MACT SOURCE IDENTIFICATION PROCESS

Ideally, in the process of developing a MACT for a source category, EPA will attempt to identify all of the subject facilities in the process of gathering information for the standard. It is anticipated that specific information (i.e., names and addresses) on subject sources will eventually be made available by EPA on an electronic database. Unfortunately, a survey of MACT development project leaders suggests that a complete listing of sources has not and will not be available in many cases. Furthermore, state and local agencies have sometimes found that lists provided by EPA can be inaccurate, incomplete or outdated. Although this document will be applicable to all MACT source categories, we have initially identified two generic groups of hard to locate sources to which this document will predominantly apply: 1) small, numerous sources (e.g., dry cleaners); and 2) co-located sources (e.g., halogenated solvent cleaning operations). Appendix A contains a listing of the MACT categories and identifies those standards for which a complete list of subject sources will likely not be available from EPA. The table also contains the anticipated SIC codes for the source category, the estimated number of subject facilities, their trade associations, and whether the sources are expected to be collocated in other source categories.

Contained in this section are procedures which can be used to assist in the identification of sources potentially subject to MACT standards. The procedures outlined in this section should provide the most effective mechanism for source identification. The initial steps of the following source identification procedure are designed to provide a comprehensive list of sources potentially subject to the standard in question. Subsequent steps in the source identification process will serve to narrow down the list to the sources most likely to be subject to the standard. This series of steps has been constructed so that at any time during the source identification process, if the implementing agency feels comfortable that the list is adequate and sufficient, the agency may decide that it is more efficient to contact all sources identified as opposed to taking additional steps to narrow down the universe. Implementing agencies may wish to perform the various steps as they deem appropriate given the nature of the source category and the agency's available resources (i.e., it may be appropriate to omit early steps and perform the later steps).

While EPA does not have access to all information necessary to assist in identifying every affected source, this document contains a prioritized list of resources which could greatly enhance the process of source identification. Because many of the resources available to state and local agencies use the

Standard Industrial Classification (SIC) codes to identify facilities, the first and primary step in the identification process is to compile a list of potentially applicable SIC codes. A partial listing of SIC codes may be obtained from Appendix A and/or the Background Information Documents (BID) for each source category as identified by Project Number in Appendix D. During the standard development process, EPA attempts to identify a list of facility SIC codes in which the processes subject to the MACT may be located. This information is made a formal part of the BID and is maintained as a part of the docket for each respective MACT standards. However, the list of SIC codes identified may not be comprehensive because the facilities operating within each particular source category type are not specific to that one manufacturing process. In the initial stages of MACT development, OAQPS & ORD Environmental Criteria and Assessment Office make every effort to generate a listing of potential sources subject to standard. After the proposal, information from the docket may be secured from each respective MACT project lead. A list of the current MACT project leads has been included as Attachment D of this document. After the MACT standard has been proposed, the docket information may be obtained from the EPA Docket Center or the OAQPS MACT project lead. As previously mentioned, it is hoped that OAQPS will eventually make the list of sources identified for each MACT available through an electronic bulletin board system. Such a system would also allow

users to share additional information on source identification techniques as well as outreach materials developed by different agencies.

Source identification will usually be a multi-step process which may include the following activities: 1) development of a list of potential sources; 2) determining which sources are actually employing the regulated process/equipment or emit the hazardous air pollutant (HAP); 3) and determining which sources are potentially major, those that will probably seek synthetic area status, and those which are area sources. The reliability of these listings can be greatly enhanced through the use of databases, correspondences/dialogue with possible sources, site visits, agency knowledge and expertise, etc. Throughout the identification process, the implementing agency should review the generated lists and determine their usefulness. If a list consists of numerous sources which are obviously not subject to the specific standard, that particular database may not be appropriate for this process. This situation may occur when the SIC code is too broad. The recommended activities and/or resources for identifying sources are listed below:

Step 1

The EPA will make every effort to provide as much information on specific sources as possible. The EPA will distribute (or make reasonably available) to each Regional Office the source identification information obtained during the standard development process. Each Regional Office will in-turn disseminate information to the respective implementing agencies. Using these lists and the information in this "cookbook", each agency should review the information to determine if any additional identification activities are warranted. Additionally, as a result of another Brown Summit II action item, EPA is working with state and local agencies to develop an interactive, electronic bulletin board system to disseminate and receive information on section 112. It is anticipated that a list of identified sources subject to each MACT standard, by state, will be available on this system.

Starting with the list of facility SIC codes in which the processes subject to the MACT may be located (and any additional information available from the EPA), there are a number of databases and information sources that can be used to locate the names and addresses of potentially subject facilities. Lists developed from the following databases should be cross-checked against each other to enhance the level of accuracy of the final product, to better define actual functions of facilities (users

vs. Sellers), and to eliminate duplicitave listings from the final list. Outlined below is a listing of such databases and/or resources:

1. **State/County/Local Business License Processes**

Within each state, county, or local governmental structure, there should be an entity responsible for issuing business licenses. These agencies should have the capacity to download information via a computer based on SIC codes or facility types and provide a list of facilities potentially subject to a specific MACT standard, including names and mailing addresses. These resources are usually housed within the Revenue and License Departments. Generally, there is a service charge for the compilation of this information.

2. **County & City Chamber of Commerce**

Chambers of Commerce offices have the capability of supplying a listing of facilities within their jurisdictions or memberships that fall within specified SIC categories. These offices may be contacted as to the specific procedures one must follow. There maybe a fee for such services in some areas.

3. **Regional Telephone Directory (i.e., WinPhone, PhoneDisc '95, etc.)**

This directory provides a comprehensive listing of all businesses which serve in some capacity, e.g., sales, manufacturing, repair, etc., under the respective SIC codes. The list is not always reliable because many listed organizations are not producers or users of the HAPs. Additionally, the source's operations (e.g., name, location) may have changed, reducing the accuracy of the information. One can specify the business type by either its SIC code or by selecting a key word or phrase. A word of caution, the address provided by this database is the physical location, not the mailing address. Telephone directories of this type may generally be obtained from any retail store that sells software packages, e.g., Office Depot, Best Buys, Compuworld, etc. PhoneDisc is a common brand name that is generally available. Additional information on PhoneDisc can be obtained by calling 1-800-284-8353 or (617) 639-2900.

4. **Databases of Corporate Affiliations (e.g., Business Dunn and Bradstreet)**

Database software systems such as Dunn & Bradstreet contains a vast amount of useful business information. Included in the database are parent companies headquartered in the United States and their subsidiaries, affiliates, and joint ventures. Dunn and Bradstreet offers an easy way to

identify facilities (name and location) and corresponding information such as type of business and contact persons, based on various forms of facility identification information, including SIC codes. With Dunn and Bradstreet, one can enter the SIC code or type of business and generate a listing of facilities within the database that are compatible with the specific search parameters. Additionally, Dunn and Bradstreet publishes a multi-volume Directory of Corporate Affiliations which is the hard copy form of the Dunn and Bradstreet CD ROM version. These type software packages may be obtained at various local retail computer software stores (Dunn and Bradstreet database system can be obtained by contacting 1-800-234-3867).

5. Department of Industry & Trade/Commerce

Within each state's governmental structure, the State Department of Industry and Trade or Commerce has the capability of compiling an annual listing of all manufacturing facilities operating during that fiscal year. The sources can be identified by SIC or facility type. A copy of this publication can be obtained through the respective state's Industry and Trade or Commerce office. The fee for this directory is generally less than $100.00.

Step 2

To better refine the list of potential sources generated from the various databases, each agency should then, to the extent possible, verify the list using the resources listed below which should have available a more reliable list of known and currently operational facilities.

6. State Department of Revenue

By canvassing the data sources above, a comprehensive list of potential-subject sources may be generated. However, these references may not be completely up to date. A cross check against recent annual taxation records may serve to narrow the list to currently operating facilities.

7. State and Local Agency Resources

Within each state and local agency there exists a wealth of knowledge relating to the location, operation, and existence of sources located in the jurisdiction of the implementing agency. Such in-house resources include: Enforcement staff, Small Business Assistance Program, State Pollution Prevention Assistance Programs, State/Local Municipal Waste Treatment Programs, state and local emission inventories, etc. Both staff and program documents may provide valuable leads and timesaving information. The Emission Inventory Development Guidance published by EPA can serve as a valuable resource in the

identification of sources.

8. Toxic Release Inventory

It may be possible for regulatory agencies to further refine the list of potential sources subject to a MACT through the use of the TRI database. Using the HAPs targeted by the MACT for subject facilities, a cross check of the list generated by the above steps against a TRI list of facilities with air emissions of targeted HAPs may reveal companies that are less likely to be subject to the standard, regardless of their SIC code. One drawback of TRI is that many industries/sources are exempt from its requirements. Also, TRI does not cover all HAPs. The TRI database may be used to identify covered sources missed in steps 1-7. In this case, a list of sources filing TRI reports of major emissions of the targeted HAPs is reviewed. This technique may be especially useful when attempting to identify co-located MACT sources. (See Section 2.1 below)

9. EPA's RCRA Hazardous Waste Disposal Notification Database

This database provides a cross-media search function for facilities which are currently regulated by EPA. Searches within this database may be performed using specific facility information such as SIC codes, chemical

names, chemical releases, etc. Regulatory agencies can manipulate this database to refine the list generated from steps 1-8 in the same way that the TRI database is used.

Step 3

The following are additional resources that can be consulted for information on subject sources. In many cases, it may not be possible to secure facility names and addresses from these sources. However, these entities may be amenable to performing various outreach efforts and distributing information pertaining to the rules (e.g., source applicability and notification forms). If it is possible to secure a list of facilities from these sources, agencies may wish to utilize this approach rather than to rely on SIC codes to develop a list of subject sources.

10. Industry Representatives

One resource often overlooked is industry experts themselves. When contact is made with a source owner, operator, or environmental officer, much useful information may be obtained. It is important that an agency representative present such a request as an effort to help potentially covered sources get the information they need to achieve compliance. Such a request might be presented in this way: "Do you know of anyone else that might be subject to this rule? I'd like to get the information out to everyone so they'd have as much lead time as possible to consider the implications of the rule."

11. Trade Associations

Regulatory agencies can solicit from national, regional or state associations, lists of members which identify location and contact personnel for the facilities, or at a minimum, a list of industry types which may be subject to the particular MACT standard. Trade associations providing state and local agencies with a list of potentially subject facilities for outreach purposes may benefit by increasing membership through offering meetings at which EPA makes presentations on MACT standards. Implementing agencies also have the opportunity to publish

articles, notices, or announcements in trade journals for the affected industries. Although developed by and for the State of Wisconsin, Attachment G contains a list of trade associations generally located in each state which are related to various MACT categories.

12. Equipment & Raw Material Suppliers/End Product Users

Suppliers of raw materials (e.g., chlorinated solvents) and users of end products may provide an additional resource of information on sources subject to MACT standards. Agencies should contact the users or distributors of specialty products, materials, chemicals, or any raw materials used in processes which are subject to MACT regulation, in an effort to obtain information on the types of facilities, known users, etc.

3.0 Collocated Sources

For many Part 63 standards, the regulated process is a small part of an overall manufacturing process (i.e., degreasers, cooling towers, etc.). In these cases, the primary SIC code of the facility in which the processes are located may be chiefly indicative of the primary manufacturing process, rather than possible subordinate activities. For such collocated sources, the databases and information resources listed in steps 1-6 may fail to generate a comprehensive list of sources comprising the regulated activities. Therefore, additional efforts may be required to generate an accurate list of the most likely collocated sources.

First and foremost, collocated HAP sources are for the most part located at major HAP sources. Such sources, because they are major, will be required to obtain title V permits, and usually, will be required to file annual emission inventories to support the title V fee assessment. This mechanism can be utilized both directly and indirectly.

By working with the title V and emission inventory staff, the Title V permit application and annual emission inventory forms can be crafted to directly identify activities which are routinely collocated, such as degreasers, cooling towers or small boilers. For example, the form could include a question tied to to a positive report of halogenated organic compounds, such as

"does the facility employ halogenated degreasing processes?" For collocation of other HAP-emitting activities subject to various actual or scheduled MACT standards, collocated activities may be identified indirectly, through review of the actual title V permit applications or annual emission inventories submitted by major HAP sources.

The permit application should identify all emission units responsible for emissions of regulated pollutants, and provide enough information to identify most activities subject to major MACT standards. If the application does not clearly indicate a source's status relative to other MACT standards, HAPs reported in the annual emission inventory may suggest that collocation may be involved.

An example of a collocated source could involve chromium electroplating collocated with miscellaneous metal parts and products (surface coating) or reinforced plastics composite production (the primary activity identified by the facility SIC code). Chromium electroplating is often associated with metal parts manufacturing which is included in several surface coating source categories, and could easily be distinguished from galvanizing (which is not included in a listed source category) in the operating permit application itself. On the other hand, chromium electroplating is less common at facilities involved in reinforced plastic composite production, but would be suggested by chromium emissions reported in the annual emission inventory.

To obtain a greater sense of reliability, the list of sources identified through these activities may be refined through various outreach efforts including mail-outs or questionnaires to verify their status relative to suspected source categories. The level of effort expended by this process will be governed by agency confidence in the quality of the list at this stage, as well as available resources.

3.1 Collocation, Federally Enforceable Limits, and PTE Policy

In a memorandum dated May 16, 1995, from John Sietz, Director, EPA, OAQPS, relating PTE timing issues, the applicability of MACT for collocated sources was presented. In brief, the memo states that if a facility contains equipment or processes included in multiple source categories, it is possible that after application of the initial MACT or an earlier MACT standard reducing the HAP PTE, the status of the source relative to the remaining source categories may be changed. If compliance with a MACT standard revises a facility's PTE to a level below major source thresholds, the facility would not be subject to subsequent major source MACT standards.

Additionally, the memo indicates that a facility may elect to take federally enforceable limits to lower its PTE below major source thresholds, thereby avoiding the applicability of major MACT standard(s). This option is available to covered sources up until the first compliance date in **each** major MACT standard.

Therefore, a source subject to multiple MACT standards might avoid the applicability of all standards by limiting its source-wide PTE before the first compliance date in any of the standards.

Voluntary federally enforceable limits may also be taken by a source subject to multiple MACT standards when compliance with a given standard or standards does not sufficiently reduce the source's PTE. Such a HAP source may avoid coverage under subsequent standards by taking additional voluntary federally enforceable limits until its source-wide PTE is below the major source threshold, provided that the limits are taken before the first compliance date in each of the standards it wishes to avoid.

Neither of these scenarios would relieve the facility from the applicability of those MACT standards whose initial compliance date passed before the necessary reductions in PTE were achieved. This "once major, not always major" policy is expected to reduce the burden of MACT standards on collocated sources. However, the policy does complicate the identification of sources subject to major source MACT standards, particularly if those standards are promulgated within a relatively short time. In situations such as these, agencies may wish to identify sources which have equipment or processes covered by the MACT standard as an initial step, and subsequently determine major source applicability through additional correspondence or

outreach.

4.0 RESULTS OF PILOT TESTING FOR EXISTING MACTs AND STATE GENERATED LISTS

A number of states pilot tested the MACT identification approaches using lists of sources previously generated by the regulatory agency for existing MACT standards for comparison. The following section documents the findings of these pilots.

4.1 State of New York MACT Source Identification Pilot Study

CD-ROM Databases

CD-ROM databases can be a valuable resource for identifying businesses in specific industries. These businesses can be sorted by SIC (Standard Industrial Classification) codes or Yellow Page headings. These databases can be used to create mailing lists of sources who may be subject to regulations under Section 112(d) of the Clean Air Act as amended in 1990.

The best place to start a search for these databases is in your state library. The New York State Library has a business CD-ROM database available for use by New York State employees. We have used this resource extensively to explore the potential for creating source lists and discovered positive as well as negative features. Other databases have been located but not researched and will be listed as potential resources. Most of these databases are available on a trial basis before purchase

for your own research, and we recommend that this be done.

We tested the American Business Disc (ABD), from American Business Information, Inc. (1-900-555-5211). The following information is contained on the disc:

1. Company name
2. Address
3. Phone number
4. Number of employees
5. Estimated sales volume
6. Credit rating code
7. SIC code
8. Line of business description

You can perform the following searches:

1. Geography- city, state, ZIP code, county or total U.S.
2. Company name
3. Yellow Page keyword
4. SIC code
5. Employee size range
6. Sales volume

Although you can download or print these records this can only be done for 50 records at a time. The company will prepare more extensive lists for you for a fee. Since some of our lists were in the 2,000 sources range, this was a major problem.

We extensively researched two industries with source lists previously compiled from other databases, chromium electroplaters and wood furniture manufacturers, to cross check the capability of the ABD to reproduce a similar list. These two searches were analyzed separately.

CHROMIUM ELECTROPLATERS

It is impossible to sort out chromium electroplaters from general electroplaters based on either SIC codes or Yellow Page keywords. We used the SIC code for Electroplating, Plating and Polishing 3471. We found 268 sources in New York State using the ABD database, 178 sources were identified using the New York State Department of Labor (DOL) list of SIC code 3471. The New York State Department of Environmental Conservation (DEC) currently has 111 chromium electroplaters permitted in New York State. Only 67 of these 111 sources were found on the ABD.

We have also cross-checked our permit information on chromium electroplaters with notification forms received by the USEPA Region 2 Office. This cross-check indicated more direct outreach to NESHAP affected sources is needed. The Region 2 list also identified 11 additional platers who were not found in our current permit system. However, 8 of these 11 were listed on the ABD.

The ABD did not prove to be totally inclusive, but it contained more sources than the DOL listing. Attachment F is a list generated using the ABD as well as a printout of a detailed look at a specific business.

WOOD FURNITURE MANUFACTURERS

A useful resource to identify SIC codes to use for searches is contained in EPA's Sector Notebook on the Wood Furniture Industry. Page 5 contains a listing of the codes to use for the wood furniture manufacturing industry. These codes are 2511, 2512, 2517, 2521, 2531, and 2541. Sources were identified as follows:

SIC CODE	*DOL*	*ABD*
	Number of Sources Identified	
2511	*178*	*69*
2512	*43*	*30*
2517	*5*	*6*
2521	*43*	*28*
2531	*11*	*32*
2541	*102*	*66*
TOTAL	*382*	*231*

This comparison is not very impressive for the ABD list. However, SIC codes are frequently listed incorrectly on the DOL listings and since this particular industry has a large number of similar SIC codes, the number of businesses could be due to inaccuracies in the assignment of SIC codes.

We identified 21 sources on our DEC list of permitted facilities who were most likely to be subject to the wood furniture NESHAP. We found 13 of the sources on the ABD.

One problem with searching by company name is that if you have any misspellings or incorrect names you cannot find them on the ABD. Our permitted sources' names are not always 100% accurate or the names may have been changed slightly. These possible discrepancies may also explain the low number for this count.

CONCLUSION

As you can see from these two very different analyses, the ABD has proven useful but not foolproof. A listing of permitted sources from your state agency is the best place to start to locate specific industries. However, we know that these lists are not complete and it is useful to have a resource to create listings based on SIC codes or Yellow Page keywords. This database is very useful when you want to do a search of businesses based on the number of employees (e.g., to target small businesses who would be eligible for the Small Business Stationary Source Technical and Environmental Compliance Assistance Programs that are located in each state, as mandated by the Clean Air Act). Also, you can search by sales volume and determine the largest businesses, which may produce high

emissions. Accuracy of company names is a must when using this database. The biggest problem with the ABD is the ability to download only 50 sources at a time.

OTHER CD-ROM DATABASES

Harris Publishing's New York Manufacturers Directory (1-800-888-5900)

These editions are available for other states. The information provided includes: company name, address, phone and fax numbers, and SIC codes. It is available as a book or in DOS or Windows versions on diskette or CD-ROM. The cost varies depending on the size of your state. Demonstration diskettes are available.

American Business Information's American Yellow Pages (1-800-555-5666)

This database is for the United States. It includes Yellow Page headings and company names. It is available on CD-ROM and you can perform searches by company name and Yellow Page headings. You can download to many label formats to create mailings.

DDA PhoneDisc Business 95

This product was found in the catalog "Windows

Warehouse." The information provided includes: company name, business type, address and phone number. Searches can be done based on each of these items.

4.2 STATE OF GEORGIA HALOGENATED SOLVENT CLEANING MACHINE PILOT STUDY

Introduction

A pilot study was initiated for EPA Region 4 by the State of Georgia's Environmental Protection Division to explore methods of locating MACT Standard or NESHAP affected facilities. The particular MACT Standards chosen for the pilot test were 40 CFR Part 63, Subpart T, Halogenated Solvent Cleaning Machines, commonly called the Degreaser Standard. Three approaches were explored:

1) Locating sources using the SIC code list supplied with the MACT Standard and the ProPhone phone directory

2) Locating sources using the SIC code list supplied with the MACT Standard and the Georgia Manufacturing Index

3) Locating sources using ProPhone and the SIC codes from sources submitting Initial Notifications for the MACT Standard.

Study and Results

Using ProPhone and the Georgia Manufacturers Index (GMI), we were able to identify matches for two SIC codes (3442 and 3691) contained in the MACT Standard. ProPhone had 27 matches for SIC code 3442 and 124 matches for SIC code 3691. GMI had 64 matches for SIC code 3442 and 12 matches for SIC code 3691. Of the identified sources from GMI and ProPhone, none were on our Initial Notification list. When the listings were reviewed by inspectors, they indicated that none of the listed sources had degreasers. When compared to our State listing, we found one additional source which had failed to report their existence due to an oversight. When attempting to locate degreasers based on the list of SIC codes of reported degreasers, the list from ProPhone and GMI expanded to more than 3,000 facilities which is the opposite trend we anticipated. Thus, we concluded that the procedure we initially used, which was to send every source in the GMI a degreaser informational packet, was the most effective method to insure proper notification of every source in Georgia.

Conclusions

In conclusion, we found the SIC code list from the MACT

Standard, the GMI, and ProPhone directories did not adequately locate degreasers or halogenated solvent cleaning machines in Georgia. In addition, we were only able to locate one additional source by actual inspection of the facilities and that source failed to notify us by oversight. Thus, we conclude that the initial approach we used, mass mailing, was the most effective in publicizing the MACT Standard and getting sources to report the existence of halogenated solvent cleaning machines. The additional paragraph on collocated sources is included for additional insight.

Collocated Sources

One problem facing state regulators is the identification of collocated sources. To give insight into this problem, we chose two related MACT Standards and made a list of sources reporting both affected processes. The MACT Standards we chose were halogenated solvent cleaning machines (40 CFR Part 63 Subpart T) and chromium electroplaters (40 CFR Part 63 Subpart N).

SOURCE	LOCATION	SIC CODE
Delta Airlines Technical Operations Center	Atlanta, GA	4512

Hercules Automotive Products, Inc.	Pelham, GA	Unknown
Lockheed Systems Company	Marietta, GA	3721
Northwest Airlines Technical Operations	Atlanta, GA	4512
Robins Air Force Base	Robins AFB, GA	9711
Roper Pump Company	Commerce, GA	Unknown

As indicated in the sample above, with the exception of the majority of sources seemingly being related to the aerospace industry, there isn't any particular trend indicating the collocation of these processes. Thus, one could conclude that the locating process for these MACT Standards would require individual searches for these processes. Lastly, the presence of one process at a facility would not necessarily indicate both are present onsite.

Wood Furniture Cookbook

The same procedures were conducted on the Wood Furniture MACT. Using the GA Manufacturers Index, there were 465 sources identified. The WinPhone'96 database contained 950 sources with 85 duplicates within database. When comparing the two databases, there were 194 sources identified in Winphone that were also contained in the GMI database. However, GMI had more complete data on sources. Sources potentially subject to the wood

furniture standard were listed in SIC codes: 2434, 2511, 2512, 2517, 2519, 2521, 2531, 2541, 2599, and 5712. SIC Code 5712 included manufacturers & retail stores. Code 5712B is manufacturers of custom furniture. The other 5712's (A, C, etc) were retail stores, for which there were thousands of listings. Those listed as only 5712 were included in our reporting, although, this approach may have inadvertently included some retailers. The GMI database was seemingly was incomplete. USEPA's AIRS database had only 5-6 sources. A survey of major and synthetic minor sources only identified a few facilities. All of which were contained on GMI and/or WinPhone.

4.3 Florida Source Identification Pilot Study

Over the last year, the Florida DEP and the Florida Air Toxics Work Group, composed of district and county air program staff, have worked together to develop a mechanism for identifying facilities potentially subject to upcoming MACT standards. This database, known as TINS, or the Toxics Inventory System, is about to become fully functional and will play a role in Florida's efforts to locate and outreach to facilities which may become subject to new federal air rules.

The TINS database is a stand alone subpart of the

Department's oracle Air Resources Management System (ARMS) database and can be accessed through the same procedures. TINS will contain information about facilities which may be subject to upcoming rules, and therefore the files will remain separate from the ARMS system. However, when a qualified user provides the TINS database with the information that signifies that a TINS facility is subject to a promulgated rule, the TINS facility file will be transferred to ARMS and thereafter directly available through the ARMS database.

The TINS database uses publicly and commercially available industry databases such as the Directory of Florida Industries, the Toxics Release Inventory, and others to generate files of facilities that may be subject to an upcoming or recently promulgated rules. A form letter can be automatically generated which identifies the MACT rule, its applicability, the initial notification requirements and the address of the agency to receive the facility's notification form.

When a new or proposed MACT is issued, it is anticipated that the Department's Air Toxics Section will develop the initial TINS facility identification files from an available industry database and generate letters to the

facilities informing them of the rule applicability and notification requirements. Districts and local program staff may also review the TINS if, to their knowledge, additional facilities exist that may be subject to the rule, enter the necessary facility information and generate letters to those facilities.

After an affected facility sends an initial notification to the appropriate permitting agency, the agency staff can enter a code in a TINS screen that indicates that the facility is subject to the promulgated rule. When this occurs, the facility's file is transferred to the ARMS database and the facility is subsequently tracked as a regulated facility. TINS can also generate reports, such as identified facilities, returned notifications and MACT affected SIC codes.

The TINS database was developed primarily to help with identifying small area sources such as vapor degreasers and chrome electroplaters that are subject to recently promulgated MACT standards. We recognized that ARMS may not have records of these facilities, and they may not be covered by the Toxics Release Inventory either. A versatile, yet simple computer program was needed that could utilize various industry databases to identify these smaller

operations.

As the list of candidate general permits continues to grow and the Department searches for ways to make suitable facilities aware of this permitting mechanism, it may be feasible to use the TINS database as a means for targeting appropriate facilities and for sending fact sheets to the facility's address. The TINS database is navigated using the same commands as the ARMS database and can be learned rather quickly.

Appendix C contains replicas of the computer screens in TINS and the directions for its intended users. A sample form letter that can be generated from TINS is also attached. For more information about the design and use of the TINS database, please call John Glunn at (904) 488-0114. To learn more about the functional properties of TINS or for programming information, please call Alex Men at the same number.

4.4 Illinois Environmental Protection Agency (IEPA)

IPA has used a number of cookbook elements in determining the NESHAP effected sources in Illinois; the top four sources are D&B, Department of Revenue for both the

State and Chicago, Department of Commerce, and Trade Associations;

These four resources supplemented our standard database (IEPA files, title V data, state permitting data, AT telephone CD-ROM data) and resulted in significant increases in "hits" for potential effected sources.

For the Dry Cleaning standard, the Allied Trade Associations resulted in an additional 260 Dry Cleaning sources for consideration; the Chicago Dept. of Revenue added an additional 10 chrome electroplaters; and the State DAR resulted in an additional 2400 solvent cleaning "hits."

IPA is reviewing the CD-ROM telephone directory the Cookbook highlighted and is expected to establish Agency-wide access to the database.

One of the better sources has turned out to be the Allied Trades Associations. The solvent cleaning suppliers have also been very cooperative in working with us and their customers in learning about the standard and understanding the reporting and control requirements.

APPENDIX A

MACT ID Questionnaire Survey Results

16-Aug-95

Source Category	Estimated Number of Facilities	SIC Codes	Source List Available? Complete	Partial	Percent[1] Covered	Trade Groups
Difficult to Locate						
Aerospace Industries	2,800	3720 3721 3724 3728 3760 3761 3764 3769 4581	No	Yes	20.00%	Aerospace Industries Association
Chromic Acid Anodizing	140	3471 3472 3423 3593	No	Yes	10	Electroplaters and Surface Finishers
Chromic Acid Anodizing (Area Sources)	580	3471 3472 3423 3593	No	Yes	10.00%	National Association of Metal Finishers, American Electroplaters and Surface Finishers
Chromium Refractories Production	16	3255 3297	Yes	N/A		
Commercial Dry Cleaning (Perchloroethylene) - Transfer Machines	26,000	7216 7216 7218	Yes	N/A		International Fabricare Institute (IFI), Neighborhood Cleaners Association (NCA)
Decorative Chromium Electroplating	280	3741 3742 3423 3593	Yes	No	10.00%	National Association of Metal Finishers, American Electroplaters Association
Decorative Chromium Electroplating (Area Sources)	2 520	3471 3472 3423 3593	No	Yes	10.00%	National Association of Metal Finishers, American Electroplaters and Surface Finishers
Flexible Polyurethane Foam Production	130	3086	No	Yes	40.00%	The Polyurethane Foam Association
Gasoline Distribution (Stage 1)	240	2911 4613 5171	No	No		American Petroleum Institute, National Marketers Association of America, Truck Trailer Manufacturers Association, Independent Refiners/Marketers, Independent Fuel Terminals Association

Source Category	Estimated Number of Facilities	SIC Codes	Source List Available? Complete	Partial	Percent[1] Covered	Trade Groups
Halogenated Solvent Cleaners	9 000		No	No		National Automobile Manufacturers Association, National Screw Machine Products Manufacturer Association Aerospace Industries Association
Halogenated Solvent Cleaners (Area Sources)			No	N/A		National Automobile Manufactures Association, National Screw Machine Products Manufacturer Association, Aerospace Industries Association
Hard Chromium Electroplating	750	3471 3472 3423 3593	No	Yes	10.00%	National Association of Metal Finishers, American Electroplaters and Surface Finishers
Hard Chromium Electroplating (Area Sources)	1,350	3471 3472 3423 3593	Yes	Yes	10.00%	National Association of Metal Finishers, American Electroplaters and surface finishers
Industrial Boilers	6,562		No	No		
Industrial Process Cooling Towers		2911 2812 2269	No	N/A		
Institutional/Commercial Boilers	1,617		No	N/A		
Iron Foundries	416	3321 3322	No	Yes	90.00%	American Foundrymen's Society
Large Appliance (Surface Coating)	400	3631 3636	No	Yes		
Manufacture of Paints, Coatings and Adhesives		2851 2851	No	No		National Paint and Coatings Association (NPCA)
Municipal Landfills	8,034		No	Yes		SWANA
Oil and Natural Gas Production	7,600		No	No		API, GRI, AGA, INGAA
Plywood/Particle Board Manufacturing			No	No		American Forest & Paper Association, National Particleboard Association, Western Wood Products Association, American Hardboard Association, American Plywood Association
Printing, Coating, and Dyeing of Fabrics	400	2661 2663 2369 2269 2262 2295	No	No		
Publicly Owned Treatment Works (POTW) Emissions	16,000		No	No		AMSA
Secondary Aluminum Production	400	3341	No	Yes	75.00%	The Aluminum Association.

Source Category	Estimated Number of Facilities	SIC Codes	Source List Available? Complete	Partial	Percent[1] Covered	Trade Groups
		2434 2511 2519 2541				
Rubber Chemicals Manufacturing	200		No	N/A		
Semiconductor Manufacturing	400		No	No		
Solid Waste, Treatment, Storage and Disposal Facilities (TSDF)			N/A	N/A		
Symmetrical Tetrachloropyridine Production			N/A	N/A		
Synthetic Organic Chemical Manufacturing	400		No	No		
Taconite Iron Ore Processing	16		N/A	N/A		
Tire Production	18		No	N/A		
Uranium Hexafluoride Production	2		N/A	N/A		
Vegetable Oil Production	6		N/A	N/A		

[1] *The estimated percent of the total number of sources that the partial list covers.*

Source Category	Estimated Number of Facilities	SIC Codes	Source List Available? Complete	Partial	Percent Covered	Trade Groups
Reinforced Plastic Composites Production	10,000	3081	N/A	N/A		
		3082				
		3083				
		3084				
		3087				
		3088				
		3089				
		3069				
		3296				
		3299				
		3624				
		3531				
		3546				
		3564				
		3579				
		3599				
		3512				
		3513				
		3621				
		3694				
		3635				
		3647				
		3669				
		3679				
		3711				
		3713				
		3714				
		3715				
		3716				
		3726				
		2742				
		3792				
		3795				
		3799				
		3821				
		3831				
		3949				
		3965				
		3993				
		3999				

Source Category	Estimated Number of Facilities	SIC Codes	Source List Available? Complete	Partial	Percent[1] Covered	Trade Groups
Organic Liquids Distribution (Non-Gasoline)	400		No	No		
Paint Stripper Users	400		No	N/A		
Paper and Other Webs (Surface Coating)	80	2641 2751 2711 2752 2754	No	No		Gravure Association of America, Graphic Arts Technical Foundation, Flexible Packaging Association Environmental Conservation Board of the Graphic Communications Industry, Flexographic Trade Association, Printing Industries of America, Screen and Graphic Imaging Association
Photographic Chemicals Production			N/A	N/A		
Phthalate Plasticizers Production	18		N/A	N/A		
Plastic Parts and Products (Surface Coating)	25	3089	No	N/A		
Quaternary Ammonium Compounds Production			N/A	N/A		

Source Category	Estimated Number of Facilities	SIC Codes	Source List Available? Complete	Partial	Percent[1] Covered	Trade Groups
			Unknown			
Aerosol Can-Filling Facilities	200		No	N/A		
Alumina Processing	10		N/A	N/A		
Ammonium Sulfate Production - Caprolactam By-Product Plants	33		N/A	N/A		
Antimony Oxides Manufacturing	11		N/A	N/A		
Asphalt Concrete Manufacturing	4,600		N/A	N/A		
Asphalt/Coal Tar Application - Metal Pipes			N/A	N/A		
Baker's Yeast Manufacturing	13		N/A	N/A		
Benzyltrimethylammonium Chloride Production	2		N/A	N/A		
Boat Manufacturing	400		N/A	N/A		
Butadiene-Furfural Cotrimer (R-11) Production	3		No	Yes		
Carbonyl Sulfide Production			N/A	N/A		
Cellulose Food Casing Manufacturing			No	No		
Chlorinated Paraffins Production	4		N/A	N/A		
Clay Products Manufacturing	400		No	N/A		
Coke Ovens: Pushing, Quenching, and Battery Stacks	32		No	No		American Coke and Coal Chemicals Institute
Dry Cleaning (Petroleum Solvent)			No	N/A		
Engine Test Facilities	51		N/A	N/A		
Explosives Production	5		N/A	N/A		
Flat Wood Paneling (Surface Coating)	19	2541 2521	N/A	N/A		
Fume Silica Production	3		N/A	N/A		
Hydrazine Production	3		N/A	N/A		
Hydrochloric Acid Production	97		N/A	N/A		
Industrial Dry Cleaning (Perchloroethylene) - Dry-To-Dry Machines		7216 7216 7216	N/A	N/A		
Industrial Dry Cleaning (Perchloroethylene) - Transfer Machines		7216 7216 7216	N/A	N/A		
Metal Can (Surface Coating)	69	3411	No	N/A		
Metal Coil (Surface Coating)	13	3496	No	N/A		
Metal Furniture (Surface Coating)	14	2514 2522	No	N/A		
Miscellaneous Metal Parts and Products (Surface Coating)	400	3449 3499	No	N/A		
Nitrile Resins Production			N/A	N/A		

Source Category	Estimated Number of Facilities	SIC Codes	Source List Available? Complete	Partial	Percent[1] Covered	Trade Groups
Wood Furniture (Surface Coating)	750	2434 2517 2531 2511 2519 2541 2512 2521 2599	No	Yes	16.08%	Business and Institutional Furniture Manufacturers Association, Kitchen Cabinet Manufacturers Association, American Furniture Manufacturers Association, National Paint and Coatings Association
Wood Treatment	60	2491	Yes	N/A		American Wood Preservers Institute
Wool Fiberglass Manufacturing	27	3296	Yes	N/A		North American Insulation Manufacturers Association

Source Category	Estimated Number of Facilities	SIC Codes	Source List Available? Complete	Partial	Percent[1] Covered	Trade Groups
Printing/Publishing (Surface Coating)	300	2265 2392 2647 2649 2651 2671 2673 2674 2711 2721 2754 2759 3497 3996	Yes	N/A		Gravure Association of America, Graphic Arts Technical Foundation, Flexible Packaging Association, Environmental Conservation Board of the Graphic Communications Industry, Flexographic Trade Association, Printing Industries of America, Screen and Graphic Imaging Association
Process Heaters		2911 2999	No	No		Not completely identified but the API, NPRA, and the CMA should represent a large part of the industry
Pulp & Paper Production	550	2611 2811 2821 2831	Yes	N/A		American Forest and Paper Association (AF & PA) and National Council of the Paper Industry for Air and Stream Improvement (NCASI)
Rayon Production	3		No	No		
Rocket Engine Test Firing			N/A	N/A		Probably military related
Secondary Lead Smelting	23		Yes	N/A		Battery Council International, Lead Industries Association and Association of Battery Recyclers
Sewage Sludge Incineration	170	1623	Yes	N/A		Association of Municipal Sewage Authorities
Sodium Cyanide Production	5		Yes	Yes		Chemical Manufacturing Association
Sodium Pentachlorophenate Production	1	2879	Yes	N/A		American Crop Protection Association
Spandex Production	3	2824	Yes	N/A		
Stainless Steel Manufacturing - Electric Arc Furnace (EAF) Operation	19	3312	N/A	Yes	85.00%	American Iron and Steel Institute
Stationary Turbines			No	Yes	80.00%	Gas Research Institute, Electric Power Research Institute, American Gas Association, Chemical Manufacturing Association, American Petroleum Institute, Utility Air Research Group, Western States Petroleum Association
Styrene-Acrylonitrile Production	11	2821	Yes	N/A		Society of the Plastics Industry
Styrene-Butadiene Rubber and Latex Production	26	2822	Yes	N/A		International Institute of Synthetic Rubber Producers, Styrene Butadiene Latex Manufacturers Council
Tordon (tm) Acid Production	1	2879	Yes	N/A		American Crop Protection Association (ACPA)

Source Category	Estimated Number of Facilities	SIC Codes	Source List Available? Complete	Partial	Percent[1] Covered	Trade Groups
Pharmaceuticals Production	100	2833 2834 2835 2836	Yes	N/A		Pharmaceuticals Research and manufacturers Association (PHRMA)
Phenolic Resins Production	73	2821	Yes	N/A		There is not a tradegroup that represents this source category
Phosphate Fertilizers Production	29	2874	Yes	N/A		The Fertilizer Institute
Phosphoric Acid Manufacturing	40	2874	Yes	N/A		The Fertilizer Institute
Polybutadiene Rubber Production	5	2822	Yes	N/A		International Institute of Synthetic Rubber Producers (IISRP)
Polycarbonates Production	5	2821	Yes	N/A		Society of the Plastics Industry, CMA, SOCMA
Polyester Resins Production	44	2821	Yes	N/A		
Polyether Polyols Production	40	2869	Yes	N/A		The Society of the Plastics Industry (SPI)
Polyethylene Terephthalate Production	29	2821 2824	Yes	N/A		Society of the Plastics Industry
Polymerized Vinylidene Chloride Production	2	2821	Yes	N/A		
Polymethyl Methacrylate Resins Production	62	2821	Yes	N/A		
Polystyrene Production	33	2821	Yes	N/A		Society of the Plastics Industry
Polysulfide Rubber Production	1	2822	Yes	N/A		International Institute of Synthetic Rubber Producers (IISRP)
Polyvinyl Acetate Emulsions Production	40	2821	Yes	N/A		
Polyvinyl Alcohol Production	3	2821	Yes	N/A		
Polyvinyl Butyral Production	4	2821	Yes	N/A		
Polyvinyl Chloride and Copolymers Production	24	2821	Yes	N/A		
Portland Cement Manufacturing	110	3241	Yes	N/A		Portland Cement Association, American Portland Cement Alliance
Primary Aluminum Production	23	3334	Yes	N/A		The Aluminum Association
Primary Copper Smelting	8	3331	Yes	N/A		National Mining Association
Primary Lead Smelting	3	3332	Yes	N/A		
Primary Magnesium Refining	13		No	No		

Source Category	Estimated Number of Facilities	SIC Codes	Source List Available? Complete	Partial	Percent[1] Covered	Trade Groups
Ethylidene Norbornene Production	1	2869	Yes	N/A		The Chemical Manufacturers Association
Ferroalloys Production	24	1061 3313	Yes	N/A		The Ferroalloys Association
Hazardous Waste Incineration			Yes	N/A		
Hydrogen Cyanide Production	15		Yes	N/A		
Hydrogen Fluoride Production	3		Yes	N/A		
Hypalon (tm) Production	1	2822	Yes	N/A		International Institute of Synthetic Rubber Producers
Integrated Iron & Steel Manufacturing	29	3312	Yes	N/A		American Iron and Steel Institute
Lead Acid Battery Manufacturing	90	3691	No	Yes	90.00%	Battery Council
Lime Manufacturing	91	3274	No	Yes	95.00%	National Lime Association
Magnetic Tapes (Surface Coating)	25	3577 3695 2675	Yes	N/A		International Tape Association
Maleic Anhydride Copolymers Production	6	2821	Yes	N/A		
Methyl Methacrylate-Acrylonitrile-Butadiene-Styrene Production	1	2821	Yes	N/A		Society of the Plastics Industry
Methyl Methacrylate-Butadiene-Styrene Terpolymers Production	3	2821	Yes	N/A		Society of the Plastic's Industry
Methylcellulose Production	2	2821	Yes	N/A		
Mineral Wool Production	18	3296	Yes	N/A		North American Insulation Manufacturers Association/44 Canal Center Plaza/Suite 310/Alexandria, VA 22314/Ph: (703) 684-0084
Neoprene Production	3	2822	Yes	N/A		International Institute of Synthetic Rubber Producers
Nitrile Butadiene Rubber Production	10	2822	N/A	N/A		International Institute of Synthetic Rubber Producers
Non-Nylon Polyamides Production	18	2821	Yes	N/A		Society of the Plastics Industries (SPI)
Non-Stainless Steel Manufacturing - Electric Arc Furnace (EAF) Operation	77	3312	N/A	Yes	60.00%	American Iron and Steel Institute
Nylon 3 Production	7	2821	Yes	N/A		Society of the Plastics Industry (SPI), Chemical Manufacturers Association, SOCMA
Oxybisphenoxarsine/1,3-Diisocyanate Production	1	2869	Yes	N/A		Chemical Manufacturers Association (CMA)
Petroleum Refineries - Catalytic Cracking (Fluid and Other) Units and Sulfur	150	2911	Yes	N/A		API, NPRA
Petroleum Refineries - Other Sources Not Distinctly Listed	173	2911	Yes	N/A		Small Refiners Coalition, American Independent Refiners Association, American Petroleum Institute, National Petroleum Petroleum Refiners Association

Source Category	Estimated Number of Facilities	SIC Codes	Source List Available? Complete	Partial	Percent[1] Covered	Trade Groups
Commercial Sterilization Facilities (Area Sources)	40	3841 3842 2834 5122 2831 2833 3079 3693 5099 2211 2821 2879 3069 3569 3677 3999 2099 5149 2034 2035 2046 7399 7218 8091 8411 8231 0279 7391 5071 8922 7397 8641	No	Yes		Health Industry Manufacturer's Association, Spice Manufacturer's Association
Cyanuric Chloride Production	2		Yes	N/A		Chemical Manufacturing Association
Decthal (tm) Production	1	2879	Yes	N/A		American Crop Protection Association (ACPA)
Dodecanedicic Acid Production	1	2869	Yes	N/A		
Epichlorohydrin Elastomers Production	1	2822	Yes	N/A		International Institute of Synthetic Rubber Producers
Epoxy Resins Production	3	2821	Yes	N/A		Society of the Plastics Industry (SPI)
Ethylene-Propylene Elastomers Production	5	2822	Yes	N/A		International Institute of Synthetic Rubber Producers

Source Category	Estimated Number of Facilities	SIC Codes	Source List Available? Complete	Partial	Percent[1] Covered	Trade Groups
Coke Ovens: Charging, Top Side and Door Leaks	88		Yes	N/A		American Iron and Steel Institute (AISA), American Coke and Coal Chemicals Institute (ACCCI)
Commercial Sterilization Facilities	50	3841 3842 2834 5122 2831 2833 3079 3693 5086 2211 2821 2879 3059 3589 3677 3999 2099 5149 2034 2035 2046 7299 7216 9091 3411 8231 0279 7391 8071 8922 7397 9641	No	Yes		Health Industry Manufacturer's Association, Spice Manufacturer's Association

Source Category	Estimated Number of Facilities	SIC Codes	Source List Available? Complete	Source List Available? Partial	Percent[1] Covered	Trade Groups
Not Difficult to Locate						
2,4-D Salts and Esters Production	4	2879	Yes	N/A		American Crop Protection Association (ACPA)
4,6-Dinitro-O-Cresol Production	1	2879	Yes	N/A		American Crop Protection Association (ACPA)
4-Chloro-2-Methylphenoxyacetic Acid Production	3	2879	Yes	N/A		American Crop Protection Association (ACPA)
Acetal Resins Production	3	2821	Yes	N/A		There is not a trade group for this industry.
Acrylic Fibers/Modacrylic Fibers Production	2	2824	Yes	N/A		
Acrylonitrile-Butadiene-Styrene Production	10	2821	Yes	N/A		Society of the Plastics Industries (SPI)
Alkyd Resins Production	64	2821	Yes	N/A		
Amino Resins Production	87	2821	Yes	N/A		Urea-Formaldehyde Resins Manufacturers' Association (UFRMA). Covers several amino resins producers but not all of them.
Asphalt Processing		2952	No	Yes		Asphalt Roofing Manufacturers Association (ARMA)
Asphalt Roofing Manufacturing	18	2952	Yes	Yes		Asphalt Roofing Manufacturers Association (ARMA)
Auto and Light Duty Truck (Surface Coating)	90		Yes	N/A		American Automobile Manufactures Association, Association of International Automobile Manufacturers
Butadiene Dimers Production	1	2869	N/A	N/A		There is only one company manufacturing this source category so no trade group exists.
Butyl Rubber Production	2	2822	Yes	N/A		International Institute of Synthetic Rubber Producers
Captafol Production	1	2879	Yes	N/A		American Crop Protection Association
Captan Production	3	2879	Yes	N/A		American Crop Protection Association
Carboxymethylcellulose Production	3	2821	Yes	N/A		
Cellophane Production	1	2821	Yes	N/A		
Cellulose Ethers Production	5	2821	Yes	N/A		
Chelating Agents Production	50	2800	No	Yes	80.00%	CMA, SOCMA
Chlorine Production	47	2812 2819 2899 2818 2611 2816	Yes	N/A		Chlorine Institute
Chloroneb Production	-		Yes	N/A		American Crop Protection Association (ACPA)
Chlorothalonil Production	1	2879	Yes	N/A		American Crop Protection Association (ACPA)
Chromium Chemicals Manufacturing	2		Yes	N/A		
Coke By-Product Plants	27		Yes	N/A		American Coke and Coal Chemicals Institute and American Iron and Steel Institute

Source Category	Estimated Number of Facilities	SIC Codes	Source List Available? Complete	Partial	Percent[1] Covered	Trade Groups
Shipbuilding and Ship Repair (Surface Coating)	437	3731	Yes	N/A		Shipbuilders Council of America, American Waterway Operators, Society of Naval Architecture and Marine Operators, Louisiana Shipbuilding and Repairs Association
Site Remediation			No	No		
Stationary Internal Combustion Engines	1,235		No	No		Gas Research Institute, American Gas Association, Engine Manufactures Association, Association of Metropolitan Sewerage Agencies, Gas Producers Association, Institute of Clean Air Companies
Steel Foundries	332	3324 3325	No	Yes	90.00%	American Foundrymen's Society, Steel Founders' Society, Investment Casting Institute
Steel Pickling - HCl Process	103		No	Yes	75.00%	American Iron and Steel Institute

APPENDIX B

FUEL COMBUSTION

Category	Promulgation
Industrial Boilers	11/15/2000
Institutional/Commercial Boilers	11/15/2000
Process Heaters	11/15/2000
Stationary Internal Combustion Engines	11/15/2000
Stationary Turbines	11/15/2000

NON-FERROUS METALS PRODUCTION

Category	Promulgation
Secondary Lead Smelting	11/15/94
Primary Aluminum Production	11/15/97
Primary Copper Smelting	11/15/97
Primary Lead Smelting	11/15/97
Secondary Aluminum Production	11/15/97
Primary Magnesium Refining	11/15/2000

FERROUS METALS PROCESSING

Category	Promulgation
Coke Ovens: Charging, Top Side and Door Leaks	11/15/92
Ferroalloys Production	11/15/97
Steel Pickling - HCl Process	11/15/97
Coke By-Product Plants	11/15/2000
Coke Ovens: Pushing, Quenching, and Battery Stacks	11/15/2000
Integrated Iron & Steel Manufacturing	11/15/2000
Iron Foundries	11/15/2000
Steel Foundries	11/15/2000

MINERAL PRODUCTS PROCESSING

Category	Promulgation
Mineral Wool Production	11/15/97
Portland Cement Manufacturing	11/15/97
Wool Fiberglass Manufacturing	11/15/97
Alumina Processing	11/15/2000
Asphalt Concrete Manufacturing	11/15/2000
Asphalt Processing	11/15/2000
Asphalt Roofing Manufacturing	11/15/2000
Asphalt/Coal Tar Application - Metal Pipes	11/15/2000
Chromium Refractories Production	11/15/2000
Clay Products Manufacturing	11/15/2000
Lime Manufacturing	11/15/2000

Taconite Iron Ore Processing

11/15/2000

PETROLEUM AND NATURAL GAS PRODUCTION

Category	Promulgation
Petroleum Refineries - Other Sources Not Distinctly Listed	11/15/94
Oil and Natural Gas Production	11/15/97
Petroleum Refineries - Catalytic Cracking (Fluid and Other) Units and Sulfur	11/15/97

LIQUIDS DISTRIBUTION

Category	Promulgation
Gasoline Distribution (Stage 1)	11/15/94
Organic Liquids Distribution (Non-Gasoline)	11/15/2000

SURFACE COATINGS PROCESSES

Category	Promulgation
Aerospace Industries	11/15/94
Magnetic Tapes (Surface Coating)	11/15/94
Printing/Publishing (Surface Coating)	11/15/94
Shipbuilding and Ship Repair (Surface Coating)	11/15/94
Wood Furniture (Surface Coating)	11/15/94
Auto and Light Duty Truck (Surface Coating)	11/15/2000
Flat Wood Paneling (Surface Coating)	11/15/2000
Large Appliance (Surface Coating)	11/15/2000
Manufacture of Paints, Coatings and Adhesives	11/15/2000
Metal Can (Surface Coating)	11/15/2000
Metal Coil (Surface Coating)	11/15/2000
Metal Furniture (Surface Coating)	11/15/2000
Miscellaneous Metal Parts and Products (Surface Coating)	11/15/2000
Paper and Other Webs (Surface Coating)	11/15/2000
Plastic Parts and Products (Surface Coating)	11/15/2000
Printing, Coating, and Dyeing of Fabrics	11/15/2000

WASTE TREATMENT AND DISPOSAL

Category	Promulgation
Solid Waste, Treatment, Storage and Disposal Facilities (TSDF)	11/15/94
Publicly Owned Treatment Works (POTW) Emissions	11/15/97
Hazardous Waste Incineration	11/15/2000
Municipal Landfills	11/15/2000
Sewage Sludge Incineration	11/15/2000
Site Remediation	11/15/2000

AGRICULTURAL CHEMICALS PRODUCTION

Category	Promulgation
2,4-D Salts and Esters Production	11/15/97
4,6-Dinitro-O-Cresol Production	11/15/97
4-Chloro-2-Methylphenoxyacetic Acid Production	11/15/97
Captafol Production	11/15/97
Captan Production	11/15/97
Chloroneb Production	11/15/97
Chlorothalonil Production	11/15/97
Dacthal (tm) Production	11/15/97
Sodium Pentachlorophenate Production	11/15/97
Tordon (tm) Acid Production	11/15/97

FIBERS PRODUCTION PROCESSES

Category	Promulgation
Acrylic Fibers/Modacrylic Fibers Production	11/15/97
Rayon Production	11/15/2000
Spandex Production	11/15/2000

FOOD AND AGRICULTURAL PROCESSES

Category	Promulgation
Baker's Yeast Manufacturing	11/15/00
Cellulose Food Casing Manufacturing	11/15/00
Vegetable Oil Production	11/15/00

POLYMERS AND RESINS PRODUCTION

Category	Promulgation
Acrylonitrile-Butadiene-Styrene Production	11/15/94
Butyl Rubber Production	11/15/94
Epichlorohydrin Elastomers Production	11/15/94
Epoxy Resins Production	11/15/94
Ethylene-Propylene Elastomers Production	11/15/94
Hypalon (tm) Production	11/15/94
Methyl Methacrylate-Acrylonitrile-Butadiene-Styrene Production	11/15/94
Methyl Methacrylate-Butadiene-Styrene Terpolymers Production	11/15/94
Neoprene Production	11/15/94
Nitrile Butadiene Rubber Production	11/15/94
Nitrile Resins Production	11/15/94
Non-Nylon Polyamides Production	11/15/94
Polybutadiene Rubber Production	11/15/94
Polyethylene Terephthalate Production	11/15/94

Polystyrene Production	11/15/94
Polysulfide Rubber Production	11/15/94
Styrene-Acrylonitrile Production	11/15/94
Styrene-Butadiene Rubber and Latex Production	11/15/94

POLYMERS AND RESINS PRODUCTION

Category	Promulgation
Acetal Resins Production	11/15/97
Amino Resins Production	11/15/97
Flexible Polyurethane Foam Production	11/15/97
Nylon 6 Production	11/15/97
Phenolic Resins Production	11/15/97
Polycarbonates Production	11/15/97
Reinforced Plastic Composites Production	11/15/97
Alkyd Resins Production	11/15/2000
Boat Manufacturing	11/15/2000
Butadiene-Furfural Cotrimer (R-11) Production	11/15/2000
Carboxymethylcellulose Production	11/15/2000
Cellophane Production	11/15/2000
Cellulose Ethers Production	11/15/2000
Flexible Polyurethane Foam Fabrication Operations	11/15/2000
Maleic Anhydride Copolymers Production	11/15/2000
Methylcellulose Production	11/15/2000
Polyester Resins Production	11/15/2000
Polymerized Vinylidene Chloride Production	11/15/2000
Polymethyl Methacrylate Resins Production	11/15/2000
Polyvinyl Acetate Emulsions Production	11/15/2000
Polyvinyl Alcohol Production	11/15/2000
Polyvinyl Butyral Production	11/15/2000
Polyvinyl Chloride and Copolymers Production	11/15/2000

PRODUCTION OF INORGANIC CHEMICALS

Category	Promulgation
Chlorine Production	11/15/97
Cyanuric Chloride Production	11/15/97
Hydrogen Cyanide Production	11/15/97
Sodium Cyanide Production	11/15/97
Ammonium Sulfate Production - Caprolactam By-Product Plants	11/15/2000
Antimony Oxides Manufacturing	11/15/2000
Fume Silica Production	11/15/2000
Hydrochloric Acid Production	11/15/2000

Hydrogen Fluoride Production	11/15/2000
Phosphate Fertilizers Production	11/15/2000
Phosphoric Acid Manufacturing	11/15/2000
Quaternary Ammonium Compounds Production	11/15/2000
Uranium Hexafluoride Production	11/15/2000

RODUCTION OF ORGANIC CHEMICALS

Category	Promulgation
Synthetic Organic Chemical Manufacturing	11/15/92

MISCELLANEOUS PROCESSES

Category	Promulgation
Commercial Dry Cleaning (Perchloroethylene) - Transfer Machines	11/15/92
Industrial Dry Cleaning (Perchloroethylene) - Dry-To-Dry Machines	11/15/92
Industrial Dry Cleaning (Perchloroethylene) - Transfer Machines	11/15/92
Chromic Acid Anodizing	11/15/94
Commercial Sterilization Facilities	11/15/94
Decorative Chromium Electroplating	11/15/94
Halogenated Solvent Cleaners	11/15/94
Hard Chromium Electroplating	11/15/94
Industrial Process Cooling Towers	11/15/94
Butadiene Dimers Production	11/15/97
Polyether Polyols Production	11/15/97
Pulp & Paper Production	11/15/97
Wood Treatment	11/15/97
Aerosol Can-Filling Facilities	11/15/2000
Benzyltrimethylammonium Chloride Production	11/15/2000
Carbon Black Production	11/15/2000
Carbonyl Sulfide Production	11/15/2000
Chelating Agents Production	11/15/2000
Chlorinated Paraffins Production	11/15/2000
Dry Cleaning (Petroleum Solvent)	11/15/2000
Ethylene Processes	11/15/2000
Ethylidene Norbornene Production	11/15/2000
Explosives Production	11/15/2000
Friction Products Manufacturing	11/15/2000
Hydrazine Production	11/15/2000
Leather Tanning adn Finishing Operations	11/15/2000
Marine Vessel Loading Operations	11/15/2000
Oxybisphenoxarsine/1,3-Diisocyanate Production	11/15/2000
Paint Stripper Users	11/15/2000
Photographic Chemicals Production	11/15/2000
Phthalate Plasticizers Production	11/15/2000
Plywood/Particle Board Manufacturing	11/15/2000
Rocket Engine Test Firing	11/15/2000
Rubber Chemicals Manufacturing	11/15/2000
Semiconductor Manufacturing	11/15/2000

AREA SOURCE CATEGORIES

Category	Promulgation
Chromic Acid Anodizing (Area Sources)	11/15/94
Commercial Sterilization Facilities (Area Sources)	11/15/94
Decortive Chromium Electroplating (Area Sources)	11/15/94
Halogenated Solvent Cleaners (Area Sources)	11/15/94
Hard Chromium Electroplating (Area Sources)	11/15/94

APPENDIX C

APPENDIX D

Project Title	Project Number	Project Lead	Phone Number
Acrylic/Modacrylic Fibers Production	93/56	Anthony Wayne	(919)541-5439
Aerospace Coating MACT Standard and CTG	91/67B	Jim Szykman	(919)541-4516
Antimony Oxides Production NESHAP	96/13	Conrad Chin	(919)541-1512
Architectural and Industrial Maintenance Coatings	89/12	Ellen Ducey	(919)541-5408
Asbestos MACT/GACT Standard	80/41A	Susan Zapata	(919)541-5167
Asphalt Roofing and Processing NESHAP	95/04	Juan Santiago	(919)541-1084
Baker's Yeast Manufacturing MACT	94/13	Anthony Wayne	(919)541-5439
Boat Manufacturing Neshap	95/15	Madeleine Strum	(919)541-2383
Case-by-Case MACT Database (Guidance Document)	93/11	Susan Zapata	(919)541-5167
Chlorine Manufacturing NESHAP	92/10	Iliam Rosario	(919)541-5308
Chromium Chemicals Manufacturing	93/51	Iliam Rosario	(919)541-5308
Chromium Elecroplating MACT Standard	85/02A	Lalit Banker	(919)541-5420
Chromium Refractories Manufacturing NESHAP	95/07	Susan Zapata	(919)541-5167
Coke By-Product Plants	95/28	Lula Melton	(919)541-
Combustion (Gas) Turbines NESHAP & NSPS	95/10	Sims Roy	(919)541-5263
Consolidated Federal Air Rules	95/25	Richard Colyer	(919)541-5265
Cyanide Chemical Manufacturing	93/57	Phil Mulrine	(919)541-5289
Dry Cleaning MACT Standard	85/06B	George Smith	(919)541-1549
Electric Utility Air Toxics Study	91/41	William Maxwell	(919)541-5430
Ferroalloy Industry MACT Standard	91/45	Conrad Chin	(919)541-1512
Flexible Polyurethane Foam Fabrication Oper MACT	96/10	David Svendsgaard	(919)541-2380
Flexible Polyurethane Foam Production	93/49	David Svendsgaard	(919)541-2380
Hazardous Organic NESHAP (litigation)	86/23	Janet Meyer	(919)541-5254
Hazardous Waste TSDF - RCRA Air Rules Phase II	84/11A	Michele Aston	(919)541-2363
Hydrogen Fluoride Production NESHAP	95/13	Richard Colyer	(919)541-5265
Industrial and Commercial Waste Incinerators	95/01	George Smith	(919)541-1549

Industrial Combustion Coordinated Rule Making	96/11	Fred Porter	(919)541-5251
Industrial-Commercial-Institutional Boilers MACT	96/04	James Eddinger	(919)541-5426
Integrated Iron & Steel Manufacturing	93/55	Phil Mulrine	(919)541-5289
Integ. Rule for Paper, Film, & Foil Coatings	96/02	Dan Brown	(919)541-5305
Internal Combustion Engine NESHAP & NSPS	95/09	Amanda Jo Agnew	(919)541-5268
Iron and Steel Foundries MACT Standard	91/59	James Maysilles	(919)541-3265
Landfills MACT	96/09	Martha Smith	(919)541-2421
Lime Manufacturing NESHAP	95/06	Joseph Wood	(919)541-5446
MACT Generic Rule	96/25	David W. Markwordt	(919)541-0837
MACT Partnerships Program Development	94/15	Fred Dimmick	(919)541-5625
Manufacture of Tetrahydrobenzaldehyde (THBA)	93/60	John Schaefer	(919)541-0296
Medical Waste Incineration	90/17	Richard Copland	(919)541-5265
Mineral Wool Production MACT Standard	92/14	Mary Johnson	(919)541-5025
Miscellaneous Cellulose Categories MACT	96/08	Elaine Manning	(919)541-5499
Miscellaneous Organic NESHAP (MON)	95/08	Randy McDonald	(919)541-5402
Municipal Landfills NSPS and 111(d)	87/28	Martha Smith	(919)541-2421
Municipal Waste Combustion Standard II & III	91/05	Walter Stevenson	(919)541-5264
NESHAP for Ethylene Processes	96/18	Warren Johnson	(919)541-5124
NESHAP for the Rubber Tire Manufacturing Industry	96/17	Anthony Wayne	(919)541-5439
Nylon 6 Production	93/52	Mark Morris	(919)541-5416
Off-Site Waste and Recovery Operations MACT	91/31	Michele Aston	(919)541-2363
Oil & Gas Production & Gas Transmission & Storage	92/06	Martha Smith	(919)541-2421
Organic Liquids (non-gasoline) Distribution MACT	96/05	Michele Aston	(919)541-2363
Other Solid Waste Incinerators	93/07	George Smith	(919)541-1549
Petroleum Refinery MACT Standard	90/19	James Durham	(919)541-5672

Petro. Refineries NESHAP: FCC Units, Reformers...	95/02	Bob Lucas	(919)541-0884
Pharmaceuticals Production MACT	93/50	Randy McDonald	(919)541-5402
Phosphoric Acid/Phosphate Fertilizers Manuf.	93/53	David Painter	(919)541-5515
Plywood & Particle Board Manufacturing	95/11	Stephen Shedd	(919)541-5397
Polycarbonates Production	93/63	Mark Morris	(919)541-5416
Polyether Polyols Production	93/62	David Svendsgaard	(919)541-2380
Polymers and Resins I MACT Standard	90/26	Robert Rosensteel	(919)541-5608
Polymers and Resins II MACT Standard	84/01	Randy McDonald	(919)541-5402
Polymers and Resins III MACT	91/54	John Schaefer	(919)541-0296
Polymers and Resins IV MACT Standard	92/12	Robert Rosensteel	(919)541-5608
Portland Cement MACT Standard	91/44	Joseph Wood	(919)541-5446
Primary Aluminum MACT Standard	91/43	Steve Fruh	(919)541-2837
Primary Copper Smelting MACT Standards	91/61	Eugene Crumpler	(919)541-0881
Primary Lead Smelting	94/11	Kevin Cavender	(919)541-2364
Primary Magnesium Refining NESHAP	96/12	Iliam Rosario	(919)541-5308
Printing/Publishing Industry MACT Standard	91/42	Dave Salman	(919)541-0859
Production of Agricultural Chemicals	93/59	Lalit Banker	(919)541-5420
Publicly Owned Treatment Works (POTW) NESHAP	91/30	Bob Lucas	(919)541-0884
Pulp and Paper Combustion MACT (MICG)	91/38	Jeffrey Telander	(919)541-5427
Pulp and Paper NESHAP CHEM. MILLS NON-COMB (WCPG)	86/15A	Penny Lassiter	(919)541-5396
Pulp & Paper NESHAP Non-chem Mills (WCPG)	86/15B	Elaine Manning	(919)541-5499
Reinforced Plastic Composites Production	93/58	Madeleine Strum	(919)541-2383
Remediation Activities MACT	96/06	Bob Lucas	(919)541-0884
Secondary Aluminum MACT Standard	91/46	Juan Santiago	(919)541-1084
Semichemical Pulp and Paper	94/04	Jeffrey Telander	(919)541-5427
Semiconductor Manufacturing MACT	95/03	David W. Markwordt	(919)541-0837
Sewage Sludge Incineration NESHAP	96/14	Eugene Crumpler	(919)541-0881
Ship Building NESHAP	91/53B	Mohamed Serageldin	(919)541-2379

Spandex Manufacturing MACT	96/07	Mary Tom Kissell	(919)541-4516
Stage I Gasoline Marketing MACT Standard	77/05A	Stephen Shedd	(919)541-5397
Steel Pickling - HCl Process MACT Standard	91/08B	James Maysilles	(919)541-3265
Vegetable Oil Production NESHAP	95/30	James Durham	(919)541-5672
Wood Furniture MACT Standard	91/22	Paul Almodovar	(919)541-0283
Wood Treatment MACT Standard	91/62	Eugene Crumpler	(919)541-0881
Wool Fiberglass Manufacturing MACT	91/47	William Neuffer	(919)541-5435

APPENDIX E

ATTACHMENT E

NOTICE OF APPLICABILITY

Source NAME
Source Address

Dear _____:

This notice is provided to the _____ (implementing Agency) in response to the publication of the following (state/federal) standards:

40 CFR 40, Part ____ (60, 61, 63, etc.), Subpart ____ (A, NO, etc.)

or

_____ (State) Title/Code _____ (129, 2D.1101, etc.), Chapter ____

____ Please send me an initial notice of applicability form

____ I have reviewed the applicability of this standard and have determined that this facility is not subject. This determination is based on

_____
_____
_____.

All calculations required by the standard are attached. If no calculations or documentation are required, this data will be maintained and made available upon request by the _____ (implementing agency). If additional information is needed, please contact me or _____, of my staff, at (____) XXX-XXXX, ext. XXXX.

_____
Responsible Official Title

_____
Date

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF AIR POLLUTION CONTROL -- PERMIT SECTION
2200 CHURCHILL ROAD
P.O. BOX 19506
SPRINGFIELD, ILLINOIS 62794-9506

NATIONAL EMISSION STANDARDS FOR HAZARDOUS AIR POLLUTANTS: COMMERCIAL ETHYLENE OXIDE STERILIZERS AND FUMIGATION OPERATIONS **INITIAL NOTIFICATION REPORT**	FOR AGENCY USE ONLY FACILITY ID #: DATE:

FORM MUST BE SUBMITTED BY APRIL 5, 1995

1. Print or type the following for **each** ethylene oxide (EO) sterilizer or fumigation operation at your facility.
   Name of Owner/Operator:
   Mailing Address:

City: State: Zip Code:
Physical Location (If Different Than Mailing Address)
Street Address:
City: State: Zip Code:
Contact Person: Phone Number: (____)

2. Check the box below if your facility:

   a. ☐ does not use an ethylene oxide sterilizer or fumigator.
   b. ☐ is exempt per 40 CFR Part 63.360 (c) - (e):

   - uses a beehive fumigator.
   - is a research or laboratory facility.
   - provides medical services to humans or animals (eg. hospitals, clinics, doctors office).

   c. ☐ uses EO in sterilization or fumigation operations.

   If you checked boxes a or b, complete the signiture section only (paragraph 7) and return the form to the address given at the top of this page. If you checked box c, continue with paragraph 3.

3. Provide the following for the EO sterilizer or fumigation operation:

   a. Method of operation (check all operations facility uses):

   I) ☐ Sterilization Chamber Vent
   ii) ☐ Aeration Room Vent
   iii) ☐ Chamber Exhaust Vent

   b. Intended control methods to achieve compliance (check all controls that apply):

Pursuant to 415 I.L.C.S. 5/4 (1992), the Agency is authorized to obtain this and any other information as may be required to carry out the purposes of the Illinois Environmental Protection Act. The failure to provide such information may result in the imposition of civil penalties, criminal fines or imprisonment for up to one year. This form has been approved by the Form Management Center.

I) ☐ acid-water scrubber
ii) ☐ catalytic oxidizer
iii) ☐ thermal oxidizer
iv) ☐ other (describe):_____

4. Provide the following dates for each EO sterilizer or fumigator (if applicable):

a. Date when construction or reconstruction commenced (mm/dd/yy):

b. Check the applicable date of initial startup (**Note**: the compliance date):

Compliance Date

☐ Initial startup occurred on or before 12/8/97
12/8/97

☐ Initial startup occurred after 12/8/97

Compliance date = initial startup date

5. This facility is a(n):

i) ☐ major source (Using one or more tons of EO)
ii) ☐ area source (not major)

6. EO **usage** over the preceding 12 months (Check one box)

i) ☐ source uses less than one ton/year[2]
ii) ☐ source uses one ton/year or more but less than ten tons/year
iii) ☐ source uses 10 tons/year or more

[2] Sterilization sources using less than 1 ton of ethylene oxide are not subject to the emission standards in 40 CFR Part 63.362, **however**, the recordkeeping requirements of 40 CFR Part 63.367(c) apply.

7. I CERTIFY THE INFORMATION CONTAINED IN THIS REPORT TO BE ACCURATE AND TRUE TO THE BEST OF MY KNOWLEDGE.

Signature Date

Print or type the name and title of the Responsible Official for this facility:

Name Title

A Responsible Official can be:

- The president, vice president, secretary, or treasurer of a corporation that owns the facility, or a duly authorized representative that is responsible for the overall operation of the facility,
- An owner of the facility,

- A principal executive officer if the facility is owned by the Federal, State, City, or County government,x
- A ranking military officer if the facility is located at a military base, or
- A general partner of a partnership that owns the facility.

APPENDIX F

The American Business Disc. 1995 Edition (c)

This information may not be sold or otherwise provided to any party other than the Licensee. Data has been seeded to detect unauthorized use.	
Company Name: EMPIRE COATING INC Address: 215 WEST AVE City: ALBION State: NY ZIP: 14411	Telephone: (716) 589-6842
Company Name: RAYCO OF SCHENETADY INC Address: 4 SAM STRATTON RD City: AMSTERDAM State: NY ZIP: 12010	Telephone: (518) 843-8316
Company Name: O'DONNELL METAL MAINTENANCE Address: 249 TRAVIS DR City: ATHENS State: NY ZIP: 12015	Telephone: (518) 943-4878
Company Name: RECORDS RESERVE COPR Address: 56 HARVESTER AVE City: BATAVIA State: NY ZIP: 14020	Telephone: (716) 344-2600
Company Name: US CHROME COPR OF NEW YORK Address: 31 SWAN STREET City: BATAVIA State: NY ZIP: 14020	Telephone: (716) 343-7077
Company Name: A & M MFG CO Address: 275 FELDMEN CT City: BAY SHORE State: NY ZIP: 11706	Telephone: (56) 242-0918
Company Name: TEK DEBURR INC Address: 26 CLEVELAND AVE City: BAY SHORE State: NY ZIP: 11706	Telephone: (516) 667-7007
Company Name: INDUSTRIAL ELECTROPLATERS INC Address: 172 STATE ST City: BINGHAMTON State: NY ZIP: 13901	Telephone: (607) 723-7991
Company Name: TRIPLE CITIES METAL FINISHING Address: 4 NOWLAN RD City: BINGHAMTON State: NY ZIP: 13901	Telephone: (607) 722-3431
Company Name: WILSON ELECTROPLATERS Address: 6 EMMA ST City: BINGHAMTON State: NY ZIP: 13905	Telephone: (607) 770-4500
Company Name: LIBERTY INDUSTRIAL FINISHING Address: 550 SUFFOLK AVE City: BRENTWOOD State: NY ZIP: 11717	Telephone: (516) 273-4488
Company Name: ACE PLATING WORKS INC Address: 800 E 136TH ST City: BRONX State: NY ZIP: 10454	Telephone: (718) 665-6500

ABI offers many other business information services, including mailing lists, directories, on-line access,and Info access. For more information, refer to the "Other Srevices" menu or contact us at (402) 593-4523

Company Name: EMPIRE COATING INC
Address: 215 WEST AVE
City: ALBION
State: NY
ZIP: 14411
Telephone: (716) 589-6842

Employees: 0010
Sales: $1 - $2.5 Million
Type of Location: Not available
Cedit Rating: Good

C	Line of Business	Ad	Year
71-02	METAL FINISHERS	A	1989

APPENDIX G

Alphabetized List of Industry and Business Trade Associations

(e.g., from Wisconsin)

AFSCME, AFL-CIO, Wisconsin Legislative Council
ASFSCME County and Municipal Employees
Administrators and Supervisors Council
Alliance for Animals
Allied Construction Employers Association
American Auto Association of Wisconsin
American Automobile Manufacturer Association
American Camping Association, Wisconsin Section
American Electroplaters & Surface Finishers
American Furniture Manufacturer Association (AFMA)
American Institute Real Estate Appraisal
American Institute of Architects (Wisconsin Society)
American Lung Association of Wisconsin
American Product and Inventory Control Society
American Trucking Association
Animal Protective League Inc.
Associated Builders & Contractors of Wisconsin
Associated General Contractors of Greater Milwaukee
Associated Milk Producers, Inc.
Associated Recyclers of Wisconsin
Association of Consulting Foresters
Auto Dealers Association of Metropolitan Milwaukee
Automotive Service Association of Wisconsin
Badger State Car Wash Association
Bay View Business Association
Bowling Proprietors Association of Wisconsin
Building Owners and Managers Association of Milwaukee
Business and Industry Improvement Council
Chemical Coaters Association
Chicago Lung Association
Citizen's Natural Res. Assn. of Wisconsin, Inc.
Citizen's Commission for Clean Air
Citizens for a Better Environment
Civil Air Patrol, Wisconsin Wing
Clean Water Action Council of Northeast Wisconsin

Coalition of Wisconsin Aging Groups
Combined Health Appeal of Wisconsin
Common Cause In Wisconsin
Concerned Auto Recylers of Wisconsin
Conference of Retail Associations
Construction Industry Manufacturers Association
Dairy Council of Wisconsin, Inc.
Environment Wisconsin Inc.
Farm Health & Safety Council of Wisconsin
Federal Reserve Bank of Chicago, Research Department
Forest History Association of Wisconsin
Forest Industry Safety and Training Alliance
Governor's Council On Tourism
Greater Milwaukee Florists Association
Greater Milwaukee Toxics Minimization Task Force
Hispanic Chamber of Commerce
Independent Community Bankers Association of Wisconsin
Independent Contract Lobbyists
Independent Insurance Agents of Wisconsin
Industrial Perforators Association
Industrial Recyclers of Wisconsin
Industry Relations Research Association
Institute Real Estate Management
International Dairy-Deli Bakery Association
Joint Organization for Better Sewer
Kitchen Cabinet Manufacturers Association
Lake Michigan Air Directors Consortium (LADCO)
Lake Michigan Federation
Lakes States Women In Timber
League of Wisconsin Municipalities
League of Women Voters Wisconsin Inc.
Lutherans for Life of Wisconsin Inc.
MRA - The Management Association
Madison Advertising Federation
Manufacturers of Emission Controls Association
Master Builders Association of Wisconsin
Mechanical Contractors Association of Wisconsin
Metro Milwaukee Association of Commerce
Midwest Equipment Dealers Association
Midwest Food Processors Association
Midwest Hardware Association

Milwaukee County Labor Council
Municipal Electric Utilities Wisconsin
Milwaukee Indian Health Board, Community Health Centers
Municipal Environmental Association of Wisconsin
NAACP
NAACP-Milwaukee Chapter
National Agri-Business Association
National Association of Social Workers
National Cheese Exchange, Inc.
National Electrical Contractors Wisconsin
National Federation of Independent Business
National Paint & Coating Association
National Telemedia Council
Petroleum Marketers Association of Wisconsin
Planning Council for Health and Human Services
National Association of Wisconsin Theatre Owners
Post-secondary Agriculture Students
Printing Industries of Wisconsin
Professional Fire Fighters of Wisconsin
Professional Insurance Agents of Wisconsin
Protect Animal Life Inc.
Public Enterprise Committee
Public Relation Society of America
Public Safety Communication Officers
Sheet Metal & Air Conditioning Contractor Association
Soap and Detergent Association
Society of Automotive Historians, Wisconsin Chapter
Society of Real Estate Appraisers
Soil Science of America
Soil and Water Conservation Society
Southeast Wisconsin Regional Planning Commission (SEWRPC)
State Bar of Wisconsin
State Engineering Association
State Medical Society of Wisconsin
Tavern League of Wisconsin
Timber Producers Assn. of Michigan & Wisconsin
Trees for Tomorrow, Inc.
United Professional Quality Health Care
United States Small Business Association
United Transportation Union-Wisconsin Legislative Board
Urban League

WATVA
WI Assn. of Plumbing-Heating-Cooling Contractors, Inc.
WI State Employees Union, AFSCME Council 24, AFL-CIO
WISCO
Washington County Land Conservation Council
Wilderness Watch Inc.
Wisconsin AFL-CIO
Wisconsin AFL-CIO Womens Committee
Wisconsin Academy of Sciences, Arts & Letters
Wisconsin Accountants Association
Wisconsin Agri-Business Council, Inc.
Wisconsin Agri-Service Assn., Inc.
Wisconsin Agriculture Association
Wisconsin Air Forces Association
Wisconsin Ambulance Service Association
Wisconsin American Public Works Association
Wisconsin Amusement & Music Operators
Wisconsin Apple Growers Association
Wisconsin Appraisers Coalition
Wisconsin Arborist Association Inc.
Wisconsin Asphalt Pavement Association
Wisconsin Assoc. for Health, Phy. Ed., Recreation & Dance
Wisconsin Association Future Farmers America
Wisconsin Association Homes and Services for Aging
Wisconsin Association Life Underwriters
Wisconsin Association for Adult & Continuing Education
Wisconsin Association for Environmental Education
Wisconsin Association for Middle Level Education
Wisconsin Association for Supervision and Curriculum Dev.
Wisconsin Association of Campground Owners (WACO)
Wisconsin Association of Fairs
Wisconsin Association of Incinerator Operators
Wisconsin Association of Independent College & Universities
Wisconsin Association of Lakes Inc.
Wisconsin Association of Manufacturers Agents
Wisconsin Association of Milk & Food Sanitarians
Wisconsin Association of Taxicab Owners
Wisconsin Association of Textile Services
Wisconsin Association of Vocational Agricultural Instructors
Wisconsin Auto Collision Technical Association
Wisconsin Auto Merchandising Council

Wisconsin Automatic Merchandising Council
Wisconsin Automobile & Truck Dealers Association
Wisconsin Automobile Clubs in Association
Wisconsin Automotive Parts Association
Wisconsin Automotive Trades Association
Wisconsin Bakers Association
Wisconsin Bankers Association
Wisconsin Beef Council, Inc.
Wisconsin Berry Growers Association
Wisconsin Beverage Licensees Association
Wisconsin Biotechnology Association
Wisconsin Bowhunters Association Inc.
Wisconsin Broadcasters Association
Wisconsin Builders Association
Wisconsin Business Education Association
Wisconsin Business Womens Coalition
Wisconsin Cable Communications Association
Wisconsin Cast Metals Association
Wisconsin Cattlemens Association
Wisconsin Cattle women Association
Wisconsin Chapter American Fisheries Society,
Wisconsin Chapter Association of General Contractors
Wisconsin Chapter Nature Conservancy
Wisconsin Chapter Tax Executives Institute
Wisconsin Chapter Wildlife Society
Wisconsin Cheese Makers Association
Wisconsin Chiropractic Association
Wisconsin Christmas Tree Producers Association
Wisconsin City Management Association
Wisconsin Coin Laundry Association
Wisconsin Communities & Economic Development
Wisconsin Community Education Association
Wisconsin Comptel
Wisconsin Concrete Masonry Association
Wisconsin Concrete and Pavement Association
Wisconsin Conference Journeymen Painters
Wisconsin Conference of Churches
Wisconsin Consumer Packaging Council
Wisconsin Contemporary Gift Association
Wisconsin Coop Tobacco Growers Association
Wisconsin Council for the Social Studies

Wisconsin Council of Safety
Wisconsin Counties Association
Wisconsin Counties Mineral Resources Association
Wisconsin Counties Utility Tax Association
Wisconsin County Agents Association
Wisconsin County Executives and Administrators
Wisconsin County Forests Association
Wisconsin County Planning Directors
Wisconsin County Solid Waste Managers Association
Wisconsin Credit Union League
Wisconsin Dairy Products Association Inc.
Wisconsin Dairy Technology Society
Wisconsin Dental Association, Inc.
Wisconsin Dental Laboratory Association
Wisconsin Dietetic Association
Wisconsin Eagle Forum
Wisconsin Economic Development Association
Wisconsin Economics Education Council
Wisconsin Electric Cooperative Association
Wisconsin Electronic Sales and Service Association
Wisconsin Environmental Health Association
Wisconsin Environmental Laboratory Association
Wisconsin Equipment Lessors Association
Wisconsin Fabricare Institute
Wisconsin Farm Bureau Federation Coop
Wisconsin Farm Bureau Service Cooperative
Wisconsin Farm Equipment Association
Wisconsin Federated Humane Societies
Wisconsin Federation of Cooperatives
Wisconsin Fertilizer & Chemical Association
Wisconsin Forest Fire Fighters Association
Wisconsin Forest Productivity Council
Wisconsin Foundation for Independent Colleges
Wisconsin Funeral Directors Association
Wisconsin Grain Dealers Association
Wisconsin Greyhound Owners Association
Wisconsin Grocers Association
Wisconsin Grounds Management Association
Wisconsin Groundwater Association
Wisconsin HMO Association
Wisconsin Hatcheries Association

Wisconsin Hazardous Material Responders
Wisconsin Health Care Association
Wisconsin Health Education Center
Wisconsin Health Information Management Association
Wisconsin Health Underwriters Association
Wisconsin Highway Users Conference
Wisconsin Hospital Association
Wisconsin Humane Society
Wisconsin Independent Businesses
Wisconsin Independent Merchants & Manufacturers Association
Wisconsin Independent Tire Dealers & Retread
Wisconsin Information and Referral Providers
Wisconsin Innkeepers Association
Wisconsin Installment Bankers
Wisconsin Institute of CPAs
Wisconsin Institute of Scrap Recycling Industries
Wisconsin Insulation Contractors Association
Wisconsin Insurance Alliance
Wisconsin Jewelers Association
Wisconsin Junior Limousine Association
Wisconsin Land Conservation Association
Wisconsin Land Title Association, Inc.
Wisconsin League of Financial Institutions, Ltd.
Wisconsin Leather Industries Association
Wisconsin Licensees Association
Wisconsin Limousine Association
Wisconsin Liquid Waste Carriers Association
Wisconsin Liquor Wholesalers lndependent
Wisconsin Locally Owned Telephone
Wisconsin Manufactured Housing Association
Wisconsin Marketing and Management Association
Wisconsin Master Builders Association
Wisconsin Meat Processors Association
Wisconsin Medical Group Management Association
Wisconsin Medical Record Association
Wisconsin Milk Haulers Association
Wisconsin Milk Marketing Board
Wisconsin Modular Housing Industry
Wisconsin Mortgage Bankers Association
Wisconsin Motorcycle Dealers Association
Wisconsin Movers Association Inc.

Wisconsin National Farmers Organization
Wisconsin Natural Food Associates, Inc.
Wisconsin Newspaper Association
Wisconsin Nurserymen's Association
Wisconsin Organic Growers Association
Wisconsin Paint & Coating Association
Wisconsin Painting & Decor Contractors
Wisconsin Paper Advertising Association
Wisconsin Paper Council
Wisconsin Park and Recreation Association
Wisconsin Petroleum Council
Wisconsin Pharmacists Association
Wisconsin Potato and Vegetable Growers Assc., Inc.
Wisconsin Precast Concrete Association
Wisconsin Primary Health Care Association
Wisconsin Professional Employee Council
Wisconsin Professional Florists Association
Wisconsin Psychiatric Association
Wisconsin Public Health Association Inc.
Wisconsin Public Health Association, Inc.
Wisconsin Pump & Well Suppliers
Wisconsin Railroad Committee
Wisconsin Ready Mixed Concrete Association
Wisconsin Real Property Listers Association
Wisconsin Realtors Association
Wisconsin Recreational Independent Inc.
Wisconsin Restaurant Association
Wisconsin Retail Bankers Association
Wisconsin Retail Hardware Association
Wisconsin Retail Lumbermen's Association, Inc
Wisconsin Road Builders Association
Wisconsin Road Builders Association
Wisconsin Rural Development Center
Wisconsin Social Service Association
Wisconsin Society for Clinical Social Work
Wisconsin Society for Ornithology Inc.
Wisconsin Society of Biological Science
Wisconsin Society of Land Surveyors
Wisconsin Society of Mechanical Engineers
Wisconsin Society of Orthodontists
Wisconsin Society of Professional Engineers

Wisconsin Society of Science Teachers
Wisconsin Soft Drink Association
Wisconsin Software Publishers Association
Wisconsin Sporting Goods Association
Wisconsin State Brewers Association
Wisconsin State Council of Carpenters
Wisconsin State Cranberry Growers
Wisconsin State Firefighters Association
Wisconsin State Grange
Wisconsin State Health Council
Wisconsin State Telephone Association
Wisconsin Tavern Hosts
Wisconsin Teachers Credit Union
Wisconsin Teamsters Joint Council #39
Wisconsin Technology Education Association
Wisconsin Tourism Federation
Wisconsin Towing Association
Wisconsin Town Mutual Insurance Co. Association
Wisconsin Town Mutual Insurance Company Assn.
Wisconsin Towns Association
Wisconsin Towns Association
Wisconsin Transportation Development Association
Wisconsin Trappers Association Inc.
Wisconsin Tree Farm Committee
Wisconsin Truck Stop Operators Association
Wisconsin Trustees Association
Wisconsin Underground Contractors Association
Wisconsin Urban Transit Association
Wisconsin Utilities Association
Wisconsin Veterinarian Medical Association
Wisconsin Warehousemans Association
Wisconsin Water Quality Association
Wisconsin Well Water Association
Wisconsin Wholesale Beer Dist Association, Inc.
Wisconsin Wildlife Federation Inc.
Wisconsin Wine and Spirit Institute
Wisconsin Wineries Association
Wisconsin Women for Agriculture
Wisconsin Woodland Owners Association Inc.
Wisconsin and Upper Michigan Florists Association
Wisconsin-Minnesota Canned Vegetable Council

Wisconsin Apartment Association
Women In Communications Inc.
Womens International Bowling Congress