INTERIM REPORT OF THE
DEPARTMENT OF EMERGENCY SERVICES AND
DEPARTMENT OF WASTE MANAGEMENT TO

Study Transportation, Manufacture and Storage of "High-Hazard" Solids, Liquids, Gases, or Compounds or Mixtures

TO THE GOVERNOR AND
THE GENERAL ASSEMBLY OF VIRGINIA

SENATE DOCUMENT NO. 32

COMMONWEALTH OF VIRGINIA
RICHMOND
1990

INTERIM REPORT
FOR
1990 SESSION
VIRGINIA GENERAL ASSEMBLY

SENATE JOINT RESOLUTION NO. 155

PREPARED BY:
DEPARTMENT OF EMERGENCY SERVICES
DEPARTMENT OF WASTE MANAGEMENT

EXECUTIVE SUMMARY

SENATE JOINT RESOLUTION NO. 155
INTERIM REPORT

Hazardous materials have become an indisputable part of our everyday society by allowing the production and use of the goods and services which we rely on to make our lives more comfortable. However, with the benefits come the dangers posed by the manufacturing, storage, and transportation of these materials in the Commonwealth.

The Department of Emergency Services, in conjunction with the Department of Waste Management, has undertaken a cooperative effort to study the risks posed by these hazardous materials and is in the process of developing criteria for the possible development of a regional routing program to regulate their movement through the state. This effort is in response to Senate Joint Resolution No. 155 passed by the 1989 Session of the Virginia General Assembly.

The manufacturing, storage, and transportation of hazardous materials in Virginia does pose a threat to the health and safety of the citizens, our environment, and the public safety community. Fortunately, Virginia's leaders recognized the risks posed by these hazardous materials and in 1987, implemented the Virginia Hazardous Materials Emergency Response Program. This program was designed to provide the Commonwealth with the ability to safely and effectively respond to accidents involving the releases of hazardous materials. Legislation creating the program also provided an avenue for establishment of the Virginia Emergency Response Council (VERC) which was mandated by the federal government under SARA Title III.

While the Hazardous Materials Emergency Response Program has provided the framework for the monitoring of and response to hazardous materials releases, efforts are underway to provide a comprehensive framework in order to mitigate the occurrence of such incidents. In particular, several states have begun to implement routing programs aimed at ensuring that the movement of hazardous materials is accomplished with the minimum possible

risk. Development of these programs requires the cooperation of federal, state, and local authorities as well as the private transportation sector.

Emergency management experts from government and industry have begun to work hand in hand, largely as a result of SARA Title III planning mandates, in preparing to meet the safety challenges posed by the increasing use of hazardous materials in our society. It should be realized that these efforts must be an ongoing activity as the risks associated with hazardous materials, while they can be minimized to a degree, are ever present and make it necessary therefore that we are able to effectively protect our citizens and our environment from the consequences of chemical emergencies.

LD9224136

SENATE JOINT RESOLUTION NO. 155

AMENDMENT IN THE NATURE OF A SUBSTITUTE

(Proposed by the House Committee on Rules
on February 16, 1989)

(Patron Prior to Substitute–Senator Waddell)

Requesting the Secretary of Transportation and Public Safety, the Department of Waste Management and the Department of Emergency Services to study transportation, manufacture and storage of "high hazard" solids, liquids, gases, or compounds or mixtures thereof.

WHEREAS, the transportation, manufacture and storage of "high hazard" solids, liquids, gases, or compounds or mixtures thereof, within and through the Commonwealth provides a threat to the health and safety of our citizens and our environment in the event of spills, fires and related accidents; and

WHEREAS, these "high hazard" solids, liquids, gases, or compounds or mixtures thereof, may be involved in incidents which endanger the environment and the health, safety and welfare of the people of the Commonwealth; and

WHEREAS, there exists in Chapter 3.5 (§ 44-146.34 et seq.) of Title 44 of the Code of Virginia the authority to develop hazardous materials emergency response programs; and

WHEREAS, under the provisions of Chapter 3.5, a program has been established and there currently exist within the Commonwealth several state-sponsored regional hazardous materials emergency response teams; and

WHEREAS, under the provisions of Chapter 3.5, a statewide hazardous materials training program has been established; and

WHEREAS, under the provisions of Title III, Superfund Amendments and Reauthorization Act (SARA), Public Law 99-499, there exists a requirement to establish a Community Right-to-Know Program and local emergency planning councils; and

WHEREAS, current federal and state regulations direct carriers to operate vehicles containing hazardous substances "over routes which do not go through or near heavily populated areas, places where crowds are assembled, tunnels, narrow streets, or alleys"; and,

WHEREAS, criteria need to be developed to include population density, response capability, traffic flow, and other elements in these regulations; and

WHEREAS, the identification of low-risk transportation routes protects the public health, safety and welfare in advance of an accident and improves the efficiency of emergency medical response in event of an accident; and

WHEREAS, the risk assessment software to project the risk probabilities of each quarter-mile stretch of highway in regions for transportation of "high hazard" solids, liquids, gases, or compounds or mixtures thereof, has been developed and tested; and

WHEREAS, the federal Environmental Protection Agency has identified 366 chemicals as "high hazard" substances according to the 1986 Superfund Amendments and Reauthorization Act and an additional 713 chemicals have been identified as environmentally and health sensitive under the Comprehensive Environmental Response Compensation and Liability Act; now, therefore, be it

RESOLVED by the Senate, the House of Delegates concurring, That the Secretary of Transportation and Public Safety, the Department of Waste Management and the Department of Emergency Services are requested to study the transportation, manufacture and storage of "high hazard" solids, liquids, gases, or compounds or mixtures thereof, within and through the Commonwealth. The study shall seek to identify and catalog any and all hazardous substances, the transportation, manufacture and storage of which would constitute a threat to Virginia's citizens and the quality of the environment. Additionally, the study shall develop criteria to analyze and select a regionally coordinated system of safest available routes for transporting "high hazard" solids, liquids, gases, or compounds or mixtures thereof.

The Secretary and the Departments shall complete their work in time to jointly submit

their findings and recommendations to the Governor and the 1991 Session of the General Assembly and provide an interim report of its progress to the 1990 Session of the General Assembly as provided in the procedures of the Division of Legislative Automated Systems for processing legislative documents.

Official Use By Clerks

Agreed to By The Senate		Agreed to By The House of Delegates	
without amendment	☐	without amendment	☐
with amendment	☐	with amendment	☐
substitute	☐	substitute	☐
substitute w/amdt	☐	substitute w/amdt	☐

Date: _____ Date: _____

Clerk of the Senate Clerk of the House of Delegates

I. INTRODUCTION:

Today's society is one based on hazardous materials. From the polymers used to manufacture our office furniture to the fuels needed to sustain the operations of this country's vast transportation network, hazardous materials touch our lives every day. Even the clothing we wear is dependent upon the use of hazardous materials in the manufacturing process. To put it simply, hazardous materials make our everyday life better in many ways.

However, the everyday benefits of hazardous materials also carry risks. In order for hazardous materials to better our daily lives, they must be manufactured and stored in our jurisdictions as well as moved by our transportation networks. Thus, it can be assumed that every citizen of the nation is a risk taker because they demand the benefits from hazardous materials. It should be recognized, however, that these same citizens depend upon applicable industry and government officials to minimize these risks by ensuring that hazardous materials are manufactured, transported, and stored as safely as possible.

II. SENATE JOINT RESOLUTION 155

As mandated by Senate Joint Resolution No. 155 (SJR 155), passed by the 1989 session of the Virginia General Assembly, the Department of Emergency Services (DES), in conjunction with the Department of Waste Management (DWM), has begun to study the transportation, manufacture, and storage of hazardous solids, liquids, gases, or compounds within the Commonwealth. The study has been limited to the 366 "extremely hazardous substances" defined under Section 302 of the Emergency Planning and Community Right-to-Know Act, also known as Title III of the Superfund Amendments and Reauthorization Act of 1966 (SARA Title III) as well as the 719 "hazardous substances" defined under Section 101(14) of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA).

The study is seeking to identify and catalog any and all previously-defined hazardous substances, the transportation, manufacture, and storage of which would constitute a threat to the health of the public and the quality of the environment within the Commonwealth. Additionally, the study is seeking to develop

criteria to analyze and select a regionally-coordinated system of safest available routes for transporting "extremely hazardous" solids, liquids, gases, or compounds or mixtures thereof. This project is being prepared under the coordinated direction and efforts of George W. Foresman of the Department of Emergency Services and Sharon Kenneally of the Department of Waste Management, utilizing all available professional and technical expertise from both the public and private sectors.

III. METHODOLOGY:

Preparation of this study is being undertaken in two phases. The first phase has consisted of identifying, obtaining, and reviewing all applicable federal, state, and local government documents, records, reports, studies, and regulations which might support this study process. Additionally, relative data is being solicited from appropriate private sector corporations and organizations for use in the study process. Within the purview of this first phase, deficiencies of information needed to complete the study have been identified and methods for obtaining this information have been developed. This Interim Progress Report, resultant of the first phase of study, will review the current issues of the transportation, manufacture, and storage of hazardous materials in the Commonwealth. In addition, it will provide relative discussion concerning project completion.

Within the second phase of this study, all data assembled during the first phase as well as any acquired during the second phase, will be cataloged, reviewed, and analyzed and then integrated into the study. As mentioned previously, the completed study, based on the aforementioned data, will seek to identify and catalog any and all previously-defined hazardous substances, the transportation, manufacture, and storage of which would constitute a threat to the health of the public and the quality of the environment within the Commonwealth. Additionally, the study will develop criteria to analyze and select a regionally-coordinated system of safest available routes for transporting "extremely hazardous" solids, liquids, gases, or compounds or mixtures thereof.

It is anticipated that the final study document will address three major areas of study. First, the completed study document will provide a comprehensive analysis and assessment of the

presence and risk posed by the 1,085 previously-defined hazardous materials to the health and safety of Virginia's citizens and the environment. Secondly, the report will provide a comprehensive analysis of the administrative, regulatory, and legislative actions required to select and designate a regionally-coordinated system of safest available routes for transporting hazardous materials. Finally, the study document will provide sufficient data by which a technical risk analysis program to support legislative actions can be developed for use in selecting the safest transportation route. Within the text of the final study, the overall parameters for development of a "hazardous materials routing program" will be provided.

PHASE I ACTIVITIES:

1. Develop Criteria for Phase II completion.

2. Identify the hazard.

3. Evaluate the Commonwealth's Hazardous Materials Response Program.

4. Evaluate the Commonwealth's Hazardous Materials Training Program.

5. Evaluate the current status of SARA Title III in Virginia.

6. Evaluate the the means for developing routing systems.

7. Develop an Interim Progress Report.

PHASE II ACTIVITIES:

1. Calculate actual and probable hazardous materials incidents in Virginia.

2. Determine the risks posed by hazardous materials to Virginia's citizens and the quality of our environment.

3. Recommend actions to enhance the Commonwealth's Hazardous Materials Emergency Response Program.

4. Recommend actions to enhance the Commonwealth's Hazardous Materials Training Programs.

5. Develop criteria for creation of a Hazardous Materials Routing Program in Virginia

6. Develop Final Study Report.

CRITERIA FOR PHASE II COMPLETION:

A major task assigned by SJR 155 is the development of "criteria to analyze and select a regionally coordinated system of safest available routes for transporting 'high-hazard' solids, liquids, gases, or compounds or mixtures thereof". This portion of the study process will likely be the most time consuming and labor intensive of Phase II work. Development of an overall hazardous materials routing program will require establishment of two main subprogram elements: an administrative element to provide for the legislative, implementation, and management aspects of the program; and a risk analysis element to provide a qualitative analysis of proposed routes.

Transportation of hazardous materials is regulated by the United States Department of Transportation under Title 49, Code of Federal Regulations. Virginia has adopted these standards for regulation of hazardous materials transportation in the Commonwealth. Therefore, any routing program established in Virginia must be consistent with federal regulations.

Development of similar programs in the states of Colorado and Pennsylvania have required the acquisition of private sector consultants to provide the framework for routing standards. The nature of the development process requires that copious amounts of data concerning roadway characteristics, accident statistics, property evaluations, demographics, land uses, and traffic characteristics be reviewed and analyzed. This information is used to determine accident probabilities, population risks, and property risks for various segments of roadways, usually by breaking each segment of the routes into one-mile lengths. Subjective factors such as emergency response capabilities and public facilities as well as alternate routes must also be considered.

Virginia's highway system encompasses almost 54,000 miles of interstate, primary, and secondary roads and is the third largest in the nation. Consequently, development of hazardous materials routing standards for the vast road network, based upon the aforementioned data, would be a monumental undertaking. Procurement of a contractor would ensure that sufficient manpower and technical expertise are applied to the development process so that it produces a hazardous materials routing program which is adequate for Virginia and is consistent with federal regulations.

The Commonwealth of Pennsylvania Department of Transportation (PennDOT) has retained the services of the Center for Transportation Research at Virginia Polytechnic Institute and State University (VPI&SU) to develop a hazardous materials analysis program for their state. This is the same group that provided the Department of Emergency Services with the 1985 report on selection of preferred highway routes for the shipment of spent nuclear fuel between the Surry and North Anna Power Stations. The program will allow PennDOT to determine vulnerable areas in the state and the minimum risk routes for traversing those areas on a continuous basis, utilizing annual accident report data. Much of the work that has been done on the Pennsylvania system could be applied here in Virginia, resulting in the delivery of a more cost effective routing program. Typically, the work includes transferring vast amounts of roadway-specific data into a computer risk analysis program which then can be used to analyze each segment of roadway. Given the fact that Virginia has as much as 54,000 miles of roadway, it is conceivable that data entry would be required for at least the same number of mile-long segments.

In addition, the Center for Transportation Research believes that a comprehensive assessment of the risks associated with the manufacture and storage of hazardous materials could be provided in conjunction with the development of a route analysis program. Preliminary estimates show that a hazardous materials route analysis program as well as an assessment of risks associated with the storage and manufacture of hazardous materials would require 12 to 18 months to complete and would likely cost an estimated $400,000 or more at today's prices.

However, the development of a hazardous materials routing analysis package will only be one portion of the establishment of an overall routing program. The State of Colorado has implemented a similar

program, and this has required the dedication of financial resources ($500,000+ per year), manpower, and the cooperation of state and local government to ensure its success. Management and enforcement of the program, which was mandated by the Colorado Hazardous Materials Transportation Act of 1987, has been placed under the Colorado State Patrol, a subelement of the Department of Highways. The Act provides the Patrol the authority to, in consultation with local governments and the State Highway Department, designate routes for the transportation of hazardous materials in the State. The program includes not only hazard analysis of road segments but public education and enforcement programs.

Route designation by states is currently coming under close scrutiny by the Federal Department of Transportation (DOT) which maintains the statutory authority for interstate transportation of hazardous materials. During July 13, 1989, testimony before the U.S. Congress, House Public Works and Transportation's Surface Transport Subcommittee, DOT's Research and Special Programs Administration Chief, Travis Dungan, indicated that the Department's powers should be extended over intrastate transportation of hazardous materials as well. His comments were predicated upon the fact that more and more states are considering implementation of hazardous materials routing programs to cover movement beyond the Federal Highway System. DOT is concerned that individual states may develop routing standards that are inconsistent with federal standards, leading to confusion on the part of transporters and potential decreases in transportation safety.

According to Dungan, DOT wants the power to act as arbitrator between states when issues arise concerning hazardous materials routing. DOT is working towards development of routing guidelines for states so that there is an element of consistency nationwide. Consequently, there may soon be a federally-approved standard on which Virginia could base a routing program.

IDENTIFICATION OF THE HAZARD

Virginia has been fortunate to have experienced significant economic and population growth during the past decade. Much of this can be directly related to increases in the manufacturing sector. The manufacturing industry is the largest basic employer in Virginia; in 1985, some 424,300 persons were employed in over 5,600 facilities, accounting for shipments of goods totaling $45.5 billion.

The large manufacturing presence in Virginia is certainly predicated upon the state's geographic location in relation to major markets as well as its good transportation network. The Mid-Atlantic location of Virginia provides an ideal base upon which to serve the established consumer and industrial markets in the northern and eastern urban centers as well as the expanding markets in the southeastern portion of the United States. Nearly one-half of the nation's population is located within 500 miles of Richmond. Three-fifths of the population and two-thirds of the manufacturing employment for the entire country is within a 750-mile radius of Richmond. In addition, Virginia's well-developed rail and highway transportation corridors combined with the port of Hampton Roads make movement of raw materials and finished products both rapid and cost effective.

However, with the establishment of Virginia's industrial markets and transportation centers, the amount of hazardous materials transported, manufactured, and stored within the Commonwealth will increase. As previously noted, the two lists of chemical substances that are the focus of this study are the list of "extremely hazardous substances" (EHSs) designated by Section 302 of SARA Title III and the list of "hazardous substances" designated by Section 101(14) of CERCLA. The list of extremely hazardous substances and threshold planning quantities assigned to each substance are intended to assist communities in identifying those facilities and substances of the most immediate concern for emergency planning and response. CERCLA hazardous substances are those which, when released into the environment, may present substantial danger to the public health or welfare or the environment; some hazardous wastes are also included on this list. Eighty-five chemical substances are common to both lists (see Appendix A).

At present, no agency in the Commonwealth maintains comprehensive data on the transportation, manufacture, and storage of hazardous materials. Under the mandates of SARA Title III, the Department of Waste Management has been collecting information regarding the use in manufacturing and nonmanufacturing facilities of certain chemicals, including those on the previously-noted chemical lists. However, given the recent nature of the legislation, a comprehensive data base on chemical use within the Commonwealth is not currently available from the SARA Title III program.

The Bureau of Toxic Substances, Department of Health (created under the Toxic Substances Information Act) has been collecting information on chemical use since 1976. Under the mandates of the law, the owner of each commercial establishment in the state is required to report an inventory of every chemical, regardless of the amount or type, which is used in the manufacturing process. Approximately 3,200 companies currently report to the Bureau, primarily on an annual basis.

The Bureau was asked to provide information relative to chemicals on the previously-noted lists that have been reported by manufacturers. The two lists were compared to the Bureau's computer-based chemical inventory. Based on this information, it was determined that at least 96 of the 366 SARA extremely hazardous substances and 291 of the 719 CERCLA hazardous substances had been reported by manufacturers in the state (see Appendices B and C for a detailed list of those reported).

Although this analysis provides an indication of relative usage of chemicals, it is important to note that the Bureau's chemical inventory changes daily due to continuous updates received from facilities. It is also difficult to determine the relative amounts of the chemicals present because usage is reported in ranges, some of which are extremely broad (e.g.,1,001 - 10,000 kg/yr to more than 100,000 kg/yr). In addition, the inventory does not take into consideration chemical usage by nonmanufacturers.

When the Department of Waste Management is able to complete development of the comprehensive chemical data base program relative to SARA Title III, expected sometime during 1990, a much more thorough assessment will be possible.

Shipments of hazardous materials pass throughout the state daily. These consist of those originating at Virginia facilities bound for other in-state facilities, those originating out-of-state bound for Virginia facilities, those originating in Virginia bound for out-of-state facilities, and those passing through the state en route from one state to another. An assumption in this analysis is that chemicals reported as being either used or produced by manufacturing facilities are also being transported in the Commonwealth. Currently, there is no record of which chemicals are only transported through the state between points of origin and destinations outside of Virginia.

VIRGINIA'S HAZARDOUS MATERIALS INCIDENT HISTORY

As previously noted, Virginia's large industrial base and quality transportation networks provide a means for hazardous materials to be manufactured, stored, and transported within the Commonwealth. For the most part, there have not been large numbers of loss of life in the state as a result of either fixed facility or transportation accidents related to hazardous materials. However, this should not be construed to say that the potential does not exist. Current training and safety standards for both the transportation and manufacturing industry will help to minimize the potential for accidents involving hazardous materials but will not totally eliminate such occurrences. Plain and simple--accidents will occur.

There was a tenfold increase in the number of reported incidents involving hazardous materials between 1983 and 1988. Much of this increase can be attributed to the enactment of federal legislation which required business and industry to report the release of hazardous chemicals into the environment. The implementation of Virginia's Hazardous Materials Emergency Response Program has increased awareness of reporting requirements, primarily due to the fact that SARA Title III staff from the Department of Waste Management have undertaken an aggressive and successful effort to educate business and industry. Certainly the number of incidents involving hazardous materials releases has increased, in real terms, since the early-1980's, but probably not at a tenfold rate. Instead, there has, in all probability, been only a moderate increase in the number of actual incidents, but compliance with reporting requirements and an increased safety awareness has caused the dramatic increase in the numbers.

It should be noted that the number of reported incidents include not only accidental releases of "extremely hazardous" and "hazardous" substances but also materials such as motor oils. However, the implementation of the SARA Title III emergency release notification requirements in 1987 has provided the base by which releases of "extremely hazardous" substances can be tracked. The number of Title III accidental release notifications has steadily increased since the inception of the program with 27 being reported in 1987, 34 in 1988, and 52 though December 31, 1989.

The following is a breakdown of total number of hazardous materials incidents reported to the Virginia Emergency Operations Center between January 1, 1987, and December 31, 1989:

	1987	1988	1989
Reported Incidents	642	1,014	1,532
On-Scene Responses*	73	136	194

* Represents an on-scene response by a DES State Hazardous Materials Officer, in some cases with the assistance from one of the Department's Regional Hazardous Materials Response Teams.

MODE/FACILITY:			
Highway	108	206	211
Railroad	17	27	23
Fixed Facility	203	355	391
Marine	194	290	131
Other	120	136	776
CONTAINER:			
Truck Tanker	55	86	81
Rail Tanker	15	21	13
Fixed Storage Tanks	49	117	111
Saddle Tanks	10	38	50
HAZARD CLASS			
Explosives	-	4	11
Compressed Gas	36	61	59
Flammable Liquids	378	635	1,023
Flammable Solids/Combustibles	4	4	10
Oxidizers	8	12	12
Poisons/Etiological Agents	11	19	27
Radioactive Materials	4	6	8
Corrosives	46	48	69
Other (Miscellaneous)	155	225	313

The final study document will provide a comprehensive assessment of releases of hazardous materials as the result of transportation and fixed facility accidents.

RISK DETERMINATION

In the late-1970's, the National Fire Protection Association implemented the 704 marking system used to identify the relative risk posed by hazardous materials. The 704 system, as it is commonly referred to in emergency response circles, has primarily been used in fixed facilities to identify the major categories of risks posed by hazardous materials. However, these categories are applicable in determining the risks posed to the citizens and environment by hazardous materials in manufacturing, storage, and transportation. The categories are the toxicity of a material or its effect on health, the flammability of a material or its susceptibility to ignition and fire, the reactivity of a material or its effect on other materials, as well as a category for special considerations.

The July 1988 Report of the Governor's Task Force on Emergency Medical Response Disaster Planning identified hazardous materials incidents as the Commonwealth's number one disaster risk from an emergency medical standpoint. Hazardous materials come in a variety of forms such as solids, liquids, and gases--many are odorless and colorless. Some may cause serious injury or death from minimal exposure, while others are relatively harmless, unless exposure is in large amounts. However, it is abundantly clear that exposure to hazardous materials poses a great risk to the health and welfare of emergency response personnel and the general population. The Task Force report indicated that, despite the state's commitment and success in developing the Hazardous Materials Emergency Response Program to deal with mitigating hazardous material releases, the Commonwealth's emergency medical system is "woefully unprepared" to deal with the medical consequences of these type accidents.

The November 29, 1988, deaths of six fire fighters in Kansas City, Missouri, exemplify the dangers posed by hazardous materials to public safety response personnel. In this instance, fire fighters were unaware that a trailer in which they were trying to extinguish a fire contained 30,000 pounds of an Ammonium Nitrate - Kerosene mix. The resulting explosion obliterated the trailers and killed the fire fighters and left two 35-foot wide by 7-foot deep craters. Ammonium Nitrate is the same material which was blamed for one of this country's worst disasters--the 1947 ship explosion in Texas City, Texas, which killed more than 550 people, injured at least 3,000, and did $500 million in damage (1947 dollars).

In February 1982, the release of a highly-toxic gas at a Hanover County business resulted in the death of one employee and the permanent disability of another. Additionally, 12 volunteer rescue squad members and scores of hospital workers became sick when exposed to the material; and due to the contamination, the Medical College of Virginia emergency room was closed and quarantined for the first time in history. The material, Pentaborane, was so lethal that then Governor Charles Robb had to intercede to obtain permission from federal authorities to allow the product to be moved to Fort A. P. Hill for explosive destruction.

While the potential impact of hazardous materials releases on the population is of paramount concern, attention should be given to the effect of such a release on the environment. The November 1989 report of the Virginia Joint Committee On Spill Prevention and Response Readiness looked primarily at the effect of a major petroleum spill on the environment of Virginia. While a large petroleum spill would likely present health and fire hazards, there would more likely be a greater hazard associated with the effect on the environment . Virginia's economic base is predicated, in part, on tourists who come to enjoy the state's inland and coastal water bodies as well as the scenic countryside. In addition, our agricultural and fishing industries depend on a clean environment, particularly water, to support crop growth and maritime resources respectively. A major hazardous materials release, either on land or in the water, could certainly result in appreciable environmental as well as economic damage to the Commonwealth.

The greatest risk from hazardous materials in Virginia typically occurs when the materials are in transit, whether by highway, rail, or ship. When these materials are introduced into our transportation networks, the potential for an accident increases. When a hazardous material is located on a plant site, either in storage or during the manufacturing process, public access is typically limited. In addition, environmental conditions, equipment monitoring, and technical monitoring of the material is easier to achieve. However, when a material is moved by highway, rail, water, pipeline, and even air, the transport medium is exposed to outside factors such as other transport mechanisms, environmental conditions, a minimized ability for monitoring the material and equipment and, most importantly, the general population. As a result, the increase in the number of unknown accident potentials causes a corresponding increase in the risk.

The most prevalent of these transport mediums is the trucking industry. In 1988, the Virginia State Police reported that nearly 75 percent of the 13,424 trucks inspected had safety defects. In the case of 40 percent of those inspections, the safety defect was serious enough to require that the vehicle be taken out of service. With 52 percent of the inspections, drivers were found to be in violation of established rules, most notably for too many hours driving. In 13 percent of these cases, the violation was serious enough to warrant the driver being taken out of service. In all fairness to the trucking industry, however, it should be pointed out that the 75 percent defect figure can include such violations as a marker light being defective.

In 1988, there were over 600,000 trucks registered to operate within Virginia's borders, both for interstate and intrastate travel. In the same year, the Virginia Department of Transportation reported that nearly 10.4 million trucks were weighed at Virginia's weigh stations. The U.S. Department of Transportation estimates that, for 1988, 18 percent of all trucks traveling the highways carried hazardous materials. If that data is extrapolated out, it can be calculated that with 600,000 trucks registered to operate within the state, 18 percent, or approximately 108,000 trucks, might carry hazardous materials. If the same 18 percent figure is applied to those weighed, it could be estimated that nearly 1.8 million of the trucks that passed through Virginia's weighing stations may have carried a hazardous material. It should be noted, however, that the number of trucks registered and weighed include many that do not fit the U.S. Department of Transportation's guidelines for those carrying hazardous materials. It was not possible to determine with available data the exact percentage that do not fall into the DOT guidelines. Therefore, these figures could tend to be on the high side.

The 1988 edition of the Virginia Crash Facts reported that there were 3,864 accidents involving tractor-trailers in 1988. If the 18 percent figure for hazardous materials transportation is again utilized, then the potential exists that nearly 700 of those accidents involved tractor-trailers carrying hazardous materials. Since tractor-trailers do fit into the Department of Transportation's 18 percent guideline, these figures tend to be more accurate. Again, it must be pointed out that a truck simply being involved in an accident does not mean that a hazardous material would be released.

In fact, only 21 percent, or 213 of the 1,014 hazardous materials incidents reported in 1988, involved highway transportation. This would tend to indicate that in actuality, the number of reported incidents is relatively low when compared to the amount of traffic and potential for hazardous material transportation. When accidents do occur with trucks carrying hazardous materials, there is usually a great deal of attention. These accidents can sometimes result in massive traffic tie-ups and the resulting specialized emergency responses that are necessary to mitigate the problem make exciting news.

Transportation-related hazardous materials incidents tend to be among the riskiest for emergency responders. Despite federal regulations which require vehicles carrying hazardous materials to be posted with warning placards and have appropriate shipping papers, the destructive nature of accidents and spills often results in the loss of these or other means to identify the product. Consequently, emergency responders must often contact the shipper to find out what the vehicle is transporting. The Chemical Manufactures Association (CMA) operates a 24-hour-a-day emergency center, CHEMTREC, where emergency response personnel can call to seek technical advice and assistance in identifying the product. However, this organization is limited in its ability to provide emergency responders with appropriate information.

This past year, U.S. Representative Douglas Appelgate of Ohio introduced legislation (HR 2584) calling for the establishment of a computerized system to track hazardous materials shipments. Estimates put the price tag of such a program at over $1 billion nationwide. The intent of the program is to provide communities, and subsequently emergency response personnel, with listings of hazardous materials which will transit their area. Critics charge that the resulting paperwork and paper flow would bury local officials under massive amounts of documentation and would serve no useful purpose. For example, it was previously noted that as many as 1.8 million of the trucks passing through the state's weigh scales in 1988 may have carried a hazardous material. If registration information concerning each one of these shipments were provided to every jurisdiction along the shipping route, some localities could receive as many as 34,615 notifications per week or 4,931 notifications per day. Even with this information, it is questionable as to whether public safety officials would change current response techniques. Hazardous material responses tend to

be reactive in nature and the proposed computer program is considered to be the opposite of that--proactive. Therefore, given the sheer volume of hazardous materials transported, it is questionable if such a program would be effective from either the industry or public safety side.

Virginia's maritime transportation system is also vulnerable to release of hazardous materials. According to the 1989 Report of the Virginia Joint Committee on Spill Prevention and Response Readiness, nearly 10,000 sailings occurred in and out of the port of Hampton Roads and the port of Baltimore during 1988. Figures from 1987 show that 11 million tons, or 69,854,000 barrels, of petroleum products traveled Virginia waters to and from the port of Hampton Roads or the port of Baltimore. Fortunately, petroleum spills into Virginia's navigable waters involving products in transit have not been numerous. However, the sheer volume transported indicates the potential for spills.

As a corollary to maritime travel, the Spill Committee reported that in 1988 there were 561 petroleum-related spills reported statewide to either the Coast Guard or the State Water Control Board. In two-thirds of the cases, the spills reached state waters. Despite the fact that most of the spills did not exceed 25 gallons each, the total estimated amount of product spilled was 319,445 gallons, with nearly 259,015 gallons reaching state waters.

Virginia had a significant concentration of railroads operating in the state during 1988. The number of reported hazardous materials incidents related to these railroads accounted for about three percent of the total 1,014 recorded incidents during 1988. While none of these incidents resulted in an appreciable human or economic loss, the potential does exist. Nationwide in 1988, U.S. railroads carried over 1.1 million carloads of hazardous materials, including poisons, pesticides, and other dangerous chemicals. Hazardous materials shipping violations for railroads during 1988 numbered 3,575--up some 600 percent from 1984 when 499 violations were reported. This increase in numbers likely reflects a more stringent enforcement program as well as higher volumes of hazardous materials being transported.

The nature of rail transportation of hazardous materials does carry risks. Volumes of hazardous materials transported per car by rail tend to be greater than those moved by highway carriers. In addition

to larger volumes, rail transportation can result in different types of hazardous materials being transported in the same train. Thus, when accidents/spills do occur, there may be larger volumes involved and the materials may be mixed, creating a synergistic effect. In many cases, accident/spill response may be exacerbated by the fact that rail lines sometimes traverse remote and relatively-inaccessible areas. Consequently, responses may be time consuming and logistically difficult.

The risks of pipeline releases appear to be minimal. In 1988, only two percent of all reported incidents involved pipelines. There are four major natural gas and two major petroleum pipe- lines which cross the state. While the incident history for 1988 is low, it should be noted that the sheer volumes carried in these pipelines could result in large quantities of hazardous materials being released when accidents do occur. (At press time of this report, a failure in the Colonial Pipeline in central Virginia had recently threatened the water supply for the City of Fredericksburg.)

Manufacturing and storage facilities using or storing hazardous materials also pose a risk. In 1988, 34 percent of reported incidents involved releases at fixed facilities. While many of the reportings were to meet the requirements of SARA Title III, it should be realized that these facilities have the potential for large releases. The 1984 Union Carbide chemical release in Bhopal, India, which killed and injured thousands and resulted in the new federal legislation aimed at hazardous materials emergency notification and planning (SARA Title III) as well as the more recent October 23, 1989, Phillips Plastics Plant explosion in Pasadena, Texas, which killed 19 workers, exemplify the hazards posed by the manufacture and storage of hazardous materials.

It was noted earlier that manufacturing and storage facilities generally offered a better ability to monitor and control the factors affecting hazardous materials. While this can help to minimize the potential for an accident, the large quantities and differing types of chemicals stored at many sites increase the risk. Where in transportation quantities are generally limited, storage and manufacturing facilities tend to have much larger quantities which, when released, can adversely affect a much larger area. Additionally, many of the differing types of hazardous materials stored on sites and in facilities are synergistic; that is, when the combined effect of two or more chemicals is more dangerous than

either of the chemicals on their own. In the cases of facilities, the different types and larger quantities of hazardous materials can be especially dangerous and hard to contain.

In many of the larger facilities, trained personnel are on hand to deal with hazardous materials releases on the property. The sheer size of some releases, though, may overwhelm these teams and require the assistance of outside public safety resources. Of particular concern are the manufacturing and storage facilities which are large enough to maintain a big inventory of hazardous materials but not large enough to staff onsite response teams. These facilities will rely on public safety resources to provide emergency support in the event of a release or spill.

If anything good came out of the injury and deaths of thousands in Bhopal, India, it would be SARA Title III. The requirements of this federal mandate have forced government and industry to work together in planning for and responding to chemical emergencies. Rather than being on opposite sides of the fence, government and industry emergency management experts have begun to come together to face the risks posed by hazardous materials.

The second phase of this report will take a more in depth look at the risks posed by previously-defined hazardous chemicals to the health and safety of the Commonwealth's citizens and the environment in the event of spill fires and related accidents.

RESPONSE PROGRAM

In April 1986, the Virginia Secretary of Transportation and Public Safety directed that a Hazardous Materials Task Force examine problems posed by hazardous materials, considering their use, storage, and transportation and the state's capability to train for and respond to hazardous materials incidents. After meeting extensively during 1986, the task force determined that a definite statewide hazardous materials incident response problem existed; and with the limited state and local response capabilities, state-level development and funding would be required. The task force determined the need for a standardized hazardous materials training program and a regional network of emergency response teams.

In 1987, HB 1172 was passed by the Virginia General Assembly establishing the Virginia Hazardous Materials Emergency Response Program. Administration of this program was placed under the State Coordinator of Emergency Services who is also Director of the Department of Emergency Services. The intent of the response portion of the program was to establish a cadre of state-level response personnel, to be supplemented by regional teams made up of local fire service personnel, to deal with hazardous materials incidents.

The nature of mitigating hazardous materials incidents can be either simple or complex, requiring few or many response personnel. The geographic size of the state, coupled with the need to respond to these incidents in a timely fashion made development of the cadre and regional response teams both efficient and cost effective. Responses to hazardous materials incidents by these personnel can generally be classified into two categories--Level II or Level III. A Level II response primarily consists of defensive tactics aimed at containing a spill or leak and typically does not directly expose the hazardous materials technician to a product. The Level III response, which is generally considered to be more technical and offensive, is geared towards containing and interdicting the leak. This type of response requires a great deal of specialized equipment and training and usually results in the responder working in direct contact with the hazardous environment, protected by specialized garments.

As of November 30, 1989, the Department of Emergency Services had 13 staff members employed in the Hazardous Materials Emergency

Response Program, 8 of which are field response personnel. The staff is responsible for basic program development/administration, and field employees provide technical advice, onscene response, assistance for Level III response course development and training, and liaison with local hazardous materials coordinators. The state has been divided into eight response areas with regional offices being located in Pulaski, Culpeper, Richmond, and Newport News.

The regional hazardous materials emergency response team program began to materialize during 1988 with the actual signing of agreements between local jurisdictions and the Virginia Department of Emergency Services. Through these agreements with local governments, Virginia is well along in the process of developing adequate statewide hazardous materials emergency response coverage. Only the Southern Piedmont portion of the state lacks a trained and equipped team. The City of Danville has recently signed a participatory agreement with the Department of Emergency Services, and efforts are underway to provide the necessary equipment and training to bring the team on line as quickly as possible. In the meantime, coverage is provided by utilizing teams from adjacent areas as well as Department of Emergency Services response personnel.

It is estimated that nearly 80 percent of all hazardous materials incidents can be handled effectively and safely by a Level II response using defensive tactics. A statewide Level II response capability will allow every locality in the Commonwealth to handle the majority of incidents they are likely to face. Localities can reach this Level II designation through a combination of specialized training (40 hours per individual) and equipment. The state is providing localities that sign these Level II agreements with $1,500 to assist in purchasing technical guidebooks and defensive materials. As of September 1989, 115 of Virginia's 138 jurisdictions had signed Level II agreements and approximately $172,500 had been disbursed to localities.

A certain percentage of hazardous materials incidents require sophisticated equipment and highly-technical expertise to mitigate the problem. The Level III classification provides that response capability in the form of regional hazardous materials response teams. In addition to Level I and II training, Level III certification requires an additional 200 hours of instruction. Thus far, five Level III teams have signed agreements with the Virginia Department of

Emergency Services to form a statewide hazardous materials emergency response network. The teams from Henrico County, Newport News, Portsmouth (supported by Virginia Beach, Chesapeake, and Norfolk) and composite teams from the Roanoke Valley (Roanoke County, Salem, Roanoke City) and the Upper Shenandoah Valley (Augusta County, Harrisonburg and Rockingham County) have agreed to respond to incidents within their assigned areas at the request of the Virginia Department of Emergency Services. Each team is trained sufficiently to provide, at a minimum, eight members per response. A total of $1,552,500 of state funds has been disbursed to assist in the training and equipping of these teams.

Additionally, the Commonwealth has developed a Level II Enhanced (II-E) classification to give the state better coverage in those areas that are unable to staff and train a Level III team. The Level II-E teams will be called upon to respond just as the Level III teams are and would undertake specialized Level II responses pending arrival of the Level III teams. These teams can serve as a resource to the Level III teams. Level II-E teams include: the Cities of Alexandria, Bristol, Fredericksburg, Charlottesville, and Danville as well as the Counties of Giles and Wise. The Cities of Lynchburg and Winchester are currently negotiating to join the program. A total of $405,000 has been disbursed to support the Level II-E response program.

As previously noted, the response programs for Levels II and III operate under signed agreements between the localities and the state. Localities participating as either Level II or Level III teams agree, in return for state-sponsored equipping and training, to do the following:

1. Respond at the request of the Virginia Department of Emergency Services within an assigned response area on a 24-hour-a-day basis.

2. Provide a specified number of personnel for onscene responses.

3. Complete training and refresher training.

4. Purchase and maintain necessary equipment from a provided list.

In return for this, the state agrees to:

1. Provide training to the teams at no cost to the locality.

2. Provide funding for team equipment and reimbursement of all expenses incurred while the teams are responding to an incident at the request of the state.

3. Provide team members with workers' compensation, liability coverage and, if required, legal representation.

The concept of developing these local government based teams has allowed the Commonwealth to develop a strong response program which is efficient and cost effective; but most importantly, it allows for quick responses to hazardous materials-related emergencies anywhere in the state.

It should be noted, however, that these teams are trained to deal primarily with surface transportation-related accidents (highway, rail, pipeline) or fixed facilities. Consequently, while the teams are trained to deal with these types of events and subsequent spills into creeks and small rivers, they lack the necessary training or expertise to deal with releases into navigable waters such as the James River or the Chesapeake Bay. However, releases into these types of large bodies of water are the responsibility of the Coast Guard and the Environmental Protection Agency. Thus, while these teams would not have a primary response role, they could certainly be considered as a very capable resource from which to draw trained individuals.

The November 1989 report of the Virginia Joint Committee on Spill Prevention and Response Readiness included recommendations to "define and dedicate the resources necessary to ensure adequate planning for, training for, and response to oil spill incidents". Within the context of this recommendation, they recommended that personnel within the State Water Control Board (the state's lead agency for petroleum spills) be trained at least annually in petroleum clean-up technology. In addition, it was recommended that appropriate training for state responders also be conducted so that the Commonwealth has an effective cadre to supplement federal agencies responding to these types of spills.

Recommendations concerning specific actions with regard to enhancing the Commonwealth's ability to respond to and mitigate the effects of previously-defined hazardous materials will be provided as part of the final report next year.

TRAINING

In reviewing the current status of training activities regarding hazardous materials transportation, manufacture, and storage, an attempt was made to categorize the information into two groups. These two categories were training standards for public safety personnel involved in potential responses to hazardous materials incidents and training standards for business/industry workers involved in hazardous materials-related activities.

In 1988 alone, some 7,472 students representing a cross section of public safety personnel (fire, rescue, law enforcement, public works, etc.) took part in Virginia's multi-level hazardous materials training program. The training program includes four levels of instruction: Awareness and Recognition Training (Level I 16 hours), Defensive Techniques Training (Level II - 40 hours), Control and Abatement Training (Level III - 200 hours), and Operational Command and Management Training (Level IV - 40 hours). Levels I and II training are provided through the Virginia Department of Fire Programs and Levels III and IV are provided through the Virginia Department of Emergency Services.

As a result of recommendations contained in the 1986 Final Report of the Hazardous Materials Task Force, the training programs have been designed and implemented to provide training for public safety personnel where it is most needed. The report and subsequent training programs indicated that all public safety first responders (police, fire, and rescue) should receive, at a minimum, Level I training. This will provide a basis where potential hazardous materials involvement can be recognized by initial responders, thus allowing appropriate emergency protective actions to be initiated. These actions can help to minimize exposure of response personnel and citizens as well as to allow for quicker response from specially-trained hazardous materials teams.

The task force also identified the need for selected fire, law enforcement, and rescue personnel to have Level II training. The subsequent training programs are designed to provide these response personnel with not only the ability to recognize hazardous materials involvement but also to possess sufficient expertise to initiate defensive (containment) measures pending the arrival of Level III response personnel. This training program recognizes that these

response personnel would not normally be engaged in controlling an incident, but might be confronted with a situation which would require they take some action.

It should be noted that the Division of Emergency Medical Services (EMS), Department of Health, has developed a modified Level II program, primarily for emergency medical personnel. This program is oriented towards providing medical care to patients contaminated by hazardous materials and includes measures for protecting care givers and their equipment. Funds designated for training under the auspices of the Hazardous Materials Emergency Response Program have been provided to EMS to support this effort.

Level III training was recommended by the task force for all members of the previously-mentioned regional response teams. This training is considered to be of the highest level and provides the teams with sufficient expertise to not only contain a spill or leak but also to mitigate it. All regional response teams have received or are in the process of receiving Level III training.

A training program has also been initiated for those who are in the command and control function of a hazardous materials incident. This program, Level IV, provides instruction in the principles of planning for and commanding such an operation. Typically, students of this program are administrative- or management-level personnel.

The aforementioned training programs have included private industry personnel. Many of the larger manufacturing facilities in the Commonwealth possess their own fire and rescue squad brigades. These groups are typically responsible for dealing with emergencies within the confines of their facilities. However, these individuals are required to have the same levels of training as their public safety counterparts and, in fact, many also serve with fire and rescue organizations in their communities. Consequently, training programs are providing a response capability within the confines of Virginia's manufacturing industry. In addition, some of Virginia's industrial facilities have specialized response teams which will respond offsite to deal with emergencies involving their products. While some of these teams may not be directly trained through the Commonwealth's hazardous materials training program, the national standardization of response techniques allows them to work effectively with state and local response personnel.

Implementation of Levels I and II training programs has been effective. The Department of Fire Programs, as the lead training agency, has worked with the Department of Criminal Justice Services and the Virginia Association of Volunteer Rescue Squads to provide training to fire, law enforcement, and rescue personnel. The emphasis on hazardous materials within these communities has created the desire to receive this training. However, the ever changing world of hazardous materials response will require a continued and dedicated effort to ensure response personnel stay informed. Additionally, continuing efforts need to be made to provide this training to those still untrained, particularly in the volunteer fire and rescue communities where training activities compete for available time of the emergency response personnel.

Implementation of Levels III and IV training programs with the Department of Emergency Services as the lead agency has also been effective. Regional response teams have received or are in the process of receiving Level III training and at least one individual from most of the Commonwealth's 138 political subdivisions has received Level IV training necessary for development of federally-required emergency response plans. It should be noted that while the Department of Emergency Services has been the lead agency, personnel from other state and federal agencies as well as the private sector have been utilized in the teaching process so as to ensure the highest level of instruction.

The final report will include recommendations, if warranted, designed to enhance the ability of the Commonwealth to provide training designed to educate public and private sector personnel in responding to hazardous materials emergencies.

Training standards for industry/business personnel involved in the transportation, manufacture, and storage of hazardous materials do exist. The State Department of Labor and Industry is Virginia's lead agency in the regulation of safety and health activities for workers in both the public and private sectors. The Commonwealth has adopted national standards (Federal Occupational Safety and Health Act of 1970, Public Law 91-596) which serve as the basis for the Department's regulatory activities.

The Department, in the role of a regulatory agency, does not provide, for the most part, training for workers involved in the handling of hazardous materials. They do, however, maintain listings of training

sessions being conducted for workers by the Occupational Safety and Health Administration (federal) as well as private consultants. Ensuring that workers handling hazardous materials have appropriate training comes under the purview of the Department. Some of the more significant regulations follow.

Hazardous Waste Operations and Emergency Response Standard: (Effective March 6, 1990)

The standard requires all employers involved in the clean up, abatement, mitigation, and/or emergency response to situations involving hazardous substances or hazardous wastes as defined under the Comprehensive Emergency Response, Compensation, and Liability Act (federal) or the U.S. Department of Transportation's Hazardous Materials Transportation Act to provide workers with certain minimum levels of training. At minimum, workers are generally required to take 40 hours of offsite training combined with three days of actual field training before they are allowed to work on sites where they may be exposed to hazardous substances or health hazards. If monitoring and evaluation of a site indicate exposure levels are below permissible limits and the threat of any emergency developing is minimal, then these standards may be reduced to 24 hours of offsite training with one day actual field experience. The aforementioned training generally involves personal protective actions for workers combined with safety and handling guidelines.

Occupational Safety and Health Administration's Hazardous Waste Operations and Emergency Response Standard: (Present Rule)

This is the current standard for employers involved in the cleanup, abatement, mitigation, and/or emergency response to situations involving hazardous substances or hazardous wastes, as defined under the Comprehensive Emergency Response, Compensation, and Liability Act (federal) or the U.S. Department of Transportation's Hazardous Materials Transportation Act to provide workers with certain minimum levels of training. The training requirements, in terms of length of time, follow closely that of the standard which becomes effective in March 1990. The new rule, however, will strengthen the current training standards.

Virginia Confined Space Standard for General Industry and the Construction Industry/Virginia Confined Space Standard for the Telecommunications Industry:

These standards provide the requirements for workers involved in activities in confined spaces where the presence of a hazardous atmosphere may cause the potentials for illness, injury, disablement, or death. Training in the use of respirators, hazard recognition, and personal protection is required. However, there are no training time requirements outlined in the standard.

As previously noted, the Commonwealth has adopted the OSHA Standards for General Industry as the basis for regulation of safety and health standards for workers in Virginia. These standards include significant regulations concerning the use and handling of hazardous materials in the workplace. Consequently, it is necessary for many businesses to train their employees in the safe handling, use, storage, and transportation of hazardous materials so as to ensure compliance with the law. In addition, increasing insurance rates are forcing businesses to implement safety programs for employees so as to help minimize the potential for accidents and subsequent insurance claims.

It would be unwise to conclude that the mere presence of regulations or increasing insurance rates will ensure that workers are trained in the safe use of hazardous materials. Recent events in the state such as the AVTEX Fibers Plant in Front Royal have shown that the regulations may not always be adhered to. The end result can be accidental releases of hazardous materials and wastes which can injure and kill workers and the general population; and in the case of the Front Royal Plant, have a significant negative impact on the environment.

The transportation of hazardous materials, particularly by highway, has received wide attention because transportation-related accidents generally gain a great deal of media coverage. The U.S. Department of Transportation's Hazardous Materials Transportation Act contains regulatory requirements concerning hazardous materials transportation. As with OSHA requirements, the transportation industry must provide training to their personnel in order to ensure compliance with provisions of the Act. However, this by no means ensures that shippers carrying hazardous materials are trained to deal with the materials. In many cases hazardous

materials are loaded and off-loaded by appropriately-trained personnel and then turned over to the shipper. Consequently, the shipper may know that they are transporting a hazardous material but have no knowledge of how to deal with it should an accident occur.

In January 1990, new federal legislation will take effect requiring truck drivers to obtain specialized commercial drivers' licenses. Currently, the only requirement to obtain a license to drive a truck in Virginia is that an applicant obtain a chauffeur's license with an endorsement to drive a truck. It is likely that these new license requirements will require additional training for truckers. When California implemented this program this year (the first state to do so), nearly 35 percent of the applicants failed the test on their first try. For those transporting hazardous materials additional testing will be necessary. While the new licenses will not ensure total trucking safety, they will provide an increased awareness on the part of drivers to the hazards faced on the road. In addition, the testing program should help to screen out the operators who lack the knowledge and expertise required to be a professional driver.

Of parallel interest is the licensing requirements for shipping vessels in Virginia's waters. Pilots of commercial vessels operating in navigable waters of the Commonwealth are required to be licensed by the U.S. Coast Guard. In most cases, when a vessel enters Virginia waters it takes on a commercial pilot from the Virginia Pilot Association (VPA) who is more familiar with the waterways and thus better qualified to operate the vessel with a higher degree of safety. There are cases, though, when a VPA pilot may not be taken on and the vessel is operating in Virginia waters with a pilot unfamiliar with the waterway. In light of the Exxon Valdez accident, the Coast Guard is currently studying requirements for pilot training and subsequent licensing. The end result could be that the Commonwealth will be in a position to set training and licensing requirements for boat pilots, particularly for inland waters.

The railroad industry has recognized the necessity of safety and training standards. The inherent risks posed to workers by the size and mechanical complexity of railroad cars, require that personnel receive annual safety training. This training includes sections dealing with the movement of hazardous materials by rail.

The second phase of this report will include any specific actions with regard to enhancing the Commonwealth's ability to provide training designed to educate public and private sector personnel in both the response to emergencies and the safe transport, manufacture, and storage of hazardous materials.

SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986 - SARA TITLE III

On October 17, 1986, the "Superfund Amendments and Reauthorization Act of 1986" (SARA) was signed into law. One part of the new SARA provision is Title III: the Emergency Planning and Community Right-to-Know Act of 1986. Title III requires states to establish the process for developing local chemical emergency preparedness programs and to receive and disseminate information on hazardous chemicals present in local communities and the release of certain toxic chemicals into the environment .

Title III is being implemented in Virginia by the Virginia Emergency Response Council (VERC). The Council was appointed by Governor Baliles in April 1987. The Executive Director, Department of Waste Management, Cynthia V. Bailey, was designated to serve as chair. The 1987 Session of the Virginia General Assembly acknowledged the state's role and responsibility in this area with the passage of HB 1172, the Virginia Hazardous Materials Emergency Response Program, which established the VERC. Apart from Title III implementation, the Hazardous Materials Emergency Response Program is being implemented by the Department of Emergency Services.

The requirements of Title III mandate that the VERC become responsible for and, in some instances, coordinate a number of new activities including emergency planning, emergency response notification, community right-to-know reporting, and toxic chemical release reporting. In particular, the community right-to-know provisions are intended to increase the public's knowledge and access to information on the presence of hazardous chemicals in their communities and the release of certain toxic chemicals into their environment .

Provisions of the Act

Title III has four major components: emergency planning (Sections 301-303), emergency release notification (Section 304), community right-to-know reporting (Sections 311 and 312), and toxic chemical release reporting (Section 313).

Sections 301-303

Section 301 requires the VERC to designate emergency planning districts within Virginia to facilitate the preparation and implementation of emergency plans required under Section 303. In addition, Section 310 requires the VERC to appoint a Local Emergency Planning Committee (LEPC) in each of those districts. The VERC has designated 114 emergency planning districts and committees.

Section 302 requires any facility that produces, uses, or stores any of the substances on the list of extremely hazardous substances (EHSs) in quantities equal to or greater than the established threshold planning quantity to notify the VERC. If the facility is covered by this section, the owner/operator of the facility should have notified the VERC by May 17, 1987. After May 17, 1987, the owner/operator must notify the VERC and the LEPC within 60 days if an extremely hazardous substance becomes present at the facility in a quantity that equals or exceeds the established threshold planning quantity. To date, 1,197 facilities have notified the VERC that they are subject to the emergency planning requirements of SARA Title III; however, facilities are not required to report which EHS is present at their facility under Section 302 (see Appendix D for a current listing of these facilities). A covered facility must designate a facility representative to participate in the planning process at the local level. In addition, the facility owner/operator must submit additional information to the LEPC upon request and keep that group informed of any relevant changes occurring at the facility.

Section 303 required each local planning committee to prepare an emergency response plan by October 17, 1988, and review it at least annually thereafter. In developing this plan, the local committee evaluates available resources for preparing for and responding to a potential chemical accident. Each plan must: identify facilities and transportation routes of extremely hazardous substances; describe emergency response procedure, onsite and offsite; designate a community coordinator and facility coordinator(s) to implement the plan; outline emergency notification procedures; describe methods for determining the occurrence of a release and the probable affected area and population; describe community and industry equipment and facilities and identify persons responsible for them; outline evacuation plans; describe a training program for emergency

response personnel (including schedules); and present methods and schedules for exercising emergency response plans.

The VERC is responsible for reviewing the emergency response plans. To date, 67 of the 114 LEPCs have submitted plans; 29 have met the minimum requirements outlined in the statute. As of July 1, 1989, two positions in the Department of Emergency Services have been dedicated full-time to review local emergency response plans. Technical assistance is available to aid those communities that are not yet in compliance with the law.

Section 304

Under Section 304, the owner/operator of a facility must immediately notify the VERC, the LEPC, and the National Response Center when a release of a listed hazardous substance occurs which is not federally permitted and which exceeds the reportable quantity established for that substance and results in exposure to persons offsite. Section 304, unlike other reporting requirements of the law, does apply to transportation incidents. Substances subject to this notification requirement include those on EPA's list of 366 extremely hazardous substances and the 719 hazardous substances subject to the emergency notification requirements under Section 103(a) of CERCLA (those designated under Section 110(14) of CERCLA). The VERC has designated the Department of Emergency Services to receive all initial notifications of reportable releases under SARA Title III in Virginia. Notification must also be given to the LEPC's community emergency coordinator. In addition, notification must also be given to the National Response Center in Washington, D.C. The notification must include the following information: chemical identity; whether it is an extremely hazardous substance; amount released; time and duration of release; environmental media into which the release occurred; known or anticipated acute or chronic risks and advice regarding medical attention necessary for exposed individuals; precautions to be taken, such as evacuation; and the name and telephone number of contact person.

Additionally, Section 304 requires that the owner/operator provide a written follow-up emergency notice as soon as practicable after the release. This should include: an update of the information included in the initial release notification; information on actions taken to respond to and contain the release; any known or

anticipated acute or chronic health risks associated with the release; and, where appropriate, advice regarding medical attention necessary for exposed individuals.

Since August 1987, the VERC has received 100 immediate and/or written follow-up notifications: 6 in 1987; 27 in 1988; and 67 in 1989. A pending project by the VERC staff will compare both the written follow-up reports received by the VERC and the incident reports filed by the Department of Emergency Services following a response. The analysis will focus on compliance with SARA Section 304 and CERCLA Section 103(a) reporting requirements, the types of incidents (e.g., fixed facility or transportation), and the chemical substances involved most frequently. An analysis of release notifications for extremely hazardous substances completed as part of this project is included in Appendix J, which illustrates that several of the listed chemicals (sulfur dioxide, sulfuric acid, ammonia, and chlorine) account for almost 50 percent of the notifications. Appendix K provides a summary of the notifications in chronological order. Some of the 100 notifications received are for releases that are not subject to the requirements of Section 304. For instance--in some cases, the release does not result in exposure offsite. In other instances, the amount released does not meet the required reportable quantity.

Sections 311-312

There are two community right-to-know reporting requirements under SARA Title III. Section 311 requires the owner/operator of a facility, which must prepare or have available Material Safety Data Sheets (MSDSs) under the Occupational Safety and Health Administration (OSHA) Hazard Communications Standard regulations, to submit either copies of its MSDSs or a list of MSDS chemicals to the VERC, the LEPC, and the local fire department. Section 312 requires an annual inventory of those chemicals reported under Section 311 be submitted to the same organizations every March 1. At present, the VERC has received reports under Sections 311 and 312 from 5,007 facilities; a facility tracking data base currently stores facility identification information and a record of reports submitted. A chemical inventory is not yet completely entered into the data base.

Reports under Section 311 must include information on "hazardous chemicals," as defined by the OSHA physical and health hazard

categories. Hazardous chemicals present in amounts equal to or greater than the 10,000 pound interim threshold amount must be reported; EPA is currently considering the permanent threshold level. Because this reporting requirement is based on the properties of the chemical, there is no list of OSHA "hazardous chemicals" which must be reported; as many as 575,000 to 750,000 products may fit the definition. When SARA Title III was passed in 1986, OSHA's regulations applied only to manufacturers. OSHA has since expanded its hazard communications standard to include most facilities where workers are exposed to hazardous chemicals.

Before the expansion in the hazard communication standard, about 350,000 facilities were covered by OSHA; now an estimated 4.5 million are covered. Because the requirements of Title III are tied to those of OSHA, in Virginia the number of facilities reporting under Title III will likely increase from approximately 5,000 in 1989 to over 70,000 during the next two years as facilities become aware of their new responsibilities. To date, it is estimated that the VERC has received 22,000 MSDSs (each contains four pages) requiring storage in 11 file cabinets.

In addition, the Section 311 reports must include information on "extremely hazardous substances" present in amounts equal to or greater than 500 pounds or the established threshold planning quantity for that substance, whichever is lower. The initial submission deadline was October 17, 1987, for all manufacturing facilities and, following the expansion of the hazard communication standard, the submission deadline for nonmanufacturers was September 24, 1988.

The reporting requirement for Section 312 requires facilities to submit an emergency and hazardous chemical inventory form to the VERC, the LEPC, and the local fire department. The hazardous chemicals covered by Section 312 are the same chemicals for which facilities are required to submit MSDSs or a list of MSDS chemicals under Section 311. Facilities can report either using the Tier One form or the Tier Two form as developed by EPA; however, a Tier One is the minimum form required under the law (see Appendix E).

Under Tier One, facilities must submit the following aggregate information for each health and physical hazard category established by the EPA: an estimate (in ranges) of the maximum amount of chemicals for each category which were present at the facility at

any time during the preceding calender year; and estimate (in ranges) of the average daily amounts of chemicals in each category; and the general location of hazardous chemicals in each category. Tier One information should have been submitted on or before March 1, 1988, and annually thereafter on March 1.

Each reporting facility has the option of completing the more detailed Tier Two form in lieu of the required Tier One. The Tier Two form can also be requested by the VERC, the LEPC, or the local fire department if more information is required. The information contained in the Tier Two form includes: the chemical name or the common name of the chemical being reported; the applicable health and physical categories; an estimate (in ranges) of the maximum amount of the hazardous chemical present at the facility during anytime in the preceding calendar year; an estimate (in ranges) of the average daily amount of the hazardous chemical present at the facility during the preceding calendar year; and a brief description of the manner of storage of the hazardous chemical. Information regarding the storage location of the chemical may be claimed as confidential by the owner/operator.

Section 313

Section 313 requires certain manufacturing facilities to submit reports annually on July 1 on the amounts of toxic chemicals their facilities release into the environment. These reports are submitted to the appropriate state agency (in Virginia, the VERC) and EPA only. The purpose of this reporting requirement is to inform the public and government officials about routine releases of toxic chemicals into the environment. The list of toxic chemicals subject to reporting includes 304 chemicals and 20 chemical compound categories. Some of the chemicals appear also on the EHS and/or CERCLA lists. Fifty-six are on both the Sections 302 and 313 list. Two hundred and fourteen are on both the CERCLA 101(14) and SARA Section 313 lists (see Appendices F and G).

The Section 313 reporting requirement applies to owners/operators of facilities that are in the Standard Industrial Classification (SIC) Codes 20-39, that have ten or more full-time employees, and that manufacture, process, or otherwise use a listed toxic chemical in excess of specified threshold amounts.

Facilities otherwise using listed toxic chemicals in quantities over 10,000 pounds in a calendar year are required to submit a report by July 1 of the following year. Facilities manufacturing or processing any of the listed chemicals in excess of 75,000 pounds in 1987 were to have reported by July 1, 1988. Facilities manufacturing or processing in excess of 50,000 pounds in 1988 were to have reported by July 1, 1989; thereafter, facilities manufacturing or processing more than 25,000 pounds in a year are required to submit a report annually by July 1.

EPA has developed a form, the Toxic Chemical Release Form R, to be used by facilities when reporting (see Appendix H). The following information is required on the form: facility identification information; offsite locations to which the facility transfers toxic chemicals in waste; whether the chemical is manufactured, processed, or otherwise used and the general categories of the use of the chemical; an estimate (in ranges) of the maximum amount of the toxic chemical present at the facility at any time during the preceding calendar year; quantity of the chemical entering each medium (air, water, land) annually; waste treatment/disposal methods and efficiency of methods for each waste stream; optional information on waste minimization; and a certification by a senior facility official that the report is complete and accurate.

In 1988, 390 facilities submitted 1,424 Section 313 reports for calendar year 1987. In 1989, 418 facilities had submitted 1,560 reports for 1988. The 1988 release data is currently being entered into a data base to facilitate analysis and retrieval at the state level (see Appendix I for a summary of release information).

Public Availability of Title III Information

The information submitted by facilities under Sections 304, 311, 312, and 313 must generally be made available to the public by the VERC and the LEPCs.

Receipt, Storage, and Analysis of Data

In 1987, the VERC recognized that successful implementation of SARA Title III in Virginia would require a computer-assisted retrieval system. On November 16, 1988, the VERC adopted the Emergency Information System/Chemical version (EIS/C) software, developed by Research Alternatives, Inc., as the state standard for

computer software for the implementation of SARA Title III in the Commonwealth. By promoting statewide adoption of this software, the VERC hopes to create a network of EIS/C users and facilitate a more thorough analysis of submitted data.

EIS/C, a map driven system, is a joint development effort of emergency responders and planners and complies with all the provisions of SARA Title III. EIS/C has a complete chemical inventory data base, Tier One and Tier Two reporting formats, plus all of the required mapping capabilities for emergency planning.

Other relevant features of the software include: the resource inventory program which tracks and maps government and facility resources; a special emergency needs program which identifies the locations of hospitals, nursing homes, schools, and other facilities or individuals who may need help in a chemical incident; the site characterization program which summarizes facts about each chemical facility and provides quick reference information for emergency response personnel; the chemical inventory program which provides complete lists of chemicals at each facility; the hazards analysis program which summarizes the population at risk from a release, important facilities and preplanning information; and a personal resources program which allows the user to recall Incident Command Staff. An add-on communications module for the EIS/C software has been developed which will allow the rapid exchange of data, plans, maps and graphics to provide fast decision support for onscene responders and executive decision-makers.

The VERC staff has begun entering the hazardous chemical inventory information submitted by facilities under Section 312. A local area network and an additional full-time staff member are facilitating data entry. In addition, the purchase of the Occupational Health Service's MSDS ON DISC software will provide generic information on over 9,800 hazardous chemicals. Given the volume of material being entered, it is difficult to assess when this initial data entry phase will be complete. Currently, 12 localities have adopted the EIS/C system.

REGIONAL TRANSPORTATION ROUTES

As previously noted in this report, transportation of hazardous materials is regulated under Section 49, Code of Federal Regulations. These regulations provide for the transport of these materials by the most direct and safest available routes so as to minimize the potential impact on the population. The regulations are intended to allow for the safe movement of these hazardous materials while protecting a shipper's right to conduct interstate and intrastate state commerce.

As the Commonwealth has adopted Section 49, Code of Federal Regulations, as the standard for transportation of hazardous materials within and through the state, any routing requirements placed on shippers cannot be inconsistent with these federal regulations. Several states, to include Colorado and Ohio, have initiated routing programs for the transportation of hazardous materials. These programs are designed to restrict the travel of shippers carrying hazardous materials to routes which have been predetermined to be the safest available routes for moving the materials.

The routing program in Colorado is generally thought to be consistent with federal regulations. In fact, the Department of Transportation has reportedly looked towards that state as the model for others to follow. As was noted earlier the State Patrol, which is a subelement of the the Colorado Department of Highways, actually designates hazardous materials routes through the authority of the State Hazardous Materials Transportation Act of 1987.

The process involves the State Patrol's receipt of route designation petitions from authorized applicants to include cities and counties for any public road maintained within their jurisdictions as well as the Colorado Department of Highways for any road it maintains outside incorporated places, at the request of a municipality for any road maintained by the state within that jurisdiction.

The petitioning packet must identify the businesses known to be reliant on hazardous materials transportation and which would be affected by the designation.

Route designations are not applicable to vehicles carrying gasoline, diesel fuel, or liquified petroleum gas unless requested by the petitioner. Each petition can request various route restrictions, closings of streets and highways, and other conditions with the exception of hours of operation and curfews. Vehicles going to or from a farm and carrying hazardous materials are exempt.

The Patrol utilizes the following factors in determining route designations:

- It must be feasible, practical, and cost effective.
- Must be continuous, both within and between jurisdictions.
- Be safer than other feasible routes.
- Must not be unreasonably burdensome to intrastate or interstate commerce.
- Must not be arbitrary or intended merely to divert hazardous materials to other communities.
- Should not interfere with the pickup or delivery of hazardous materials.
- Must be consistent with all federal laws and regulations.

The Patrol is required to inform applicable local governments by certified letter and citizenry by public notice of the intended route designation and then must hold an informal public hearing. If there is no opposition and the Patrol deems it appropriate, the route designation may be approved. Should there be opposition, the Patrol must hold a formal public hearing in order to resolve any conflicts. Final designation authority rests with the State Patrol and must be undertaken within six months of receipt of the application.

A similar route designation program could work in Virginia. However, Virginia's road network is considerably larger than that of Colorado's and thus would require more effort and work. A major portion of the designation activity is the identification of the safest available routes. As noted earlier, a risk analysis program, based on all available data, would be required to undertake this part of program implementation.

As part of the second phase of this report, a comprehensive plan will be developed which could be used as the foundation for establishment of a statewide hazardous materials routing program.

APPENDIX A

CHEMICALS COMMON TO CERCLA 101(14)
SARA TITLE III SECTION 302

CHEMICAL NAME	CAS NUMBER
Formaldehyde	50000
Mitomycin C	50077
Nicotine	54115
Isofluorphate	55914
Parathion	56382
Coumaphos	56724
Dimethylhydrazine	57147
Strychnine	57249
Chlordane	57749
Lindane	58899
Methylhydrazine	60344
Dimethoate	60515
Phenylmercury acetate	62384
Aniline	62533
Dichlorvos	62737
Sodium fluoroacetate	62748
Nitrosodimethylamine	62759
Chloroform	67663
Endrin	72208
Methyl bromide	74839
Hydrocyanic acid	74908
Methyl mercaptan	74931
Carbon disulfide	75150
Ethylene oxide	75218
Phosgene	75445
Propyleneimine	75558
Propylene oxide	75569
Acetone cyanohydrin	75865
Hexachlorocyclopentadiene	77474
Dimethyl sulfate	77781
Tetraethyllead	78002
Acrylamide	79061
Thiosemicarbazide	79196
Methyl chloroformate (Methylchlorocarbonate)	79221
Warfarin	81812
Azinphos-methyl	86500
Antu	86884
Dinoseb	88857
Toluene 2,6-diisocyanate	91087
o-Cresol	95487
Benzotrichloride	98077
Benzal chloride	98873
Nitrobenzene	98953
Benzyl chloride	100447
Phenylthiourea	103855
Epichlorohydrin	106898
Acrolein	107028
Propionitrile	107120
Acrylonitrile	107131
Ethylenediamine	107153
Allyl alcohol	107186

CHEMICALS COMMON TO CERCLA 101(14)
SARA TITLE III SECTION 302

CHEMICAL NAME	CAS NUMBER
Chloromethyl methyl ether	107302
Tepp	107493
Vinyl acetate monomer	108054
Phenol	108952
Thiophenol	108985
Malononitrile	109773
Furan	110009
Dichloroethyl ether	111444
Endosulfan	115297
Aldicarb	116063
Crotonaldehyde, (E)-	123739
Methacrylonitrile	126987
Pyrene	129000
Sodium cyanide (Na(CN))	143339
Potassium cyanide	151508
Ethyleneimine	151564
Diphosphoramide, octamethyl-	152169
Thionazin	297972
Parathion-methyl	298000
Phorate	298022
Disulfoton	298044
Hydrazine	302012
Aldrin	309002
Mexacarbate	315184
Isodrin	465736
Pyridine, 4-amino-	504245
Potassium silver cyanide	506616
Cyanogen bromide	506683
Tetranitromethane	509148
Dinitrocresol	534521
Dithiobiuret	541537
Propionitrile, 3-chloro-	542767
Chloromethyl ether	542881
Ethion	563122

APPENDIX B

SARA TITLE III SECTION 302 CHEMICALS REPORTED BY VIRGINIA FACILITIES

CAS NUMBER	CHEMICAL NAME	NUMBER FACILITIES REPORTING
50000	Formaldehyde	264
50146	Ergocalciferol	2
54626	Aminopterin	1
56724	Coumaphos	1
58366	Phenoxarsine, 10,10'-oxydi-	2
58899	Lindane	6
62384	Phenylmercury acetate	4
62737	Dichlorvos	3
67663	Chloroform	10
74839	Methyl bromide	1
74908	Hydrocyanic acid	2
74931	Methyl mercaptan	3
75150	Carbon disulfide	7
75183	Dimethyl sulfide	2
75218	Ethylene oxide	4
75445	Phosgene	1
75558	Propyleneimine	2
75569	Propylene oxide	7
77781	Dimethyl sulfate	1
79061	Acrylamide	3
79118	Chloroacetic acid	2
79196	Thiosemicarbazide	1
81812	Warfarin	1
88857	Dinoseb	1
95487	o-Cresol	2
98953	Nitrobenzene	1
106898	Epichlorohydrin	9
107028	Acrolein	1
107119	Allylamine	1
107131	Acrylonitrile	20
107153	Ethylenediamine	7
107186	Allyl alcohol	2
108054	Vinyl acetate monomer	13
108918	Cyclohexylamine	39
108952	Phenol	30
111444	Dichloroethyl ether	1
115297	Endosulfan	1
116063	Aldicarb	2
123319	Hydroquinone	193
124652	Sodium cacodylate	1
131522	Sodium pentachlorophenate	3
143339	Sodium cyanide (Na(CN))	27
151508	Potassium cyanide	18
298022	Phorate	2
298044	Disulfoton	21
302012	Hydrazine	10
506616	Potassium silver cyanide	2
584849	Toluene 2,4-diisocyanate	6
624920	Methyl disulfide	2
732116	Phosmet	2
950378	Methidathion	5

APPENDIX B (continued)

SARA TITLE III SECTION 302 CHEMICALS REPORTED BY VIRGINIA FACILITIES

CAS NUMBER	CHEMICAL NAME	NUMBER FACILITIES REPOR
1303282	Arsenic pentoxide	5
1306190	Cadmium oxide	4
1314563	Phosphorus pentoxide	4
1314621	Vanadium pentoxide	1
1314847	Zinc phosphide	1
1563662	Carbofuran	16
2231574	Thiocarbazide	1
2238075	Diglycidyl ether	2
4098719	Isophorone diisocyanate	1
6923224	Monocrotophos	6
7446095	Sulfur dioxide	15
7446119	Sulfur trioxide	240
7487947	Mercuric chloride	3
7550450	Titanium tetrachloride	1
7637072	Boron trifluoride	1
7647010	Hydrochloric acid (Hydrogen chloride (gas only))***	194
7664393	Hydrogen fluoride	45
7664417	Ammonia	166
7664939	Sulfuric acid	250
7697372	Nitric acid	107
7719122	Phosphorus trichloride	2
7722841	Hydrogen peroxide (Conc >52%)	85
7723140	Phosphorus	203
7726956	Bromine	2
7782414	Fluorine	18
7782505	Chlorine	44
7783008	Selenous acid	1
7783064	Hydrogen sulfide	5
7784421	Arsine	3
7803512	Phosphine	6
8001352	Toxaphene (Camphechlor)	25
10025737	Chromic chloride	1
10025873	Phosphorus oxychloride	2
10031591	Thallium sulfate	1
10102188	Sodium selenite	8
10102439	Nitric oxide	2
10102440	Nitrogen dioxide	1
10294345	Boron trichloride	2
13071799	Terbufos	3
13194484	Ethoprophos	10
13494809	Tellurium	7
16752775	Methomyl	3
20859738	Aluminum phosphide	1
21908532	Mercuric oxide	1
26628228	Sodium azide (Na(N3))	5

APPENDIX C

CERCLA SECTION 101(14) CHEMICALS REPORTED BY VIRGINIA FACILITIES

CAS NUMBER	CHEMICAL NAME	NUMBER FACILITIES REPORTING
50000	Formaldehyde	366
51796	Carbamic acid, ethyl ester	3
55630	Nitroglycerine	23
56235	Carbon tetrachloride	9
56724	Coumaphos	1
57125	Cyanides (soluble cyanide salts)	7
58899	Lindane	6
58902	Phenol, 2,3,4,6-tetrachloro-	1
60004	Ethylenediamine tetraacetic acid (EDTA)	14
60297	Ethane, 1,1'-oxybis-	10
60515	Dimethoate	5
62384	Phenylmercury acetate	9
62566	Carbamide, thio-	6
62737	Dichlorvos	2
63252	Carbaryl	11
64186	Formic acid	71
64197	Acetic acid	271
65850	Benzoic acid	5
67561	Methanol	776
67641	Acetone	639
67663	Chloroform	10
71363	1-Butanol	479
71432	Benzene	13
71556	Methyl chloroform	364
72435	Ethane, 1,1,1-trichloro-2,2-bis(p-methoxyphenyl)-	8
72571	Trypan blue	1
74839	Methyl bromide	1
74873	Methane, chloro	8
74931	Methyl mercaptan	3
75003	Chloroethane	2
75014	Vinyl chloride (monomer)	10
75047	Monoethylamine	6
75058	Acetonitrile	1
75070	Acetaldehyde	1
75092	Methane, dichloro-	286
75150	Carbon disulfide	7
75207	Calcium carbide	8
75218	Ethylene oxide	4
75354	1,1-Dichloroethylene	1
75365	Acetyl chloride	1
75445	Phosgene	1
75503	Trimethylamine	1
75558	Propyleneimine	2
75569	Propylene oxide	8
75694	Methane, trichlorofluoro-	27
75718	Dichlorodifluoromethane	47
75990	2,2-Dichloropropionic acid	1
77781	Dimethyl sulfate	1
78591	Isophorone	17
78831	Isobutyl alcohol	191
78875	1,2-Dichloropropane	4

APPENDIX C (continued)

CERCLA SECTION 101(14) CHEMICALS REPORTED BY VIRGINIA FACILITIES

CAS NUMBER	CHEMICAL NAME	NUMBER FACILITIES REPORTING
78933	2-Butanone	711
79005	Ethane, 1,1,2-trichloro-	2
79016	Trichloroethylene	59
79061	Acrylamide	1
79094	Propionic acid	6
79107	Acrylic acid	12
79196	Thiosemicarbazide	1
79469	2-Nitropropane	1
80159	alpha,alpha-Dimethylbenzylhydroperoxide	18
80626	Methyl methacrylate	17
81072	1,2-Benzisothiazolin-3-one,1,1-dioxide, and salts	15
81812	Warfarin	1
84662	1,2-Benzenedicarboxylic acid, diethyl ester	8
84742	Dibutyl phthalate	84
85449	1,2-Benzenedicarboxylic acid anhydride	12
85687	Butyl benzyl phthalate	15
87865	Pentachlorophenol	7
88857	Dinoseb	1
91203	Naphthalene	8
91225	Quinoline	1
94597	Benzene, 1,2-methylenedioxy-4-allyl-	1
94757	2,4-D Acid	46
95476	Benzene, o-dimethyl-	10
95487	o-Cresol	2
95534	o-Toluidine	2
96457	Ethylenethiourea	2
98099	Benzenesulfonyl chloride	1
98828	Benzene, 1-methylethyl-	1
98862	Acetophenone	2
98953	Nitrobenzene	1
99558	Benzenamine, 2-methyl-5-nitro-	1
100027	p-Nitrophenol	3
100414	Ethylbenzene	80
100425	Styrene	56
101144	Benzenamine, 4,4'-methylenebis(2-chloro-	3
105464	sec-Butyl acetate	33
106423	Benzene, p-dimethyl-	20
106445	p-Cresol	2
106467	Benzene, 1,4-dichloro-	2
106514	p-Benzoquinone	6
106898	Epichlorohydrin	8
107051	Allyl chloride	1
107062	1,2-Dichloroethane	9
107108	1-Propanamine	1
107131	Acrylonitrile	22
107153	Ethylenediamine	8
107186	Allyl alcohol	2
108054	Vinyl acetate monomer	14
108101	Methyl isobutyl ketone	445
108247	Acetic anhydride	4
108316	2,5-Furandione	4

CERCLA SECTION 101(14) CHEMICALS REPORTED BY VIRGINIA FACILITIES

CAS NUMBER	CHEMICAL NAME	NUMBER FACILITIES REPORTING
108463	1,3-Benzenediol	9
108883	Benzene, methyl-	1248
108907	Benzene, chloro-	9
108941	Cyclohexanone	80
108952	Phenol	32
109068	2-Picoline	1
109739	Butylamine	15
109897	Diethylamine	6
109999	Furan, tetrahydro-	24
110167	Maleic acid	11
110190	iso-Butyl acetate	84
110805	2-Ethoxyethanol	113
110827	Benzene, hexahydro-	29
110861	Pyridine	4
111444	Dichloroethyl ether	1
115297	Endosulfan	1
116063	Aldicarb	2
117817	1,2-Benzenedicarboxylic acid,[bis(2-ethylhexyl)]ester	137
117840	Dioctyl phthalate	182
120127	Anthracene	1
120821	1,2,4-Trichlorobenzene	5
121142	Benzene, 1-methyl-2,4-dinitro-	1
121299	Pyrethrins	1
121448	Triethylamine	37
121755	Malathion	11
123864	Butyl acetate	132
123911	1,4-Diethylene dioxide	23
123922	iso-Amyl acetate	1
124049	Adipic acid	5
127184	Ethene, 1,1,2,2-tetrachloro-	82
127822	Zinc phenolsulfonate	1
131113	Dimethyl phthalate	23
133062	Captan	4
137268	Bis(dimethylthiocarbamoyl)disulfide	14
140885	Ethyl acrylate	3
141786	Acetic acid, ethyl ester	140
142712	Cupric acetate	2
142847	Dipropylamine	1
143339	Sodium cyanide (Na(CN))	38
151508	Potassium cyanide	19
298022	Phorate	2
298044	Disulfoton	20
300765	Naled	2
301042	Acetic acid, lead salt	1
302012	Hydrazine	13
330541	Diuron	1
333415	Diazinon	9
506616	Potassium silver cyanide	2
506649	Silver cyanide	8
506876	Ammonium carbonate	3
540885	tert-Butyl acetate	1

APPENDIX C (continued)

CERCLA SECTION 101(14) CHEMICALS REPORTED BY VIRGINIA FACILITIES

CAS NUMBER	CHEMICAL NAME	NUMBER FACILITIES REPORTING
544923	Copper cyanide	16
557211	Zinc cyanide	5
557346	Zinc acetate	1
584849	Toluene 2,4-diisocyanate	6
592858	Mercuric thiocyanate	1
592870	Lead thiocyanate	1
628637	Amyl acetate	100
631618	Ammonium acetate	6
1066337	Ammonium bicarbonate	3
1116547	Ethanol, 2,2'-(nitrosoimino)bis-	16
1185575	Ferric ammonium citrate	1
1303282	Arsenic pentoxide	5
1309644	Antimony trioxide	14
1310583	Potassium hydroxide	304
1310732	Sodium hydroxide	773
1314621	Vanadium pentoxide	2
1314847	Zinc phosphide	1
1314870	Lead sulfide	1
1319773	Cresol(s)	27
1330207	Benzene, dimethyl-	860
1332076	Zinc borate	3
1332214	Asbestos	14
1333831	Sodium bifluoride	3
1335326	Lead subacetate	1
1336216	Ammonium hydroxide	122
1338234	2-Butanone peroxide	38
1341497	Ammonium bifluoride	15
1563662	Carbofuran	17
1762954	Ammonium thiocyanate	63
1918009	Dicamba	30
1929733	2,4-D Esters	3
2921882	Chlorpyrifos	18
3251238	Cupric nitrate	6
3486359	Zinc carbonate	1
7439921	Lead	115
7439976	Mercury	18
7440020	Nickel	266
7440224	Silver	184
7440235	Sodium	239
7440280	Thallium	1
7440360	Antimony	13
7440382	Arsenic	4
7440417	Beryllium	5
7440439	Cadmium	22
7440473	Chromium	222
7440508	Copper	77
7440666	Zinc	92
7446084	Selenium dioxide	3
7446142	Lead sulfate	3
7447394	Cupric chloride	7
7558794	Sodium phosphate, dibasic	14

APPENDIX C (continued)

CERCLA SECTION 101(14) CHEMICALS REPORTED BY VIRGINIA FACILITIES

CAS NUMBER	CHEMICAL NAME	NUMBER FACILITIES REPORTING
7601549	Sodium phosphate, tribasic	74
7631905	Sodium bisulfite	83
7632000	Sodium nitrite	43
7646857	Zinc chloride	27
7647010	Hydrochloric acid (Hydrogen chloride (gas only))***	260
7664382	Phosphoric acid	389
7664393	Hydrogen fluoride	1
7664417	Ammonia	158
7664939	Sulfuric acid	357
7681494	Sodium fluoride	6
7681529	Sodium hypochlorite	55
7697372	Nitric acid	124
7705080	Ferric chloride	21
7718549	Nickel chloride	21
7719122	Phosphorus trichloride	2
7720787	Ferrous sulfate	29
7722647	Potassium permanganate	19
7723140	Phosphorus	222
7733020	Zinc sulfate	60
7738945	Chromic acid	18
7758294	Sodium phosphate, tribasic	37
7758987	Cupric sulfate	69
7761888	Silver nitrate	17
7773060	Ammonium sulfamate	4
7775113	Sodium chromate	5
7778394	Arsenic acid	8
7778509	Potassium bichromate	7
7778543	Calcium hypochlorite	9
7779886	Zinc nitrate	27
7782414	Fluorine	18
7782492	Selenium	14
7782505	Chlorine	44
7782630	Ferrous sulfate	2
7782823	Sodium selenite	2
7783008	Selenous acid	2
7783064	Hydrogen sulfide	5
7783188	Ammonium thiosulfate	152
7783508	Ferric fluoride	1
7786814	Nickel sulfate	23
7789006	Potassium chromate	10
7789062	Strontium chromate	3
7789095	Ammonium bichromate	26
7790945	Chlorosulfonic acid	1
7803512	Phosphine	6
7803556	Ammonium vanadate	4
8001352	Toxaphene (Camphechlor)	25
8001589	Creosote	7
8003347	Pyrethrins	2
8014957	Sulfuric acid, Fuming	3
10025873	Phosphorus oxychloride	2
10028225	Ferric sulfate	7

APPENDIX C (continued)

CERCLA SECTION 101(14) CHEMICALS REPORTED BY VIRGINIA FACILITIES

CAS NUMBER	CHEMICAL NAME	NUMBER FACILITIES REPORTING
10031591	Thallium sulfate	1
10043013	Aluminum sulfate	97
10045893	Ferrous ammonium sulfate	3
10045940	Mercuric nitrate	5
10099748	Lead nitrate	1
10101890	Sodium phosphate, tribasic	14
10102188	Sodium selenite	8
10102439	Nitric oxide	2
10102440	Nitrogen dioxide	1
10124568	Sodium phosphate, tribasic	38
10192300	Ammonium bisulfite	1
10196040	Ammonium sulfite	48
10421484	Ferric nitrate	8
10544726	Nitrogen dioxide	1
10588019	Sodium bichromate	36
11115745	Chromic acid	27
12125018	Ammonium fluoride	13
12125029	Ammonium chloride	32
13814965	Lead fluoborate	11
13826830	Ammonium fluoborate	2
14639986	Zinc ammonium chloride	2
15699180	Nickel ammonium sulfate	1
16721805	Sodium hydrosulfide	5
16752775	Methomyl	3
20859738	Aluminum phosphide	1
23950585	3,5-Dichloro-N-(1,1-dimethyl-2-propynyl)benzamide	1
25155300	Sodium dodecylbenzene sulfonate	8
25167822	Trichlorophenol	26
25168267	2,4-D Esters	2
26471625	Benzene, 2,4-diisocyanatomethyl-	6
26628228	Sodium azide (Na(N3))	6
27176870	Dodecylbenzenesulfonic acid	10
27323417	Triethanolamine dodecylbenzene sulfonate	2
28300745	Antimony potassium tartrate	1
30525894	Paraformaldehyde	5
52628258	Zinc ammonium chloride	1

APPENDIX D

SARA TITLE III SECTION 302 FACILITIES

COMPANY	ADDRESS	CITY	ZIP CODE	TELEPHONE
ABEX CORPORATION	2410 PAPERMILL ROAD	WINCHESTER	22601	703-662-3871
ABINGDON WASTE WATER TREATMENT	ROUTE 670, 1/2 MI. S. OF I-81	ABINGDON	24210	703-628-4321
ADAMS AND ADKINS, INC.	1210 QUEEN STREET	ALEXANDRIA	22314	703-836-6655
ADESSO PRECISION MACHINE CO.	3517 ARGONNE AVENUE	NORFOLK	23509	804-857-5544
AEROFIN CORP.	4621 MURRAY PLACE	LYNCHBURG	24502	804-845-7081
AG-CHEM, INC.	521 HILLMAN DRIVE	WINCHESTER	22601	703-622-1742
AG-CHEM, INC.	ROUTE 13, P.O. BOX 6	EASTVILLE	23347	804-678-5165
AG-CHEM, INC.	P.O. BOX 577	WAVERLY	23888	804-678-5165
AH ROBINS CO.	2258 DARBYTOWN ROAD	RICHMOND	23231	804-257-2000
AH ROBINS CO.	1211 SHERWOOD AVENUE	RICHMOND	23261	804-257-2000
AILEEN INC.	ROUTE 673	EDINBURG	22824	703-984-4181
AIR PRODUCTS AND CHEMICALS, INC.	1106 HERCULES ROAD	HOPEWELL	23860	804-796-3955
AIR PRODUCTS AND CHEMICALS, INC.	411 ROTARY STREET	HAMPTON	23670	804-826-5430
AIR PRODUCTS AND CHEMICALS, INC.	603 CENTRE AVENUE, N.W.	ROANOKE	24016	703-343-3683
AIRCO INDUSTRIAL GASES	INDUSTRIAL STREET	HOPEWELL	23860	804-458-0928
ALBRIGHT & WILSON AMERICAS	100 LAKERIDGE PARKWAY	ASHLAND	23005	804-752-6100
ALCATEL CABLE SYSTEMS	7635 PLANTATION ROAD	ROANOKE	24019	703-265-0618
ALCO CONTROLS	555 PEPPERS FERRY ROAD	WYTHEVILLE	24382	703-228-8151
ALEXANDRIA METAL FINISHERS, INC.	9418 GUNSTON COVE RD	LORTON	22079	703-643-1636
ALEXANDRIA SANITATION AUTHORITY	835 S. PAYNE STREET	ALEXANDRIA	22313	703-549-3381
ALL-AMERICAN BOTTLING COMPANY	5330 PORT ROYAL ROAD	SPRINGFIELD	22151	70-321-7900
ALLEGHENY POWER SYSTEM	RT 11 S	STEPHENS CITY	22655	703-665-0115
ALLIANCE FERTILIZER CORPORATION	ROUTE 722	MILFORD	22514	804-633-9851
ALLIANCE FERTILIZER OF N. NECK INC.	ROUTE 360	HEATHSVILLE	22473	804-580-5600
ALLIANCE FERTILIZER OF N. NECK INC.	ROUTE 360	HAYNESVILLE	22472	804-333-4234
ALLIED COLLOIDS, INC.	2301 WILROY ROAD	SUFFOLK	23434	804-483-1754
ALLIED CONCRETE	1000 HARRIS STREET	CHARLOTTESVILLE	22901	804-296-7181
ALLIED CORP. - HOPEWELL PLANT	RT. 10 E. RANDOLPH RD	HOPEWELL	23860	804-541-5730
ALLIED SIGNAL - CHESTERFIELD PLANT	4101 BERMUDA HUNDRED ROAD	CHESTERFIELD		804-541-6124
ALLIED SIGNAL - TECH CENTER	TECHNICAL CENTER	PETERSBURG	23804	804-520-3221
ALLIED TOOL AND MACHINE CORPORATION				703-342-6781
ALLIMAC STAMPING CO., INC.	301 N. DUNLOP STREET	PETERSBURG	23803	804-732-5451
ALPENGLOW SPARKLING CIDER	ROUTE 1, BOX 35	LINDEN	22642	703-635-2118
ALTUF CORP.	4625 EAST PRINCESS ANNE ROAD	NORFOLK	23502	804-853-7641
AMELIA LUMBER CO., INC.	LEIDIG & CROWDER STREETS	AMELIA	23002	804-561-2155
AMERICAN CHEMICAL COMPANY				703-343-0101
AMERICAN ENERGY SYSTEMS, INC.	7538 FULLERTON COURT	SPRINGFIELD	22153	703-644-6660
AMERICAN GFM CORP.	1200 CAVALIER BLVD.	CHESAPEAKE	23323	804-487-2442
AMERICAN HOFFMAN	3700 COHEN PLACE	LYNCHBURG	24506	804-846-8411
AMERICAN INKS & COATINGS, CORP.	111 AGENCY AVENUE	RICHMOND	23225	804-232-5565
AMERICAN MIRROR CO., INC.	602 EAST STUART DRIVE	GALAX	24333	703-236-5111
AMERICAN ORIGINAL CORP.	RT. 603 WILLIS WHARF RD	WILLIS WHARF	23486	804-442-7011
AMERICAN TOBACCO CO. - HANMER DIVISION	13101 N. ENON CHURCH ROAD	CHESTER	23860	804-748-4561
AMERICAN TOBACCO CO. - LUCKY STRIKE STORAGES	1400 INGRAM AVENUE	RICHMOND	23224	804-231-4421
AMERICAN TOBACCO CO. - TOM WALKER STORAGES	400 JEFFERSON DAVIS HIGHWAY	RICHMOND	23224	804-231-4421
AMERICAN TOBACCO COMPANY - DEPT R&D	13100 NORTH ENON CHURCH ROAD	CHESTER	23831	804-748-4561
AMERICAN WOODMARK CORP.	109 BYRD AVENUE	PERRYVILLE	22611	703-955-3174
AMHERST COUNTY DEPT OF PUBLIC UTILITIES	PHELPS ROAD	MADISON HEIGHTS	24572	804-845-1605
AMOCO OIL CO.	428 BARNES ROAD	CHESAPEAKE	23324	804-545-4641
AMOCO OIL CO.	1636 COMMERCE ROAD	RICHMOND	23224	804-232-2347
AMOCO OIL CO.	U.S. ROUTE 460 & ROUTE 607	MONTVALE	24122	703-947-2227
AMOCO OIL CO.	YORKTOWN REFINERY	YORKTOWN	23690	804-898-5120
AMOCO OIL CO.	9601 COLONIAL AVENUE	FAIRFAX	22031	703-323-0802
AMP INC. - BUILDING 150	ROUTE 11 NORTH	MOUNT SIDNEY	24467	703-433-1240
AMP INC. - BUILDING 151	1175 N. MAIN STREET	HARRISONBURG	22801	703-433-1201
AMP INC. - BUILDING 175	520 KIMBALL AVE., N.E.	ROANOKE	24006	703-433-1264
AMP INC. - BUILDING 204	5614 HOLLINS ROAD	ROANOKE	24012	703-563-1338
AMSCO PRODUCTS - CAMCAR DIV. OF TEXTRON INC.	345 EAST MARSHALL STREET	WYTHEVILLE	24382	703-228-8141
ANHEUSER-BUSCH, INC. - BREWERY OPERATIONS	7801 POCAHONTAS TR.	WILLIAMSBURG	23185	804-253-3692
APPALACIAN POWER CO.-CLINCH RIVER PLANT	P.O. BOX 157	CLEVELAND	24225	703-889-1540
APPALACIAN POWER CO.-SMITH MTN. VISITORS CENTER	RT 1 BOX 69	SANDY LEVEL	24161	703-985-2376
APPOMATTOX RIVER WATER AUTHORITY	21300 CHESDIN ROAD	PETERSBURG	23803	804-590-1145
APPOMATTOX SERVISTAR OIL CO., INC.	CHURCH AND MAIN STREETS	APPOMATTOX	24522	804-352-7141
AQUALON CO.	1111 HERCULES RD	HOPEWELL	23860	804-541-4507
ARLINGTON COUNTY WATER POLLUTION CONTROL PLANT	3401 SOUTH GLEBE ROAD	ARLINGTON	22202	
ARLINGTON PRINTERS & STATIONERS, INC.	2601 COLUMBIA PIKE	ARLINGTON	22204	703-920-6200
ART PRINTING CO.	120 W. LUCK AVENUE	ROANOKE	24011	703-342-0224
ASHLAND CHEMICAL CO.-INDUSTRIAL CHEM & SOLVENTS	2410 PATTERSON AVENUE S.W.	ROANOKE	24008	703-981-1251
ASR	ROUTE 612			703-248-8000
ASSOCIATED CONTAINER TRANSPORTATION	VIRGINIA PORT AUTHORITY	NORFOLK		804-638-8000
AT&T	RT 1 BOX 189	WARRENTON	22186	703-373-0300
AT&T	P.O. BOX 4707	ROANOKE	24003	804-623-6712
AT&T	P.O. BOX 1278 COLLEGE STN	FREDERICKSBURG	22402	703-471-2143
AT&T	2510 TURNER RD RM 100	RICHMOND	23225	804-745-6545
AT&T	20425 DUVAL RD	MOSELEY	23120	804-628-0690
AT&T	RT 1 BOX 262	KESWICK	22947	703-832-2218
AT&T	11820 LEESBURG PIKE	HERNDON	22070	703-553-4714
AT&T	136 W. BUTE ST 4TH FL	NORFOLK	23510	804-628-0690
AT&T	RT 2 BOX 1216	AYLETT	23009	804-225-1580
AT&T	RT 1 BOX 141	PURCELLVILLE	22132	703-668-6152
AT&T	5301 22ND ST N	ARLINGTON	22205	703-553-4708
AT&T	700 CHURCH ST	LYNCHBURG	24504	804-623-6712
AT&T	1430 E. HIGH ST	CHARLOTTESVILLE	22901	703-373-0300
AT&T	703 E. GRACE ST	RICHMOND	23220	804-225-1580
AT&T	1831 WIEHLE AVENUE, 1ST FLOOR	RESTON	22090	703-471-2108
AT&T	P.O. BOX 938	MCKENNY	23872	
AT&T	1201 SOUTH HAYES STREET	ARLINGTON	22202	
AT&T INFORMATION SYSTEMS - WASHINGTON SRV. CENT.	1201 S. HAYES STREET	ARLINGTON	22202	703-553-5226
AT&T TECHNOLOGIES	ROUTE 679, EAST OF RT. 114	FAIRLAWN	24141	703-731-8447
AT&T TECHNOLOGY SYSTEMS - RICHMOND WORKS	4500 S. LABURNUM AVENUE	RICHMOND	23231	804-226-5641
ATLANTIC RESEARCH CORP.	5390 CHEROKEE AVENUE	ALEXANDRIA	22312	703-642-6411
ATLANTIC RESEARCH CORP.	7511 WELLINGTON ROAD	GAINESVILLE	22065-1699	703-642-6411
ATLANTIC WOOD INDUSTRIES, INC.	ROUTE 671	NEWSOMS	23874	804-654-9462
ATLANTIC WOOD INDUSTRIES, INC.	3950 ELM AVENUE	PORTSMOUTH	23704	804-397-2317
AUDIOPAK, INC.	1680 TYSON DRIVE	WINCHESTER	22601	703-662-7757
AUGUSTA COOP. FARM BUREAU, INC.	U.S. 11	FAIRFIELD	24435	703-885-1265
AUGUSTA COOP. FARM BUREAU, INC.	1205 B RICHMOND ROAD	STAUNTON	24401	703-885-1265
AUGUSTA COOP. FARM BUREAU, INC.	MAIN STREET	WEYERS CAVE	24486	703-885-1265
AUGUSTA COOP. FARM BUREAU, INC.	1340 NEW HOPE ROAD	WAYNESBORO	22980	703-885-1265
AUGUSTA COUNTY SERVICE AUTHORITY	RT 996 - WEYERS CAVE SEWER PLA	WEYERS CAVE	24486	703-248-0518
AUGUSTA COUNTY SERVICE AUTHORITY	RT 11 - MT. SIDNEY SEWER	MOUNT SIDNEY	24467	703-248-0518
AUGUSTA COUNTY SERVICE AUTHORITY	RT 340 - VESPER VIEW SEWER PLA	CRIMORA	24431	703-248-0518
AUGUSTA COUNTY SERVICE AUTHORITY	RT 42 - AUGUSTA SPRINGS WATER	AUGUSTA SPRINGS	24411	703-248-0518

APPENDIX D (continued)

SARA TITLE III SECTION 302 FACILITIES

COMPANY	ADDRESS	CITY	ZIP CODE	TELEPHONE
AUGUSTA COUNTY SERVICE AUTHORITY	RT 664 - LYNDHURST WELL	LYNDHURST	22952	703-885-6985
AUGUSTA COUNTY SERVICE AUTHORITY	RT 654 - BROOKWOOD SEWER PLANT	BROOKWOOD	24401	703-885-6985
AUGUSTA COUNTY SERVICE AUTHORITY	RT 635 - STAUNTON PLAZA SEWER	STAUNTON	24401	703-885-6985
AUGUSTA COUNTY SERVICE AUTHORITY	RT 670 - MIDDLEBROOK WATER SYS	MIDDLEBROOK	24459	703-885-6985
AUGUSTA COUNTY SERVICE AUTHORITY	RT 794 - FISHERSVILLE SEWER PL	FISHERSVILLE	22939	703-885-6985
AUGUSTA COUNTY SERVICE AUTHORITY	RT 639 - STUARTS DRAFT SEWER P	STUARTS DRAFT	24477	703-885-6985
AUGUSTA COUNTY SERVICE AUTHORITY	RT 612 - VERONA SEWER PLANT	VERONA	24482	703-248-0518
AUGUSTA COUNTY SERVICE AUTHORITY	RT 703 - RIVERHEADS H.S. SEWER	GREENVILLE	24440	703-885-6985
AUGUSTA COUNTY SERVICE AUTHORITY	RT 778 - HARRISTON SEWER PLANT	HARRISTON	24441	703-248-0518
AUGUSTA COUNTY SERVICE AUTHORITY	RT 660 - COLES RUN WATER SYSTE	STUARTS DRAFT	24477	703-885-6985
AUGUSTA COUNTY SERVICE AUTHORITY	RT 778 - NEW HOPE SEWER PLANT	NEW HOPE	24469	703-248-0518
AUGUSTA COUNTY SERVICE AUTHORITY	RT 994 - DICES SPRING WATER SY	WEYERS CAVE	24486	703-248-0518
AUGUSTA COUNTY SERVICE AUTHORITY	RT 626 - BERRY FARM WATER SYST	VERONA	24482	703-248-0518
AUGUSTA COUNTY SERVICE AUTHORITY	STUARTS DRAFT WELL	STUARTS DRAFT	24477	703-885-6985
AUGUSTA COUNTY SERVICE AUTHORITY	RTE 340 - VESPER VIEW WATER	CRIMORA		703-248-0518
AUGUSTA COUNTY SERVICE AUTHORITY	RTE 778 - HARRISTON WATER SYS.	HARRISTON		703-248-0518
AUGUSTA COUNTY SERVICE AUTHORITY - WAREHOUSE	RT 877	FISHERSVILLE	22939	703-886-9470
AUTOMATED CONVEYOR SYSTEMS, INC.	800 KEMPER STREET	LYNCHBURG	24501	804-528-3822
AUTOMOTIVE INDUSTRIES, INC.	E. QUEEN STREET	STRASBURG	22657	703-465-3741
AVERETT COLLEGE	420 WEST MAIN STREET	DANVILLE	24541	804-793-7811
AVTEX FIBERS, INC.	KENDRICK LANE	FRONT ROYAL	22630	703-635-2141
BABCOCK & WILCOX - NAVEL NUCLEAR FUEL DIVISION	US ROUTE 460	MT. ATHOS	24505	804-522-6000
BACOVA GUILD, LTD.	1 MAIN STREET	BACOVA	24412	703-839-5313
BACOVA GUILD, LTD. - MILLBORO PLANT	MILLBORO INDUSTRIAL PARK	MILLBORO	24460	703-839-5313
BADGER POWHATAN	ROUTE 29 NORTH	CHARLOTTESVILLE	22906	804-973-4361
BAGWELL OIL CO., INC.	33 MARKET STREET	ONANCOCK	23417	804-787-3580
BAKER INSTRUMENTS CORP.	3085 SHAWNEE DRIVE	WINCHESTER	22601	703-667-5800
BALL CORPORATION	8935 POCAHONTAS TRAIL	WILLIAMSBURG	23185	303-469-5511
BARNES LUMBER CORP.	1325 CARLTON AVENUE	CHARLOTTESVILLE	22901	804-295-4104
BARRETT-FORD OILS	HIGHWAY 186	BOYKINS	23827	804-654-6464
BARTLETT TREE COMPANY				703-343-9376
BASF CORP. - FIBERS DIVISION	ROUTE 60	WILLIAMSBURG	23187	804-887-6000
BASIC CONSTRUCTION CO.	538 OYSTER POINT RD.	NEWPORT NEWS	23602	804-877-6454
BASSETT FURNITURE INDUSTRIES	MAIN ST.	BASSETT	24055	703-629-7511
BATH COUNTY PUBLIC SERVICE AUTHORITY		ASHWOOD		703-839-2537
BATH COUNTY PUBLIC SERVICE AUTHORITY	ROUTE 615	HOT SPRINGS		703-839-2537
BAYSHORE CONCRETE PRODUCTS CORP.	BAYSHORE ROAD	NORFOLK	23310	804-331-2300
BEAR ISLAND PAPER CO.	RT 738 EAST	GUM TREE	23005	804-227-3394
BENDIX ELECTRONICS	615 BLAND BLVD	NEWPORT NEWS	23602	804-875-7010
BENJAMIN MOORE & CO	WEST ROSLYN RD	COLONIAL HEIGHTS	23834	804-526-6611
BERNUTH, LEMBCKE CO., INC. - CHESEPEAKE FACILITY	101 FREEMAN AVENUE	CHESAPEAKE	23324	904-355-6587
BETCO BLOCK AND PRODUCTS, INC.	5291 WELLINGTON ROAD	GAINESVILLE	22065	301-654-1616
BGF INDUSTRIES, INC.	401 AMHERST AVE	ALTAVISTA	24517	804-369-4751
BIBB COMPANY	US ROUTE 501	BROOKNEAL	24528	804-376-2311
BIG SPRING MILL	US ROUTE 11, ROUTE 460	ELLISTON	24087	703-268-2267
BIG STONE OIL CO., INC.	1809 E. SECOND AVE.	BIG STONE GAP	24219	703-523-0217
BINSWANGER GLASS CO.	3737 VIRGINIA BEACH BLVD.	NORFOLK	23502	804-857-0601
BLACKSBURG/CHRISTAIN/VPI WATER AUTH. FILTRA. PL.	ROUTE 114	RADFORD	24141	703-639-2575
BLACKSBURG/VPI WASTEWATER TREATMENT PLANT	ROUTE 659	BLACKSBURG	24060	703-552-6940
BLACKSTONE FUEL & SUPPLY CO., INC.	300 BROWN STREET	BLACKSTONE	23824	804-292-7214
BLUE BEACON OF FREDERICKSBURG	I95 & RT 17	FREDERICKSBURG	22404	703-371-3786
BLUE BEACON OF FT. CHISWELL	I81 EXIT 25	FT. CHISWELL	24360	703-637-3468
BLUE BEACON OF RUTHER GLEN	I-95, EXIT 41, ROUTE 207	RUTHER GLEN	22546	913-825-2221
BLUE STONE BLOCK, INC.				703-982-3588
BLUEFIELD BEVERAGE CO.	ROUTE 2, BOX 173-I	BLUEFIELD	24605	703-322-3411
BOEING COMPUTER SERVICES	7910-7990 BOEING COURT	VIENNA	22180	703-556-3768
BOOKCRAFTERS, INC. (AMERICAN BUSINESS PRODUCTS)	LEE HILL INDUSTRIAL PARK	FREDERICKSBURG	22404	703-371-3800
BORDEN, INC. - DAIRY DIVISION	409 WEST FIRST STREET	RADFORD	24141	703-639-3928
BORDEN, INC. - DAIRY DIVISION	EAST KING STREET	STRASBURG	22657	703-465-5113
BOXES TO SIZE, INC.	3019 IMPALA PLACE	RICHMOND	23228	804-262-8604
BP OIL CO.	3950 BURTON'S POINT ROAD	PORTSMOUTH	23704	804-397-3455
BRADLEY SAW MILL INC.	ROUTE 1	COVINGTON	24426	703-962-1833
BRIDGE PRODUCTS, INC.	205 FRAZIER ROAD	ALTAVISTA	24517	804-369-4741
BRIDGEWATER COLLEGE	EAST COLLEGE STREET	BRIDGEWATER	22812	703-828-2501
BRIER'S CUSTOM BUILT CABINETS	5801 COURTHOUSE ROAD	PRINCE GEORGE	23875	804-732-8475
BRISTOL COMPRESSORS, INC.	649 INDUSTRIAL PARK ROAD	BRISTOL	24201	703-466-4121
BRISTOL VIRGINIA UTILITIES	ROUTE 1, BOX 407	BRISTOL	24210	703-628-7521
BROCKWAY, INC.	ROUTE 3, BOX 190	RINGGOLD	24586	804-799-5880
BRUNSWICK CORP.-DEFENSE DIVISION	150 JOHNSTON ROAD	MARION	24354	703-783-3121
BUFFALO FORGE CO.	INDUSTRIAL PARK	AMHERST	24521	804-946-7455
BURGESS SNYDER INDUSTRIES, INC.	560 BAKER ROAD	VIRGINIA BEACH	23462	804-490-3131
BURLINGTON INDUSTRIES, INC. - ALTAVISTA PLANT	P.O. BOX 391	ALTAVISTA	24517	804-369-4751
BURLINGTON INDUSTRIES, INC. - CLARKSVILLE FINISH	HIGHWAY 722	CLARKSVILLE	23927	919-379-2503
BURLINGTON INDUSTRIES, INC. - GLASGOW PLANT	ANDERSON ST. EXT., RT. #1	GLASGOW	24555	703-258-2811
BURLINGTON INDUSTRIES, INC. - HALIFAX PLANT	COWFORD ROAD	HALIFAX	24588	919-379-2503
BURLINGTON INDUSTRIES, INC. - NEWBERN PLANT	HIGHWAY 682	DUBLIN	24084	703-980-4646
BURLINGTON INDUSTRIES, INC. - RADFORD PLANT	309 NORWOOD STREET	RADFORD	24141	703-731-3603
BURLINGTON INDUSTRIES, INC. - SOUTH HILL PLANT	800 GOODES FERRY BLVD	SOUTH HILL	23970	804-448-1238
BURLINGTON INDUSTRIES, INC. - VINTON PLANT	RT 24 E. 323 VIRGINIA AVE	VINTON	24179	703-343-4448
BUTTERWOOD FARMS		WILSONS		
BYRD PREPRESS - WILLIAM BYRD PRESS INC.	5408 PORT ROYAL ROAD	SPRINGFIELD	22151	703-321-8610
C&A WOOD PRODUCTS, INC.	RIVERSIDE DR AT N. TAZEWELL	TAZEWELL	24630	703-988-4890
C&P TELEPHONE CO. - 10 HARPERSVILLE	10 HARPERSVILLE ROAD	NEWPORT NEWS	23607	301-236-1860
C&P TELEPHONE CO. - 1020 INDIAN LAKE	1020 INDIAN LAKES BLVD.	VIRGINIA BEACH	23462	301-236-1860
C&P TELEPHONE CO. - 11 WYTHE CREEK	11 WYTHE CREEK ROAD	HAMPTON	23666	301-236-1860
C&P TELEPHONE CO. - 131 QUEEN STREET	131 QUEENS WAY	HAMPTON	23669	301-236-1860
C&P TELEPHONE CO. - 1316 MOUNT VERNON	1316 MT. VERNON AVENUE	ALEXANDRIA	22301	301-236-1860
C&P TELEPHONE CO. - 13501 NORTH GAYTON ROAD	13501 NORTH GAYTON ROAD	RICHMOND		804-772-3051
C&P TELEPHONE CO. - 1414 GUERRIERE	1414 GUERRIERE STREET	CHESAPEAKE	23324	301-236-1860
C&P TELEPHONE CO. - 150 WEST MARKET	150 MARKET STREET	ONANCOCK	23417	804-857-9100
C&P TELEPHONE CO. - 1585 GREAT NECK ROAD	1585 GREAT NECK ROAD	VIRGINIA BEACH	23454	301-236-1860
C&P TELEPHONE CO. - 1606 ABERDEEN ROAD	1606 ABERDEEN ROAD	HAMPTON	23666	301-236-1860
C&P TELEPHONE CO. - 1630 PLEA HS	8910 PLEASURE HOUSE ROAD	VIRGINIA BEACH	23455	301-236-1860
C&P TELEPHONE CO. - 165 SEAFORD	165 SEAFORD ROAD	SEAFORD	23696	301-236-1860
C&P TELEPHONE CO. - 2001 CENTERVILLE	CENTREVILLE TURNPIKE	VIRGINIA BEACH	23464	301-236-1860
C&P TELEPHONE CO. - 221 DORSET AVENUE	221 DORSET AVENUE	VIRGINIA BEACH	23462	301-236-1860
C&P TELEPHONE CO. - 2516 HORSEPEN	2516 HORSEPEN ROAD	HERNDON	22070	301-236-1860
C&P TELEPHONE CO. - 2521 WAYSIDE	2521 WAYSIDE DRIVE	RICHMOND	23235	301-236-1860
C&P TELEPHONE CO. - 2ND AVENUE	2820-2824 2ND AVENUE	RICHMOND	23222	301-236-1860
C&P TELEPHONE CO. - 3009 HUNGARY SPRINGS ROAD	3009 HUNGARY SPRINGS ROAD	RICHMOND		804-772-3051
C&P TELEPHONE CO. - 316 32ND STREET	316 32ND STREET	VIRGINIA BEACH	23451	301-236-1860
C&P TELEPHONE CO. - 3305 HUNTINGDON AVE	3305 HUNTINGTON AVE.	NEWPORT NEWS	23607	301-236-1860
C&P TELEPHONE CO. - 3310 HULL STREET	3310 HULL STREET	RICHMOND	23224	301-236-1860

APPENDIX D (continued)

SARA TITLE III SECTION 302 FACILITIES

COMPANY	ADDRESS	CITY	ZIP CODE	TELEPHONE
C&P TELEPHONE CO. - 3500 PEMBERTON ROAD	3500 PEMBERTON ROAD	RICHMOND		804-772-3051
C&P TELEPHONE CO. - 37 YORKTOWN	37 YORKTOWN ROAD	NEWPORT NEWS	23603	301-236-1860
C&P TELEPHONE CO. - 4320 COGBILL ROAD	4320 COGBILL ROAD	RICHMOND	23224	301-236-1860
C&P TELEPHONE CO. - 5101 RANDALL AVENUE	5101 RANDALL AVENUE	RICHMOND	23231	804-772-3051
C&P TELEPHONE CO. - 537 WOODLAWN	537 WOODLAWN ROAD	HAMPTON	23669	301-236-1860
C&P TELEPHONE CO. - 5600 BRICKELL	5600 BRICKELL ROAD	NORFOLK	23502	301-236-1860
C&P TELEPHONE CO. - 6102 HERMITAGE ROAD	6102 HERMITAGE ROAD	RICHMOND		804-772-3051
C&P TELEPHONE CO. - 6700 LEE HIGHWAY	6700 LEE HIGHWAY	ARLINGTON	22205	
C&P TELEPHONE CO. - 706 CHURCH STREET	706 CHURCH STREET	LYNCHBURG	24504	804-237-9505
C&P TELEPHONE CO. - 804 HIGH STREET	804 HIGH STREET	PORTSMOUTH	23704	301-236-1860
C&P TELEPHONE CO. - 8910 GRANBY	8910 GRANBY STREET	NORFOLK	23503	301-236-1860
C&P TELEPHONE CO. - 937 GEORGE WASHINGTON HWY	ROUTE 337	DRIVER	23435	301-236-1860
C&P TELEPHONE CO. - 9419 BRADDOCK	9419 BRADDOCK ROAD	SPRINGFIELD	22015	301-236-1860
C&P TELEPHONE CO. - ADELAIDE STREET	ADELAIDE STREET	PARKSLEY	23421	804-857-9100
C&P TELEPHONE CO. - ANNANDALE CO	6538 LITTLE RIVER TURNPIKE	ALEXANDRIA	22312	301-236-1860
C&P TELEPHONE CO. - BARCROFT CO	4805 KING STREET	ARLINGTON	22206	301-236-1860
C&P TELEPHONE CO. - CAPE CHARLES	CAPE CHARLES AIR FORCE BASE	CAPE CHARLES	23310	301-236-1860
C&P TELEPHONE CO. - CAPE CHARLES	STATE HIGHWAY 641	CAPE CHARLES	23310	301-236-1860
C&P TELEPHONE CO. - CENTERVILLE	ROUTE 29 & 211	CENTERVILLE	22020	301-236-1860
C&P TELEPHONE CO. - CHURCHLAND	3200 CHURCHLAND BLVD.	CHESAPEAKE	23321	301-236-1860
C&P TELEPHONE CO. - DEEP CREEK	957 GEORGE WASHINGTON HWY.	CHESAPEAKE	23323	301-236-1860
C&P TELEPHONE CO. - FAIRFAX CO	10431 LEE HIGHWAY	FAIRFAX	22030	301-236-1860
C&P TELEPHONE CO. - FALLS CHURCH	6700 LEE HIGHWAY	ARLINGTON	22205	301-236-1860
C&P TELEPHONE CO. - FOXMILL CO	2905 FOXMILL ROAD	HERNDON	22070	301-236-1860
C&P TELEPHONE CO. - FRANCONIA CO	6316 GROVEDALE DRIVE	ALEXANDRIA	22310	301-236-1860
C&P TELEPHONE CO. - GREAT FALLS	755 WALKER ROAD	GREAT FALLS	22066	301-236-1860
C&P TELEPHONE CO. - GROVETON CO	2806 POPKINS LANE	ALEXANDRIA	22306	301-236-1860
C&P TELEPHONE CO. - GUNSTON CO	10206 BELMOUNT BLVD.	LORTON	22079	301-236-1860
C&P TELEPHONE CO. - HERNDON CO	1130 ELDEN STREET	HERNDON	22070	301-236-1860
C&P TELEPHONE CO. - HIGHWAY 13 35 CO	P.O. BOX 35	EASTVILLE	23347	301-236-1860
C&P TELEPHONE CO. - HODGES FERRY	1100 OLD HODGES FERRY ROAD	PORTSMOUTH	23701	301-236-1860
C&P TELEPHONE CO. - INDIAN RIVER	6028 E. INDIAN RIVER ROAD	VIRGINIA BEACH	23462	301-236-1860
C&P TELEPHONE CO. - JEFFERSON AVENUE	12805 JEFFERSON AVENUE	NEWPORT NEWS	23602	301-236-1860
C&P TELEPHONE CO. - LEWINSVILLE	1701 CHAIN BRIDGE ROAD	MCCLEAN	22101	301-236-1860
C&P TELEPHONE CO. - LIGHTFOOT CO	9024 RICHMOND ROAD	LIGHTFOOT	23090	301-236-1860
C&P TELEPHONE CO. - LITTLE CREEK	1624 WEST LITTLE CREEK RD.	NORFOLK	23505	301-236-1860
C&P TELEPHONE CO. - MEADOWBRIDGE	6130 MEADOWBRIDGE	MECHANICSVILLE	23111	301-236-1860
C&P TELEPHONE CO. - MERRIFIELD	2935 GALLOWS ROAD	FALLS CHURCH	22042	301-236-1860
C&P TELEPHONE CO. - MONROE STREET	MONROE STREET	EXMORE	23350	301-236-1860
C&P TELEPHONE CO. - MUMFORD STREET	MUMFORD STREET	CHINCOTEAGUE	23336	804-857-9100
C&P TELEPHONE CO. - OCEANVIEW RS	15TH & BAY STREETS	NORFOLK	23518	301-236-1860
C&P TELEPHONE CO. - OLD MOUNT VERNON	8534 OLD MT. VERNON ROAD	ALEXANDRIA	22309	301-236-1860
C&P TELEPHONE CO. - ORANGE CO	139 BELLVIEW AVENUE	ORANGE	22960	301-236-1860
C&P TELEPHONE CO. - PLAZA TRAIL	132 SOUTH PLAZA TRAIL	VIRGINIA BEACH	23452	301-236-1860
C&P TELEPHONE CO. - ROUTE 40	ROUTE 40	MCKENNEY		
C&P TELEPHONE CO. - ROUTE 627	ROUTE 627	DINWIDDIE		
C&P TELEPHONE CO. - RT. 5 AND BUFFIN ROADS	ROUTE 5 & BUFFIN ROAD	RICHMOND		804-772-3051
C&P TELEPHONE CO. - SALEM ROAD	SALEM ROAD	VIRGINIA BEACH	23456	301-236-1860
C&P TELEPHONE CO. - SANDSTON ESS	HANOVER ROAD & MARY STREET	SANDSTON	23150	804-772-3051
C&P TELEPHONE CO. - SEWELLS PT	3131 E. SEWELLS POINT ROAD	NORFOLK	23513	301-236-1860
C&P TELEPHONE CO. - SPRINGFIELD	8130 KEENE MILL ROAD	SPRINGFIELD	22150	301-236-1860
C&P TELEPHONE CO. - STERLING CO	STATE ROUTE 7 & 637	STERLING PARK	22170	301-236-1860
C&P TELEPHONE CO. - TANGIER ISLAND	P.O. BOX 59	TANGIER ISLAND	23440	804-857-9100
C&P TELEPHONE CO. - TOANO CENTRA		TOANO	23168	301-236-1860
C&P TELEPHONE CO. - US 29 & ANN STREET	US ROUTE 29 & ANN STREET	MADISON HEIGHTS	24572	804-845-6081
C&P TELEPHONE CO. - US ROUTE 13 DCO	P.O. BOX 28 OR 218	TEMPERANCEVILLE	23442	804-857-9100
C&P TELEPHONE CO. - US ROUTE 29	US ROUTE 29	RUSTBURG	24588	804-237-9505
C&P TELEPHONE CO. - VIENNA CO	2702 SUTTON ROAD	VIENNA	22180	301-236-1860
C&P TELEPHONE CO. - WARRENTON LEE STREET	87 LEE STREET	WARRENTON	22186	301-236-1860
C&P TELEPHONE CO. - WEST POINT	16TH & MAIN STREET	WEST POINT	23181	301-236-1860
C&P TELEPHONE CO. - WILLIAMSBURG	404 SOUTH HENRY STREET	WILLIAMSBURG	23185	301-236-1860
C-K COMPANY (TELEDYNE-VASCO)	STATE ROAD 919	SOUTH BOSTON	24592	804-575-7994
C.R. HUDGINS PLATING, INC.	4510 MAYFLOWER DRIVE	LYNCHBURG	24506	804-847-6647
CAHILL MANUFACTURING CO., INC.	1032 CAHILL COURT	DANVILLE	24541	804-793-5651
CAMPBELL COUNTY UTILITIES	8700 TIMBERLAKE ROAD	CAMPBELL COUNTY	24502	804-239-8654
CAMPBELL COUNTY-RUSTBURG SEWERAGE TREAT. PLANT	STATE ROUTE 838	VILLAGE OF RUSTBURG	24588	804-239-8654
CANON VIRGINIA, INC.	12000 CANON BLVD	NEWPORT NEWS	23606	804-881-6000
CARBON COMPONENTS, INC.	2860 CRUSADER CIRCLE	VIRGINIA BEACH	23456	804-427-3504
CARDINAL OIL CO.	4014 WARDS ROAD	LYNCHBURG	24502	804-239-6931
CARDINAL PRINTING CO.	8425 HILLTOP ROAD	MERRIFIELD	22116	703-560-3312
CARGILL INC. - DOMESTIC SOYBEAN PROCESSING	501 BARNES ROAD	CHESAPEAKE	23324	804-545-8461
CARGILL INC. - FLOUR MILLING DIVISION	ROUTE #3 EAST #29 BYPASS	CULPEPER	22701	703-825-1530
CAVALIER SPORTSWEAR, INC.	1260 CREDLE ROAD	VIRGINIA BEACH	23454	804-425-1530
CB FLEET CO., INC.	4615 MURRAY PLACE	LYNCHBURG	24506	804-528-4000
CELANESE FIBERS CO.	US ROUTE 460	NARROWS	24124	703-921-1111
CENRIC SERVICES INC.	2913 TRANSPORT STREET	RICHMOND	23234	804-275-2693
CENTRAL COCA-COLA BOTTLING COMPANY	ROUTE 649			
CERRO METAL PRODUCTS	300 TRIANGLE DRIVE	WEYERS CAVE	24486	703-234-9251
CF SAUER CO.	2000 WEST BROAD STREET	RICHMOND	23220	804-359-5786
CFW TELEPHONE CLIFTON FORGE CENTRAL OFFICE	406 COMMERCIAL AVE	CLIFTON FORGE	24422	703-886-6205
CFW TELEPHONE COVINGTON CENTRAL OFFICE	342 N COURT ST	COVINGTON	24426	703-886-6205
CFW TELEPHONE WAYNESBORO CENTRAL OFFICE	524 BROAD ST	WAYNESBORO	22980	703-886-6205
CHEMPHALT OF CAROLINA CORPORATION	1000 LANSING STREET	NORFOLK	23523	804-545-7371
CHEMTREAT, INC.	500 LICKINGHOLE ROAD	ASHLAND	23005	804-798-3231
CHESAPEAKE CORP.	19TH & MAIN STREET	WEST POINT	23181	804-843-5243
CHESAPEAKE CORP. - RICHMOND CONTAINER DIVISION	5640 LEWIS ROAD	RICHMOND	23231	804-226-1550
CHESAPEAKE CORP. - WOOD PRODUCTS DIVISION	RT 2 & RT 17	FREDERICKSBURG	22401	703-373-4740
CHESAPEAKE TOOL & DIE	1332 TRUXTON STREET	CHESAPEAKE	23324	804-543-2021
CHESTERFIELD CTY-ASHTON CREEK WASTE. PUMP. STA.	RUFFIN MILL ROAD	CHESTERFIELD	23831	804-748-1868
CHESTERFIELD CTY-BAILEY BRIDGE WASTE. PUMP. STA.	12301 BAILEY BRIDGE ROAD	CHESTERFIELD	23831	804-748-1868
CHESTERFIELD CTY-DRY CREEK WASTE. PUMP. STA.	END OF ASHBROOK PARKWAY	CHESTERFIELD	23832	804-748-1868
CHESTERFIELD CTY-FALLING CREEK WASTE. PUMP. STA.	4700 TURNER ROAD	CHESTERFIELD	23832	804-748-1868
CHESTERFIELD CTY-FALLING CREEK WASTE. TREAT. PL.	6139 JEFFERSON DAVIS HIGHWAY	CHESTERFIELD	23234	804-748-1868
CHESTERFIELD CTY-MICHAUX CREEK WASTE. PUMP STA.	14625 CASTLEFORD DRIVE	CHESTERFIELD	23832	804-748-1868
CHESTERFIELD CTY-PROCTORS CREEK WASTE. TREAT. PL	1200 COXENDALE ROAD	CHESTERFIELD	23835	804-748-1868
CHESTERFIELD CTY-SWIFT CREEK WATER TREATMENT PL.	13100 HULL STREET	CHESTERFIELD	23111	804-748-1868
CHESTERFIELD CTY-TIMSBURY WASTEWATER PUMP. STA.	END OF ARROWFIELD ROAD	CHESTERFIELD	23832	804-748-1868
CHESTERFIELD CTY-WOODLAKE WASTEWATER PUMP. STA.	14501 SHELTER COVE POINT	CHESTERFIELD	23111	804-748-1868
CHIPPENHAM HOSPITAL	7101 JAHNKE ROAD	RICHMOND	23225	804-320-3911
CITGO PETROLEUM CORP. - PETRO. PRODUCTS TERMINAL	9600 COLONIAL AVENUE	FAIRFAX	22031	918-495-4787
CITGO PETROLEUM CORP. - RICHMOND TERMINAL	THIRD AND MAURY STREETS	RICHMOND	23224	804-233-6953
CITY OF CHARLOTTESVILLE	425 FOURTH ST. N.W.	CHARLOTTESVILLE	22902	804-971-3231
CITY OF DANVILLE WATER & WASTEWATER DEPARTMENTS	460 WILLIAMSON ROAD	DANVILLE	24540	804-799-5137

APPENDIX D (continued)

SARA TITLE III SECTION 302 FACILITIES

COMPANY	ADDRESS	CITY	ZIP CODE	TELEPHONE
CITY OF DANVILLE WATER & WASTEWATER DEPARTMENTS	279 PARK AVENUE	DANVILLE	24541	804-799-6473
CITY OF DANVILLE WATER & WASTEWATER DEPARTMENTS	WHITMELL STREET	DANVILLE	24541	804-799-6473
CITY OF EMPORIA WASTEWATER TREATMENT PLANT	BRIGGS STREET EXTENSION	EMPORIA	23847	804-634-5682
CITY OF EMPORIA WATER FILTRATION WORKS	WIGGINS RD	EMPORIA	23847	804-634-2544
CITY OF HARRISONBURG WATER TREATMENT PLANT	77 GRANDVIEW DRIVE	HARRISONBURG	22801	703-434-2545
CITY OF HOPEWELL REGIONAL WASTEWATER FACILITY	231 HUMMEL ROSS ROAD	HOPEWELL	23860	804-541-2298
CITY OF LYNCHBURG UTILITIES-ABERT FILTRATION PL.	END RT 671 FROM 501 NORTH	LYNCHBURG	24504	804-847-1323
CITY OF LYNCHBURG UTILITIES-COLLEGE HILL FILT.	525 TAYLOR STREET	LYNCHBURG	24504	804-847-1323
CITY OF LYNCHBURG UTILITIES-WW TREATMENT PLANT	2301 CONCORD TURNPIKE	LYNCHBURG	24504	804-847-1634
CITY OF MARTINSVILLE WATER RESOURCES - FILTRA.				703-632-9393
CITY OF MARTINSVILLE WATER RESOURCES - POLLUTION				703-638-1733
CITY OF NEWPORT NEWS HARWOOD MILLS FILTRATION PL	3909 ROUTE 17	GRAFTON	23692	804-247-8421
CITY OF NEWPORT NEWS LEE HALL FILTRATION PLANT	36 RESERVOIR RD	NEWPORT NEWS	23602	804-247-8421
CITY OF NEWPORT NEWS MERCURY LASALLE PUMP STA.	2001 SELDONDALE DR.	HAMPTON	23669	804-247-8421
CITY OF NEWPORT NEWS WATERWORKS	2400 WASHINGTON AVENUE, 2ND FL	NEWPORT NEWS	23607	804-245-5891
CITY OF NORFOLK - 37TH STREET PLANT	2719 PARK AVENUE	NORFOLK	23508	804-441-2010
CITY OF NORFOLK - MOORES BRIDGES PLANT	6040 WATERWORKS ROAD	NORFOLK	23502	804-441-2010
CITY OF NORFOLK - WATER DISTRIBUTION	2000 CHURCH STREET	NORFOLK	23504	804-441-2928
CITY OF NORTON BENGES BRANCH SEWER PLANT	RT 610	NORTON	24273	703-679-1204
CITY OF NORTON GUEST RIVER SEWER PLANT	OLD RT 38A	NORTON	24273	703-679-1204
CITY OF NORTON POOL	201 PARK AVE NE	NORTON	24273	703-679-0754
CITY OF NORTON WATER TREATMENT PLANT	HIGH KNOB ROAD	NORTON	24273	703-679-1205
CITY OF PORTSMOUTH	603 CRAWFORD STREET	PORTSMOUTH	23704	804-393-8641
CITY OF STAUNTON - WASTE WATER TREATMENT PLANT	NEW HOPE ROAD	STAUNTON	24401-0034	
CITY OF STAUNTON - WATER TREATMENT PLANT	ENGLEWOOD DRIVE EXTENDED	STAUNTON	24401-0034	
CITY OF WAYNESBORO CITY SHOPS	900 ESSEX AVENUE	WAYNESBORO	22980	703-943-6411
CITY OF WAYNESBORO COYNER SPRINGS STATION	COYNER SPRINGS PARK	WAYNESBORO	22980	703-942-6643
CITY OF WAYNESBORO DISTRICT HOME STATION	1400 DISTRICT HOME DRIVE	WAYNESBORO	22980	703-942-6643
CITY OF WAYNESBORO JEFFERSON AVENUE STATION	1140/1157 N. JEFFERSON AVENUE	WAYNESBORO	22980	703-942-6643
CITY OF WAYNESBORO SEWAGE TREATMENT PLANT	930 ESSEX AVENUE	WAYNESBORO	22980	703-949-8505
CITY OF WINCHESTER PUBLIC UTILITY - FAY SPRING	RED BUD ROAD	WINCHESTER	22601	703-662-5353
CITY OF WINCHESTER PUBLIC UTILITY - OLD TOWN SPR	600 BLOCK AMHERST	WINCHESTER	22601	703-662-5353
CITY OF WINCHESTER PUBLIC UTILITY - OPEQUON TR.	ROUTE 7 EAST	WINCHESTER	22601	703-665-9867
CITY OF WINCHESTER PUBLIC UTILITY - WINC WATER	STATE ROUTE 612	MIDDLETOWN	22645	703-869-1699
CL ROBINSON CORP.	530 NORTH CAMERON STREET	WINCHESTER	22601	703-662-3869
CLARKE PRINTING CO., INC.	521 MONROE STREET	DANVILLE	24543	804-792-7433
CLINE CHEMICAL DIST., INC.	CHESTNUT STREET	RICHLANDS	24641	703-963-3640
CLINE OIL COMPANY, INC.	1920 SOUTH MAIN STREET	HARRISONBURG	22801	703-434-3892
COASTAL CHEMICAL CORP.	HIGHWAY 58	FRANKLIN	23851	804-562-2261
COASTAL CHEMICAL CORP.	HIGHWAY 360	MILLERS TAVERN	23115	804-443-2329
COBURN OPTICAL INDUSTRIES, INC.	WEST ROSLYN INDUSTRIAL PARK	COLONIAL HEIGHTS	23834	804-526-8754
COCA-COLA BOTTLING CO. OF ROANOKE, INC.	235 SHENANDOAH AVENUE, N.W.	ROANOKE	24033	703-343-8041
COCA-COLA BOTTLING COMPANY	3720 COHEN PLACE	LYNCHBURG	24506	804-845-4595
COLCHESTER PUBLIC SERVIE	P.O. BOX 476	LORTON	22079	703-339-7169
COLONIAL CIRCUITS, INC.	ROUTE 17, NORTH	FREDERICKSBURG	22405	703-752-5511
COLONIAL WILLIAMSBURG FOUNDATION	P.O. BOX C	WILLIAMSBURG	23187	804-220-7374
COLUMBUS MCKINNON CORP. - DAMASCUS FACILITY	ROUTE 1, BOX 41	DAMASCUS	24236	703-475-3124
COMDIAL CORP.	500 QUINCY AVENUE	SHENANDOAH	22849	703-652-8106
COMDIAL CORP.	1180 SEMINOLE TRAIL	CHARLOTTESVILLE	22906	804-978-2222
COMMONWEALTH GALAX CORP.	204 SHAW STREET	GALAX	24333	703-236-6177
COMMONWEALTH GAS PIPE LINE	800 MOOREFIELD PARK DRIVE	RICHMOND	23236	804-323-5351
COMMONWEALTH PACKAGING CORP. - FLODING CARTON	5520 PRIDE ROAD	RICHMOND	23224	804-231-1133
COMMONWEALTH PACKAGING CORP. - RIGID BOX DIV.	4212 CASTLEWOOD ROAD	RICHMOND	23234	804-271-0157
COMMONWEALTH PROPANE, INC.	800 MOOREFIELD PARK DR.	RICHMOND	23235	804-323-5351
COMMUNITY HOSPITAL OF ROANOKE VALLEY	JEFFERSON STREET & ELM AVENUE	ROANOKE	24029	703-985-8000
CONAGRA FROZEN FOODS	ROUTE 240 WEST	CROZET	22932	804-823-5111
CONCRETE PIPE & PRODUCTS CO., INC.	835 KORTE STREET	ROANOKE	24015	804-233-5471
CONCRETE PIPE & PRODUCTS CO., INC.	FAIRVIEW AVENUE	LYNCHBURG	24505	804-233-5471
CONCRETE PIPE & PRODUCTS CO., INC.	2900 TERMINAL AVENUE	RICHMOND	23234	804-233-5471
CONCRETE PIPE & PRODUCTS CO., INC.	1207 SCHOOL STREET	RICHMOND	23220	804-233-5471
CONCRETE PIPE & PRODUCTS CO., INC.	7816 BETHLEHEM ROAD	MANASSAS	22110	804-233-5471
CONCRETE PIPE & PRODUCTS CO., INC.	STATE ROUTE 779	ASHLAND	23005	804-233-5471
CONCRETE PIPE & PRODUCTS CO., INC.	PUDDLEDOCK FARM	PETERSBURG	23803	804-233-5471
CONCRETE PIPE & PRODUCTS CO., INC.	U.S. ROUTE 1	ASHLAND	23005	804-233-5471
CONCRETE PIPE & PRODUCTS CO., INC.	3801 COOK BOULEVARD	CHESAPEAKE	23323	804-233-5471
CONN-WELD	ROUTE 682	DUBLIN		703-674-8833
CONSOLIDATED CIGAR CORP. - PREMIUM PRODUCTS DIV.	600 PERDUE AVENUE	RICHMOND	23224	804-233-7668
CONTROLS CORP. OF AMERICA	1501 HARPERS ROAD	VIRGINIA BEACH	23454	804-422-8330
COOPER INDUSTRIES	ROUTE 660	EARLYSVILLE	22936	804-973-4411
COORS SHENANDOAH BREWERY	HIGHWAY 340	ELKTON	22827	303-277-2057
CORNING GLASS WORKS	STATE ROADS 1156 & 1157	DANVILLE	24541	804-793-9511
COUNTY FARM SERVICE, INC.	325 WAUSAU PLACE	CULPEPER	22701	703-825-2381
COVE CREEK INDUSTRIES, INC.	U.S. HIGHWAY 29, NORTH	COVESVILLE	22931	804-293-6774
COYNE & DELANY CO.	1565 AVON STREET	CHARLOTTESVILLE	22902	804-296-0166
CRIDER & SHOCKEY, INC.	ROUTE 11 N	WINCHESTER	22601	703-665-3233
CROWN CENTRAL PETROLEUM CORP.	4405 EAST MAIN STREET	RICHMOND	23231	804-222-8233
CROWN CENTRAL PETROLEUM CORP.	8211 TERMINAL ROAD	NEWINGTON	22122	804-222-8233
CROWN CENTRAL PETROLEUM CORP.	801 FOOT OF BUTT STREET	CHESAPEAKE	23324	804-222-8233
CROWN CORK AND SEAL COMPANY, INC.	ROUTE 11 N, MARTINSBURG PIKE	WINCHESTER	22601	703-662-2591
CS POLYMER, INC.	11900 CANON BOULEVARD	NEWPORT NEWS	23606	804-249-5500
CSX TRANSPORTATION - CLIFTON FORGE SHOP	501 W. RIDGEWAY ST	CLIFTON FORGE	24422	703-862-8280
CSX TRANSPORTATION - NEWPORT NEWS SHOP	5941 JEFFERSON AVENUE	NEWPORT NEWS	23605	804-380-5230
CULPEPER WOOD PRESERVERS	ROUTE 666	CULPEPER	22701	703-825-5200
DACAM CORPORATION	STATE ROUTE 766 & KINGS ROAD	MADISON HEIGHTS	24572	804-845-6081
DAN RIVER, INC.	ROUTE 360 EAST	DANVILLE	24543	804-799-4931
DAN RIVER, INC.	WEST MAIN STREET	DANVILLE	24543	804-799-4931
DAN RIVER, INC.	MEMORIAL DRIVE	DANVILLE	24543	804-799-4931
DAVID RICHARDS CO.	P.O. BOX 2052	WINCHESTER	22601	703-662-7111
DAVIS OIL CO., INC.	15 KING STREET	ONANCOCK	23417	804-787-1326
DAVIS PAINT MANUFACTURERS, INC.	3420 CANDLER'S MOUNTAIN ROAD	LYNCHBURG	24506	804-846-5277
DAYSTROM FURNITURE	HWY 654, SINAI ROAD	SOUTH BOSTON	24592	804-572-3981
DEAN FOODS CO.	1595 MARY STREET	SANDSTON	23150	804-737-8272
DEGESCH AMERICA, INC.	275 TRIANGLE DRIVE	WEYERS CAVE	24486	703-234-9281
DELCO MORAINE	3401 TIDEWATER TRAIL	FREDERICKSBURG	22401	703-899-5074
DEPARTMENT OF THE ARMY	HEADQUARTERS	FORT MONROE	23651	804-727-3260
DEPARTMENT OF THE ARMY	CALLER SERVICE 2	RADFORD	24141	703-639-8482
DIAL CORP.	27 MILL LANE	SALEM	24153	703-389-5401
DISPERSION SPECIALITIES	108 N. LEADBETTER ROAD	ASHLAND	23005	804-798-9139
DISSTON CO.	ROUTE 29 NORTH	DANVILLE	24543	804-836-5322
DIXIE BEARINGS, INC.	5604 EDGEWOOD AVENUE	LYNCHBURG	24502	804-239-0305
DIXIE GUANO CO., INC.	611 FACTORY STREET	SUFFOLK	23434	804-539-7445
DOMINION CHEMICAL CO.	2050 PUDDLEDOCK ROAD	PETERSBURG	23804	804-733-7628
DOUGLAS CHEMICAL CO., INC.	4400 VAWTER AVENUE	RICHMOND	23222	804-321-0073

APPENDIX D (continued)

SARA TITLE III SECTION 302 FACILITIES

COMPANY	ADDRESS	CITY	ZIP CODE	TELEPHONE
DRAGON CHEMICAL CORP.	7033 WALROND DRIVE, N.W.	ROANOKE	24019	703-362-3657
DUFFIELD DEVELOPMENT AUTHORITY	US 58 & 421W	DUFFIELD	24244	703-431-2206
DURALOY CASTINGS	2401 WESLEY STREET	PORTSMOUTH	23707	804-399-3015
ECOLOCHEM INC.	4545 PATENT ROAD	NORFOLK	23502	804-855-9000
EDWARDS MACHINE CO., INC.	102 N. LEADBETTER ROAD	ASHLAND	23005	804-798-8226
EI DUPONT DE NEMOURS & CO., INC.	5400 JEFFERSON DAVIS HWY	RICHMOND	23261	804-271-4590
EI DUPONT DE NEMOURS & CO., INC.	DU PONT BLVD	WAYNESBORO	22980	703-949-2036
EI DUPONT DE NEMOURS & CO., INC.	P.O. BOX 4831	MARTINSVILLE	24112	804-632-9761
EI DUPONT DE NEMOURS & CO., INC.	1201 BELLWOOD PLANT	RICHMOND	23237	804-275-2745
EI DUPONT DE NEMOURS & CO., INC.	ROUTE 658	FRONT ROYAL	22630	703-636-2951
ELECTRO-TEC	1600 NORTH MAIN STREET	BLACKSBURG	24060	703-552-2111
ELECTROLUX CORP.	300 EAST VALLEY DRIVE	BRISTOL	24201	703-466-2251
ELECTROPLATE-RITE CORP.	ROUTE 11	DUBLIN	24084	703-674-6156
ELLINGTON ENERGY SERVICES, INC.	1812 WEST THIRD STREET	FARMVILLE	23901	804-392-3176
EM GRAY & SON	STATE ROUTE 640	MILFORD	22514	804-633-6800
EMBASSY DAIRY	400 CLAVER AVENUE	ALEXANDRIA	22313	301-843-1212
EMPIRE PETROLEUM TERMINALS INC.	5500 OLD OSBORNE TURNPIKE	RICHMOND	23231	804-226-9410
EN HERSHBERGER CO., INC.	717 EAST MAIN STREET	LURAY	22835	703-743-5807
ER CARPENTER CO., INC.	2400 JEFFERSON DAVIS HIGHWAY	RICHMOND	23234	804-233-8391
EVANS PAINTS	1516 CLEVELAND AVENUE	ROANOKE	24015	703-343-1521
EXIDE CORP.	2700 CHARLES CITY ROAD	RICHMOND	23231	804-226-0167
EXIDE CORP.	5608 CHARLES CITY CIRCLE	RICHMOND	23231	804-226-0167
EXPOSAIC INDUSTRIES, INC. OF VIRGINIA	NA	FREDERICKSBURG	22404	703-898-1221
FAIR OAKS HOSPITAL	3600 JOSEPH SIEWICK DRIVE	FAIRFAX	22033	703-391-3600
FAIRFAX COUNTY JAMES J. CORBALIS JR. TREAT. PL.	1250 HOLLY KNOLL DR.	HERNDON	22070	703-698-5600
FAIRFAX COUNTY LITTLE CREEK TREATMENT PLANT	8600 STOCKTON PARKWAY	ALEXANDRIA	22306	703-780-1218
FAIRFAX COUNTY LORTON TREATMENT FACILITY	9800 OX ROAD	LORTON	22079	703-698-5600
FAIRFAX COUNTY LOWER POTOMAC POLL. CONTROL PLANT	9399 RICHMOND HIGHWAY	LORTON	22079	703-691-2409
FAIRFAX COUNTY OCCOQUAN TREATMENT FACILITIES	MILL ST. EXTENDED	OCCOQUAN	22125	703-699-5600
FALLING CREEK METAL PRODUCTS, INC.	3909 BELLSON PARK DRIVE	MIDLOTHIAN	23113	804-744-1061
FANNON PETROLEUM SERVICES, INC.	1200 DUKE STREET	ALEXANDRIA	22313	703-836-1133
FAQUIER DEMOCRAT	39 CULPEPER STREET	WARRENTON	22186	703-347-4222
FARM OPERATION	ROUTE 2, BOX 210	CANA	24317	703-755-3737
FARM OPERATION	ROUTE 1, BOX 137A	LAUREL FORK	24352	703-398-2978
FEDERAL PAPER BOARD CO., INC.	COMMERCE ROAD	RICHMOND	23209	804-233-5411
FEDERAL-MOGUL CORP.	SOUTH MAIN STREET, ROUTE 460	BLACKSBURG	24060	703-951-1211
FIBERSPUN INC.	MORRIS MILL ROAD	STAUNTON	24401	703-885-1211
FIELDCREST CANNON, INC	MILL DRIVE	FIELDALE	24089	703-673-6771
FIRESTONE FIBERS AND TEXTILES COMPANY	105 WINSTON CHURCHILL DRIVE	HOPEWELL	23860	804-541-2048
FIRST AMERICAN PRINTING CO.	11824 FISHING POINT DRIVE	NEWPORT NEWS	23606	804-873-0705
FLAV-O-RICH, INC.	2537 CATHERINE STREET	BRISTOL	24203	703-699-5161
FLIPPO'S OIL CO.	3030 S. MAIN STREET	HARRISONBURG	22801	703-434-3884
FLOW LABORATORIES, INC.	RT 611, ROCK ROAD	DUBLIN	24084	703-893-5925
FLOYD COUNTY PUBLIC SERVICE AUTHORITY	ROUTE 221	FLOYD	24091	703-745-4444
FOOTE MINERAL CO.	HIGHWAY 871	DUFFIELD	24244	703-431-2201
FORD MOTOR CO. - NORFOLK ASSEMBLY PLANT	2424 SPRINGFIELD AVENUE	NORFOLK	23523	804-494-2059
FREDERICK COUNTY SANITATION AUTH. - LAKESIDE PLT	LAKESIDE DRIVE	STEPHENS CITY		703-665-5690
FREDERICK COUNTY SANITATION AUTH. - STEPHENS RUN	ROUTE 277	STEPHENS CITY	22655	703-665-5693
FREDERICK NORTHUP INC.	INT. ROUTE 3 & 360 EAST	WARSAW	22572	804-333-2688
FREEMAN CHEMICAL CORP. - FREEMAN RESINS	PITTSYLVANIA IND. PARK	CHATHAM	24531	804-432-8836
FRUIT HILL ORCHARD, INC.	ROUTE 5	WINCHESTER	22601	703-667-3390
FUEL OIL & EQUIPMENT CO., INC.	2677 ROANOKE AVENUE	ROANOKE	24141	703-345-8865
GARBER ICE CREAM COMPANY	ROUTE 522 SOUTH	WINCHESTER	22601	703-662-5422
GAZETTE	108 W. STUART DRIVE	GALAX	24333	703-236-5178
GE FANUC	RT 29 AT RT 606	CHARLOTTESVILLE	22906	804-978-5421
GENERAL BATTERY CORP.	BOX 49A RT 1	TAZEWELL	24651	703-988-5546
GENERAL CHEMICAL CORP.	607 N. MAGAZINE AVENUE	COVINGTON	24426	703-962-6444
GENERAL CHEMICAL CORP.	EAST PLANT STREET	HOPEWELL	23860	804-541-0261
GENERAL ELECTRIC CO.	MOUNTAIN VIEW ROAD	LYNCHBURG	24502	804-528-7265
GENERAL ELECTRIC CO. - DRIVE SYSTEMS DEPARTMENT	1501 ROANOKE BLVD.	SALEM	24153	703-387-7203
GENERAL ELECTRIC CO. - WINCHESTER LAMP PLANT	ROUTE 11 & STATE ROUTE 652	WINCHESTER	22601	703-665-3371
GENICOM CORP.	ONE GENERAL ELECTRIC DRIVE	WAYNESBORO	22980	703-949-1731
GENTILE BROTHERS SCREEN PRINTING, INC.	116-A HIGH STREET	EDINBURG	22824	703-984-8852
GEORGIA BONDED FIBERS, INC.	29TH STREET	BUENA VISTA	24416	703-261-2181
GEORGIA-PACIFIC	US ROUTE 1	MCKENNEY		
GEORGIA-PACIFIC CORP.	ALLEN ROAD	JARRATT	23867	804-535-8541
GLAIZE PACKING HOUSE	601 PENNSYLVANIA AVENUE	WINCHESTER	22601	703-667-3097
GLAMORGAN COAL CORP.	ROUTE 23 BYPASS	WISE	24293	703-328-8078
GLASS BOATWORKS, INC.	ROUTE 184, WEST	CAPE CHARLES	23310	804-331-3000
GLOBAL PRINTING INC.	4116 WHEELER AVENUE	ALEXANDRIA	22304	703-751-3611
GLOBAL TECHNOLOGY SYSTEMS CORP.	8900 HAMPTON BLVD.	NORFOLK	23505	804-423-4912
GLOUCESTER LUMBER PRODUCTS, INC.	RT 2 BOX 374	GLOUCESTER	23061	804-693-6988
GLOUCESTER-MATHEWS GAZETTE-JOURNAL	MAIN STREET	GLOUCESTER	23061	804-693-3101
GNB, INC.	2800 CARROLL AVENUE	LYNCHBURG	24506	804-845-1223
GOLDEN FOODS, INC.	862 NORTH LIBERTY STREET	HARRISONBURG	22801	703-833-2701
GOLDEN PEANUT COMPANY	303 SOUTH SARATOGA STREET	SUFFOLK	23434	804-934-6700
GOLDEN WEST FOODS, INC.	ORANGE STREET	BEDFORD	24523	703-586-8284
GOLDSCHMIDT CHEMICAL CORP.	914 E. RANDOLPH ROAD	HOPEWELL	23860	804-541-8658
GOODYEAR TIRE & RUBBER CO.	1435 GOODYEAR BLVD.	DANVILLE	24541	804-797-1233
GRAHAM-WHITE MANUFACTURING CO.	1209 COLORADO STREET	SALEM	24153	703-387-5600
GRAPHIC COLOR LITHO, INC.	12403 WARWICK BLVD.	NEWPORT NEWS	23606	804-595-9595
GREEN CHEMICAL CO., INC.	206 WYCK STREET	WINCHESTER	22601	703-667-1165
GREEN OIL CORP.	1708 MAGNOLIA STREET	RICHMOND	23222	804-329-3500
GRIFFIN PIPE PRODUCTS CO.	ADAMS STREET, UPPER BASIN	LYNCHBURG	24505	804-522-4780
GROGAN OIL	LYNN STREET	DANVILLE	24543	804-792-1731
GTE SOUTH	HWY 619	VANSANT	24656	703-935-8333
GTE SOUTH	ACADEMY ST	BLUEFIELD	24605	304-325-1469
GTE SOUTH	RAILROAD HWY	GRUNDY	24614	703-935-8333
GTE SOUTH	RT 61	ROCKY GAP	24366	304-325-1469
GTE SOUTH	EAST RIVER MOUNTIAN	ROCKY GAP	24366	304-325-1480
GTE SOUTH	308 W MAIN ST	TAZEWELL	24651	703-964-2700
GTE SOUTH	1402 THIRD ST	RICHLANDS	24641	703-964-2700
GTE SOUTH	HIGHWAY 643	HURLEY	24614	703-566-8705
GWALTNEY OF SMITHFIELD, LTD.	3515 AIRLINE BOULEVARD	PORTSMOUTH	23701	804-357-4321
GWALTNEY OF SMITHFIELD, LTD.	HIGHWAY #10	SMITHFIELD	23430	804-357-4321
HALIFAX COTTON MILLS, INC.	RAILROAD AVENUE	SOUTH BOSTON	24592	804-572-3965
HAMPDEN-SYDNEY COLLEGE	COLLEGE STATION	HAMPDEN-SYDNEY	23943	804-223-4381
HAMPTON CREEK ICE COMPANY	101 SOUTH KING STREET	HAMPTON	23669	804-722-1915
HAMPTON ROADS SANITATION DIS-ARMY BASE	500 SHASTA DRIVE	NORFOLK	23505	804-460-2261
HAMPTON ROADS SANITATION DIS-ATLANTIC	645 FIREFALL DRIVE	VIRGINIA BEACH	23454	804-460-2261
HAMPTON ROADS SANITATION DIS-BOAT HARBOR	300 TERMINAL AVENUE	NEWPORT NEWS	23607	804-460-2261
HAMPTON ROADS SANITATION DIS-CHESAPEAKE-ELIZABET	5332 SHORE DRIVE	VIRGINIA BEACH	23455	804-460-2261
HAMPTON ROADS SANITATION DIS-JAMES RIVER	111 CITY FARM ROAD	NEWPORT NEWS	23602	804-460-2261

APPENDIX D (continued)

SARA TITLE III SECTION 302 FACILITIES

COMPANY	ADDRESS	CITY	ZIP CODE	TELEPHONE
HAMPTON ROADS SANITATION DIS-LAMBERTS POINT	FOOT OF WEST 44TH STREET	NORFOLK	23508	804-460-2261
HAMPTON ROADS SANITATION DIS-NANSEMOND	6900 COLLEGE DRIVE	SUFFOLK	23435	804-460-2261
HAMPTON ROADS SANITATION DIS-WILLIAMSBURG	300 RON SPRINGS ROAD	WILLIAMSBURG	23185	804-460-2261
HAMPTON ROADS SANITATION DIS-YORK RIVER	515 BACK CREEK ROAD	SEAFORD	23696	804-460-2261
HAMPTON ROADS WELDERS SUPPLY CO., INC.	2330 BOWDENS FERRY ROAD	NORFOLK	23508	804-857-5301
HAMPTON UNIVERSITY	CHEMISTRY DEPT	HAMPTON	23668	804-727-5398
HANCOCK PEANUT CO.	HIGHWAY 58 WEST	COURTLAND	23837	804-653-9351
HANLON PLATING CO.	925 EAST FOURTH STREET	RICHMOND	23224	804-233-2021
HANOVER COUNTY WASTEWATER PLANT	RT 30 & 195	DOSWELL	23069	804-876-3565
HANOVER COUNTY WATER TREATMENT PLANT	RT 30	DOSWELL	23069	804-876-3565
HANSON PORCELAIN CO., INC.	3300 JOHN CAPRON ROAD	LYNCHBURG	24506	804-845-9091
HARRISONBURG-ROCKINGHAM RSA-NORTH RIVER WW PLANT	NORTH RIVER ROAD	MT. CRAWFORD	22841	703-434-1053
HASKELL CHEMICAL CO.	6101 STAPLES MILL ROAD	RICHMOND	23228	804-266-9677
HAZLETON LABORATORIES AMERICA, INC.	9200 LEESBURG PIKE	VIENNA	22180	703-893-5400
HDS FIBERS, INC.	1216 HARRIS STREET	CHARLOTTESVILLE	22901	804-296-5626
HELENA CHEMICAL CO.	381 MILLWOOD AVENUE	WINCHESTER	22601	703-667-2371
HELENA CHEMICAL CO.	TASLEY-PARKSLEY ROAD	TASLEY	23441	804-787-2033
HELENA CHEMICAL CO.	HIGHWAY 58	FRANKLIN	23851	804-653-2161
HELENA CHEMICAL CO. - W.O. HILL & SONS	RT 2, BOX 35	CANA	24317	703-755-3244
HENRY COUNTY PUBLIC SERVICE AUTH. - CARVER LAGOO	ROUTE 1714	MARTINSVILLE	24112	703-673-6515
HENRY COUNTY PUBLIC SERVICE AUTH. - LAUREL PARK	ROUTE 1607	MARTINSVILLE		703-673-6515
HENRY COUNTY PUBLIC SERVICE AUTH. - MARROWBONE	ROUTE 1360	MARTINSVILLE		703-956-2592
HENRY COUNTY PUBLIC SERVICE AUTH. - PHILPOTT PL	ROUTE 674	MARTINSVILLE		703-629-3227
HENRY COUNTY PUBLIC SERVICE AUTH. - UPPER SMITH	ROUTE 682	MARTINSVILLE		703-673-6515
HERCULES PRODUCTS, INC.	3700 MAYFLOWER DRIVE	LYNCHBURG	24501	804-846-6541
HERCULES, INC.	HIGHWAY 671	FRANKLIN	23851	804-562-3121
HERCULES, INC. - FORSTER PLANT	EDGEMONT DRIVE	COVINGTON	24426	703-962-1141
HERMLE BLACK FOREST CLOCKS	AMHERST INDUSTRIAL PARK	AMHERST	24521	804-946-7751
HERMLE BLACK FOREST CLOCKS	AMHERST INDUSTRIAL PARK	AMHERST	24521	804-946-7751
HERSHEY CHOCOLATE CO.	ROUTE 608	STUARTS DRAFT	24477	703-337-4700
HI-LINE MACHINE, INC.	703 WEST MAIN STREET	COVINGTON	24426	703-962-6148
HIGH'S ICE CREAM CORP.	1063 W. 38TH STREET	NORFOLK	23508	804-489-8741
HOECHST CELANESE	3340 WEST NORFOLK ROAD	PORTSMOUTH	23703	804-483-7000
HOLLY FARMS POULTRY INDUSTRIES, INC.	501 NORTH LIBERTY STREET	HARRISONBURG	22801	703-433-0720
HOLLY FARMS POULTRY INDUSTRIES, INC.	U.S. HIGHWAY 13	TEMPERANCEVILLE	23442	804-824-3471
HOLLY FARMS POULTRY INDUSTRIES, INC.	3301 U.S. 33	GLEN ALLEN	23060	804-798-8357
HOLLY FARMS POULTRY INDUSTRIES, INC.	U.S. HIGHWAY #360	CREWE	23930	804-645-7791
HOLLY FARMS POULTRY INDUSTRIES, INC.	OLD CROSS STREET	NEW MARKET	22844	703-740-3171
HOLLY FARMS POULTRY INDUSTRIES, INC.	STAR ROUTE #803	BROADWAY	22815	703-896-7093
HOMES OIL CO., INC.	9518 LEE HIGHWAY	FAIRFAX	23030	301-731-2800
HOMES OIL CO., INC.	6241 RICHMOND HIGHWAY	ALEXANDRIA	22303	301-731-2800
HON CO.	11200 OLD STAGE ROAD	CHESTER	23831	804-796-3116
HOOKER FURNITURE CORP.	2005 GREENBRIER AVENUE	ROANOKE	24013	703-344-4328
HOOKER FURNITURE CORP.	E. CHURCH AND HOOKER ST.	MARTINSVILLE	24112	703-632-2133
HOOVER & STRONG INC.	10700 TRADE ROAD	RICHMOND	23236	804-794-3700
HOOVER TREATED WOOD PRODUCTS	ROUTE 640	MILFORD	22514	804-633-5021
HOPEWELL PUBLISHING CO.	516 E. RANDOLPH ROAD	HOPEWELL	23860	804-458-8511
HOUFF FEED & FERTILIZER, INC.	RT 276	MOUNT CRAWFORD	22841	703-234-9246
HOWMET TURBINE COMPONENTS CORP.	1 HOWMET DRIVE	HAMPTON	23661	804-838-4680
HUBBELL LIGHTING DIVISION	2000 ELECTRIC WAY	CHRISTIANSBURG	24073	703-382-6111
HUFF PETROLEUM CO., INC.	30 LAGRANGE STREET	PULASKI	24301	703-980-1012
HURST HARVEY OIL CO., INC.	WAVERLY AVE.	KILMARNOCK	22482	804-435-1335
IBM	9500 GODWIN DRIVE	MANASSAS	22110	703-367-5289
ICI AMERICAS - HOPEWELL WORKS	DISCOVERY DRIVE	HOPEWELL	23860	804-541-9379
IMPERIAL ADHESIVES, INC.	1920 ROSE LANE	LYNCHBURG	24505	804-845-4526
IMPERIAL NURSERIES	8309 QUARRY ROAD	MANASSAS	22110	203-653-4541
INDUSTRIAL CHEMICALS, INC.	2540 BELLWOOD ROAD	RICHMOND	23234	804-275-9291
INDUSTRIAL DRIVES	201 ROCK ROAD	RADFORD	24141	703-639-2495
INFLICO DEGREMONT, INC.	2924 EMERYWOOD PARKWAY	RICHMOND	23229	804-281-7600
INFRACORP, LDT.	2999 FRONTAGE ROAD	PETERSBURG	23805	804-861-2431
INLAND MOTOR, KOLLMORGEN CORP.	501 FIRST STREET	RADFORD	24141	703-639-9045
INTERBAKE FOODS, INC.	900 TERMINAL PLACE	RICHMOND	23261	804-257-7445
INTERNATIONAL CIRCUIT TECHNOLOGY	1104 MCCONVILLE ROAD	LYNCHBURG	24502	804-237-6391
INTERTAPE, INC.	STATE ROUTE 730	RINGGOLD	24586	804-797-TAPE
ITT CORP. - ELECTRO-OPTICAL PRODUCTS DIVISION	7635 PLANTATION ROAD	ROANOKE	24019	703-563-0371
ITT CORP. - GALLIUM ARSENIDE TECH CENTER	7670 ENON DRIVE	ROANOKE	24019	703-563-8655
JACK GARST AGENCY, INC.	MAIN STREET	BOONES MILL	24065	703-334-5880
JAMES RIVER CORP. - CONVERTING DIVISION	TREDEGAR STREET	RICHMOND	23217	804-649-4240
JAMES RIVER CORP. - FILTRATION PRODUCTS	4700 DEEPWATER TERMINAL RD	RICHMOND	23234	804-649-4236
JEFFERSON MILLS	RANDOLPH AVENUE	PULASKI		703-980-1530
JOHN D. GLOVER & SONS INC.	U.S. ROUTE 11N	WINCHESTER	22601	703-667-1440
JOHNSTON-WILLIS HOSPITAL	1401 JOHNSTON-WILLIS DRIVE	RICHMOND	23235	804-320-2900
JONES CHEMICALS	ROUTE 640 SOUTH	MILFORD	22514	804-633-5066
JP STEVENS & CO., INC. - AUTOPRODUCTS DIVISION	WOOLWINE PLANT	WOOLWINE	24185	703-930-2323
JP STEVENS & CO., INC. - BROOKNEAL PLANT	HIGHWAY 501 NORTH	BROOKNEAL	24528	804-376-2311
JR SMITH OIL CO., INC.	70 W. SULLINS STREET	BRISTOL	24201	703-669-9413
JT TOWNES INC.	1095 RIVERSIDE DR.	DANVILLE	24541	800-437-7237
JW FERGUSON & SONS, INC.	4107 CASTLEWOOD ROAD	RICHMOND	23234	804-275-2611
KAWNEER COMPANY, INC.	1551 COUNTRY CLUB ROAD	HARRISONBURG	22801	703-433-2711
KDI ELECTRO-TEC CORP.	1600 NORTH MAIN STREET	BLACKSBURG	24060	703-552-2111
KEL-WOOD TIMBER PRODUCTS CO.	ROUTE 615 SOUTH	PROVIDENCE FORGE	23140	804-966-2329
KEMPSVILLE TOPS & SUPPLY INC.	901 PROFESSIONAL PLACE	CHESAPEAKE	23320	804-547-4303
KEYSTONE ENVIRONMENTAL RESOURCES, INC.	ROANOKE FACILITY	ROANOKE		412-227-2683
KIRBY LITHOGRAPHIC CO., INC.	2900 S. EADS STREET	ARLINGTON	22202	703-684-7600
KLANN INC.	301 FOURTH STREET	WAYNESBORO	22980	703-943-5160
KOCH FUELS, INC.	4110 DEEP WATER TERMINAL ROAD	RICHMOND	23234	804-230-9366
KOPPENS SCHLUMBERGER	3601 KOPPENS WAY	CHESAPEAKE	23323	804-487-0077
KOPPER'S CO., INC.	RT 460	SALEM	24153	703-380-2061
KRAFT INC.	HIGHWAY 21 NORTH	INDEPENDENCE	24348	703-773-2981
KREMER OIL CORP.	1936 VALLEY AVENUE	WINCHESTER	22601	703-662-3848
KROGER CO.	ROUTE 3 GARMAN ROAD	SALEM	24153	703-387-5259
LADD INDUSTRIES	HIGHWAY 40 WEST	KENBRIDGE	23944	804-676-8232
LANE COMPANY, INC.	EAST FRANKLIN AVENUE	ALTAVISTA	24517	804-369-5641
LANINGHAM OIL CO.	U.S. ALT. 58 W.	PENNINGTON GAP	24277	703-546-2633
LAROCHE INDUSTRIES INC.	672 CAROLINE ROAD	SUFFOLK	23434	804-539-7185
LE HUTCHENS, INC.	1025 INDUSTRIAL PARK	STUART	24171	703-694-7000
LEA INDUSTRIES - LADD FURNITURE	HIGHWAY 40 WEST	KENBRIDGE	23944	804-676-8232
LEAKE PRINTING CO.	20 N. 20TH STREET	RICHMOND	23223	804-648-1403
LEBANON CHEMICAL, CORP.	HIGHWAY 360 E., ROUTE 3	DANVILLE	24543	717-273-1687
LEBANON CHEMICAL, CORP.	103 NORTH MAIN STREET	STUARTS DRAFT	24477	717-273-1687
LEBANON CHEMICAL, CORP.	397 ELM STREET	ABINGDON	24210	717-273-1687
LEBANON CHEMICAL, CORP.	LIVELY TERMINAL	LIVELY	22507	717-273-1687
LEBANON CHEMICAL, CORP.	AIRPORT ROAD	TAPPAHANNOCK	22560	717-273-1687

SARA TITLE III SECTION 302 FACILITIES

COMPANY	ADDRESS	CITY	ZIP CODE	TELEPHONE
LEBANON CHEMICAL, CORP.	CHESAPEAKE DRIVE	BRIDGEWATER	22812	717-273-1687
LEBANON CHEMICAL, CORP.	500 TIDEWATER CHEM ROAD	CHESAPEAKE	23322	717-273-1687
LEBANON CHEMICAL, CORP.	KING GEORGE COUNTY	SEALSTON	22547	717-273-1687
LEBANON CHEMICAL, CORP.	HIGHWAY 47	CHASE CITY	23924	717-273-1687
LEBANON CHEMICAL, CORP.	122 E. CHURCH STREET	ORANGE	22960	717-273-1687
LEBANON CHEMICAL, CORP.	BOX 7677, RICHMOND GUANO CO.	RICHMOND	23231	717-273-1687
LEBANON CHEMICAL, CORP.	ROUTE 917	NARUNA	24576	717-273-1687
LEBANON CHEMICAL, CORP.	ROUTE 360	WARSAW	22572	717-273-1687
LEBANON CHEMICAL, CORP.	RT 13	CAPE CHARLES	23310	717-273-1687
LEBANON CHEMICAL, CORP.	TOWNSEND WAREHOUSE	CAPEVILLE	23313	717-273-1687
LEBANON CHEMICAL, CORP.	MATHEWS TERMINAL	COBBS CREEK	23035	717-273-1687
LEBANON CHEMICAL, CORP.	P.O. BOX 1660	WEST POINT	23181	717-273-1687
LEBANON CHEMICAL, CORP.	AIRPORT ROAD	KINSALE	22488	717-273-1687
LEE CO.	HIGHWAY 259	BROADWAY	22815	703-896-7053
LEE LABORATORIES, INC.	2999 FRONTAGE ROAD	PETERSBURG	23805	804-861-2431
LEIGH MEMORIAL HOSPITAL	830 KEMPSVILLE ROAD	NORFOLK	23502	804-466-6000
LIMITORQUE CORPORATION	5114 WOODALL ROAD	LYNCHBURG	24506	804-528-4400
LINDE CORP.	3201 NORTH ARMISTEAD AVE	HAMPTON	23666	804-865-0801
LINE POWER MANUFACTURING CORP.	329 WILLIAMS STREET	BRISTOL	24203	703-466-8200
LIQUID CARBONIC CARBON DIOXIDE, CORP.	221 N. HOPEWELL ST	HOPEWELL	23860	804-541-8400
LITTON POLY-SCIENTIFIC	1213 NORTH MAIN STREET	BLACKSBURG	24060	703-552-3011
LOFTON CORP.	ROUTE 666	LOFTON	22980	703-377-2186
LOGETRONICS, INC.	7001 LOISDALE ROAD	SPRINGFIELD	22150	703-971-1400
LOMBART OPTICAL OF VA.	1215 BOISSEVAIN AVENUE	NORFOLK	23507	804-625-7866
LONG MANUFACTURING CO.,INC.	1135 COMMERCE STREET	PETERSBURG	23803	804-732-8444
LONG-AIRDOX	NEWBERN ROAD	PULASKI		703-980-4530
LORING J. WRIGHT & SON, INC.	U.S. HIGHWAY 11 NORTH	WINCHESTER	22601	703-667-2061
LOUISA FEED SERVICE, INC.	ROUTE 22 EAST	LOUISA	23093	703-967-0225
LOWERY PRINTING CO.	7035 COLUMBIA PIKE	ANNANDALE	22003	703-354-3511
LR WATERS INC.	641 JAMES MADISON HIGHWAY	CULPEPER	22701	703-825-2100
LUKENS CORP.	1117 JEFFERSON STREET	LYNCHBURG	24504	804-846-6400
LYDALL, INC.	CLIFTON FORGE OPER.	CLIFTON FORGE	24422	703-862-4111
LYNCHBURG COLLEGE	1501 LAKESIDE DRIVE	LYNCHBURG	24501	804-522-8204
LYNCHBURG FOUNDRY CO.	GARNETT STREET & CONCORD ST	LYNCHBURG	24505	703-981-8395
LYNCHBURG FOUNDRY CO.	1605 FIRST STREET	RADFORD	24141	703-731-0411
LYNCHBURG FOUNDRY CO.	ROUTE 726	LYNCHBURG	24505	804-528-8770
LYNCHBURG STEEL & SPECIALTY COMPANY	US ROUTE 29	MONROE	24574	804-929-0951
MADDOX OIL CO.	1425 SEYMOUR DRIVE	SOUTH BOSTON	24592	804-572-3332
MADISON - RM CO., INC.	135 COMMUNITY STREET	HARRISONBURG	22801	703-434-8669
MAGNOX PULASKI, INC.	720 COMMERCE STREET	PULASKI	24301	703-980-3500
MAIDA DEVELOPMENT CO.	20 LIBBY STREET	HAMPTON	23663	804-723-0785
MANVILLE PRODUCTS GROUP	RT 2 BOX 363	EDINBURG	22824	703-984-4171
MARCO WAREHOUSE - DU PONT WAREHOUSE	FONTAINE DRIVE, RIDGEWAY	MARTINSVILLE	24148	703-638-3146
MARCO WAREHOUSE - FRITH # II & IV	FONTAINE DRIVE, RIDGEWAY	MARTINSVILLE	24148	703-638-3146
MARSTELLER CORP.	1809 FRANKLIN ROAD S.W.	ROANOKE	24032	703-344-6621
MARTIN PROCESSING, INC.	ST RT 683 WHITBY ACRES	FIELDALE	24089	703-629-1711
MASONITE CORP. - PARTICLEBOARD DIVISION	721 W. MAIN STREET	WAVERLY	23890	804-834-2201
MASONITE, CORP.	COMMERCE STREET	STUART	24171	703-694-7151
MASTICS	ROUTE 909	STUARTS DRAFT	24477	
MATHIAS BROTHERS INC.	ROUTE 11 SOUTH	NEW MARKET	22844	703-740-3313
MATLACK, INC.	5115 PRINCE GEORGE DRIVE	PRINCE GEORGE	23875	302-479-2700
MAXWELL GRAPHICS RICHMOND, INC.	7400 IMPALA DRIVE	RICHMOND	23225	804-264-8732
MCCREADY LUMBER	ROUTE 99	PULASKI	24301	703-980-8700
MCDOLE-DUSEK IND. INC.	BROOK ROAD, STEIN INDUSTRIAL	WINCHESTER	22601	703-667-7983
MCI TELECOMMUNICATIONS CORPORATION	5156 FRANCISTOWN ROAD	GLEN ALLEN	23060	804-346-3360
MCI TELECOMMUNICATIONS CORPORATION	LAT 37N 20',22"/LONG 80,04,14			804-346-3360
MCI TELECOMMUNICATIONS CORPORATION	RURAL ROUTE 1, BOX 230	EVINGTON	24550	804-346-3360
MCQUAY/SNYDER GENERAL, CORP.	HIGHWAY #612	VERONA	24482	703-248-9515
MEDECO	U.S. 11 W. ALLEGHENY DRIVE	SALEM	24153	703-380-5000
MEEKS PRINTING SUPPLY CO.	1125 NORTH ROYAL STREET	ALEXANDRIA	22314	703-548-3800
MEMORIAL HOSPITAL	142 SOUTH MAIN STREET	DANVILLE	24541	804-799-2240
MERCK CHEMICAL MANUFACTURING DIVISION	HIGHWAY 340 SOUTH	ELKTON	22827	703-298-4110
MEREDITH/BURDA	4201 MURRAY PLACE	LYNCHBURG	24506	804-522-7400
MG INDUSTRIES	5901 JEFFERSON DAVIS HWY	RICHMOND	23234	804-275-7813
MG INDUSTRIES	310 SOUTH DELPHINE AVENUE	WAYNESBORO	22980	703-943-0256
MID-ATLANTIC COCA-COLA BOTTLING CO., INC.	5401 SEMINARY ROAD	ALEXANDRIA	22311	703-820-2323
MILLHISER INC.	1125 COMMERCE ROAD	RICHMOND	23224	804-233-9886
MILO C. COCKERHAM INC.	RAILROAD AVENUE	GALAX	24333	703-236-5194
MITCO WATER LABORATORIES INC.	4950 BAINBRIDGE BLVD	CHESAPEAKE	23320	813-967-4456
MOBIL OIL CORP.	10315 BALLS FORD ROAD	MANASSAS	22110	813-247-3911
MODINE MANUFACTURING CO.	1221 MAGNOLIA AVENUE	BUENA VISTA	24416	703-261-2166
MODINE MFG CO.-ROCKBRIDGE PLANT	RT 11S	LEXINGTON	24450	703-261-2166
MOLINS MACHINE CO., INC.	3900 CAROLINA AVENUE	RICHMOND	23222	804-329-9081
MONTGOMERY PSA - ELLISTON/LAFAYETTE WW TREATMENT	MONTGOMERY CTY INDUSTRIAL PARK	BLACKSBURG	24060	703-268-5143
MONTGOMERY PSA - RINER WASTEWATER TREATMENT PLAN	MONTGOMERY CTY INDUSTRIAL PARK	BLACKSBURG	24060	703-268-5143
MONTGOMERY PSA - SHAWSVILLE WW TREATMENT PLANT	MONTGOMERY CTY INDUSTRIAL PARK	BLACKSBURG	24060	703-268-5143
MOORE BUSINESS FORMS & SYSTEMS DIV.	300 LANSDOWNE ROAD	FREDERICKSBURG	22401	703-371-4140
MORRISON MOLDED FIBERGLASS CO.	400 COMMONWEALTH AVENUE	BRISTOL	24203	703-669-1150
MORTON INTERNATIONAL	BLUEFIELD HIGHWAY	WYTHEVILLE	24382	703-228-7821
MORTON THIOKOL, INC. - DYNACHEM CORPORATION	13860 PARK CENTER ROAD	HERNDON	22071	703-435-9600
MOSHER STEEL CO.	1002 HOLLINS ROAD N.E.	ROANOKE	24012	703-342-7869
MY HOME CABINET SHOP	12501 LEE HIGHWAY	FAIRFAX	22030	703-631-0554
NABISCO BRANDS, INC.	1032 CAVALIER BLVD.	CHESAPEAKE	23323	804-485-1385
NABISCO BRANDS, INC.	6002 LABURNUM AVE.	RICHMOND	23150	804-934-6200
NABISCO BRANDS, INC.	420 WOODLAKE DRIVE	CHESAPEAKE	23230	804-485-1385
NABISCO BRANDS, INC.	2200 JOHNSON AVE.	SUFFOLK	23234	804-934-6200
NANSEMOND COLD STORAGE CO., INC.	160 COUNTY STREET	SUFFOLK	23434	804-539-0273
NASA	GODDARD SPACE FLIGHT CENTER	WALLOPS ISLAND	23337	804-824-1152
NATIONAL FRUIT	550 FAIRMONT AVENUE	WINCHESTER	22601	703-662-3401
NEAGLES FLEXO CORP.	303 S. RICHARDSON ROAD	ASHLAND	23005	804-798-1501
NEW RIVER CASTING CO.	1701 FIRST STREET	RADFORD	24143	703-731-0529
NEWBILL PRINTING CO.	ROUTE 4, BOX 370F	PETERSBURG	23803	804-733-3166
NEWPORT NEWS SHIPBUILDING & DRYDOCK	4101 WASHINGTON AVENUE	NEWPORT NEWS	23607	804-380-2959
NI INDUSTRIES, INC.	U.S. 58-421 WEST	DUFFIELD	24244	703-431-2641
NIBCO INC.	ROUTE 340 SOUTH	STUARTS DRAFT	24477	703-337-1213
NORFOLK & WESTERN RAILWAY CO.	SHAFFERS CROSSING, AT 24TH STR	ROANOKE	24064	703-981-3595
NORFOLK & WESTERN RAILWAY CO.	8 1/2 ST. & CAMPBELL AVENUE	ROANOKE	24042	703-981-3595
NORFOLK & WESTERN RAILWAY CO.	38TH & POWHATAN	NORFOLK	23508	703-981-3595
NORFOLK INTERATION AIRPORT	NORVIEW AVENUE	NORFOLK	23501	804-857-3351
NORFOLK INTERNATIONAL TERMINALS	7737 HAMPTON BLVD.	NORFOLK	23505	804-440-7000
NORFOLK SHEET METAL WORKS, INC.	215 EAST 25TH STREET	NORFOLK	23504	804-625-7923
NORFOLK SHIPBUILDING & DRYDOCK	FOOT OF LIBERTY STREET	NORFOLK	23501	804-545-3551
NORFOLK WAREHOUSE CO., INC.	6969 TIDEWATER DRIVE	NORFOLK	23501	804-857-6081

APPENDIX D (continued)

SARA TITLE III SECTION 302 FACILITIES

COMPANY	ADDRESS	CITY	ZIP CODE	TELEPHONE
NORTON COMMUNITY HOSPITAL	100 15TH STREET,N.W.	NORTON	24273	703-679-1221
NOVA BLUE INC.	10141 SUNSET HILLS ROAD	RESTON	22090	703-631-6700
NOVA BLUE INC.	4013 EAST STREET	FAIRFAX	22032	703-631-6700
NOVA BLUE INC.	14101 SULLYFIELD CIRCLE	CHANTILLY	22031	703-631-6700
O'SULLIVAN CORPORATION	BICKERS STREET	WINCHESTER	22601	703-665-9531
O'SULLIVAN CORPORATION	BATTALIE DRIVE	WINCHESTER	22601	703-665-9531
OGDEN MARTIN SYSTEMS	5301 EISENHAUER AVENUE	ALEXANDRIA	22304	703-370-7722
OIL HEAT & BURNER SERVICE, INC.	825 SMITHFIELD AVENUE	WINCHESTER	22601	703-662-3861
OIL HEAT & BURNER SERVICE, INC.	211 EAST 2ND STREET	FRONT ROYAL	22630	703-636-6156
OLD DOMINION PROSTHETICS, INC.	2127 BERKMAR DRIVE	CHARLOTTESVILLE	22901	804-973-6209
OLD DOMINION UNIVERSITY	CHEMISTRY DEPT	NORFOLK	23508	804-440-4009
OLD DOMINION WOOD PRESERVERS	1177 HOSIER ROAD	SUFFOLK	23434	804-934-1140
OLDE PETERSBURG PRINTERS, INC.	233 NORTH SYCAMORE STREET	PETERSBURG	23803	804-861-0220
ONTARIO HARDWOOD CO., INC.	ROYTE 3, BOX 380	KEYSVILLE	23947	804-736-9291
OPTICAL INNOVATIONS	ROUTE 4	PETERSBURG		
ORANGE-MADISON COOP. FARM SERVICE, INC.	ROUTES 15 & 33	GORDONSVILLE	22942	703-672-2977
ORANGE-MADISON COOP. FARM SERVICE, INC.	WALKER STREET	ORANGE	22960	703-672-2977
ORANGE-MADISON COOP. FARM SERVICE, INC.	ROUTE 29	MADISON	22727	703-672-2977
OWENS-ILLINOIS BIG ISLAND MILL SIS, INC.	HIGHWAY 501	BIG ISLAND	24526	804-299-5911
OWENS-ILLINOIS GLASS CONTAINER, INC.	150 INDUSTRIAL BOULEVARD	TOANO	23168	804-566-1200
PAGE MEMORIAL HOSPITAL, INC.	200 MEMORIAL DRIVE	LURAY	22835	703-743-4561
PARAGON PRINTING, INC.	5801 SEMINARY ROAD	FALLS CHURCH	22041	703-379-9300
PARK OIL CO., INC.	MADISON STREET EXT.	BOYDTON	23917	804-738-6313
PARK WOODWORKING, INC.	2710 LOCKPORT PLACE	LORTON	22079	703-550-8208
PARKER OIL CO., INC.	HIGHWAY 695	LAWRENCEVILLE	23868	804-848-3370
PARKER OIL CO., INC.	HIGHWAY 301	EMPORIA	23847	804-634-2828
PARKER OIL CO., INC.	829 MILLER STREET	PETERSBURG	23803	804-447-3146
PARKER OIL CO., INC.	1428 W. DANVILLE STREET	SOUTH HILL	23970	804-447-3146
PARKER OIL CO., INC.	HIGHWAY 40	CHARLOTTE COURT HOUSE	23923	804-542-5181
PARKER OIL CO., INC.	1501 ELM STREET	HOPEWELL	23860	804-458-1213
PARKER OIL CO., INC.	617 SOUTH MAIN STREET	CHASE CITY	23924	804-372-4616
PELTZ BROTHERS, INC.	3499 INVENTORS ROAD	NORFOLK	23502	612-332-7371
PEPSI-COLA - 7-UP BOTTLING OF RICHMOND	1735 SUMMIT AVENUE	RICHMOND	23230	804-358-5576
PEPSI-COLA BOTTLERS	RT. 11 NORTH	HOLLINS	24019	703-992-2661
PEPSI-COLA BOTTLERS OF LYNCHBURG	CANDLERS MTN RD & MAYFLOWER DR	LYNCHBURG	24502	703-992-2661
PEPSI-COLA BOTTLING CO. OF CENTRAL VA	1150 PEPSI PLACE	CHARLOTTESVILLE	22906	804-978-2140
PERDUE, INC.	RT 360 & RT 17	TAPPAHANNOCK	22580	301-543-3749
PERDUE, INC.	RT 58 W	EMPORIA	23847	301-543-3749
PERDUE, INC.	ROUTE 13	ACCOMAC	23301	804-787-2700
PERDUE, INC.	100 QUALITY STREET	BRIDGEWATER	22812	301-543-3749
PHILIP MORRIS, USA	2301 EVERETT STREET	RICHMOND	23224	804-274-2000
PHILIP MORRIS, USA	4100 BERMUDA HUNDRED ROAD	CHESTER	23831	804-274-2000
PHILIP MORRIS, USA	20TH & CARY STREET	RICHMOND	23219	804-274-2000
PHILIP MORRIS, USA	3601 COMMERCE ROAD	RICHMOND	23234	804-274-2000
PHILIP MORRIS, USA	700 STOCKTON STREET	RICHMOND	23224	804-274-2000
PHILIP MORRIS, USA	MAURY & CLOPTON STREET	RICHMOND	23224	804-274-2000
PHILIP MORRIS, USA	1715 MERRIMAC TRAIL	WILLIAMSBURG	23185	804-274-2000
PIEDMONT LABEL CO. INC.	311 WEST DEPOT STREET	BEDFORD	24533	703-586-2311
PIEDMONT MANUFACTURING COMPANY	205 FRAZIER ROAD	ALTAVISTA	24517	804-369-4741
PITTMAN CO.	5010 WEST CLAY STREET	RICHMOND	23230	201-865-8300
PITTS LUMBER CO., INC.	ROUTE 17	SALUDA	23149	804-758-2517
PLANT FOOD PRODUCTS, INC.	406 E. RANDOLPH ROAD	HOPEWELL	23860	804-458-6301
PLANTERS, INC.	318 CHURCH STREET	BLACKSTONE	23824	804-292-7259
PLUMMER PRINTING CO., INC.	122 WEST TABB STREET	PETERSBURG	23803	804-733-7373
POLY-SCIENTIFIC	1213 NORTH MAIN STREET	BLACKSBURG	24060	703-552-3011
POLYPENCO, INC.	HWY 21-52N	WYTHEVILLE	24382	703-228-5423
POTOMAC AIR GAS - SOUTHERN DIVISION	801 AIR PARK ROAD, HANOVER IND	ASHLAND	23005	804-798-1577
POTOMAC AIRGAS, INC.	13740 DABNEY ROAD	WOODBRIDGE	22191	703-548-2200
POTOMAC CONCRETE CONSTRUCTION COMPANY	2318 MILL ROAD	ALEXANDRIA	22301	703-525-2680
POTOMAC EDISON CO.	ROUTE 11	STEPHENS CITY	22655	703-662-4101
POTOMAC ELECTRIC POWER CO.	1400 NORTH ROYAL STREET	ALEXANDRIA	22314	202-331-6534
POTOMAC NEWS	14010 SMOKETOWN ROAD	WOODBRIDGE	22192	703-670-8151
POWELL MOUNTAIN COAL CO., INC.	2537 4TH AVENUE, EAST	BIG STONE GAP	24219	703-523-4932
PRESTO PRODUCTS INC.	HIGHWAY 58 WEST	SOUTH BOSTON	24592	804-572-6961
PRILLAMAN CHEMICAL, CORP.	825 FISHER STREET	MARTINSVILLE	24112	703-638-8829
PRILLAMAN CHEMICAL, CORP.	1001 OLD BERMUDA HUNDRED ROAD	CHESTER	23831	703-638-8829
PRINCE GEORGE DEPARTMENT OF UTILITIES	6400 COURTHOUSE ROAD	PRINCE GEORGE	23875	804-733-2614
PRINCE WILLIAM COUNTY SERVICE AUTHOR. - WWTP	DEPUTY DIRECTOR, WASTEWATER	WOODBRIDGE	22191	703-670-8101
PRINCE WILLIAM SERVICE AUTHORITY - MAIN OFFICE	14610 JEFFERSON DAVIS HWY.	WOODBRIDGE	22191	703-670-8101
PRODUCTION METAL FINISHERS, INC.	1802 CURRIE STREET	RICHMOND	23220	804-643-8116
PROGRESS PRINTING CO.	3523 WATERLICK ROAD	LYNCHBURG	24502	804-239-9213
PT COMPONENTS INC.	ROUTES 340 AND 909	STUARTS DRAFT	24477	703-337-3510
PULASKI COUNTY - DRAPER WATER TREATMENT PLANT	ROUTE 806	NEWBERN		703-980-5902
PULASKI COUNTY - NEW RIVER PUMP STATION	ROUTE 622	FAIRLAWN		703-639-3947
PULASKI COUNTY - PEPPERS FERRY WW TREATMENT PLAN	ROUTE 114	FAIRLAWN		703-639-3947
PULASKI COUNTY - WATER TREATMENT PLANT	8TH STREET	PULASKI		703-980-2000
RADFORD ARMY AMMUNITION PLANT	ROUTE 114	RADFORD	24141	703-639-7214
RADFORD COMMUNITY HOSPITAL	8TH & RANDOLPH STREET	RADFORD	24143	703-731-2000
RADFORD UNIVERSITY	DEDMOND CENTER	RADFORD	24142	703-831-5346
RADIATION SYSTEMS, INC.	1501 MORAN ROAD	STERLING	22170	703-450-5680
RAJ CHEMICALS	121 REPUBLIC RD	CHESAPEAKE	23324	804-543-2881
RAPIDAN SERVICE AUTHORITY	RUTH RD MADISON	RUCKERSVILLE	22727	804-985-7811
RAPIDAN SERVICE AUTHORITY	STONEWALL AVENUE	GORDONSVILLE	22942	804-985-7811
RAPIDAN SERVICE AUTHORITY	RT 33	STANARDSVILLE	22973	804-985-7811
RAY SAUER, INC.	RT 3 BOX 70	TREVILIANS	23093	703-967-0067
RCS-SMITHFIELD INCORPORATED	HIGHWAY 10 NORTH	SMITHFIELD	23430	804-357-0434
RED MILLS MANUFACTURING, INC.	EXPO ROAD	FISHERSVILLE	22939	703-337-1570
REGAL WARE, INC.	2820 CRUSADER CIRCLE	VIRGINIA BEACH	23456	804-468-3500
REGIONAL ENTERPRISES, INC.	410 WATER STREET	HOPEWELL	23860	804-748-3666
REHRIG INTERNATIONAL	901 NORTH LOMBARDY STREET	RICHMOND	23220	804-355-7864
RELIANCE UNIVERSAL INC.	2837 ROANOKE AVE., S.W.	ROANOKE	24015	703-982-8301
RENFRO CORPORATION	28 SOUTH JEFFERSON AVENUE	PULASKI		703-655-4077
REYNOLDS ALUMINUM	ROUTE 340	GROTTOES	24441	703-249-5711
REYNOLDS METALS CO. BELLWOOD EXTRUSION	1901 REYMET ROAD	RICHMOND	23237	804-743-6459
REYNOLDS METALS CO. BELLWOOD PLANT NUBER 44	1701 REYMET ROAD	RICHMOND	23237	804-743-6707
REYNOLDS METALS CO. BELLWOOD PRINTING	2001 REYMET ROAD	RICHMOND	23227	804-743-6231
REYNOLDS METALS CO. BELLWOOD RECLAMATION	1711 REYMET ROAD	RICHMOND	23227	804-743-6504
REYNOLDS METALS CO. METALURGY LAB	401 E. CANAL STREET	RICHMOND	23219	804-788-6231
RIBCO PRODUCTS, INC.	1015 TYLER STREET	FREDERICKSBURG	22401	703-371-8626
RICHMOND CEDAR WORKS MANUFACTURING, CORP.	400 BRIDGE STREET	DANVILLE	24541	804-797-4444
RICHMOND COLD STORAGE CO., INC.	420 NORTH 18TH STREET	RICHMOND	23223	804-644-2671
RICHMOND PRESSED METAL WORKS, INC.	506 MAURY STREET	RICHMOND	23224	804-233-8371
RICHMOND PRINTED TAPE & LABEL CO.	108 AIR PARK ROAD EXT.	ASHLAND	23005	804-798-4753

SARA TITLE III SECTION 302 FACILITIES

COMPANY	ADDRESS	CITY	ZIP CODE	TELEPHONE
RIDGEWAY CLOCKS	ROUTE 3 STATE ROAD 902	RIDGEWAY	24148	703-956-3111
RIVANNA WATER & SEWER AUTHORITY	FRANKLIN STREET	CHARLOTTESVILLE	22902	804-977-2970
RIVANNA WATER & SEWER AUTHORITY	UVA DORM AREA	CHARLOTTESVILLE	22902	804-977-2970
RIVANNA WATER & SEWER AUTHORITY	WOODBURN ROAD NEAR RESERVOIR	CHARLOTTESVILLE	22902	804-977-2970
RIVANNA WATER & SEWER AUTHORITY	NEAR CAMELOT SUBSIVISION	CHARLOTTESVILLE	22902	804-977-2970
RIVANNA WATER & SEWER AUTHORITY	NORTH FORK OF RIVANNA, NEAR 29	CHARLOTTESVILLE	22902	804-977-2970
RIVANNA WATER & SEWER AUTHORITY	BEAVER CREEK RESERVOIR	CHARLOTTESVILLE	22902	804-977-2970
RIVANNA WATER & SEWER AUTHORITY	TOTIER CREEK RESERVOIR	CHARLOTTESVILLE	22902	804-977-2970
RIVANNA WATER & SEWER AUTHORITY	SCOTTSVILLE SEWAGE LAGOON	CHARLOTTESVILLE	22902	804-977-2970
RIVERTON, CORP.	STATE ROUTE 637	RIVERTON	22651	703-635-4131
RKO BOTTLERS OF VIRGINIA	211 WASHINGTON AVENUE	MARION	24354	219-484-9613
ROANOKE CITY MILLS, INC.	1702 SOUTH JEFFERSON STREET	ROANOKE	24006	703-343-9383
ROANOKE COLLEGE	COLLEGE AVENUE	SALEM	24153	703-375-2310
ROBERTS OXYGEN COMPANY	8607 QUARRY ROAD	MANASSAS	22110	703-631-2722
ROBERTSHAW CONTROLS CO.	HIGHWAY 58 WEST	INDEPENDENCE	24348	703-773-2771
ROCCO FARM FOODS, INC.	ROUTE 3, BOX 370	EDINBURG	22824	703-984-4121
ROCCO FURTHER PROCESSING	COOP DRIVE	TIMBERVILLE	22853	703-896-7041
ROCCO TURKEYS, INC.	MOSBY ROAD	DAYTON	22821	703-879-2521
ROCK-TENN COMPANY	1801 CONCORD TURNPIKE	LYNCHBURG	24505	804-847-5521
ROCKINGHAM COOP. FARM BUREAU, INC.	800 CO-OP DRIVE	TIMBERVILLE	22853	703-896-8083
ROCKINGHAM COOP. FARM BUREAU, INC.	101 GRACE STREET	HARRISONBURG	22801	703-434-3856
ROCKINGHAM COOP. FARM BUREAU, INC.	107 DEPOT ROAD	BRIDGEWATER	22812	703-828-3672
ROCKINGHAM COOP. FARM BUREAU, INC.	WEST SPRING ST.	WOODSTOCK	22664	703-459-2171
ROCKINGHAM COUNTY - MCGAHEYSVILLE SEWAGE PLANT		MCGAHEYSVILLE		703-434-4455
ROCKINGHAM COUNTY - MCGAHEYSVILLE WATER TREATMT.	ROUTES 650 & 651	MCGAHEYSVILLE		703-434-4455
ROCKINGHAM COUNTY - MCGAHEYSVILLE WW TREATMENT	SOUTH OF ROUTE 641	MCGAHEYSVILLE		703-434-4455
ROCKINGHAM POULTRY	COOP DRIVE	BROADWAY	22815	703-896-7001
ROCKY TOP WOOD PRESERVERS	NORTH MAIN STREET	ROCKY MOUNT	24151	703-483-5265
ROSS LABORATORIES	U.S. ROUTE 29	ALTAVISTA	24517	804-369-3250
ROYAL CROWN BOTTLING CO. OF VA	711 WEST 24TH STREET	NORFOLK	23517	804-625-1668
ROYAL SILVER MFG. CO., INC.	3300 CHESAPEAKE BLVD.	NORFOLK	23513	804-855-6004
ROYSTER COMPANY - CHESAPEAKE	FOOT OF OHIO ST	CHESAPEAKE	23324	804-847-4459
ROYSTER COMPANY - LYNCHBURG	2410 MAYFLOWER DR	LYNCHBURG	24506	804-847-4459
ROYSTER COMPANY - RED HOUSE RETAIL OUTLET	HWY 727	RED HOUSE	23963	804-847-4459
ROYSTER COMPANY - RETAIL OUTLET	HWY 621	CRYSTAL HILL	24539	804-847-4459
ROYSTER COMPANY - SOUTH HILL WAREHOUSE	LUNENBURG AVE	SOUTH HILL	23970	804-847-4459
RR BEASLEY, INC. ASHLAND PLANT	ROUTE 821	ASHLAND	23005	804-633-9626
RR BEASLEY, INC. CALLAO PLANT	ROUTE 360 EAST	CALLAO	22435	804-633-9626
RR BEASLEY, INC. KILMARNOCK PLANT	OFF ROUTE 3	KILMARNOCK	22482	804-633-9626
RR BEASLEY, INC. MILFORD PLANT	ROUTE 768	MILFORD	22514	804-633-9626
RTP CO.	HIGHWAY 654, SINAI ROAD	SOUTH BOSTON	24592	804-572-3925
RUBATEX, CORP.	ADAMS STREET	BEDFORD	24523	703-586-2611
RUBBERMAID COMMERCIAL PRODUCTS, INC.	3124 VALLEY AVENUE	WINCHESTER	22601	703-667-8700
RUSCO WINDOW CO. OF ROANOKE, INC.	3631 AERIAL WAY DR. S.W.	ROANOKE	24015	703-345-4901
S & W FERTILIZER SEED & CHEMICAL	605 WEST RAILROAD AVENUE	WYTHEVILLE	24302	703-228-2521
SADLER BROS. OIL CO., INC.	I95 & HWY 58W	EMPORIA	23847	804-634-2127
SAFETY-KLEEN	ROUTE 24 EAST OF VINTON	VINTON	24179	703-890-4478
SAFETY-KLEEN	1200 WEST 100 ROAD	CHESTER	23831	804-748-3767
SAFETY-KLEEN	4545 BAINBRIDGE BLVD.	CHESAPEAKE	23320	804-543-5907
SAFETY-KLEEN	2146 KING MILL ROAD	BRISTOL	24201	703-466-8666
SASIB CORP. OF AMERICA	6301 MIDLOTHIAN TURNPIKE	RICHMOND	23225	804-276-1900
SAXON OIL COMPANY, INC.	MAIN STREET	DILLWYN	23936	804-983-2033
SCIENTIFIC PRODUCTS, CORP.	9218 PRINCE WILLIAM STREET	MANASSAS	22110	703-368-9811
SEAWARD INTERNATIONAL, INC.	CLEARBROOK INDUSTRIAL PARK	CLEARBROOK	22624	703-667-7987
SHELDON LUMBER CO., INC.	7812 RICHMOND ROAD	TOANO	23168	804-564-3311
SHELLER-GLOBE, CORP.	8900 HAMPTON BLVD.	NORFOLK	23505	804-423-4912
SHENANDOAH GAS	ROUTE 340, NORTH OF I-66	NINEVEH	22601	703-750-4211
SHENANDOAH GAS	ROUTE 612	CEDAR CREEK	22601	703-750-4211
SHOCKEY BROS, INC.	US ROUTE 11 NORTH	WINCHESTER	22601	703-667-7700
SICPA INDUSTRIES OF AMERICA, INC.	8000 RESEARCH WAY	SPRINGFIELD	22153	703-455-8050
SMITH-MIDLAND CORPORATION	ROUTE 28	MIDLAND	22728	703-439-3266
SMITHFIELD PACKING CO., INC.	COMMERCE STREET	SMITHFIELD	23430	804-357-4321
SMITHFIELD PACKING CO., INC.	435 E. INDIAN RIVER ROAD	NORFOLK	23523	804-357-4321
SMITHFIELD PACKING CO., INC.	110 VIRGINIA HAM DRIVE	SUFFOLK	23434	804-357-4321
SMITHFIELD PACKING CO., INC.	HIGHWAY #10	SMITHFIELD	23430	804-357-4321
SOUTHCHEM, INC.	803 DOUGLAS AVENUE	PORTSMOUTH	23707	804-399-8547
SOUTHCHEM, INC.	ROUTE 221 WEST	FOREST	24551	804-385-7113
SOUTHEASTERN ADHESIVES CO.	STATE ROAD 689	RIDGEWAY	24148	703-956-3176
SOUTHERN COLD STORAGE	2900 COFER ROAD	RICHMOND	23224	804-644-2671
SOUTHERN GRAVURE SERVICE, INC.	5199 SPROUSE ROAD	RICHMOND	23231	804-226-2490
SOUTHERN PRINTING CO., INC.	501 INDUSTRIAL PARK ROAD	BLACKSBURG	24060	703-552-8352
SOUTHERN PRINTING INK, CORP.	1408 GORDON AVENUE	RICHMOND	23224	804-231-4451
SOUTHERN STAINLESS EQUIPMENT	292 RACE AVENUE	WAYNESBORO	22930	703-943-8000
SOUTHERN STATES COOPERATIVE, INC.	FLEETWOOD STREET	WAKEFIELD	23888	804-899-3761
SOUTHERN STATES COOPERATIVE, INC.	6103 MECHANICSVILLE PIKE	MECHANICSVILLE	23111	804-746-5274
SOUTHERN STATES COOPERATIVE, INC.	ROUTE 3	WARSAW	22572	804-333-3760
SOUTHERN STATES COOPERATIVE, INC.	517 WEST MAIN STREET	ABINGDON	24210	703-628-9135
SOUTHERN STATES COOPERATIVE, INC.	WEST MAIN STREET	WAVERLY	23890	804-834-2282
SOUTHERN STATES COOPERATIVE, INC.	FOREST & MARSHALL STREETS	MARSHALL	22115	703-364-2244
SOUTHERN STATES COOPERATIVE, INC.	212 CATOCTIN CIRCLE S.E.	LEESBURG	22075	703-777-3561
SOUTHERN STATES COOPERATIVE, INC.	ROUTE 1, BOX 7B	STEPHENS CITY	22655	703-869-3132
SOUTHERN STATES COOPERATIVE, INC.	PURCELLVILLE BRANCH	PURCELLVILLE	22132	703-338-7136
SOUTHERN STATES COOPERATIVE, INC.	AGNEW STREET	BURKEVILLE	23922	804-767-5548
SOUTHERN STATES COOPERATIVE, INC.	3119 WILLIAMSBURG ROAD	RICHMOND	23231	804-226-2758
SOUTHERN STATES COOPERATIVE, INC.	447 AMHERST STREET	WINCHESTER	22601	703-662-0375
SOUTHERN STATES COOPERATIVE, INC.	810 HARRIS STREET	CHARLOTTESVILLE	22902	804-296-6191
SOUTHERN STATES COOPERATIVE, INC.	9321 CENTER STREET	MANASSAS	22110	703-368-2165
SOUTHERN STATES COOPERATIVE, INC.	ROUTE 606 OLD STERLING ROAD	HERNDON	22070	703-437-1800
SOUTHERN STATES COOPERATIVE, INC.	INTERSECTION OF 58 & 221	HILLSVILLE	24343	703-728-2912
SOUTHERN STATES COOPERATIVE, INC.	2657 SOUTH MILITARY HIGHWAY	CHESAPEAKE	23324	804-545-2449
SOUTHERN STATES COOPERATIVE, INC.	MAIN STREET	GRETNA	24557	804-656-2233
SOUTHERN STATES COOPERATIVE, INC.	100 PARK STREET S E	VIENNA	22180	703-938-6767
SOUTHERN STATES COOPERATIVE, INC.	12842 FITZWATER DRIVE	NOKESVILLE	22123	703-594-2121
SOUTHERN STATES COOPERATIVE, INC.	201 W. WASHINGTON STREET	MIDDLEBURG	22117	703-687-6324
SOUTHERN STATES COOPERATIVE, INC.	RURAL RETREAT BRANCH	RURAL RETREAT	24368	703-686-5114
SOUTHERN STATES COOPERATIVE, INC.	1155 INDUSTRY ROAD	WYTHEVILLE	24382	703-228-3401
SOUTHERN STATES COOPERATIVE, INC.	200 PRINCE EDWARD STREET	FREDERICKSBURG	22404	703-373-5831
SOUTHERN STATES COOPERATIVE, INC.	2600 DURHAM STREET	RICHMOND	23220	804-353-0195
SOUTHERN STATES COOPERATIVE, INC.	15 BROADVIEW AVE.	WARRENTON	22186	703-347-4202
SOUTHERN STATES COOPERATIVE, INC.	8718 WEST BROAD STREET	RICHMOND	23229	804-747-9315
SOUTHERN STATES COOPERATIVE, INC.	ROUTE 522 N	GOOCHLAND	23063	804-556-4166
SOUTHERN STATES COOPERATIVE, INC.	21 MANASSAS STREET	FRONT ROYAL	22630	703-635-3118
SOUTHERN STATES COOPERATIVE, INC.	RT 60 BYPASS RD	WILLIAMSBURG	23187	804-229-3427

SARA TITLE III SECTION 302 FACILITIES

COMPANY	ADDRESS	CITY	ZIP CODE	TELEPHONE
SOUTHERN STATES COOPERATIVE, INC.	EDGEHILL SHOPPING CENTER	GLOUCESTER	23061	804-693-3411
SOUTHERN STATES COOPERATIVE, INC.	ROUTE 1, BOX 325	KING WILLIAM	23086	804-769-3100
SOUTHERN STATES COOPERATIVE, INC.	5TH STREET	LAWRENCEVILLE	23868	804-848-2121
SOUTHERN STATES COOPERATIVE, INC.	ROUTE 28	CALVERTON	22016	703-788-9091
SOUTHERN STATES COOPERATIVE, INC.	DAVIS STREET	EMPORIA	23847	804-634-9446
SOUTHERN STATES COOPERATIVE, INC.	EAST MAIN STREET	PULASKI	24301	703-980-5811
SOUTHERN STATES COOPERATIVE, INC.	1313 EUCLID AVE	BRISTOL	24201	703-669-8101
SOUTHERN STATES COOPERATIVE, INC.	1609 WEST WASHINGTON STREET	PETERSBURG	23803	804-733-4571
SOUTHERN STATES COOPERATIVE, INC.	512 SHAWNEE AVE	BIG STONE GAP	24219	703-523-1532
SOUTHERN STATES COOPERATIVE, INC.	ROUTE 11 N	CLOVERDALE	24077	703-992-1100
SOUTHERN STATES COOPERATIVE, INC.	516 N. FRANKLIN STREET	FRANKLIN	23851	804-562-6169
SOUTHERN STATES COOPERATIVE, INC.	U.S. ROUTE 360	TAPPAHANNOCK	22560	804-443-3660
SOUTHERN STATES COOPERATIVE, INC.	WILLIAMS STREET	LURAY	22835	703-743-6518
SOUTHERN STATES COOPERATIVE, INC.	HIGHWAY 501	BROOKNEAL	24528	804-376-3766
SOUTHERN STATES COOPERATIVE, INC.	217 RESERVE AVE., S.W.	ROANOKE	24004	703-343-9356
SOUTHERN STATES COOPERATIVE, INC.	120 HANOVER AVENUE	ASHLAND	23005	804-798-8408
SOUTHERN STATES COOPERATIVE, INC.	OLD ROUTE 360	AMELIA	23002	804-561-2151
SOUTHERN STATES COOPERATIVE, INC.	348 WEST DEPOT STREET	BEDFORD	24523	703-586-8201
SOUTHERN STATES COOPERATIVE, INC.	201 MEADOW STREET	GALAX	24333	703-236-2181
SOUTHERN STATES COOPERATIVE, INC.	500 SOUTH COMMERCE STREET	MARION	24354	703-783-2431
SOUTHERN STATES COOPERATIVE, INC.	1015 TAZEWELL AVENUE	NORTH TAZEWELL	24630	703-988-3411
SOUTHERN STATES COOPERATIVE, INC.	HIGHWAY 60	CUMBERLAND	23040	804-492-4880
SOUTHERN STATES COOPERATIVE, INC.	742 CRAGHEAD STREET	DANVILLE	24543	804-793-2141
SOUTHERN STATES COOPERATIVE, INC.	6606 WEST BROAD STREET	RICHMOND	23260	804-281-1000
SOUTHERN STATES COOPERATIVE, INC.	TROUTVILLE BRANCH	TROUTVILLE	24175	703-992-1001
SOUTHERN STATES COOPERATIVE, INC.	STRASBURG BR.	STRASBURG	22657	703-465-5182
SOUTHERN STATES COOPERATIVE, INC.	1600 CAMPBELL AVE.	LYNCHBURG	24501	804-845-7061
SOUTHERN STATES COOPERATIVE, INC.	885 ROANOKE STREET	CHRISTIANSBURG	24073	703-382-2984
SOUTHERN STATES COOPERATIVE, INC.-CHATHAM	U.S. 29 , ROUTE 832	CHATHAM	24531	804-432-4201
SOUTHERN TREATING CO.	ROUTE 360	MILLERS TAVERN	23115	804-443-9385
SPERRY MARINE, INC.	1070 SEMINOLE TRAIL	CHARLOTTESVILLE	22901	804-974-2228
SPURLOCK CO.	U.S. ROUTE 460 EAST	WAVERLY	23890	804-834-3113
STAFFORD COUNTY ABEL LAKE WATER PLANT	ROUTE 653	STAFFORD	22554	703-659-8705
STAFFORD COUNTY AQUIA WASTEWATER TREAT. PLANT	ROUTE 631	STAFFORD	22554	703-659-8705
STAFFORD COUNTY AQUIA WATER TREATMENT PLANT	ROUTE 659	STAFFORD	22554	703-659-8705
STAFFORD COUNTY SOUTH STAFFORD WASTEWATER TR. PL	COOL SPRINGS RD	FREDERICKSBURG	22405	703-659-8705
STANDARD PRODUCTS COMPANY, INC.	22 CHURCH STREET	KILMARNOCK	22482	804-435-1633
STANLEY FURNITURE	5TH & CHARLOTTE AVE.	WAYNESBORO	22980	703-629-7561
STERLING CASKET HARDWARE CO.	NORWOOD ROAD	ABINGDON	24210	703-628-7153
STIHL, INC.	536 VIKING DRIVE	VIRGINIA BEACH	23452	804-486-8444
STONE CONTAINER CORP.	5700 LEWIS ROAD	RICHMOND	23201	804-222-5433
STONE CONTAINER CORP.	INDUSTRIAL PARK DR	MARTINSVILLE	24112	703-632-2176
STONE CONTAINER CORP.	INDUSTRIAL STREET	HOPEWELL	23860	804-541-9600
STONE CONTAINER CORP.	2900 SPROUSE DRIVE	RICHMOND	23231	804-222-6380
STOWE WOODWARD	ROUTE 11 SOUTH	MIDDLETOWN	22645	703-869-4000
STRAHAN INK & LACQUER CORP.	8031 WHITE BARK TERRACE	RICHMOND	23237	804-271-7377
SUFFOLK CITY WATER TREATMENT FACILITY	CHUCKATUCK ROAD	SUFFOLK	23434	804-934-3111
SUFFOLK ENERGIES INC.	1224 HOLLAND ROAD	SUFFOLK	23434	804-539-476
SUFFOLK INDUSTRIAL CHEMICALS	5001 PUDDLEDUCK ROAD	PETERSBURG	23803	804-796-18
SUFFOLK INDUSTRIAL CHEMICALS	1312 MCCLOUD ROAD	CHESAPEAKE	23320	804-539-740
SUFFOLK INDUSTRIAL CHEMICALS	201 SURBURBAN DRIVE	SUFFOLK	23434	804-539-740
SUNOX, INC.	4960 RIVERSIDE DRIVE	DANVILLE	24541	804-797-2425
SUNOX, INC.	1023 DILLARD DRIVE	LYNCHBURG	24501	804-385-8799
SUPREME PETROLEUM, INC.	725 NORTH MAIN STREET	SUFFOLK	23434	804-934-0550
SUPREME PETROLEUM, INC.	2345 PRUDEN BLVD	SUFFOLK	23434	804-934-0550
SUTER'S CABINET SHOP, INC.	2610 S. MAIN STREET	HARRISONBURG	22801	703-434-2131
SWEET BRIAR COLLEGE	ROUTE 29 SOUTH	SWEET BRIAR	24595	804-381-6136
SYBRON CHEMICALS INC.	111 KESLER ROAD	SALEM	24153	703-389-9361
TARMAC LONESTAR, INC.	ROUTE 226	PETERSBURG		
TATE BERRY AND FRUIT FARM	21330 HULL STREET ROAD	MOSELEY	23120	804-232-5653
TAYLOR-RAMSEY CORP.	ROUTE 501	BIG ISLAND	24526	804-299-5717
TAYLOR-RAMSEY, CORP.	ROUTE 130	MADISON HEIGHTS	24572	804-846-6571
TAYLOR-RAMSEY, CORP.	ROUTE 460	PAMPLIN	23958	804-248-6967
TAYLOR-RAMSEY, CORP.	ROUTE 250	MCDOWELL	24458	703-396-3481
TAYLOR-RAMSEY, CORP.	RT 460 E	BLACKSTONE	23824	804-292-4375
TAYLOR-RAMSEY, CORP.	ROUTE 130	NATURAL BRIDGE	24579	703-291-2459
TECHNICON INSTRUMENTS CORP.	ROUTE 11 SOUTH	MIDDLETOWN	22645	703-869-3200
TELEDYNE VASCO - CK CO.	STATE ROAD 919	CHESAPEAKE	24592	804-575-7994
TEXACO REFINING & MARKETING, INC.	FOOT OF BANKS STREET	CHESAPEAKE	23324	804-543-6811
TEXACO REFINING & MARKETING, INC.	U.S. HIGHWAY 460	MONTVALE	24122	703-947-2213
TEXACO REFINING & MARKETING, INC.	3800 PICKETT ROAD	FAIRFAX	22031	703-425-4000
TEXACO REFINING & MARKETING, INC.	BAINBRIDGE BOULEVARD	CHESAPEAKE	23320	804-545-3535
TEXACO REFINING & MARKETING, INC.	5801 PETERSBURG PIKE	RICHMOND	23234	804-743-7860
TEXASGULF CHEMICALS	GOVERNMENT PLANT ROAD	SALTVILLE	24370	703-496-4741
THRIFT OIL CO.	ROUTE 33	URBANNA	23175	804-758-2366
TIDEWATER GOOK	2725 SONIC DRIVE	VIRGINIA BEACH	23456	804-468-5811
TIDEWATER MEMORIAL HOSPITAL	STATE RT 708	TAPPAHNNOCK	22560	804-443-3311
TOWN OF AMHERST PUBLIC UTILITIES DEPARTMENT	GRANDVIEW DRIVE	AMHERST	24521	804-946-7885
TOWN OF CHASE CITY SEWAGE TREATMENT PLANT	DREW STREET	CHASE CITY	23924	804-372-3220
TOWN OF CHASE CITY SEWAGE TREATMENT PLANT	HIGH STREET	CHASE CITY	23924	804-372-3220
TOWN OF CHRISTIANSBURG WASTEWATER TREATMENT PL.	ROUTE 114	CHRISTIANSBURG	24073	703-382-8221
TOWN OF CREWE	125 E. CAROLINA AVE	CREWE	23930	804-645-9453
TOWN OF FRIES WASTEWATER TREATMENT PLANT	MAIN STREET	FRIES	24330	703-744-7977
TOWN OF GATE CITY SEWER PLANT	STATE ROAD 619	GATE CITY	24251	703-386-3831
TOWN OF GATE CITY WATER PLANT	BROADWATER AVE	GATE CITY	24251	804-386-3631
TOWN OF HILLSVILLE AERATED LAGOON STP	ROUTE 221 NORTH	HILLSVILLE	24343	703-728-4391
TOWN OF HILLSVILLE TRICKLING FILTER PLANT	REYNOLDS AVE	HILLSVILLE	24342	703-728-4391
TOWN OF HILLSVILLE WATER TREATMENT PLANT	US ROUTE 58 & ROAD 703	HILLSVILLE	24343	703-728-9824
TOWN OF LEESBURG WATER POLLUTION CONTROL FAC.	15 W MARKET STREET	LEESBURG	22075	703-777-4907
TOWN OF LEESBURG WATER TREATMENT PLANT	EDWARDS FERRY ROAD	LEESBURG	22075	703-777-8063
TOWN OF MIDDLEBURG WASTE TREATMENT PLANT	10 WEST MARSHALL STREET	MIDDLEBURG	22117	703-687-5152
TOWN OF NEW MARKET MAINTENANCE BUILDING	187 STONEWALL STREET	NEW MARKET	22844	703-740-3432
TOWN OF NEW MARKET TOWN WELLS	ROUTE 211	NEW MARKET	22844	703-740-3432
TOWN OF NEW MARKET WASTEWATER TREATMENT PLANT	ROUTE 734	NEW MARKET	22844	703-740-3432
TOWN OF NEW MARKET WATER TREATMENT PLANT	ROUTE 620	NEW MARKET	22844	703-740-3432
TOWN OF WARRENTON	18 COURT STREET	WARRENTON	22186	703-347-1101
TOWN OF WARSAW WASTEWATER TREATMENT PLANT	7 BELLEVILLE LANE	WARSAW	22572	804-333-3103
TRANS WORLD AIRLINES, INC.	NATIONAL AIRPORT	ALEXANDRIA		703-769-6010
TRANS WORLD AIRLINES, INC.	DULLES AIRPORT	FAIRFAX		703-769-9321
TRI-CITY PRINTING & PUBLISHING CO.	206 APPOMATTOX STREET	HOPEWELL	23860	804-748-44
TRI-COUNTY OIL CO.	823 GUNNERY ROAD	FREDERICKSBURG	22404	703-373-31
TRIPLE-D SALES CO., INC.	P.O. BOX 3D	ROCHELLE	22738	703-572-58
UNIMIN CORP.	ROUTE 50	GORE	22637	703-858-344

SARA TITLE III SECTION 302 FACILITIES

COMPANY	ADDRESS	CITY	ZIP CODE	TELEPHONE
UNION CAMP CORP.	2801 COFER ROAD	RICHMOND	23224	804-232-5681
UNION CAMP CORP.	ROUTE 58 E	FRANKLIN	23851	804-569-4321
UNION CARBIDE CORP.	3201 NORTH ARMISTEAD AVENUE	HAMPTON	23666	804-865-0801
UNION CARBIDE CORP.	2330 BOWDENS FERRY ROAD	NORFOLK	23508	804-627-5673
UNIROYAL GOODRICH TIRE CO.	BIRD STREET EXTENDED	SCOTTSVILLE	24590	804-286-2011
UNITED REFRIGERATED SERVICES, INCORPORATED	3801 E. PRINCESS ANNE ROAD	NORFOLK	23502	404-261-6691
UNITED STATES GYPSUM CO.	1001 BUCHANAN STREET	NORFOLK	23523	804-545-2461
UPACO ADHESIVES INC.	4105 CASTLEWOOD ROAD	RICHMOND	23235	804-275-9231
UPPER OCCOQUAN SEWAGE AUTHORITY	14631 COMPTON ROAD	CENTREVILLE	22020	703-830-2200
US GEOLOGICAL SURVEY	12201 SUNRISE VALLEY DRIVE	RESTON	22092	703-648-7 556
US OIL-COX OIL & GAS CO. INC.	7 EDMUNDS STREET	SOUTH BOSTON	24592	804-572-4981
US PLYWOOD	ROUTE 879, ROUTE 360	SOUTH BOSTON	24592	804-572-4971
USG INDUSTRIES, INC.	STATE ROUTE 635	RIPPLEMEAD	24150	703-626-7163
UVA HOSPITAL/RESEARCH LAB-ENVTL. HEALTH & SAFETY	EDGEMONT ROAD	CHARLOTTESVILLE	22903	804-924-3622
VA DEPT FOR VISUAL HANDICAPPED	397 AZALEA AVENUE	RICHMOND	23227	804-371-3108
VA DEPT OF CORRECTIONS - CENTER FOR WOMEN	1/4 MILE WEST OF ROUTES 6 &522	GOOCHLAND	23063	804-784-3582
VA DEPT OF CORRECTIONS - JAMES RIVER CENTER	JAMES RIVER CORRECTIONAL CENTE	STATE FARM	23160	804-784-3551
VA DEPT OF TRANSPORTATION	GOOCHLAND COUNTY RESTSTOP	GOOCHLAND	23063	804-371-2017
VA DEPT OF TRANSPORTATION	CAROLINE COUNTY RESTSTOP	CAROLINE	22427	804-448-4446
VALLEY FERTILIZER & CHEMICAL CO.	201 VALLEY ROAD	MOUNT JACKSON	22842	703-477-3121
VALLEY FERTILIZER & CHEMICAL CO.	ROUTE 8, BOX 656	WINCHESTER	22601	703-662-8280
VALLEY FERTILIZER & CHEMICAL CO.	STATE ROUTE 632	LURAY	22835	703-778-3953
VALLEY PROTEINS INC.	ROUTE 58	EMPORIA	23847	804-634-9475
VALLEY TIMBER SALES	RT.15 ZION CROSSRDS	TROY	22974	804-589-3015
VALLEYDALE PACKERS, INC.	1013 IOWA STREET	SALEM	24153	703-389-5 473
VALLEYDALE PACKERS, INC.	1119 COMMONWEALTH	BRISTOL	24201	703-669-3112
VAN WATERS & ROGERS, INC.	9733 COACH ROAD	RICHMOND	23234	804-743-0540
VAPCO	9218 PRINCE WILLIAM STREET	MANASSAS	22110	703-368-9811
VAUGHAN-BASSETT FURN. CO.	OLDTOWN STREET	GALAX	24333	703-236-6161
VEGA PRECISION LABORATORIES, INC.	800 FOLLIN LANE	VIENNA	22180	703-938-6300
VELVET TEXTILE CO., INC.	300 CHURCH STREET	BLACKSTONE	23824	804-292-7211
VERSAR MFG., INC.	14120-A SULLYFIELD CIRCLE	CHANTILLY	22021	703-631-3636
VIRGINIA APPLE STORAGE	1955 VALLEY AVENUE	WINCHESTER	22601	703-662-1591
VIRGINIA ASPHALT PAVING COMPANY	ROUTE 661	DUBLIN		703-774-4475
VIRGINIA CMNWLTH UNIVERSITY (MCV)	1010 E MARSHALL STREET	RICHMOND	23298	804-786-9131
VIRGINIA FIBRE CORP.	STATE ROUTE 600	GLADSTONE	24553	804-933-8643
VIRGINIA GRAVURE, INC.	7400 IMPALA DRIVE	RICHMOND	23228	804-264-3800
VIRGINIA HOT SPRINGS - HOMESTEAD SKATING RINK		HOT SPRINGS		703-839-5500
VIRGINIA HOT SPRINGS - STORAGE BUILDING	STORAGE BUILDING	HOT SPRINGS		703-839-5500
VIRGINIA INSTITUTE OF MARINE SCIENCE	COLLEGE OF WILLIAM & MARY	GLOUCESTER	23185	804-642-7254
VIRGINIA IRON, COAL AND COKE CO.	RT 702 TOMS CREEK RD	COEBURN	24230	703-395-3316
VIRGINIA LIME CO.	ROUTE 684	RIPPLEMEAD	24150	703-626-7186
VIRGINIA LITHOGRAPHY AND GRAPHICS CO.	502 FIFTH STREET	ROANOKE	24016	703-344-4111
VIRGINIA PANEL CORP.	1400 NEW HOPE ROAD	WAYNESBORO	22980	703-949-8376
VIRGINIA PLASTICS CO.	3423 AERIAL WAY DRIVE, S.W.	ROANOKE	24018	703-985-3811
VIRGINIA PORT AUTHORITY	600 WORLD TRADE CENTER	NORFOLK	23510	804-623-8000
VIRGINIA POWER - CARSON SUBSTATION	ROUTE 605 BETWEEN 604 & 678			
VIRGINIA POWER BATH COUNTY PUMP STORAGE STATION	STATE ROUTE 600	WARM SPRINGS	24484	804-279-3258
VIRGINIA POWER BREMO POWER STATION	STATE ROUTE 656	BREMO BLUFF	23022	804-842-3103
VIRGINIA POWER CHESAPEAKE ENERGY CENTER	2701 VEPCO STREET	CHESAPEAKE	23323	804-485-6754
VIRGINIA POWER CHESTERFIELD POWER STATION	ROUTE 615	CHESTER	23832	804-796-6015
VIRGINIA POWER NORTH ANNA POWER STATION	ROUTE 700	MINERAL	23117	703-894-5151
VIRGINIA POWER POSSUM POINT POWER STATION	19000 POSSUM POINT ROAD	DUMFRIES	22026	703-221-4074
VIRGINIA POWER SURRY POWER STATION	ROUTE 650	SURRY	23883	804-357-3184
VIRGINIA POWER YORKTOWN POWER STATION	STATE ROUTE 631	YORKTOWN	23690	703-898-2555
VIRGINIA TECH - BLACKSBURG CAMPUS	DEPARTMENT OF HEALTH & SAFETY	BLACKSBURG	24061	703-961-6775
VIRGINIA TECH - EASTERN SHORE AGRIC. EXPER. STA.	ROUTE 1, BOX 133	PAINTER	23420	804-442-6411
VIRGINIA TECH - EQUINE MEDICAL CENTER	542 OLD WATERFORD ROAD	LEESBURG	22075	703-771-6800
VIRGINIA TECH - HAMPTON ROADS AGRIC. EXPER. STA.	1444 DIAMOND SPRING ROAD	VIRGINIA BEACH	23455	804-446-4900
VIRGINIA TECH - MIDDLEBURG AGRIC. EXPER. STATION	ROUTE 2, BOX 9	MIDDLEBURG	22117	703-687-3521
VIRGINIA TECH - NORTHERN PIEDMONT AGRIC. EXPER.	ROUTE 15 SOUTH	ORANGE	22960	703-672-2660
VIRGINIA TECH - OCCOQUAN WATERSHED MONIT. LAB.	9408 PRINCE WILLIAM ST.	MANASSAS	22110	703-361-5606
VIRGINIA TECH - SHENANDOAH VALLEY RESEARCH STA.	SHENANDOAH VALLEY RESEARCH FAC	STEELES TAVERN	24476	804-377-2255
VIRGINIA TECH - SOUTHERN PIEDMONT EXPER. STATION	ROUTE 40 EAST	BLACKSTONE	23824	804-292-5331
VIRGINIA TECH - SOUTHWEST VIRGINIA RESEARCH STA.	EXTENSION SERVICE	GLADE SPRING	24340	703-944-3668
VIRGINIA TECH - TIDEWATER AGRIC. EXPERIMENT STA.	6321 HOLLAND ROAD	SUFFOLK	23437	804-657-6103
VIRGINIA TECH - WINCHESTER FRUIT RESEARCH LAB.	2500 VALLEY AVENUE	WINCHESTER	22601	703-667-8330
VIRGINIA TRANSFORMER CORPORATION	1634 SEIBEL DRIVE NE	ROANOKE	24012	703-345-9892
VIRGINIA WOOD PRESERVING	3000 PEYTON STREET	RICHMOND	23228	804-266-0262
VIRGINIA-AMERICAN WATER COMPANY	ROUTE 10 AT INDUSTRIAL STREET	HOPEWELL	23860	804-458-8128
VIRGINIAN-PILOT & LEDGER-STAR	150 W. BRAMBLETON AVE.	NORFOLK	23501	804-446-2412
VIRGINIAN-PILOT & LEDGER-STAR	5429 GREENWICH ROAD	VIRGINIA BEACH	23462	804-446-2412
VOLVO WHITE TRUCK CORP.	HWY 643	DUBLIN	24084	703-674-4181
W.R. GRACE & CO.	200 S. LUDENBURG AVE.	SOUTH HILL	23970	901-522-2000
WALLACE COMPUTER SERVICES, INC.	10 WALLACE AVENUE	LURAY	22835	703-743-6541
WAMPLER FOODS, INC.	ROUTE 33 W	HINTON	22831	703-867-9221
WAMPLER LONG ACRE FEED DIV.	590 MT. CLINTON PIKE	HARRISONBURG	22801	703-434-2519
WARE OIL COMPANY, INC.	U.S. HIGHWAY 17 SOUTH	DUNNSVILLE	22454	804-443-3902
WARWICK CUSTOM KITCHENS MFG. CO.	487 DENBIGH BLVD.	NEWPORT NEWS	23602	804-874-6801
WARWICK MANUFACTURING CORP.	1112 CAVALIER BOULEVARD	CHESAPEAKE	23323	804-485-5400
WASHINGTON COUNTY SERVICE AUTHORITY	177 COURT STREET	ABINGDON	24210	703-628-6091
WASHINGTON GAS - CENTREVILLE STATION	1450 MOUNT OLIVE ROAD	CENTREVILLE	22020	703-750-4211
WASHINGTON GAS - CHANTILLY STATION	14200 LEE ROAD	CHANTILLY	22021	703-750-4211
WASHINGTON GAS - DRANESVILLE STATION	LEESBURG PIKE	RESTON	22070	703-750-4211
WASHINGTON GAS - HERNDON STATION	1300 LAKE FAIRFAX DRIVE	RESTON	22090	703-750-4211
WASHINGTON GAS - LEESBURG STATION	LENTS MILL ROAD (ROUTE 653)	LEESBURG	22075	703-750-4211
WASHINGTON GAS - MANASSAS STATION	5300 SUDLEY ROAD (ROUTE 234)	MANASSAS	22110	703-750-4211
WASHINGTON GAS - SPRINGFIELD OPERATIONS CENTER	6801 INDUSTRIAL ROAD	SPRINGFIELD	22151	703-750-4211
WASHINGTON GAS - STERLING PARK GATE STATION	RAMSGATE DRIVE	STERLING PARK	22170	703-750-4211
WASHINGTON GAS - TUSCARORA PLASTICS STATION	1317 MORAN ROAD (ROUTE 634)	STERLING	22170	703-750-4211
WASHINGTON GAS - WOODSTOCK STATION	ROUTE 680	WOODSTOCK	22664	703-750-4211
WATER COUNTRY, USA	ROUTE 199	WILLIAMSBURG	23187	804-229-9300
WATER TECHNOLOGIES INC.	7525 MILK-A-WAY DRIVE, NW	ROANOKE	24019	703-563-5300
WATERFIELD FARMS	ROUTE 1	RAPIDAN	22733	703- 854-5521
WATKINS NURSERIES	15001 MIDLOTHIAN TURNPIKE	MIDLOTHIAN	23113	804-794-5016
WATTS PETROLEUM CORP.	1505 RUTHERFORD STREET	LYNCHBURG	24501	804-846-6509
WATTS PETROLEUM CORP.	531 MAIN STREET	ALTAVISTA		804-846-6509
WATTS PETROLEUM CORP.	ROUTE 122	MONETA	24121	804-846-6509
WAYTEC ELECTRONICS	1104 MCCONVILLE ROAD	LYNCHBURG	24506	804-237-6391
WEADON PRINTING, INC.	6430 GENERAL GREEN WAY	ALEXANDRIA	22312	703-750-0800
WEBB FURNITURE ENTERPRISES, INC. - PLANT 1	RAILROAD AVENUE	GALAX	24333	703-236-2984
WEBB FURNITURE ENTERPRISES, INC. - PLANT 2	SOUTH MAIN STREET	GALAX	24333	703-236-2984
WEBB FURNITURE ENTERPRISES, INC. - PLANT 3	JACKSON STREET	GALAX	24333	703-236-2984

APPENDIX D (continued)

SARA TITLE III SECTION 302 FACILITIES

COMPANY	ADDRESS	CITY	ZIP CODE	TELEPHONE
WEBLITE CORP.	ROUTE 738	WEBSTER	24064	703-977-1426
WELCO MANUFACTURING CO., INC.	1100 ROUSE PARK	CHILHOWIE	24319	816-471-1788
WESTERN FUMIGATION	WAREHOUSE CELL 6J	NORFOLK	23452	804-436-2618
WESTINGHOUSE ELECTRIC CORP.	HIGHWAY 58 WEST	SOUTH BOSTON	24592	804-575-7971
WESTINGHOUSE ELECTRIC CORP.	ROUTE 2, HIGHWAY 11	ABINGDON	24210	703-628-9161
WESTOVER DAIRY	2801 FORT AVENUE	LYNCHBURG	24506	804-528-2560
WESTPOINT PEPPERELL	P.O. BOX 71	WEST POINT	31833	404-645-4575
WESTPOINT PEPPERELL	BURGESS AVENUE	PULASKI		703-980-2640
WESTVACO	2828 COFFER ROAD	RICHMOND	23224	804-232-6746
WESTVACO	WESTVACO PLANT	LOW MOOR	24457	703-969-5000
WESTVACO	320 HULL STREET	RICHMOND	23224	804-233-9205
WESTVACO	WESTVACO PLANT	COVINGTON	24426	703-969-5000
WEYERHAUSER COMPANY	3491 MAYFLOWER DRIVE	LYNCHBURG	24506	804-845-6071
WHITE HOUSE	550 FAIRMONT AVENUE	WINCHESTER	22601	703-662-3401
WHITTET & SHEPPERSON, INC.	117 SOUTH THIRD STREET	RICHMOND	23219	804-649-9047
WILKINSON PRINTING CO., INC.	6704 BROOK ROAD	GLEN ALLEN	23060	804-264-2524
WILLIAMSBURG COMMUNITY HOSPITAL	1238 MT. VERNON AVENUE	WILLIAMSBURG	23185	804-253-6082
WILLIAMSBURG WATER FILTRATION PLANT	618 WALLER MILL RD	WILLIAMSBURG	23185	804-229-4831
WILLIAMSBURG WATER TREATMENT PLANT	618 WALLER MILL ROAD	WILLIAMSBURG	23185	804-229-4831
WILSON WELDING	BRICK KILN ROAD	WINCHESTER	22601	703-662-1180
WINCHESTER COLD STORAGE	605 NORTH LOUDON STREET	WINCHESTER	22601	703-662-4151
WINCHESTER MEDICAL CENTER	S. STEWART STREET	WINCHESTER	22601	703-665-5132
WINDWARD INTERNATIONAL, INC.	300 STAFFORD UMBERGER	WYTHEVILLE	24383	703-228-7717
WINEBARGER CORPORATION	WINEBARGER CIRCLE	LYNCHBURG	24502	804-239-2671
WOLVERINE GASKET	201 INDUSTRIAL PARK ROAD, SE	BLACKSBURG	24060	703-552-7674
WONDERKNIT/SCOREBOARD	MADISON STREET	GALAX	24333	704-236-2904
WOOD FIBER INDUSTRIES, INC.	STATE RD 1172	DANVILLE	24543	804-797-1321
WOOD PRESERVERS, INC.	P.O. BOX 1018	WARSAW	22572	804-333-4022
WORKMAN OIL CO.	828 MACON STREET	BEDFORD	24523	703-586-8311
WYTHE FUEL SERVICE, INC.	150 RAILROAD AVENUE	WYTHEVILLE	24382	703-228-4512
WYTHE PRECISION MACHINE CO., INC.	ROUTE 1, BOX 74	MAX MEADOWS	24360	703-637-3126
XALOY	BURGESS AVENUE	PULASKI		703-980-7560
YATES-BOWLES OIL CO.	U.S. ROUTE 60 WEST	POWHATAN	23139	804-232-5623
YOUNG-PHILLIPS SALES CO.	5120 GLEN ALDEN DRIVE	RICHMOND	23231	919-788-0110
ZAPATA HAYNIE CORP.	HWY 659	REEDVILLE	22539	804-453-4211
ZEROPACK CO.	560 NO. CAMERON STREET	WINCHESTER	22601	703-662-3885

APPENDIX - E

Page ____ of ____ pages
Form Approved OMB No. 2050-0072

Tier One EMERGENCY AND HAZARDOUS CHEMICAL INVENTORY
Aggregate Information by Hazard Type

FOR OFFICIAL USE ONLY: ID # ____ Dat eReceived ____

Important: Read instructions before completing form

Reporting Period From January 1 to December 31, 19____

Facility Identification

Name ____
Street Address ____
City ____ State ____ Zip ____
SIC Code ☐☐☐☐ Dun & Brad Number ☐☐-☐☐☐-☐☐☐☐

Owner/Operator

Name ____
Mail Address ____
Phone ( ) ____

Emergency Contacts

Name ____
Title ____
Phone ( ) ____
24 Hour Phone ( ) ____

Name ____
Title ____
Phone ( ) ____
24 Hour Phone ( ) ____

☐ Check if site plan is attached

	Hazard Type	*Max Amount**	*Average Daily Amount**	*Number of Days On-Site*	*General Location*
Physical Hazards	Fire	☐☐	☐☐	☐☐☐	
	Sudden Release of Pressure	☐☐	☐☐	☐☐☐	
	Reactivity	☐☐	☐☐	☐☐☐	
Health Hazards	Immediate (acute)	☐☐	☐☐	☐☐☐	
	Delayed (Chronic)	☐☐	☐☐	☐☐☐	

Certification *(Read and sign after completing all sections)*

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals responsible for obtaining the information, I believe that the submitted information is true, accurate and complete.

Name and official title of owner/operator OR owner/operator's authorized representative

Signature ____ Date signed ____

* Reporting Ranges

Range Value	Weight Range in Pounds From...	To...
00	0	99
01	100	999
02	1000	9,999
03	10,000	99,999
04	100,000	999,999
05	1,000,000	9,999,999
06	10,000,000	49,999,999
07	50,000,000	99,999,999
08	100,000,000	499,999,999
09	500,000,000	999,999,999
10	1 billion	higher than 1 billion

Page _____ of _____ pages
Form Approved OMB No. 2050-0072

Tier Two
EMERGENCY AND HAZARDOUS CHEMICAL INVENTORY
Specific Information by Chemical

Facility Identification

Name _____
Street Address _____
City _____ State _____ Zip _____

SIC Code ☐☐☐☐ Dun & Brad Number ☐☐-☐☐☐-☐☐☐☐

FOR OFFICIAL USE ONLY
ID # _____
Date Received _____

Owner/Operator Name

Name _____ Phone ( ) _____
Mail Address _____

Emergency Contact

Name _____ Title _____
Phone ( ) _____ 24 Hr. Phone ( ) _____

Name _____ Title _____
Phone ( ) _____ 24 Hr. Phone ( ) _____

Important: Read all instructions before completing form

Reporting Period From January 1 to December 31, 19____

Confidential Location Information Sheet

Storage Codes and Locations (Confidential)

Storage Codes *Storage Locations*

CAS # ☐☐☐☐☐☐☐☐☐ Chem. Name

CAS # ☐☐☐☐☐☐☐☐☐ Chem. Name

CAS # ☐☐☐☐☐☐☐☐☐ Chem. Name

Certification *(Read and sign after completing all sections)*

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete.

Name and official title of owner/operator OR owner/operator's authorized representative _____ Signature _____ Date signed _____

Optional Attachments *(Check one)*

☐ I have attached a site plan
☐ I have attached a list of site coordinate abbreviations

APPENDIX - E (continued)

Page ____ of ____ pages
Form Approved OMB No. 2050-0072

Tier Two

EMERGENCY AND HAZARDOUS CHEMICAL INVENTORY

Specific Information by Chemical

Facility Identification

Name ____________________

Street Address ____________________

City ____________ State ____ Zip ____

SIC Code ☐☐☐☐ Dun & Brad Number ☐☐-☐☐☐-☐☐☐☐

FOR OFFICIAL USE ONLY: ID # ______ Date Received ______

Owner/Operator Name

Name ____________________ Phone ( ) ______

Mail Address ____________________

Emergency Contact

Name ____________ Title ____________

Phone ( ) ______ 24 Hr. Phone ( ) ______

Name ____________ Title ____________

Phone ( ) ______ 24 Hr. Phone ( ) ______

Important: Read all instructions before completing form

Reporting Period From January 1 to December 31, 19____

Chemical Description	Physical and Health Hazards (check all that apply)	Inventory: Max. Daily Amount (code)	Avg. Daily Amount (code)	No. of Days On-site (days)	Storage Codes and Locations (Non-Confidential): *Storage Code*	*Storage Locations*
CAS ☐☐☐☐☐☐-☐☐-☐ Trade Secret ☐ Chem. Name ______ *Check all that apply:* ☐ Pure ☐ Mix ☐ Solid ☐ Liquid ☐ Gas	☐ Fire ☐ Sudden Release of Pressure ☐ Reactivity ☐ Immediate (acute) ☐ Delayed (chronic)	☐☐	☐☐	☐☐☐		
CAS ☐☐☐☐☐☐-☐☐-☐ Trade Secret ☐ Chem. Name ______ *Check all that apply:* ☐ Pure ☐ Mix ☐ Solid ☐ Liquid ☐ Gas	☐ Fire ☐ Sudden Release of Pressure ☐ Reactivity ☐ Immediate (acute) ☐ Delayed (chronic)	☐☐	☐☐	☐☐☐		
CAS ☐☐☐☐☐☐-☐☐-☐ Trade Secret ☐ Chem. Name ______ *Check all that apply:* ☐ Pure ☐ Mix ☐ Solid ☐ Liquid ☐ Gas	☐ Fire ☐ Sudden Release of Pressure ☐ Reactivity ☐ Immediate (acute) ☐ Delayed (chronic)	☐☐	☐☐	☐☐☐		

Certification *(Read and sign after completing all sections)*

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete.

Name and official title of owner/operator OR owner/operator's authorized representative ______ Signature ______ Date signed ______

Optional Attachments *(Check one)*

☐ I have attached a site plan

☐ I have attached a list of site coordinate abbreviations

APPENDIX F

CHEMICALS COMMON TO SARA SECTIONS 302 AND 313

CHEMICAL NAME	CAS NUMBER
Formaldehyde	50000
Mechlorethamine	51752
Parathion	56382
Dimethylhydrazine	57147
Propiolactone, beta-	57578
Chlordane	57749
Lindane	58899
Methylhydrazine	60344
Aniline	62533
Dichlorvos	62737
Nitrosodimethylamine	62759
Chloroform	67663
Methyl bromide	74839
Hydrocyanic acid	74908
Carbon disulfide	75150
Ethylene oxide	75218
Phosgene	75445
Propyleneimine	75558
Propylene oxide	75569
Hexachlorocyclopentadiene	77474
Dimethyl sulfate	77781
Acrylamide	79061
Chloroacetic acid	79118
Peracetic acid	79210
Toluene 2,6-diisocyanate	91087
o-Cresol	95487
Benzotrichloride	98077
Benzal chloride	98873
Nitrobenzene	98953
Benzyl chloride	100447
Epichlorohydrin	106898
Acrolein	107028
Acrylonitrile	107131
Chloromethyl methyl ether	107302
Vinyl acetate monomer	108054
Phenol	108952
Dichloroethyl ether	111444
Hydroquinone	123319
Ethyleneimine	151564
Hydrazine	302012
Aldrin	309002
Mustard gas	505602
Dinitrocresol	534521
Chloromethyl ether	542881
Toluene 2,4-diisocyanate	584849
Methyl isocyanate	624839
Diepoxybutane	1464535
Titanium tetrachloride	7550450
Hydrochloric acid (Hydrogen chloride (gas only))	7647010
Hydrogen fluoride	7664393
Ammonia	7664417

CHEMICALS COMMON TO SARA SECTIONS 302 AND 313

CHEMICAL NAME	CAS NUMBER
Sulfuric acid	7664939
Nitric acid	7697372
Phosphorus	7723140
Chlorine	7782505
Toxaphene (Camphechlor)	8001352

APPENDIX G

CHEMICALS COMMON TO SARA SECTION 313 AND CERCLA SECTION 101(14)

CHEMICAL NAME	CAS NUMBER
Formaldehyde	50000
2,4-Dinitrophenol	51285
Mechlorethamine	51752
Carbamic acid, ethyl ester	51796
Trichlorophon	52686
Acetamide, N-9H-fluoren-2-yl-	53963
Ethanamine, N-ethyl-N-nitroso-	55185
Nitroglycerine	55630
Carbon tetrachloride	56235
Parathion	56382
Dimethylhydrazine	57147
Propiolactone, beta-	57578
Chlordane	57749
Lindane	58899
Benzenamine, N,N-dimethyl-4-phenylazo-	60117
Methylhydrazine	60344
Aniline	62533
Ethanethioamide	62555
Carbamide, thio-	62566
Dichlorvos	62737
Nitrosodimethylamine	62759
Carbaryl	63252
Methanol	67561
Acetone	67641
Chloroform	67663
Ethane, 1,1,1,2,2,2-hexachloro-	67721
1-Butanol	71363
Benzene	71432
Methyl chloroform	71556
Ethane, 1,1,1-trichloro-2,2-bis(p-methoxyphenyl)-	72435
Methyl bromide	74839
Methane, chloro	74873
Methane, iodo-	74884
Hydrocyanic acid	74908
Methane, dibromo-	74953
Chloroethane	75003
Vinyl chloride (monomer)	75014
Acetonitrile	75058
Acetaldehyde	75070
Methane, dichloro-	75092
Carbon disulfide	75150
Ethylene oxide	75218
Bromoform	75252
Dichlorobromomethane	75274
1,1-Dichloroethylene	75354
Phosgene	75445
Propyleneimine	75558
Propylene oxide	75569
Heptachlor	76448
Hexachlorocyclopentadiene	77474
Dimethyl sulfate	77781

CHEMICALS COMMON TO SARA SECTION 313 AND CERCLA SECTION 101(14)

CHEMICAL NAME	CAS NUMBER
1,2-Dichloropropane	78875
2-Butanone	78933
Ethane, 1,1,2-trichloro-	79005
Trichloroethylene	79016
Acrylamide	79061
Acrylic acid	79107
Chloroacetic acid	79118
Peracetic acid	79210
Ethane, 1,1,2,2-tetrachloro-	79345
Carbamoyl chloride, dimethyl-	79447
2-Nitropropane	79469
alpha,alpha-Dimethylbenzylhydroperoxide	80159
Methyl methacrylate	80626
1,2-Benzisothiazolin-3-one,1,1-dioxide, and salts	81072
Benzene, pentachloronitro-	82688
1,2-Benzenedicarboxylic acid, diethyl ester	84662
Dibutyl phthalate	84742
1,2-Benzenedicarboxylic acid anhydride	85449
Butyl benzyl phthalate	85687
N-Nitrosodiphenylamine	86306
Hexachloro-1,3-butadiene	87683
Pentachlorophenol	87865
Phenol, 2,4,6-trichloro	88062
o-Nitrophenol	88755
Toluene 2,6-diisocyanate	91087
Naphthalene	91203
Quinoline	91225
2-Naphthylamine	91598
(1,1'-Biphenyl)-4,4'-diamine,3,3'-dichloro-	91941
Benzidine	92875
Benzene, 1,2-methylenedioxy-4-allyl-	94597
2,4-D Acid	94757
Benzene, o-dimethyl-	95476
o-Cresol	95487
Benzene, 1,2-dichloro-	95501
o-Toluidine	95534
Diaminotoluene	95807
Phenol, 2,4,5-trichloro-	95954
1,2-Dibromo-3-chloropropane	96128
Ethylenethiourea	96457
Benzotrichloride	98077
Benzene, 1-methylethyl-	98828
Benzal chloride	98873
Benzoyl chloride	98884
Nitrobenzene	98953
p-Nitrophenol	100027
Ethylbenzene	100414
Styrene	100425
Benzyl chloride	100447
N-Nitrosopiperidine	100754
Benzenamine, 4,4'-methylenebis(2-chloro-	101144

CHEMICALS COMMON TO SARA SECTION 313 AND CERCLA SECTION 101(14)

CHEMICAL NAME	CAS NUMBER
2,4-Dimethylphenol	105679
Benzene, p-dimethyl-	106423
p-Cresol	106445
Benzene, 1,4-dichloro-	106467
p-Benzoquinone	106514
Epichlorohydrin	106898
Ethane, 1,2-dibromo-	106934
Acrolein	107028
Allyl chloride	107051
1,2-Dichloroethane	107062
Acrylonitrile	107131
Chloromethyl methyl ether	107302
Vinyl acetate monomer	108054
Methyl isobutyl ketone	108101
2,5-Furandione	108316
Benzene, m-dimethyl-	108383
m-Cresol	108394
Bis(2-chloroisopropyl) ether	108601
Benzene, methyl-	108883
Benzene, chloro-	108907
Phenol	108952
2-Ethoxyethanol	110805
Benzene, hexahydro-	110827
Pyridine	110861
Dichloroethyl ether	111444
Dicofol*	115322
1,2-Benzenedicarboxylic acid,[bis(2-ethylhexyl)]ester	117817
Dioctyl phthalate	117840
Benzene, hexachloro	118741
(1,1'-Biphenyl)-4,4'-diamine,3,3'-dimethoxy-	119904
(1,1'-Biphenyl)-4,4'-diamine,3,3'-dimethyl-	119937
Anthracene	120127
1,2,4-Trichlorobenzene	120821
2,4-Dichlorophenol	120832
Benzene, 1-methyl-2,4-dinitro-	121142
1,2-Diphenylhydrazine	122667
Hydroquinone	123319
1,4-Diethylene dioxide	123911
1-Propanol, 2,3-dibromo-, phosphate (3:1)	126727
Ethene, 1,1,2,2-tetrachloro-	127184
Dimethyl phthalate	131113
Captan	133062
1-Naphthylamine	134327
Ethyl acrylate	140885
Ethyleneimine	151564
Hydrazine	302012
Aldrin	309002
C.I. Solvent Yellow 34 (Auramine)	492808
Mustard gas	505602
Ethyl 4,4'-dichlorobenzilate	510156
Dinitrocresol	534521

CHEMICALS COMMON TO SARA SECTION 313 AND CERCLA SECTION 101(14)

CHEMICAL NAME	CAS NUMBER
Benzene, 1,3-dichloro-	541731
1,3-Dichloropropene	542756
Chloromethyl ether	542881
Toluene 2,4-diisocyanate	584849
Benzene, 1-methyl-2,6-dinitro-	606202
Di-n-propylnitrosamine	621647
Methyl isocyanate	624839
Benzenamine, 2-methyl-, hydrochloride	636215
Carbamide, N-methyl-N-nitroso-	684935
Carbamide, N-ethyl-N-nitroso-	759739
1-Butanamine, N-butyl-N-nitroso-	924163
1,2-Oxathiolane, 2,2-dioxide	1120714
Sodium hydroxide	1310732
Cresol(s)	1319773
Benzene, dimethyl-	1330207
Asbestos	1332214
Polychlorinated biphenyls (PCBs)	1336363
Diepoxybutane	1464535
Diallate	2303164
Ethenamine, N-methyl-N-nitroso-	4549400
Lead	7439921
Mercury	7439976
Nickel	7440020
Silver	7440224
Thallium	7440280
Antimony	7440360
Arsenic	7440382
Beryllium	7440417
Cadmium	7440439
Chromium	7440473
Copper	7440508
Zinc	7440666
Titanium tetrachloride	7550450
Hydrochloric acid (Hydrogen chloride (gas only))***	7647010
Phosphoric acid	7664382
Hydrogen fluoride	7664393
Ammonia	7664417
Sulfuric acid	7664939
Nitric acid	7697372
Phosphorus	7723140
Selenium	7782492
Chlorine	7782505
Toxaphene (Camphechlor)	8001352
Osmium tetroxide	20816120
Dichlorobenzene (mixed)	25321226
Diaminotoluene	25376458
Cyanide and Compounds	0
Antimony and Compounds	0
Arsenic and Compounds	0
Beryllium and Compounds	0
Cadmium and Compounds	0

CHEMICALS COMMON TO SARA SECTION 313 AND CERCLA SECTION 101(14)

CHEMICAL NAME	CAS NUMBER
Chlorinated Phenols	0
Chromium and Compounds	0
Copper and Compounds	0
Lead and Compounds	0
Mercury and Compounds	0
Nickel and Compounds	0
Selenium and Compounds	0
Silver and Compounds	0
Thallium and Compounds	0
Zinc and Compounds	0

APPENDIX - H

Form Approved OMB No. 2070-0093
Approval Expires: 01/31
Page 1 of 5

(Important: Type or print; read instructions before completing form.)

EPA U.S. Environmental Protection Agency

TOXIC CHEMICAL RELEASE INVENTORY REPORTING FORM

Section 313 of the Emergency Planning and Community Right-to-Know Act of 1986, also known as Title III of the Superfund Amendments and Reauthorization Act

EPA FORM R	PART I. FACILITY IDENTIFICATION INFORMATION	(This space for your optional use.)

1.	1.1 Are you claiming the chemical identity on page 3 trade secret?	1.2 If Yes in 1.1, is this copy:	1.3 Reporting Year
	[ ] Yes (Answer question 1.2; Attach substantiation forms.) [ ] No (Do not answer 1.2; Go to question 1.3.)	[ ] Sanitized [ ] Unsanitized	19__

2. CERTIFICATION (Read and sign after completing all sections.)

I hereby certify that I have reviewed the attached documents and that, to the best of my knowledge and belief, the submitted information is true and complete and that the amounts and values in this report are accurate based on reasonable estimates using data available to the preparers of this report.

Name and official title of owner/operator or senior management official

Signature | Date signed

3. FACILITY IDENTIFICATION

3.1	Facility or Establishment Name	
	Street Address	
	City	County
	State	Zip Code
3.2	This report contains information for (Check one): a. [ ] An entire facility b. [ ] Part of a facility.	
3.3	Technical Contact	Telephone Number (include area code)
3.4	Public Contact	Telephone Number (include area code)
3.5	SIC Code (4 digit) a. b. c. d. e. f.	
3.6	Latitude: Degrees, Minutes, Seconds	Longitude: Degrees, Minutes, Seconds
3.7	Dun & Bradstreet Number(s) a.	b.
3.8	EPA Identification Number(s) (RCRA I.D. No.) a.	b.
3.9	NPDES Permit Number(s) a.	b.
3.10	Receiving Streams or Water Bodies (enter one name per box) a.	b.
	c.	d.
	e.	f.
3.11	Underground Injection Well Code (UIC) Identification Number(s) a.	b.

WHERE TO SEND COMPLETED FORMS:

1. U.S. ENVIRONMENTAL PROTECTION AGENCY
   P.O. BOX 70266
   WASHINGTON, DC 20024-0266
   ATTN: TOXIC CHEMICAL RELEASE INVENTORY
2. APPROPRIATE STATE OFFICE (See instructions Appendix E)

4. PARENT COMPANY INFORMATION

4.1	Name of Parent Company
4.2	Parent Company's Dun & Bradstreet Number

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APPENDIX - H
(continued)

(Important: Type or print; read instructions before completing form.)

EPA

EPA FORM R
PART II. OFF-SITE LOCATIONS TO WHICH TOXIC CHEMICALS ARE TRANSFERRED IN WASTES

(This space for your optional use.)

1. PUBLICLY OWNED TREATMENT WORKS (POTWs)

1.1 POTW name		1.2 POTW name	
Street Address		Street Address	
City	County	City	County
State	Zip	State	Zip

2. OTHER OFF-SITE LOCATIONS (DO NOT REPORT LOCATIONS TO WHICH WASTES ARE SENT ONLY FOR RECYCLING OR REUSE)

2.1 Off-site location name		2.2 Off-site location name	
EPA Identification Number (RCRA ID. No.)		EPA Identification Number (RCRA ID. No.)	
Street Address		Street Address	
City	County	City	County
State	Zip	State	Zip
Is location under control of reporting facility or parent company? [ ] Yes [ ] No		Is location under control of reporting facility or parent company? [ ] Yes [ ] No	

2.3 Off-site location name		2.4 Off-site location name	
EPA Identification Number (RCRA ID. No.)		EPA Identification Number (RCRA ID. No.)	
Street Address		Street Address	
City	County	City	County
State	Zip	State	Zip
Is location under control of reporting facility or parent company? [ ] Yes [ ] No		Is location under control of reporting facility or parent company? [ ] Yes [ ] No	

2.5 Off-site location name		2.6 Off-site location name	
EPA Identification Number (RCRA ID. No.)		EPA Identification Number (RCRA ID. No.)	
Street Address		Street Address	
City	County	City	County
State	Zip	State	Zip
Is location under control of reporting facility or parent company? [ ] Yes [ ] No		Is location under control of reporting facility or parent company? [ ] Yes [ ] No	

[ ] Check if additional pages of Part II are attached. How many? _____

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APPENDIX - H
(continued)

☐ ☐

(Important: Type or print; read instructions before completing form.)

EPA EPA FORM **R**
PART III. CHEMICAL-SPECIFIC INFORMATION

(This space for your optional use.)

1. CHEMICAL IDENTITY (Do not complete this section if you complete Section 2.)

1.1	[Reserved]
1.2	CAS Number (Enter the number exactly as it appears on the 313 list. Enter NA if reporting a chemical category.)
1.3	Chemical or Chemical Category Name (Enter the name exactly as it appears on the 313 list.)
1.4	Generic Chemical Name (Complete only if Part I, Section 1.1 is checked "Yes." Generic name must be structurally descriptive.)

2. MIXTURE COMPONENT IDENTITY (Do not complete this section if you complete Section 1.)

Generic Chemical Name Provided by Supplier (Limit the name to a maximum of 70 characters (e.g., numbers, letters, spaces, punctuation).)

3. ACTIVITIES AND USES OF THE CHEMICAL AT THE FACILITY (Check all that apply.)

3.1	Manufacture the chemical:	a. [ ] Produce b. [ ] Import	If produce or import: c. [ ] For on-site use/processing d. [ ] For sale/ distribution e. [ ] As a byproduct f. [ ] As an impurity
3.2	Process the chemical:	a. [ ] As a reactant b. [ ] As a formulation component c. [ ] As an article component d. [ ] Repackaging only	
3.3	Otherwise use the chemical:	a. [ ] As a chemical processing aid b. [ ] As a manufacturing aid c. [ ] Ancillary or other use	

4. MAXIMUM AMOUNT OF THE CHEMICAL ON-SITE AT ANY TIME DURING THE CALENDAR YEAR

[ ][ ] (enter code)

5. RELEASES OF THE CHEMICAL TO THE ENVIRONMENT ON-SITE

You may report releases of less than 1,000 lbs. by checking ranges under A.1. (Do not use both A.1 and A.2)		A. Total Release (lbs/yr) A.1 Reporting Ranges 0 / 1–499 / 500–999	A.2 Enter Estimate	B. Basis of Estimate (enter code)	C. % From Stormwater
5.1 Fugitive or non-point air emissions	5.1a	[ ] [ ] [ ]		5.1b ☐	
5.2 Stack or point air emissions	5.2a	[ ] [ ] [ ]		5.2b ☐	
5.3 Discharges to receiving streams or water bodies 5.3.1 ☐	5.3.1a	[ ] [ ] [ ]		5.3.1b ☐	5.3.1c
(Enter letter code from Part I Section 3.10 for stream(s) in the box provided.) 5.3.2 ☐	5.3.2a	[ ] [ ] [ ]		5.3.2b ☐	5.3.2c
5.3.3 ☐	5.3.3a	[ ] [ ] [ ]		5.3.3b ☐	5.3.3c
5.4 Underground injection	5.4a	[ ] [ ] [ ]		5.4b ☐	
5.5 Releases to land					
5.5.1 On-site landfill	5.5.1a	[ ] [ ] [ ]		5.5.1b ☐	
5.5.2 Land treatment/application farming	5.5.2a	[ ] [ ] [ ]		5.5.2b ☐	
5.5.3 Surface impoundment	5.5.3a	[ ] [ ] [ ]		5.5.3b ☐	
5.5.4 Other disposal	5.5.4a	[ ] [ ] [ ]		5.5.4b ☐	

[ ] (Check if additional information is provided on Part IV-Supplemental Information.)

APPENDIX - H
(continued)

(Important: Type or print; read instructions before completing form.)

EPA

EPA FORM R

PART III. CHEMICAL-SPECIFIC INFORMATION (continued)

(This space for your optional use.)

6. TRANSFERS OF THE CHEMICAL IN WASTE TO OFF-SITE LOCATIONS

You may report transfers of less than 1,000 lbs. by checking ranges under A.1. (Do not use both A.1 and A.2)	A. Total Transfers (lbs/yr) A.1 Reporting Ranges 0 / 1-499 / 500-999	A.2 Enter Estimate	B. Basis of Estimate (enter code)	C. Type of Treatment/Disposal (enter code)
6.1.1 Discharge to POTW (enter location number from Part II, Section 1.) 1	[ ] [ ] [ ]		6.1.1b	
6.2.1 Other off-site location (enter location number from Part II, Section 2.) 2	[ ] [ ] [ ]		6.2.1b	6.2.1c M
6.2.2 Other off-site location (enter location number from Part II, Section 2.) 2	[ ] [ ] [ ]		6.2.2b	6.2.2c M
6.2.3 Other off-site location (enter location number from Part II, Section 2.) 2	[ ] [ ] [ ]		6.2.3b	6.2.3c M

[ ] (Check if additional information is provided on Part IV-Supplemental Information.)

7. WASTE TREATMENT METHODS AND EFFICIENCY

A. General Wastestream (enter code)	B. Treatment Method (enter code)	C. Range of Influent Concentration (enter code)	D. Sequential Treatment? (check if applicable)	E. Treatment Efficiency Estimate	F. Based on Operating Data? Yes / No
7.1a	7.1b	7.1c	7.1d [ ]	7.1e %	7.1f [ ] [ ]
7.2a	7.2b	7.2c	7.2d [ ]	7.2e %	7.2f [ ] [ ]
7.3a	7.3b	7.3c	7.3d [ ]	7.3e %	7.3f [ ] [ ]
7.4a	7.4b	7.4c	7.4d [ ]	7.4e %	7.4f [ ] [ ]
7.5a	7.5b	7.5c	7.5d [ ]	7.5e %	7.5f [ ] [ ]
7.6a	7.6b	7.6c	7.6d [ ]	7.6e %	7.6f [ ] [ ]
7.7a	7.7b	7.7c	7.7d [ ]	7.7e %	7.7f [ ] [ ]
7.8a	7.8b	7.8c	7.8d [ ]	7.8e %	7.8f [ ] [ ]
7.9a	7.9b	7.9c	7.9d [ ]	7.9e %	7.9f [ ] [ ]
7.10a	7.10b	7.10c	7.10d [ ]	7.10e %	7.10f [ ] [ ]

[ ] (Check if additional information is provided on Part IV-Supplemental Information.)

8. OPTIONAL INFORMATION ON WASTE MINIMIZATION

(Indicate actions taken to reduce the amount of the chemical being released from the facility. See the instructions for coded items and an explanation of what information to include.)

A. Type of Modification (enter code)	B. Quantity of the Chemical in Wastes Prior to Treatment or Disposal: Current reporting year (lbs/yr)	Prior year (lbs/yr)	Or percent change	C. Index	D. Reason for Action (enter code)
M			%	.	R

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APPENDIX - H
(continued)

(Important: Type or print; read instructions before completing form.)

EPA

EPA FORM R

PART IV. SUPPLEMENTAL INFORMATION

Use this section if you need additional space for answers to questions in Part III. Number the lines used sequentially from lines in prior sections (e.g., 5.3.4, 6.1.2, 7.11)

(This space for your optional use.)

ADDITIONAL INFORMATION ON RELEASES OF THE CHEMICAL TO THE ENVIRONMENT ON-SITE (Part III, Section 5.3)

You may report releases of less than 1,000 lbs. by checking ranges under A.1. (Do not use both A.1 and A.2)		A. Total Release (lbs/yr) A.1 Reporting Ranges 0 / 1-499 / 500-999	A.2 Enter Estimate	B. Basis of Estimate (enter code in box provided)	C. % From Stormwater
5.3 Discharges to receiving streams or water bodies 5.3.___ ☐	5.3.___a	[ ] [ ] [ ]		5.3.___b ☐	5.3.___c
(Enter letter code from Part I Section 3.10 for stream(s) in the box provided.) 5.3.___ ☐	5.3.___a	[ ] [ ] [ ]		5.3.___b ☐	5.3.___c
5.3.___ ☐	5.3.___a	[ ] [ ] [ ]		5.3.___b ☐	5.3.___c

ADDITIONAL INFORMATION ON TRANSFERS OF THE CHEMICAL IN WASTE TO OFF-SITE LOCATIONS (Part III, Section 6)

You may report transfers of less than 1,000 lbs. by checking ranges under A.1. (Do not use both A.1 and A.2)	A. Total Transfers (lbs/yr) A.1 Reporting Ranges 0 / 1-499 / 500-999	A.2 Enter Estimate	B. Basis of Estimate (enter code in box provided)	C. Type of Treatment/ Disposal (enter code in box provided)
6.1.___ Discharge to POTW (enter location number from Part II, Section 1.) [1].☐	[ ] [ ] [ ]		6.1.___b ☐	
6.2.___ Other off-site location (enter location number from Part II, Section 2.) [2].☐	[ ] [ ] [ ]		6.2.___b ☐	6.2.___c [M]☐☐
6.2.___ Other off-site location (enter location number from Part II, Section 2.) [2].☐	[ ] [ ] [ ]		6.2.___b ☐	6.2.___c [M]☐☐
6.2.___ Other off-site location (enter location number from Part II, Section 2.) [2].☐	[ ] [ ] [ ]		6.2.___b ☐	6.2.___c [M]☐☐

ADDITIONAL INFORMATION ON WASTE TREATMENT METHODS AND EFFICIENCY (Part III, Section 7)

A. General Wastestream (enter code in box provided)	B. Treatment Method (enter code in box provided)	C. Range of Influent Concentration (enter code)	D. Sequential Treatment? (check if applicable)	E. Treatment Efficiency Estimate	F. Based on Operating Data? Yes / No
7.___a ☐	7.___b ☐☐☐	7.___c ☐	7.___d [ ]	7.___e %	7.___f [ ] [ ]
7.___a ☐	7.___b ☐☐☐	7.___c ☐	7.___d [ ]	7.___e %	7.___f [ ] [ ]
7.___a ☐	7.___b ☐☐☐	7.___c ☐	7.___d [ ]	7.___e %	7.___f [ ] [ ]
7.___a ☐	7.___b ☐☐☐	7.___c ☐	7.___d [ ]	7.___e %	7.___f [ ] [ ]
7.___a ☐	7.___b ☐☐☐	7.___c ☐	7.___d [ ]	7.___e %	7.___f [ ] [ ]
7.___a ☐	7.___b ☐☐☐	7.___c ☐	7.___d [ ]	7.___e %	7.___f [ ] [ ]
7.___a ☐	7.___b ☐☐☐	7.___c ☐	7.___d [ ]	7.___e %	7.___f [ ] [ ]
7.___a ☐	7.___b ☐☐☐	7.___c ☐	7.___d [ ]	7.___e %	7.___f [ ] [ ]
7.___a ☐	7.___b ☐☐☐	7.___c ☐	7.___d [ ]	7.___e %	7.___f [ ] [ ]

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APPENDIX I

SARA TITLE III SECTION 313 TOXIC CHEMICAL INVENTORY
RELEASE SUMMARY FOR 1988

CHEMICAL REPORTED	TOTAL AIR	WATER	ON-SITE LAND	POTW	OTHER OFF-SITE	TOTAL RELEASES
** COMPANY: A WOOD MART OF VA - TWIN RIVERS FOREST PRODUCTS CO						
ARSENIC COMPOUNDS	0	0	0	0	6	6
** Subtotal **	0	0	0	0	6	6
** COMPANY: A.H. ROBINS COMPANY, INC.						
SODIUM HYDROXIDE (SOLUTION)	0	0	0	0	0	0
** Subtotal **	0	0	0	0	0	0
** COMPANY: ACADIA POLYMERS, INC.						
METHYL ETHYL KETONE	15747	0	0	0	3000	18747
1,1,1-TRICHLOROETHANE	58870	0	0	0	1500	60370
ZINC COMPOUNDS	0	0	0	26633	46328	72961
** Subtotal **	74617	0	0	26633	50828	152078
** COMPANY: ACME VISIBLE RECORDS						
XYLENE (MIXED ISOMERS)	20640	0	0	0	750	21390
** Subtotal **	20640	0	0	0	750	21390
** COMPANY: ALCO CONTROLS DIVISION						
1,1,1-TRICHLOROETHANE	169000	0	0	0	190000	359000
PROPYLENE	14144	0	0	0	0	14144
SULFURIC ACID	850	0	0	27524	13500	41874
SODIUM HYDROXIDE (SOLUTION)	225	0	0	14863	7290	22378
NITRIC ACID	551	0	0	12661	6210	19422
COPPER	273	0	0	250	0	523
** Subtotal **	185443	0	0	55298	217000	457741
** COMPANY: ALEXANDRIA METAL FINISHERS, INC.						
TETRACHLOROETHYLENE	29400	0	0	250	0	29650
SODIUM HYDROXIDE (SOLUTION)	3250	0	0	0	250	3500
SULFURIC ACID	1500	0	0	250	10400	12150
** Subtotal **	34150	0	0	500	10650	45300
** COMPANY: ALLEN-MORRISON, INC.						
METHYL ETHYL KETONE	20000	0	0	0	0	20000
XYLENE (MIXED ISOMERS)	100000	0	0	0	0	100000
TOLUENE	30000	0	0	0	0	30000
N-BUTYL ALCOHOL	18000	0	0	0	0	18000
GLYCOL ETHERS	10000	0	0	0	0	10000
** Subtotal **	178000	0	0	0	0	178000
** COMPANY: ALLIED COLLOIDS, INC.						
ACRYLAMIDE	10598	0	0	250	1250	12098
ACRYLIC ACID	16040	0	0	4306	750	21096
MIXTURE - AMMONIUM HYDROXIDE	1000	0	0	0	0	1000
ETHYL ACRYLATE	1000	0	0	3783	750	5533
METHYL METHACRYLATE	1000	0	0	3895	750	5645
SODIUM HYDROXIDE (SOLUTION)	7722	0	0	250	0	7972
SULFURIC ACID	250	0	0	0	0	250
** Subtotal **	37610	0	0	12484	3500	53594
** COMPANY: ALLIED FIBERS TECHNICAL CENTER						
TRADE SECRET - HALOGENATED ALKANE	157000	750	0	0	0	157750
** Subtotal **	157000	750	0	0	0	157750
** COMPANY: ALLIED SIGNAL, INC. BENDIX COMMUNICATIONS DIVISION						
1,1,1-TRICHLOROETHANE	27450	0	0	0	18300	45750
** Subtotal **	27450	0	0	0	18300	45750
** COMPANY: ALLIED-SIGNAL HOPEWELL PLANT						
ACETALDEHYDE	10550	0	0	0	0	10550
AMMONIA	30795	23354	0	250	0	54399

APPENDIX I (continued)

SARA TITLE III SECTION 313 TOXIC CHEMICAL INVENTORY
RELEASE SUMMARY FOR 1988

CHEMICAL REPORTED	TOTAL AIR	WATER	ON-SITE LAND	POTW	OTHER OFF-SITE	TOTAL RELEASES
AMMONIUM NITRATE (SOLUTION)	0	1190943	0	1541864	0	2732807
AMMONIUM SULFATE (SOLUTION)	0	17700000	0	23000000	0	40700000
BENZENE	63000	1500	0	3000	39100	106600
METHYL ETHYL KETONE	69250	0	0	750	0	70000
BUTYRALDEHYDE	500	250	0	250	250	1250
CHLORINE	15350	5750	0	250	0	21350
COPPER	0	0	0	17000	0	17000
ETHYLBENZENE	14600	750	0	250	12800	28400
HYDROCHLORIC ACID	500	0	0	0	0	500
ISOBUTYRALDEHYDE	12450	0	0	250	0	12700
METHANOL	250	0	0	762000	0	762250
NITRIC ACID	0	0	0	250	0	250
PHENOL	56000	2300	0	13000	250	71550
SODIUM HYDROXIDE (SOLUTION)	0	250	0	250	500	1000
SULFURIC ACID	12000	3600	0	250	500	16350
TOLUENE	44000	2200	0	250	106086	152536
** Subtotal **	329245	18930897	0	25339864	159486	44759492
** COMPANY: ALLIED-SIGNAL, INC.						
SODIUM HYDROXIDE (SOLUTION)	0	0	0	0	0	0
BIPHENYL	19000	40	0	0	3100	22140
CHLORINE	0	1800	0	0	0	1800
TETRACHLOROETHYLENE	0	0	0	0	1100	1100
PHOSPHORIC ACID	0	1400	0	0	154100	155500
ZINC COMPOUNDS	0	40	0	0	5800	5840
GLYCOL ETHERS	0	0	0	0	1200	1200
** Subtotal **	19000	3280	0	0	175300	197580
** COMPANY: ALTAVISTA FINISHING PLANT						
BIPHENYL	2695	1841	0	0	58	4594
SODIUM HYDROXIDE (SOLUTION)	0	0	0	0	0	0
DIETHANOLAMINE	0	3126	0	0	32	3158
AMMONIA	8341	226	0	0	0	8567
CHLORINE	91	750	0	0	0	841
** Subtotal **	11127	5943	0	0	90	17160
** COMPANY: AMERICAN FURNITURE CO. - PLANT 1						
METHANOL	60584	0	0	0	0	60584
N-BUTYL ALCOHOL	9463	0	0	0	0	9463
ACETONE	25200	0	0	0	0	25200
METHYL ETHYL KETONE	26550	0	0	0	0	26550
TOLUENE	28107	0	0	0	0	28107
XYLENE (MIXED ISOMERS)	7659	0	0	0	0	7659
** Subtotal **	157563	0	0	0	0	157563
** COMPANY: AMERICAN FURNITURE CO. - PLANT 12						
METHANOL	36550	0	0	0	0	36550
N-BUTYL ALCOHOL	12859	0	0	0	0	12859
ACETONE	17708	0	0	0	0	17708
METHYL ETHYL KETONE	27687	0	0	0	0	27687
TOLUENE	33061	0	0	0	0	33061
XYLENE (MIXED ISOMERS)	14508	0	0	0	0	14508
** Subtotal **	142373	0	0	0	0	142373
** COMPANY: AMERICAN FURNITURE CO. - PLANT 3						
METHANOL	29519	0	0	0	0	29519
N-BUTYL ALCOHOL	16399	0	0	0	0	16399
ACETONE	27184	0	0	0	0	27184
METHYL ETHYL KETONE	26903	0	0	0	0	26903
TOLUENE	30330	0	0	0	0	30330
XYLENE (MIXED ISOMERS)	17931	0	0	0	0	17931
** Subtotal **	148266	0	0	0	0	148266
** COMPANY: AMERICAN FURNITURE CO. - PLT 6,7,8						
METHANOL	67102	0	0	0	0	67102
N-BUTYL ALCOHOL	13562	0	0	0	0	13562

APPENDIX I (continued)

SARA TITLE III SECTION 313 TOXIC CHEMICAL INVENTORY
RELEASE SUMMARY FOR 1988

CHEMICAL REPORTED	TOTAL AIR	WATER	ON-SITE LAND	POTW	OTHER OFF-SITE	TOTAL RELEASES
ACETONE	28781	0	0	0	0	28781
METHYL ETHYL KETONE	47306	0	0	0	0	47306
TOLUENE	43422	0	0	0	0	43422
XYLENE (MIXED ISOMERS)	19377	0	0	0	0	19377
** Subtotal **	219550	0	0	0	0	219550
** COMPANY: AMERICAN ORIGINAL FOODS						
SODIUM HYDROXIDE (SOLUTION)	0	0	0	0	0	0
** Subtotal **	0	0	0	0	0	0
** COMPANY: AMERICAN PRESS, INC.						
DICHLOROMETHANE	10247	0	0	0	0	10247
** Subtotal **	10247	0	0	0	0	10247
** COMPANY: AMERICAN SAFETY RAZOR COMPANY						
AMMONIA	700	0	0	0	0	700
1,1,1-TRICHLOROETHANE	22950	0	0	0	2800	25750
FREON 113	121250	0	0	0	2800	124050
TRICHLOROETHYLENE	308400	0	0	0	7600	316000
** Subtotal **	453300	0	0	0	13200	466500
** COMPANY: AMERICAN TOBACCO COMPANY - HANMER DIVISION						
CHLORINE	5800	15000	0	0	0	20800
** Subtotal **	5800	15000	0	0	0	20800
** COMPANY: AMERICAN TRIM PRODUCTS, INC.						
STYRENE	25490	0	0	0	0	25490
** Subtotal **	25490	0	0	0	0	25490
** COMPANY: AMERICAN WOODMARK CORP. - BERRYVILLE PLANT						
ACETONE	25160	0	0	0	0	25160
STYRENE	0	0	0	0	18920	18920
** Subtotal **	25160	0	0	0	18920	44080
** COMPANY: AMOCO FOAM PRODUCTS COMPANY						
CHLOROETHANE	267000	0	0	0	0	267000
** Subtotal **	267000	0	0	0	0	267000
** COMPANY: AMOCO OIL COMPANY - YORKTOWN REFINERY						
1,3-BUTADIENE	27	0	0	0	0	27
ALUMINUM OXIDE	459000	0	16000	0	0	475000
BENZENE	44000	0	0	0	0	44000
CHLORINE	350	0	0	0	0	350
ETHYLBENZENE	42200	0	1300	0	0	43500
ETHYLENE	18000	0	0	0	0	18000
NAPHTHALENE	1590	0	7700	0	0	9290
PHOSPHORIC ACID	0	0	51000	0	0	51000
PROPYLENE	35000	0	0	0	0	35000
TOLUENE	194000	0	0	0	0	194000
XYLENE (MIXED ISOMERS)	212000	0	22000	0	0	234000
1,2,4-TRIMETHYLBENZENE	102000	0	3000	0	0	105000
METHANOL	6580	0	0	0	0	6580
METHYL TERT-BUTYL ETHER	4482	0	0	0	0	4482
** Subtotal **	1119229	0	101000	0	0	1220229
** COMPANY: AMP INCORPORATED - BLDG. 151						
SODIUM HYDROXIDE (SOLUTION)	250	0	0	0	0	250
SULFURIC ACID	500	0	0	0	0	500
COPPER	2	0	0	20	0	22
FREON 113	30000	0	0	10	0	30010
** Subtotal **	30752	0	0	30	0	30782

APPENDIX I (continued)

SARA TITLE III SECTION 313 TOXIC CHEMICAL INVENTORY
RELEASE SUMMARY FOR 1988

CHEMICAL REPORTED	TOTAL AIR	WATER	ON-SITE LAND	POTW	OTHER OFF-SITE	TOTAL RELEASES
** COMPANY: ANHEUSER-BUSCH, INC.						
AMMONIA	6396	0	0	16380	0	22776
CHLORINE	13	0	0	0	0	13
SODIUM HYDROXIDE (SOLUTION)	0	0	0	47400	0	47400
SULFURIC ACID	0	0	0	0	0	0
** Subtotal **	6409	0	0	63780	0	70189
** COMPANY: APPALACHIAN PLASTICS, INC.						
STYRENE	13000	0	0	0	0	13000
ACETONE	32880	0	0	0	0	32880
** Subtotal **	45880	0	0	0	0	45880
** COMPANY: APPLIED RADIANT ENERGY CORP.						
METHYL METHACRYLATE	3160	0	0	0	33000	36160
** Subtotal **	3160	0	0	0	33000	36160
** COMPANY: AQUALON COMPANY						
ACETONE	992532	216	0	964317	250	1957315
AMMONIA	2800	0	0	21170	3700	27670
CHLORINE	10840	0	0	0	0	10840
CHLOROACETIC ACID	18237	0	0	0	0	18237
CHLOROETHANE	9450	0	0	0	0	9450
ETHYLENE	69732	0	0	0	0	69732
ETHYLENE GLYCOL	35142	0	0	1924600	0	1959742
ETHYLENE OXIDE	2702	0	0	142	0	2844
HYDROCHLORIC ACID	4383	0	0	0	0	4383
METHANOL	1296000	1281	0	1457000	250	2754531
NITRIC ACID	550	0	0	0	0	550
PHOSPHORIC ACID	250	0	0	0	0	250
PROPYLENE OXIDE	912	0	0	142	0	1054
SODIUM HYDROXIDE (SOLUTION)	0	0	0	10245	250	10495
SULFURIC ACID	43	0	0	0	0	43
TERT-BUTYL ALCOHOL	68700	155	0	328800	0	397655
** Subtotal **	2512273	1652	0	4706416	4450	7224791
** COMPANY: ARMSTRONG FURNITURE						
XYLENE (MIXED ISOMERS)	24530	0	0	0	0	24530
TOLUENE	128241	0	0	0	0	128241
METHYL ISOBUTYL KETONE	105717	0	0	0	0	105717
STYRENE	17965	0	0	0	0	17965
METHYL ETHYL KETONE	69879	0	0	0	0	69879
METHANOL	13823	0	0	0	0	13823
** Subtotal **	360155	0	0	0	0	360155
** COMPANY: ASHWORTH BROTHERS, INC.						
1,1,1-TRICHLOROETHANE	52000	0	0	0	0	52000
** Subtotal **	52000	0	0	0	0	52000
** COMPANY: ASSOCIATED NAVAL ARCHITECTS, INC.						
N-BUTYL ALCOHOL	3335	0	0	0	0	3335
** Subtotal **	3335	0	0	0	0	3335
** COMPANY: AT&T MICROELECTRONICS						
1,1,1-TRICHLOROETHANE	13872	0	0	0	0	13872
FREON 113	8858	0	0	0	0	8858
** Subtotal **	22730	0	0	0	0	22730
** COMPANY: AT&T MICROELECTRONICS - RICHMOND WORKS						
ALUMINUM OXIDE	0	0	0	2	42800	42802
AMMONIA	14600	0	0	90400	0	105000
CHLORINE	118	0	0	0	0	118
COPPER COMPOUNDS	36	0	0	4452	33700	38188
FORMALDEHYDE	2100	0	0	835	0	2935
GLYCOL ETHERS	17310	0	0	19960	0	37270

APPENDIX I (continued)

SARA TITLE III SECTION 313 TOXIC CHEMICAL INVENTORY
RELEASE SUMMARY FOR 1988

CHEMICAL REPORTED	TOTAL AIR	WATER	ON-SITE LAND	POTW	OTHER OFF-SITE	TOTAL RELEASES
HYDROCHLORIC ACID	480	0	0	0	0	480
LEAD	23	0	0	329	0	352
METHANOL	8000	0	0	1400	0	9400
DICHLOROMETHANE	645940	0	0	1230	0	647170
1,1,1-TRICHLOROETHANE	335360	0	0	880	0	336240
SODIUM HYDROXIDE (SOLUTION)	630	0	0	0	0	630
SULFURIC ACID	1012	0	0	0	0	1012
THIOUREA	0	0	0	11100	0	11100
FREON 113	24200	0	0	0	0	24200
FREON 113	13080	0	0	0	0	13080
PHOSPHORIC ACID	6	0	0	0	16740	16746
** Subtotal **	1062895	0	0	130588	93240	1286723
** COMPANY: ATLANTIC RESERACH CORPORATION PINE RIDGE						
1,1,1-TRICHLOROETHANE	7200	0	0	0	18900	26100
METHYL ETHYL KETONE	3600	0	0	0	7590	11190
** Subtotal **	10800	0	0	0	26490	37290
** COMPANY: ATLANTIC WOOD INDUSTRIES, INC. - NEWSOMS						
ARSENIC COMPOUNDS	0	0	0	0	2600	2600
CHROMIUM COMPOUNDS	0	0	0	0	2900	2900
COPPER COMPOUNDS	0	0	0	0	1700	1700
** Subtotal **	0	0	0	0	7200	7200
** COMPANY: ATLANTIC WOOD INDUSTRIES, INC. - PORTSMOUTH						
ANTHRACENE	71	0	0	0	780	851
DIBENZOFURAN	143	0	0	0	810	953
NAPHTHALENE	438	0	0	0	1300	1738
** Subtotal **	652	0	0	0	2890	3542
** COMPANY: AUTOMATA, INC. - RESTON						
DICHLOROMETHANE	56500	0	0	0	0	56500
SODIUM HYDROXIDE (SOLUTION)	0	0	0	0	0	0
SULFURIC ACID	0	0	0	0	0	0
1,1,1-TRICHLOROETHANE	20000	0	0	0	0	20000
NITRIC ACID	0	0	0	0	0	0
GLYCOL ETHERS	0	0	0	46000	0	46000
** Subtotal **	76500	0	0	46000	0	122500
** COMPANY: AUTOMATA, INC. - STERLING						
SULFURIC ACID	0	0	0	0	0	0
SODIUM HYDROXIDE (SOLUTION)	0	0	0	0	0	0
** Subtotal **	0	0	0	0	0	0
** COMPANY: AVTEX FIBERS FRONT ROYAL INC.						
CHLORINE	0	200	0	0	0	200
CARBON DISULFIDE	34000000	0	40000	0	0	34040000
CARBONYL SULFIDE	410000	0	0	0	0	410000
ZINC (FUME OR DUST)	0	43000	3206000	0	0	3249000
SULFURIC ACID	250	250	32000	0	0	32500
SODIUM HYDROXIDE (SOLUTION)	0	250	93000	0	0	93250
** Subtotal **	34410250	43700	3371000	0	0	37824950
** COMPANY: BABCOCK & WILCOX COMPANY						
FREON 113	121200	0	0	0	0	121200
DICHLOROMETHANE	121200	0	0	0	0	121200
COPPER COMPOUNDS	500	130	1730	0	0	2360
COPPER	51	0	0	0	0	51
CHLORINE	18000	1100	0	0	0	19100
ALUMINUM OXIDE	0	190	8110	0	60000	68300
ACETONE	16000	0	0	0	4323	20323
TRICHLOROETHYLENE	45470	4	4	0	7400	52878
SULFURIC ACID	150	0	0	0	0	150
SODIUM HYDROXIDE (SOLUTION)	330	0	0	0	0	330
NITRIC ACID	0	0	0	0	399	399

APPENDIX I (continued)

SARA TITLE III SECTION 313 TOXIC CHEMICAL INVENTORY
RELEASE SUMMARY FOR 1988

CHEMICAL REPORTED	TOTAL AIR	WATER	ON-SITE LAND	POTW	OTHER OFF-SITE	TOTAL RELEASES
HYDROGEN FLUORIDE	760	0	0	0	52	812
** Subtotal **	323661	1424	9844	0	72174	407103
** COMPANY: BACOVA GUILD, LTD.						
TOLUENE	36691	0	3018	0	3018	42727
ACETONE	6495	0	0	0	0	6495
STYRENE	750	0	0	0	0	750
** Subtotal **	43936	0	3018	0	3018	49972
** COMPANY: BALL PACK. PROD. GRP. - METAL CONT. DIV.						
MANGANESE	0	0	0	250	2020	2270
SODIUM HYDROXIDE (SOLUTION)	500	0	0	4728	0	5228
SULFURIC ACID	500	0	0	0	0	500
HYDROGEN FLUORIDE	500	0	0	0	0	500
HYDROCHLORIC ACID	250	0	0	0	0	250
BARIUM COMPOUNDS	0	0	0	0	0	0
GLYCOL ETHERS	430200	0	0	0	0	430200
N-BUTYL ALCOHOL	234500	0	0	0	0	234500
METHYL ISOBUTYL KETONE	2494	0	0	0	0	2494
ACETONE	26981	0	0	0	0	26981
** Subtotal **	695925	0	0	4978	2020	702923
** COMPANY: BASF CORPORATION - FIBERS DIVISION						
GLYCOL ETHERS	250	2200	0	0	0	2450
ACRYLONITRILE	219400	290	260	0	3000	222950
SULFURIC ACID	500	0	0	0	0	500
PHOSPHORIC ACID	500	0	0	0	0	500
SODIUM HYDROXIDE (SOLUTION)	0	0	0	0	0	0
HYDROCHLORIC ACID	500	0	0	0	0	500
ZINC (FUME OR DUST)	250	0	14600	0	0	14850
ZINC COMPOUNDS	250	1670	200400	0	10960	213280
POLYCHLORINATED BIPHENYLS	0	0	0	0	36400	36400
** Subtotal **	221650	4160	215260	0	50360	491430
** COMPANY: BASSETT CHAIR COMPANY						
METHANOL	164379	0	0	0	0	164379
METHYL ETHYL KETONE	24807	0	0	0	0	24807
XYLENE (MIXED ISOMERS)	115923	0	0	0	0	115923
ISOPROPYL ALCOHOL	64578	0	0	0	0	64578
TOLUENE	164719	0	0	0	0	164719
ACETONE	97529	0	0	0	0	97529
N-BUTYL ALCOHOL	33853	0	0	0	0	33853
** Subtotal **	595794	0	0	0	0	595794
** COMPANY: BASSETT FURNITURE COMPANY						
SULFURIC ACID	0	0	0	11100	0	11100
TOLUENE	59433	0	0	0	0	59433
XYLENE (MIXED ISOMERS)	47063	0	0	0	0	47063
METHANOL	105400	0	0	0	0	105400
METHYL ISOBUTYL KETONE	32685	0	0	0	0	32685
METHYL ETHYL KETONE	40722	0	0	0	0	40722
ACETONE	26805	0	0	0	0	26805
** Subtotal **	312108	0	0	11100	0	323208
** COMPANY: BASSETT MIRROR COMPANY						
ACETONE	18750	0	0	0	0	18750
** Subtotal **	18750	0	0	0	0	18750
** COMPANY: BASSETT SUPERIOR LINES						
METHYL ETHYL KETONE	177362	0	0	0	0	177362
TOLUENE	349123	0	0	0	0	349123
METHYL ISOBUTYL KETONE	200973	0	0	0	0	200973
ACETONE	20292	0	0	0	0	20292
XYLENE (MIXED ISOMERS)	60283	0	0	0	0	60283
DI(2-ETHYLHEXYL) PHTHALATE	46500	0	0	0	0	46500

APPENDIX I (continued)

SARA TITLE III SECTION 313 TOXIC CHEMICAL INVENTORY
RELEASE SUMMARY FOR 1988

CHEMICAL REPORTED	TOTAL AIR	WATER	ON-SITE LAND	POTW	OTHER OFF-SITE	TOTAL RELEASES
** Subtotal **	854533	0	0	0	0	854533
** COMPANY: BASSETT TABLE COMPANY						
METHYL ETHYL KETONE	15106	0	0	0	0	15106
METHYL ISOBUTYL KETONE	10008	0	0	0	0	10008
METHANOL	94907	0	0	0	0	94907
TOLUENE-2,6-DIISOCYANATE	58140	0	0	0	0	58140
** Subtotal **	178161	0	0	0	0	178161
** COMPANY: BASSETT, J.D. MANUFACTURING COMPANY						
METHYL ISOBUTYL KETONE	38794	0	0	0	0	38794
XYLENE (MIXED ISOMERS)	63852	0	0	0	0	63852
TOLUENE	152065	0	0	0	0	152065
ACETONE	75800	0	0	0	0	75800
METHYL ETHYL KETONE	26021	0	0	0	0	26021
METHANOL	263332	0	0	0	0	263332
** Subtotal **	619864	0	0	0	0	619864
** COMPANY: BASSETT, WM FURNITURE COMPANY						
TOLUENE	80446	0	0	0	0	80446
XYLENE (MIXED ISOMERS)	125428	0	0	0	0	125428
ACETONE	13424	0	0	0	0	13424
METHYL ISOBUTYL KETONE	25103	0	0	0	0	25103
METHANOL	120451	0	0	0	0	120451
METHYL ETHYL KETONE	89024	0	0	0	0	89024
** Subtotal **	453876	0	0	0	0	453876
** COMPANY: BASSETT-WALKER, INC.						
1,1,1-TRICHLOROETHANE	14350	0	0	0	0	14350
BIPHENYL	11408	0	0	115	0	11523
SODIUM HYDROXIDE (SOLUTION)	0	0	0	860	0	860
** Subtotal **	25758	0	0	975	0	26733
** COMPANY: BEAR ISLAND PAPER COMPANY, L.P.						
CHLORINE	0	0	0	0	0	0
SODIUM HYDROXIDE (SOLUTION)	0	0	0	93	0	93
PHOSPHORIC ACID	0	0	0	0	0	0
SULFURIC ACID	0	0	0	0	0	0
AMMONIA	20	0	0	1600	2	1622
** Subtotal **	20	0	0	1693	2	1715
** COMPANY: BELDING HAUSMAN, INC. - WELDON MILL						
1,1,1-TRICHLOROETHANE	24000	0	0	0	0	24000
** Subtotal **	24000	0	0	0	0	24000
** COMPANY: BENJAMIN MOORE & COMPANY - COLONIAL HEIGHTS						
ETHYLENE GLYCOL	73	0	0	0	0	73
GLYCOL ETHERS	48	0	0	0	0	48
ZINC COMPOUNDS	234	0	0	0	712	946
** Subtotal **	355	0	0	0	712	1067
** COMPANY: BENNETTE PAINT MANUFACTURING CO,INC						
ETHYLENE GLYCOL	129	0	0	262	0	391
** Subtotal **	129	0	0	262	0	391
** COMPANY: BGF INDUSTRIES INC.						
ETHYLENE GLYCOL	36000	0	0	2900	0	38900
XYLENE (MIXED ISOMERS)	5100	0	0	7600	0	12700
METHANOL	36000	0	0	3100	0	39100
** Subtotal **	77100	0	0	13600	0	90700

APPENDIX I (continued)

SARA TITLE III SECTION 313 TOXIC CHEMICAL INVENTORY
RELEASE SUMMARY FOR 1988

CHEMICAL REPORTED	TOTAL AIR	WATER	ON-SITE LAND	POTW	OTHER OFF-SITE	TOTAL RELEASES
** COMPANY: BIBB COMPANY						
CHLORINE	250	750	0	0	0	1000
SODIUM HYDROXIDE (SOLUTION)	0	0	0	0	0	0
** Subtotal **	250	750	0	0	0	1000
** COMPANY: BLUE BIRD EAST						
ETHYLENE GLYCOL	0	0	0	0	0	0
N-BUTYL ALCOHOL	14494	0	0	0	0	14494
XYLENE (MIXED ISOMERS)	32365	0	0	0	19700	52065
TOLUENE	25016	0	0	0	0	25016
** Subtotal **	71875	0	0	0	19700	91575
** COMPANY: BLUE RIDGE TALC COMPANY, INC.						
BUTYL BENZYL PHTHALATE	0	0	0	0	0	0
** Subtotal **	0	0	0	0	0	0
** COMPANY: BLUEFIELD BEVERAGE COMPANY						
PHOSPHORIC ACID	0	0	0	0	0	0
** Subtotal **	0	0	0	0	0	0
** COMPANY: BORDEN, INC. - DAIRY DIVISION						
AMMONIA	2000	0	0	0	0	2000
SODIUM HYDROXIDE (SOLUTION)	0	0	0	320000	0	320000
SULFURIC ACID	0	0	0	180000	0	180000
** Subtotal **	2000	0	0	500000	0	502000
** COMPANY: BRAD RAGAN, INC.						
ZINC COMPOUNDS	21	0	0	2038	0	2059
** Subtotal **	21	0	0	2038	0	2059
** COMPANY: BRAD RAGAN, INC. - RUBBER DIVISION						
ZINC COMPOUNDS	21	0	2038	0	2252	4311
** Subtotal **	21	0	2038	0	2252	4311
** COMPANY: BRICK AND TILE CORPORATION OF LAWRENCEVILLE						
MANGANESE	250	0	0	0	0	250
** Subtotal **	250	0	0	0	0	250
** COMPANY: BRISTOL COMPRESSORS, INC.						
1,1,1-TRICHLOROETHANE	149426	60	0	0	0	149486
HYDROCHLORIC ACID	200	30000	0	0	0	30200
** Subtotal **	149626	30060	0	0	0	179686
** COMPANY: BRUNSWICK CORPORATION						
METHYL ETHYL KETONE	75162	0	0	0	75162	150324
METHYL ISOBUTYL KETONE	21112	0	0	0	3452	24564
ACETONE	84403	0	0	0	50177	134580
SULFURIC ACID	0	0	0	0	86130	86130
** Subtotal **	180677	0	0	0	214951	395628
** COMPANY: BURKE-PARSONS-BOWLBY CORPORATION						
CHROMIUM	500	0	0	0	250	750
ARSENIC	500	0	0	0	250	750
ANTHRACENE	500	0	0	0	0	500
DIBENZOFURAN	500	0	0	0	0	500
NAPHTHALENE	1650	0	0	0	0	1650
** Subtotal **	3650	0	0	0	500	4150
** COMPANY: BURLINGTON INDUSTRIES - CLARKSVILLE COMBING PLANT						
PHOSPHORIC ACID	0	0	0	0	500	500
1,1,1-TRICHLOROETHANE	11105	0	0	0	4335	15440

APPENDIX I (continued)

SARA TITLE III SECTION 313 TOXIC CHEMICAL INVENTORY
RELEASE SUMMARY FOR 1988

CHEMICAL REPORTED	TOTAL AIR	WATER	ON-SITE LAND	POTW	OTHER OFF-SITE	TOTAL RELEASES
** Subtotal **	11105	0	0	0	4835	15940
** COMPANY: BURLINGTON INDUSTRIES - CLARKSVILLE FINISHING PL.						
AMMONIUM SULFATE (SOLUTION)	0	36393	250	0	250	36893
BIPHENYL	15555	1647	0	0	4614	21816
CHLORINE	11143	19082	0	0	0	30225
SODIUM HYDROXIDE (SOLUTION)	0	0	0	0	0	0
1,1,1-TRICHLOROETHANE	22685	0	0	0	4335	27020
SULFURIC ACID	10397	0	0	0	0	10397
1,2,4-TRICHLOROBENZENE	70574	16197	0	0	9255	96026
** Subtotal **	130354	73319	250	0	18454	222377
** COMPANY: C.F. SAUER COMPANY						
ETHYLENE OXIDE	5280	0	0	3520	0	8800
** Subtotal **	5280	0	0	3520	0	8800
** COMPANY: C.R. HUDGINS PLATING, INC.						
CYANIDE COMPOUNDS	10000	0	0	200	3	10203
SODIUM HYDROXIDE (SOLUTION)	10000	0	0	0	0	10000
HYDROCHLORIC ACID	6000	0	0	0	0	6000
SULFURIC ACID	0	0	0	0	0	0
ZINC COMPOUNDS	0	0	0	260	12300	12560
** Subtotal **	26000	0	0	460	12303	38763
** COMPANY: CAMCAR TEXTRON - ELK CREEK RAYCARL PRODUCTS DIV.						
COPPER	0	0	0	0	66	66
SULFURIC ACID	0	0	0	0	0	0
** Subtotal **	0	0	0	0	66	66
** COMPANY: CAMCAR TEXTRON AMSCO DIVISION						
SODIUM HYDROXIDE (SOLUTION)	0	0	0	0	0	0
NITRIC ACID	544	0	0	0	0	544
HYDROCHLORIC ACID	1796	0	0	0	0	1796
PHOSPHORIC ACID	376	0	0	0	0	376
SULFURIC ACID	0	0	0	0	0	0
MANGANESE	0	0	0	250	500	750
CHROMIUM	0	0	0	57	2407	2464
** Subtotal **	2716	0	0	307	2907	5930
** COMPANY: CAPITOL PRINTING INK COMPANY, INC.						
COPPER COMPOUNDS	0	0	0	0	0	0
** Subtotal **	0	0	0	0	0	0
** COMPANY: CELLIN MANUFACTURING, INC.						
SULFURIC ACID	250	0	0	0	0	250
CI BASIC GREEN 4	0	0	0	0	250	250
** Subtotal **	250	0	0	0	250	500
** COMPANY: CENTRAL COCA-COLA BOTTLING CO., INC.						
SODIUM HYDROXIDE (SOLUTION)	0	0	0	0	0	0
** Subtotal **	0	0	0	0	0	0
** COMPANY: CERRO METAL PRODUCTS						
ZINC (FUME OR DUST)	0	0	0	250	8100	8350
COPPER	0	0	0	250	9000	9250
LEAD	0	0	0	250	343	593
NITRIC ACID	500	0	0	0	0	500
SODIUM HYDROXIDE (SOLUTION)	0	0	0	0	0	0
** Subtotal **	500	0	0	750	17443	18693
** COMPANY: CHEMSOLV, INC.						
TOLUENE	250	0	0	0	0	250

SARA TITLE III SECTION 313 TOXIC CHEMICAL INVENTORY
RELEASE SUMMARY FOR 1988

CHEMICAL REPORTED	TOTAL AIR	WATER	ON-SITE LAND	POTW	OTHER OFF-SITE	TOTAL RELEASES
SULFURIC ACID	250	0	0	0	0	250
ETHYLENE GLYCOL	250	0	0	0	0	250
STYRENE	250	0	0	0	0	250
ACETONE	250	0	0	0	0	250
1,1,1-TRICHLOROETHANE	750	0	0	0	0	750
** Subtotal **	2000	0	0	0	0	2000
** COMPANY: CHEMTREAT, INC.						
COPPER COMPOUNDS	0	0	0	0	0	0
PHOSPHORIC ACID	0	0	0	0	0	0
HYDRAZINE	0	0	0	0	0	0
MANGANESE COMPOUNDS	0	0	0	0	0	0
SODIUM HYDROXIDE (SOLUTION)	0	0	0	0	6048	6048
ZINC COMPOUNDS	0	0	0	0	919	919
SULFURIC ACID	0	0	0	0	0	0
CHROMIUM COMPOUNDS	0	0	0	0	513	513
** Subtotal **	0	0	0	0	7480	7480
** COMPANY: CHESAPEAKE CORPORATION						
ACETONE	54750	250	0	0	250	55250
SULFURIC ACID	130250	0	0	0	0	130250
SODIUM HYDROXIDE (SOLUTION)	500	0	0	0	0	500
PHOSPHORIC ACID	0	0	0	0	0	0
METHANOL	290250	0	0	0	0	290250
HYDROCHLORIC ACID	78000	0	0	0	0	78000
CHLOROFORM	43750	2500	0	0	250	46500
CHLORINE DIOXIDE	19750	0	0	0	0	19750
CHLORINE	28750	0	0	0	0	28750
AMMONIA	250	0	0	0	0	250
CATECHOL	0	1500	0	0	250	1750
** Subtotal **	646250	4250	0	0	750	651250
** COMPANY: CHESAPEAKE WOOD TREATING COMPANY						
COPPER COMPOUNDS	250	0	0	0	250	500
CHROMIUM COMPOUNDS	250	0	0	0	250	500
ARSENIC COMPOUNDS	250	0	0	0	250	500
** Subtotal **	750	0	0	0	750	1500
** COMPANY: COLONIAL CIRCUITS, INC.						
SULFURIC ACID	250	0	0	0	0	250
SODIUM HYDROXIDE (SOLUTION)	250	0	0	0	0	250
** Subtotal **	500	0	0	0	0	500
** COMPANY: COLONIAL HEIGHTS PACKAGING INC.						
TOLUENE	223156	0	0	0	23136	246292
** Subtotal **	223156	0	0	0	23136	246292
** COMPANY: COLONNA'S SHIPYARD, INC.						
N-BUTYL ALCOHOL	16985	0	0	0	0	16985
XYLENE (MIXED ISOMERS)	12747	0	0	0	0	12747
COPPER COMPOUNDS	16448	0	0	0	0	16448
** Subtotal **	46180	0	0	0	0	46180
** COMPANY: COMDIAL CORPORATION						
1,1,1-TRICHLOROETHANE	84600	0	0	5400	5400	95400
LEAD	0	0	0	0	2700	2700
FREON 113	63300	0	0	0	47800	111100
TOLUENE	17900	0	0	0	14000	31900
ISOPROPYL ALCOHOL	12900	0	0	0	0	12900
** Subtotal **	178700	0	0	5400	69900	254000
** COMPANY: COMMONWEALTH FILM PROCESSING, INC.						
ETHYLENE GLYCOL	23485	0	0	9966	0	33451

APPENDIX I (continued)

SARA TITLE III SECTION 313 TOXIC CHEMICAL INVENTORY
RELEASE SUMMARY FOR 1988

CHEMICAL REPORTED	TOTAL AIR	WATER	ON-SITE LAND	POTW	OTHER OFF-SITE	TOTAL RELEASES
** Subtotal **	23485	0	0	9966	0	33451
** COMPANY: COMMONWEALTH WOOD PRESERVERS, INC.						
ARSENIC COMPOUNDS	0	28	0	0	3501	3529
CHROMIUM COMPOUNDS	0	6	0	0	2764	2770
COPPER COMPOUNDS	0	36	0	0	2027	2063
** Subtotal **	0	70	0	0	8292	8362
** COMPANY: CONAGRA FROZEN FOODS						
SODIUM HYDROXIDE (SOLUTION)	0	0	0	120000	0	120000
AMMONIA	62500	0	0	0	0	62500
** Subtotal **	62500	0	0	120000	0	182500
** COMPANY: CONN-WELD INDUSTRIES, INC.						
NICKEL	250	0	0	0	0	250
CHROMIUM	250	0	0	0	0	250
** Subtotal **	500	0	0	0	0	500
** COMPANY: CONSOLIDATED GLASS AND MIRROR CORPORATION						
SODIUM HYDROXIDE (SOLUTION)	0	0	0	49945	0	49945
** Subtotal **	0	0	0	49945	0	49945
** COMPANY: COOPER INDUSTRIES, EDP						
SODIUM HYDROXIDE (SOLUTION)	0	0	0	0	0	0
NITRIC ACID	0	0	0	0	0	0
SULFURIC ACID	0	0	0	0	0	0
2-ETHOXYETHANOL	34035	0	0	0	0	34035
** Subtotal **	34035	0	0	0	0	34035
** COMPANY: COORS BREWING COMPANY						
AMMONIA	250	1600	0	0	29018	30868
CHLORINE	250	17	0	0	0	267
PHOSPHORIC ACID	0	0	0	0	0	0
SODIUM HYDROXIDE (SOLUTION)	0	0	0	0	4500	4500
** Subtotal **	500	1617	0	0	33518	35635
** COMPANY: CORNING GLASS WORKS						
SODIUM HYDROXIDE (SOLUTION)	250	0	0	0	0	250
BARIUM COMPOUNDS	500	250	0	0	4000	4750
LEAD COMPOUNDS	500	250	0	0	4200	4950
ZINC COMPOUNDS	500	250	0	0	1900	2650
NITRIC ACID	500	0	0	0	0	500
** Subtotal **	2250	750	0	0	10100	13100
** COMPANY: CREATIVE URETHANES INC.						
DICHLOROMETHANE	15163	0	0	0	0	15163
FREON 113	34165	0	0	0	0	34165
1,1,1-TRICHLOROETHANE	14800	0	0	0	750	15550
** Subtotal **	64128	0	0	0	750	64878
** COMPANY: CROWN CORK & SEAL CO., INC.						
XYLENE (MIXED ISOMERS)	424410	0	0	0	0	424410
METHYL ETHYL KETONE	33013	0	0	0	0	33013
DIMETHYL PHTHALATE	74329	0	0	0	0	74329
N-BUTYL ALCOHOL	41987	0	0	0	0	41987
** Subtotal **	573739	0	0	0	0	573739
** COMPANY: CULPEPER WOOD PRESERVERS						
COPPER COMPOUNDS	250	0	0	0	0	250
CHROMIUM COMPOUNDS	250	0	0	0	0	250
ARSENIC COMPOUNDS	250	0	0	0	0	250

APPENDIX I (continued)

SARA TITLE III SECTION 313 TOXIC CHEMICAL INVENTORY
RELEASE SUMMARY FOR 1988

CHEMICAL REPORTED	TOTAL AIR	WATER	ON-SITE LAND	POTW	OTHER OFF-SITE	TOTAL RELEASES
** Subtotal **	750	0	0	0	0	750
** COMPANY: CUSTOM WOOD PRODUCTS - FASHION TOP						
TOLUENE	16000	0	0	0	0	16000
ACETONE	32000	0	0	0	0	32000
** Subtotal **	48000	0	0	0	0	48000
** COMPANY: CYPRUS FOOTE MINERAL COMPANY						
HYDROCHLORIC ACID	0	0	0	0	0	0
SODIUM HYDROXIDE (SOLUTION)	0	0	0	0	0	0
SULFURIC ACID	0	0	0	0	0	0
** Subtotal **	0	0	0	0	0	0
** COMPANY: DAN RIVER INC. - CHEMICAL PRODUCTS DIVISION						
ETHYLENE GLYCOL	1801	0	0	1	0	1802
METHANOL	4530	0	0	2700	0	7230
FORMALDEHYDE	2980	0	0	170	0	3150
NITRIC ACID	2570	0	0	420	0	2990
VINYL ACETATE	4800	0	0	120	0	4920
METHYL METHACRYLATE	20	0	0	40	0	60
CHLOROMETHANE	12580	0	0	30	0	12610
PYRIDINE	810	0	0	44	8080	8934
TOLUENE	135000	0	0	0	26000	161000
HYDROCHLORIC ACID	3320	0	0	0	0	3320
MALEIC ANHYDRIDE	794	0	0	0	0	794
ACETONE	1160	0	0	0	0	1160
SODIUM HYDROXIDE (SOLUTION)	0	0	0	0	0	0
METHYL ETHYL KETONE	2860	0	0	0	0	2860
ACRYLIC ACID	220	0	0	300	0	520
** Subtotal **	173445	0	0	3825	34080	211350
** COMPANY: DAN RIVER INC. - RIVERSIDE DIV. LONG MILL & SHOPS						
ETHYLENE GLYCOL	0	0	0	3300	0	3300
SODIUM HYDROXIDE (SOLUTION)	0	0	0	19500	0	19500
** Subtotal **	0	0	0	22800	0	22800
** COMPANY: DAN RIVER INC. - SCHOOLFIELD COMPLEX						
METHANOL	173300	0	0	0	0	173300
SULFURIC ACID	28	0	0	0	0	28
CHLORINE	2500	0	0	0	0	2500
1,1,1-TRICHLOROETHANE	30000	0	0	0	0	30000
SODIUM HYDROXIDE (SOLUTION)	0	0	0	73000	0	73000
ETHYLENE GLYCOL	0	0	0	23000	0	23000
1,2,4-TRICHLOROBENZENE	6	0	0	12500	0	12506
** Subtotal **	205834	0	0	108500	0	314334
** COMPANY: DAVIS PAINT MANUFACTURERS INC.						
XYLENE (MIXED ISOMERS)	500	0	0	0	750	1250
TOLUENE	500	0	0	0	750	1250
ZINC (FUME OR DUST)	500	0	0	0	250	750
METHYL ISOBUTYL KETONE	500	0	0	0	750	1250
** Subtotal **	2000	0	0	0	2500	4500
** COMPANY: DAYSTROM FURNITURE						
SULFURIC ACID	0	0	0	0	0	0
SODIUM HYDROXIDE (SOLUTION)	0	0	0	0	0	0
XYLENE (MIXED ISOMERS)	15450	0	0	0	250	15700
ACETONE	15650	0	0	0	9600	25250
TOLUENE	22530	0	0	0	10100	32630
** Subtotal **	53630	0	0	0	19950	73580
** COMPANY: DEGESCH AMERICA, INC./AMPHOS LTD.						
AMMONIA	580	0	0	0	0	580

APPENDIX I (continued)

SARA TITLE III SECTION 313 TOXIC CHEMICAL INVENTORY
RELEASE SUMMARY FOR 1988

CHEMICAL REPORTED	TOTAL AIR	WATER	ON-SITE LAND	POTW	OTHER OFF-SITE	TOTAL RELEASES
** Subtotal **	580	0	0	0	0	580
** COMPANY: DELCO MORAINE DIVISION, GMC						
SODIUM HYDROXIDE (SOLUTION)	0	0	0	0	0	0
** Subtotal **	0	0	0	0	0	0
** COMPANY: DELUXE CHECK PRINTERS						
1,1,1-TRICHLOROETHANE	11530	0	0	0	2302	13832
** Subtotal **	11530	0	0	0	2302	13832
** COMPANY: DISPERSION SPECIALTIES, INC.						
TOLUENE	7250	0	0	0	0	7250
** Subtotal **	7250	0	0	0	0	7250
** COMPANY: DISSTON COMPANY						
TRICHLOROETHYLENE	126600	0	0	0	3276	129876
** Subtotal **	126600	0	0	0	3276	129876
** COMPANY: DOMINION CHEMICAL COMPANY						
HYDROCHLORIC ACID	0	0	0	0	0	0
SODIUM HYDROXIDE (SOLUTION)	0	0	0	0	0	0
NITRIC ACID	0	0	0	0	0	0
SULFURIC ACID	0	0	0	0	0	0
METHANOL	0	0	0	0	0	0
** Subtotal **	0	0	0	0	0	0
** COMPANY: DOYLE LUMBER, INC.						
ARSENIC COMPOUNDS	0	0	0	0	1382	1382
CHROMIUM COMPOUNDS	0	0	0	0	640	640
COPPER COMPOUNDS	0	0	0	0	273	273
** Subtotal **	0	0	0	0	2495	2495
** COMPANY: DU PONT - FRONT ROYAL PLANT						
ZINC COMPOUNDS	0	0	0	0	750	750
METHYL ACRYLATE	500	0	0	0	750	1250
METHYL ETHYL KETONE	5518	0	0	0	115100	120618
GLYCOL ETHERS	1000	0	0	0	750	1750
LEAD COMPOUNDS	0	0	0	0	21650	21650
METHANOL	500	0	0	0	750	1250
BUTYL BENZYL PHTHALATE	500	0	0	0	8100	8600
DIBUTYL PHTHALATE	500	0	0	0	750	1250
ETHYL ACRYLATE	500	0	0	0	8100	8600
ACETONE	15658	0	0	0	460500	476158
ACRYLONITRILE	250	0	0	0	0	250
BARIUM COMPOUNDS	0	0	0	0	0	0
BUTYL ACRYLATE	1308	0	0	0	750	2058
METHYL ISOBUTYL KETONE	500	0	0	0	250	750
METHYL METHACRYLATE	30828	0	0	0	22700	53528
N-BUTYL ALCOHOL	500	0	0	0	500	1000
PHTHALIC ANHYDRIDE	0	0	0	0	1200	1200
STYRENE	500	0	0	0	750	1250
TOLUENE	34338	0	0	0	691600	725938
XYLENE (MIXED ISOMERS)	10738	0	0	0	224950	235688
** Subtotal **	103638	0	0	0	1559900	1663538
** COMPANY: DU PONT - JAMES RIVER PLANT						
SULFURIC ACID	8100	0	0	0	0	8100
** Subtotal **	8100	0	0	0	0	8100
** COMPANY: DU PONT - MARTINSVILLE PLANT						
BIPHENYL	28000	0	0	0	0	28000
CHLORINE	200	200	0	0	0	400
HYDROCHLORIC ACID	200	0	0	0	0	200

APPENDIX I (continued)

SARA TITLE III SECTION 313 TOXIC CHEMICAL INVENTORY
RELEASE SUMMARY FOR 1988

CHEMICAL REPORTED	TOTAL AIR	WATER	ON-SITE LAND	POTW	OTHER OFF-SITE	TOTAL RELEASES
PHOSPHORIC ACID	400	0	0	0	0	400
SODIUM HYDROXIDE (SOLUTION)	400	0	0	0	0	400
** Subtotal **	29200	200	0	0	0	29400
** COMPANY: DU PONT - SPRUANCE SITE						
CHLORINE	1	0	0	0	0	1
TETRACHLOROETHYLENE	24200	0	0	0	700	24900
TOLUENE	115800	0	0	0	22000	137800
DICHLOROMETHANE	24025	0	0	0	0	24025
HYDROCHLORIC ACID	0	0	0	0	0	0
P-PHENYLEDIAMINE	0	0	0	0	117400	117400
SODIUM HYDROXIDE (SOLUTION)	0	0	0	0	0	0
SULFURIC ACID	3500	0	0	0	4500000	4503500
BIPHENYL	7900	0	0	0	4000	11900
CHLOROFORM	190100	600	0	0	0	190700
CARBON DISULFIDE	53000	0	0	0	530	53530
CARBON TETRACHLORIDE	6000	0	0	0	11000	17000
** Subtotal **	424526	600	0	0	4655630	5080756
** COMPANY: DU PONT - WAYNESBORO PLANT						
METHYL ACRYLATE	21209	0	10	0	0	21219
ZINC COMPOUNDS	8	0	0	0	4687	4695
SULFURIC ACID	498	0	0	0	0	498
SODIUM HYDROXIDE (SOLUTION)	0	0	10	0	0	10
PHOSPHORIC ACID	704	0	0	0	0	704
NITRIC ACID	327	0	0	0	0	327
METHYLENEBIS(PHENYLISOCYANATE)	60	0	0	0	25113	25173
CHLORINE	0	0	0	0	0	0
BIPHENYL	9763	8	0	0	0	9771
AMMONIA	500	1708	0	0	4879	7087
ACRYLONITRILE	126010	0	10	0	0	126020
2-ETHOXYETHANOL	514	0	0	0	0	514
** Subtotal **	160393	1716	30	0	34679	196818
** COMPANY: E-SYSTEMS, INC., MELPAR DIVISION - FAIRFAX						
FREON 113	15692	0	0	0	2742	18434
** Subtotal **	15692	0	0	0	2742	18434
** COMPANY: E-SYSTEMS, INC., MELPAR DIVISION - FALLS CHURCH						
1,1,1-TRICHLOROETHANE	13884	0	0	0	778	14662
** Subtotal **	13884	0	0	0	778	14662
** COMPANY: E.R. CARPENTER CO., INC.						
METHYLENEBIS(PHENYLISOCYANATE)	500	0	0	0	0	500
DICHLOROMETHANE	534044	0	0	0	243024	777068
BARIUM COMPOUNDS	2132	0	0	0	0	2132
1,1,1-TRICHLOROETHANE	47320	0	0	0	0	47320
TOLUENE-2,6-DIISOCYANATE	500	0	0	0	0	500
TOLUENE-2,4-DIISOCYANATE	500	0	0	0	0	500
** Subtotal **	584996	0	0	0	243024	828020
** COMPANY: ELECTRO-TEC						
FREON 113	32081	0	0	0	1954	34035
ACETONE	12800	0	0	0	4600	17400
1,1,1-TRICHLOROETHANE	10447	0	0	0	10447	20894
COPPER	0	0	0	120	20	140
** Subtotal **	55328	0	0	120	17021	72469
** COMPANY: EMPIRE FURNITURE COMPANY - B.C. VAUGHAN PLANT						
ACETONE	25697	0	0	0	3743	29440
METHANOL	83432	0	0	0	635	84067
XYLENE (MIXED ISOMERS)	18363	0	0	0	127	18490
METHYL ETHYL KETONE	19570	0	0	0	2242	21812
TOLUENE	78551	0	0	0	8901	87452

APPENDIX I (continued)

SARA TITLE III SECTION 313 TOXIC CHEMICAL INVENTORY
RELEASE SUMMARY FOR 1988

CHEMICAL REPORTED	TOTAL AIR	WATER	ON-SITE LAND	POTW	OTHER OFF-SITE	TOTAL RELEASES
** Subtotal **	225613	0	0	0	15648	241261
** COMPANY: EMPIRE FURNITURE COMPANY - E.C. DODSON PLANT						
TOLUENE	33570	0	0	0	5989	39559
ACETONE	14015	0	0	0	2518	16533
METHYL ETHYL KETONE	13320	0	0	0	1500	14820
** Subtotal **	60905	0	0	0	10007	70912
** COMPANY: EMPIRE FURNITURE COMPANY - T.G. VAUGHAN PLANT						
N-BUTYL ALCOHOL	13721	0	0	0	3235	16956
METHYL ETHYL KETONE	29138	0	0	0	4037	33175
ACETONE	34631	0	0	0	6736	41367
DI(2-ETHYLHEXYL) PHTHALATE	17504	0	0	0	0	17504
METHANOL	81919	0	0	0	1142	83061
TOLUENE	129827	0	0	0	16022	145849
XYLENE (MIXED ISOMERS)	27249	0	0	0	229	27478
** Subtotal **	333989	0	0	0	31398	365387
** COMPANY: ETHAN ALLEN - BRIDGEWATER DIVISION						
TOLUENE	29940	0	0	250	500	30690
METHYL ETHYL KETONE	13628	0	0	250	500	14378
** Subtotal **	43568	0	0	500	1000	45068
** COMPANY: FABRICATED METALS INDUSTRIES, INC.						
TOLUENE	12259	0	0	0	0	12259
** Subtotal **	12259	0	0	0	0	12259
** COMPANY: FACET FUEL SYSTEMS						
ALUMINUM (FUME OR DUST)	30	7	0	3	483	523
ZINC (FUME OR DUST)	10	5	0	2	578	595
** Subtotal **	40	12	0	5	1061	1118
** COMPANY: FARMER MACHINE COMPANY						
CHROMIUM	0	0	0	0	8979	8979
** Subtotal **	0	0	0	0	8979	8979
** COMPANY: FEDERAL MOGUL CORP.						
AMMONIA	260	0	0	0	0	260
CHLORINE	3947	0	0	0	0	3947
COPPER COMPOUNDS	500	135	0	0	24703	25338
CYANIDE COMPOUNDS	415	5	0	0	1000	1420
HYDROCHLORIC ACID	1825	0	0	0	0	1825
LEAD COMPOUNDS	404	0	0	0	11156	11560
NITRIC ACID	250	0	0	0	0	250
SODIUM HYDROXIDE (SOLUTION)	500	0	0	0	0	500
SULFURIC ACID	1000	0	0	0	0	1000
TRICHLOROETHYLENE	63900	0	0	0	0	63900
** Subtotal **	73001	140	0	0	36859	110000
** COMPANY: FIELDCREST CANNON, INC.						
SODIUM HYDROXIDE (SOLUTION)	0	0	0	968	0	968
CHLORINE	250	0	0	0	0	250
HYDROCHLORIC ACID	0	0	0	0	0	0
** Subtotal **	250	0	0	968	0	1218
** COMPANY: FIRESTONE FIBERS & TEXTILES COMPANY						
ETHYLENE GLYCOL	286400	0	0	53000	100000	439400
TEREPHTHALIC ACID	0	0	0	30000	245000	275000
CHLORINE	0	0	0	14000	0	14000
** Subtotal **	286400	0	0	97000	345000	728400

APPENDIX I (continued)

SARA TITLE III SECTION 313 TOXIC CHEMICAL INVENTORY
RELEASE SUMMARY FOR 1988

CHEMICAL REPORTED	TOTAL AIR	WATER	ON-SITE LAND	POTW	OTHER OFF-SITE	TOTAL RELEASES
** COMPANY: FLAV-O-RICH, INC.						
PHOSPHORIC ACID	0	0	0	39591	0	39591
SODIUM HYDROXIDE (SOLUTION)	0	0	0	55654	0	55654
** Subtotal **	0	0	0	95245	0	95245
** COMPANY: FLEETWOOD TRAVEL TRAILERS OF VIRGINIA						
1,1,1-TRICHLOROETHANE	17000	0	0	0	0	17000
** Subtotal **	17000	0	0	0	0	17000
** COMPANY: FORD MOTOR CO. - NORFOLK ASSEMBLY PLANT						
DICHLOROMETHANE	6200	0	0	0	0	6200
DIETHANOLAMINE	0	0	0	40000	0	40000
ETHYLENE GLYCOL	0	0	0	0	0	0
GLYCOL ETHERS	190900	0	0	5400	0	196300
METHANOL	320	0	0	0	0	320
METHYL ETHYL KETONE	23500	0	0	0	0	23500
METHYL ISOBUTYL KETONE	100610	0	0	0	0	100610
N-BUTYL ALCOHOL	341800	0	0	0	0	341800
PHOSPHORIC ACID	0	0	0	0	0	0
SODIUM HYDROXIDE (SOLUTION)	0	0	0	1200	0	1200
SULFURIC ACID	0	0	0	0	0	0
TOLUENE	131500	0	0	0	0	131500
XYLENE (MIXED ISOMERS)	452300	0	0	0	0	452300
1,2,4-TRIMETHYLBENZENE	20	0	0	0	0	20
ETHYLBENZENE	38	0	0	0	0	38
DI(2-ETHYLHEXYL) PHTHALATE	0	0	0	0	0	0
BENZENE	131	0	0	0	0	131
** Subtotal **	1247319	0	0	46600	0	1293919
** COMPANY: FREEMAN RESINS						
STYRENE	1000	250	0	250	250	1750
PHTHALIC ANHYDRIDE	500	250	0	0	250	1000
MALEIC ANHYDRIDE	500	250	0	0	250	1000
ETHYLENE GLYCOL	500	250	0	250	500	1500
** Subtotal **	2500	1000	0	500	1250	5250
** COMPANY: GARDNER-DENVER, H&C						
SULFURIC ACID	0	0	0	0	0	0
ETHYLENE GLYCOL	0	0	0	0	0	0
TOLUENE	0	0	0	13500	0	13500
** Subtotal **	0	0	0	13500	0	13500
** COMPANY: GE FANUC AUTOMATION, NORTH AMERICA						
DICHLOROMETHANE	74000	0	0	0	532	74532
1,1,1-TRICHLOROETHANE	43400	3	0	0	228	43631
AMMONIA	5800	0	0	0	0	5800
FREON 113	46000	0	0	0	180	46180
SULFURIC ACID	0	0	0	0	13000	13000
** Subtotal **	169200	3	0	0	13940	183143
** COMPANY: GENERAL CHEMICAL CORPORATION - HOPEWELL WORKS						
SULFURIC ACID	1464	0	0	0	0	1464
** Subtotal **	1464	0	0	0	0	1464
** COMPANY: GENERAL ELECTRIC CO. - MOBILE COMMUNICATIONS						
1,1,1-TRICHLOROETHANE	10065	0	0	0	0	10065
FREON 113	20743	0	0	0	0	20743
DICHLOROMETHANE	7253	0	0	0	0	7253
GLYCOL ETHERS	2552	0	0	9600	0	12152
** Subtotal **	40613	0	0	9600	0	50213
** COMPANY: GENERAL ELECTRIC COMPANY - DRIVE SYSTEMS OPERATION						
STYRENE	2700	0	0	0	250	2950
CYANIDE COMPOUNDS	1000	0	0	0	0	1000

APPENDIX I (continued)

SARA TITLE III SECTION 313 TOXIC CHEMICAL INVENTORY
RELEASE SUMMARY FOR 1988

CHEMICAL REPORTED	TOTAL AIR	WATER	ON-SITE LAND	POTW	OTHER OFF-SITE	TOTAL RELEASES
NITRIC ACID	500	0	0	0	0	500
SULFURIC ACID	500	0	0	0	0	500
SODIUM HYDROXIDE (SOLUTION)	1100	0	0	0	0	1100
HYDROCHLORIC ACID	6810	0	0	0	0	6810
1,1,1-TRICHLOROETHANE	28995	0	0	0	0	28995
** Subtotal **	41605	0	0	0	250	41855
** COMPANY: GENERAL ELECTRIC COMPANY - WINCHESTER LAMP PLANT						
LEAD COMPOUNDS	250	0	0	0	117868	118118
LEAD	250	0	0	0	18938	19188
** Subtotal **	500	0	0	0	136806	137306
** COMPANY: GENERAL PRODUCTS COMPANY, INC.						
METHYL ETHYL KETONE	655454	0	0	0	500	655954
XYLENE (MIXED ISOMERS)	60119	0	0	0	0	60119
METHYLENEBIS(PHENYLISOCYANATE)	2	0	0	0	750	752
** Subtotal **	715575	0	0	0	1250	716825
** COMPANY: GENERAL SHALE PRODUCTS CORPORATION						
MANGANESE COMPOUNDS	200	0	0	0	0	200
** Subtotal **	200	0	0	0	0	200
** COMPANY: GENICOM CORPORATION						
MIXTURE - CHEMSOLV 6610 SOLVENT	500	0	0	0	90000	90500
ACETONE	500	0	0	0	25000	25500
FREON 113	250	0	0	0	5900	6150
CHLORINE	0	400	0	0	0	400
NITRIC ACID	250	0	0	0	750	1000
HYDROCHLORIC ACID	0	250	0	0	0	250
** Subtotal **	1500	650	0	0	121650	123800
** COMPANY: GEORGIA-PACIFIC CORP. - EMPORIA PINE PLYWOOD						
SODIUM HYDROXIDE (SOLUTION)	0	0	0	0	0	0
** Subtotal **	0	0	0	0	0	0
** COMPANY: GEORGIA-PACIFIC CORP. - JARRATT SOFTBOARD						
SODIUM HYDROXIDE (SOLUTION)	0	0	0	0	0	0
** Subtotal **	0	0	0	0	0	0
** COMPANY: GEORGIA-PACIFIC CORP. - SKIPPERS OSB						
PHENOL	170000	0	0	0	0	170000
SODIUM HYDROXIDE (SOLUTION)	0	0	0	0	0	0
FORMALDEHYDE	111000	0	0	0	0	111000
** Subtotal **	281000	0	0	0	0	281000
** COMPANY: GEORGIA-PACIFIC CORP. - SOUTH BOSTON PARTICLEBOARD						
FORMALDEHYDE	34000	0	0	0	0	34000
TOLUENE	10400	0	0	0	0	10400
AMMONIUM SULFATE (SOLUTION)	0	0	0	0	0	0
AMMONIA	1200	0	0	0	0	1200
** Subtotal **	45600	0	0	0	0	45600
** COMPANY: GESMAR CORPORATION						
ACETONE	13400	0	0	0	250	13650
STYRENE	2700	0	0	0	250	2950
** Subtotal **	16100	0	0	0	500	16600
** COMPANY: GNB INC.						
LEAD COMPOUNDS	961	0	0	1	250	1212
SULFURIC ACID	500	0	0	0	0	500
SODIUM HYDROXIDE (SOLUTION)	0	0	0	0	0	0

APPENDIX I (continued)

SARA TITLE III SECTION 313 TOXIC CHEMICAL INVENTORY
RELEASE SUMMARY FOR 1988

CHEMICAL REPORTED	TOTAL AIR	WATER	ON-SITE LAND	POTW	OTHER OFF-SITE	TOTAL RELEASES
** Subtotal **	1461	0	0	1	250	1712
** COMPANY: GOLDSCHMIDT CHEMICAL CORPORATION						
ETHYLENE GLYCOL	0	0	0	61036	0	61036
DI(2-ETHYLHEXYL) PHTHALATE	0	0	0	250	250	500
** Subtotal **	0	0	0	61286	250	61536
** COMPANY: GOODYEAR TIRE & RUBBER COMPANY						
METHANOL	48876	0	0	0	582	49458
XYLENE (MIXED ISOMERS)	43675	0	0	0	3555	47230
TOLUENE	28326	0	0	0	1712	30038
HYDROCHLORIC ACID	0	0	0	0	0	0
COBALT COMPOUNDS	0	0	0	0	630	630
ZINC COMPOUNDS	594	0	0	0	76	670
** Subtotal **	121471	0	0	0	6555	128026
** COMPANY: GRAVURE PACKAGING, INC.						
ACETONE	8200	0	0	0	0	8200
METHYL ETHYL KETONE	4300	0	0	0	0	4300
TOLUENE	77000	0	0	0	0	77000
** Subtotal **	89500	0	0	0	0	89500
** COMPANY: GRIFFIN PIPE PRODUCTS COMPANY						
PHENOL	39500	0	0	0	39500	79000
METHANOL	17195	0	0	0	0	17195
ALUMINUM OXIDE	0	0	0	0	800567	800567
XYLENE (MIXED ISOMERS)	272397	0	0	0	0	272397
ISOPROPYL ALCOHOL	13466	0	0	0	0	13466
** Subtotal **	342558	0	0	0	840067	1182625
** COMPANY: GROENDYK MANUFACTURING CO., INC.						
TOLUENE	14879	0	0	0	0	14879
** Subtotal **	14879	0	0	0	0	14879
** COMPANY: GTE VALENITE CORPORATION						
FREON 113	19887	0	0	0	0	19887
** Subtotal **	19887	0	0	0	0	19887
** COMPANY: GWALTNEY OF SMITHFIELD, LTD.						
CHLORINE	0	38000	0	0	0	38000
** Subtotal **	0	38000	0	0	0	38000
** COMPANY: H.S. NASH TIMBER CORP.						
CHROMIUM COMPOUNDS	250	0	0	0	0	250
** Subtotal **	250	0	0	0	0	250
** COMPANY: HANKIN & JOHANN, INC.						
SODIUM HYDROXIDE (SOLUTION)	1000	0	0	0	0	1000
SULFURIC ACID	1000	0	0	0	0	1000
** Subtotal **	2000	0	0	0	0	2000
** COMPANY: HANSON PORCELAIN COMPANY, INC.						
SODIUM HYDROXIDE (SOLUTION)	250	0	0	195990	0	196240
SULFURIC ACID	250	0	0	417000	0	417250
ALUMINUM OXIDE	0	0	0	0	250	250
BARIUM	0	0	0	0	250	250
COBALT	0	0	0	0	250	250
MANGANESE	0	0	0	0	250	250
NICKEL	0	0	0	0	250	250
NICKEL COMPOUNDS	250	0	0	417000	0	417250
ARSENIC	0	0	0	0	250	250
COPPER	0	0	0	0	250	250

APPENDIX I (continued)

SARA TITLE III SECTION 313 TOXIC CHEMICAL INVENTORY
RELEASE SUMMARY FOR 1988

CHEMICAL REPORTED	TOTAL AIR	WATER	ON-SITE LAND	POTW	OTHER OFF-SITE	TOTAL RELEASES
** Subtotal **	750	0	0	1029990	1750	1032490
** COMPANY: HASKELL CHEMICAL COMPANY, INC.						
METHYL ETHYL KETONE	1000	0	0	0	0	1000
TOLUENE	1000	0	0	0	0	1000
XYLENE (MIXED ISOMERS)	500	0	0	0	0	500
METHANOL	500	0	0	0	0	500
ACETONE	500	0	0	0	0	500
ETHYLENE GLYCOL	500	0	0	0	0	500
DIBUTYL PHTHALATE	500	0	0	0	0	500
1,1,1-TRICHLOROETHANE	500	0	0	0	0	500
** Subtotal **	5000	0	0	0	0	5000
** COMPANY: HASKELL MANUFACTURING CORPORATION						
METHYL ETHYL KETONE	6688	0	0	0	0	6688
TOLUENE	2846	0	0	0	0	2846
** Subtotal **	9534	0	0	0	0	9534
** COMPANY: HERCULES INCORPORATED - COVINGTON						
ACRYLIC ACID	500	250	0	0	0	750
SODIUM HYDROXIDE (SOLUTION)	0	0	0	0	0	0
HYDROCHLORIC ACID	2621	0	0	0	0	2621
METHYL METHACRYLATE	500	250	0	0	0	750
VINYLIDENE CHLORIDE	8882	250	0	0	0	9132
** Subtotal **	12503	750	0	0	0	13253
** COMPANY: HERCULES INCORPORATED - FRANKLIN						
FORMALDEHYDE	1000	6723	4034	0	0	11757
AMMONIA	254	326	0	0	0	580
SULFURIC ACID	0	0	0	0	0	0
SODIUM HYDROXIDE (SOLUTION)	0	0	0	0	0	0
HYDROCHLORIC ACID	500	0	0	0	0	500
ACETONE	556500	2370	4741	0	0	563611
1,2-DICHLOROPROPANE	68370	7600	0	0	0	75970
** Subtotal **	626624	17019	8775	0	0	652418
** COMPANY: HOECHST CELANESE - NARROWS						
ACETONE	10863000	280	0	0	17442	10880722
ACETONITRILE	0	160	0	0	0	160
BENZENE	371000	20	0	0	250	371270
CHLORINE	0	0	0	0	0	0
ETHYLENE	29000	0	0	0	0	29000
DICHLOROMETHANE	228900	0	0	0	2400	231300
METHYL ETHYL KETONE	300000	80	0	0	0	300080
SULFURIC ACID	0	0	0	0	2700	2700
SODIUM HYDROXIDE (SOLUTION)	0	0	0	0	0	0
** Subtotal **	11791900	540	0	0	22792	11815232
** COMPANY: HOECHST CELANESE - PORTSMOUTH						
ACRYLIC ACID	35383	0	0	0	0	35383
ALLYL CHLORIDE	182	0	0	0	0	182
AMMONIA	5115	43395	0	0	0	48510
1,2-DICHLOROETHANE	300	0	0	0	0	300
PHOSPHORIC ACID	0	0	0	0	0	0
SODIUM HYDROXIDE (SOLUTION)	0	17	0	0	0	17
SULFURIC ACID	0	0	0	0	0	0
ZINC COMPOUNDS	0	169	11060	0	0	11229
** Subtotal **	40980	43581	11060	0	0	95621
** COMPANY: HOLLY FARMS FOODS, INC. - CREWE FEED MILL						
COPPER	0	0	0	0	0	0
** Subtotal **	0	0	0	0	0	0

APPENDIX I (continued)

SARA TITLE III SECTION 313 TOXIC CHEMICAL INVENTORY
RELEASE SUMMARY FOR 1988

CHEMICAL REPORTED	TOTAL AIR	WATER	ON-SITE LAND	POTW	OTHER OFF-SITE	TOTAL RELEASES
** COMPANY: HOLLY FARMS FOODS, INC. - HARRISONBURG						
AMMONIA	17245	0	0	0	0	17245
CHLORINE	250	0	0	0	0	250
** Subtotal **	17495	0	0	0	0	17495
** COMPANY: HOLLY FARMS FOODS, INC. - NEW MARKET FEED MILL						
COPPER SULFATE	0	0	0	0	0	0
** Subtotal **	0	0	0	0	0	0
** COMPANY: HOLLY FARMS FOODS, INC. - RICHMOND PLANT						
CHLORINE	250	250	0	0	0	500
SODIUM HYDROXIDE (SOLUTION)	0	0	0	0	0	0
AMMONIA	1600	0	0	0	0	1600
** Subtotal **	1850	250	0	0	0	2100
** COMPANY: HOLLY FARMS FOODS, INC. - TEMPERANCEVILLE PLANT						
SODIUM HYDROXIDE (SOLUTION)	0	0	0	0	0	0
AMMONIA	3290	0	0	0	0	3290
CHLORINE	250	0	0	0	0	250
** Subtotal **	3540	0	0	0	0	3540
** COMPANY: HON COMPANY						
TOLUENE	111550	0	0	0	0	111550
N-BUTYL ALCOHOL	15350	0	0	0	0	15350
1,2,4-TRIMETHYLBENZENE	15650	0	0	0	0	15650
XYLENE (MIXED ISOMERS)	134350	0	0	0	0	134350
** Subtotal **	276900	0	0	0	0	276900
** COMPANY: HOOKER FURNITURE CORPORATION - MARTINSVILLE						
METHANOL	88627	0	0	197	1253	90077
SODIUM HYDROXIDE (SOLUTION)	0	0	0	21067	0	21067
ACETONE	15236	0	0	1015	11446	27697
METHYL ISOBUTYL KETONE	19576	0	0	3026	1985	24586
XYLENE (MIXED ISOMERS)	40696	0	0	3023	0	43719
TOLUENE	35622	0	0	2463	18650	56735
METHYL ETHYL KETONE	8167	0	0	1051	0	9218
** Subtotal **	207924	0	0	31841	33334	273099
** COMPANY: HOOKER FURNITURE CORPORATION - ROANOKE						
N-BUTYL ALCOHOL	19062	0	0	4474	0	23536
METHYL ETHYL KETONE	21579	0	0	5062	0	26641
TOLUENE	42346	0	0	9933	0	52279
ACETONE	36943	0	0	8665	0	45608
XYLENE (MIXED ISOMERS)	19151	0	0	4492	0	23643
METHANOL	51234	0	0	12017	0	63251
SODIUM HYDROXIDE (SOLUTION)	0	0	0	7891	0	7891
** Subtotal **	190315	0	0	52534	0	242849
** COMPANY: HOOVER TREATED WOOD PRODUCTS						
CHROMIUM COMPOUNDS	250	0	0	0	0	250
ARSENIC COMPOUNDS	250	0	0	0	0	250
MIXTURE - MINERAL ACID	250	0	0	0	0	250
COPPER COMPOUNDS	250	0	0	0	0	250
** Subtotal **	1000	0	0	0	0	1000
** COMPANY: HOWMET CASTING DIVISION						
ALUMINUM OXIDE	250	0	0	250	590000	590500
COBALT	250	0	0	250	26230	26730
CHROMIUM	250	0	0	250	36100	36600
HYDROCHLORIC ACID	500	0	0	0	0	500
NICKEL	250	0	0	250	94800	95300
NITRIC ACID	500	0	0	0	17000	17500
1,1,1-TRICHLOROETHANE	84000	0	0	0	0	84000

APPENDIX I (continued)

SARA TITLE III SECTION 313 TOXIC CHEMICAL INVENTORY
RELEASE SUMMARY FOR 1988

CHEMICAL REPORTED	TOTAL AIR	WATER	ON-SITE LAND	POTW	OTHER OFF-SITE	TOTAL RELEASES
** Subtotal **	86000	0	0	1000	764130	851130
** COMPANY: HUBBELL INC. - LIGHTING DIVISION						
SODIUM HYDROXIDE (SOLUTION)	0	0	0	0	121100	121100
NITRIC ACID	0	0	0	0	53000	53000
PHOSPHORIC ACID	0	0	0	0	51800	51800
SULFURIC ACID	0	0	0	0	14490	14490
** Subtotal **	0	0	0	0	220390	220390
** COMPANY: HUBBELL INC. - PULSECOM DIVISION						
FREON 113	12995	0	0	0	0	12995
** Subtotal **	12995	0	0	0	0	12995
** COMPANY: HUNTSMAN CHEMICAL CORPORATION						
STYRENE	217000	0	0	0	2707	219707
ANTIMONY COMPOUNDS	0	0	0	0	750	750
BENZOYL PEROXIDE	0	0	0	0	33	33
DECABROMODIPHENYL OXIDE	21	0	0	0	250	271
ETHYLBENZENE	3760	0	0	0	0	3760
HYDROCHLORIC ACID	0	0	0	1	0	1
SODIUM HYDROXIDE (SOLUTION)	0	0	0	0	0	0
XYLENE (MIXED ISOMERS)	258	0	0	0	0	258
ZINC COMPOUNDS	3	0	0	480	312	795
** Subtotal **	221042	0	0	481	4052	225575
** COMPANY: ICI AMERICAS INC. - HOPEWELL SITE						
CHLORINE	10	0	0	0	0	10
ETHYLENE GLYCOL	5850	509	0	0	0	6359
HYDROCHLORIC ACID	53	0	0	0	0	53
METHANOL	390600	80	0	0	0	390680
SODIUM HYDROXIDE (SOLUTION)	0	0	0	0	0	0
TEREPHTHALIC ACID	0	0	0	0	10000	10000
** Subtotal **	396513	589	0	0	10000	407102
** COMPANY: IMPERIAL ADHESIVES						
1,1,1-TRICHLOROETHANE	1851	0	0	0	0	1851
** Subtotal **	1851	0	0	0	0	1851
** COMPANY: INGERSOLL-RAND COMPANY						
METHANOL	250	0	0	0	0	250
** Subtotal **	250	0	0	0	0	250
** COMPANY: INLAND MOTOR DIVISION - KOLLMORGEN CORPORATION						
FREON 113	15000	0	0	0	0	15000
METHYL ETHYL KETONE	11200	0	0	0	2200	13400
1,1,1-TRICHLOROETHANE	14300	0	0	0	0	14300
** Subtotal **	40500	0	0	0	2200	42700
** COMPANY: INTERNATIONAL BUSINESS MACHINES CORPORATION						
1,1,1-TRICHLOROETHANE	10800	0	0	0	26100	36900
FREON 113	24500	0	0	0	22400	46900
TETRACHLOROETHYLENE	16600	0	0	0	59670	76270
SODIUM HYDROXIDE (SOLUTION)	50	0	0	0	0	50
SULFURIC ACID	3000	0	0	0	0	3000
XYLENE (MIXED ISOMERS)	25240	0	0	0	140360	165610
** Subtotal **	80190	0	0	0	248530	328730
** COMPANY: INTERNATIONAL COLD STORAGE CO., INC						
METHYLENEBIS(PHENYLISOCYANATE)	250	0	0	0	250	500
** Subtotal **	250	0	0	0	250	500

APPENDIX I (continued)

SARA TITLE III SECTION 313 TOXIC CHEMICAL INVENTORY
RELEASE SUMMARY FOR 1988

CHEMICAL REPORTED	TOTAL AIR	WATER	ON-SITE LAND	POTW	OTHER OFF-SITE	TOTAL RELEASES
** COMPANY: INTERNATIONAL TELESERVICE CORPORATION						
FREON 113	14100	0	0	0	1950	16050
** Subtotal **	14100	0	0	0	1950	16050
** COMPANY: INTERTAPE, INC.						
TOLUENE	69130	0	0	0	0	69130
** Subtotal **	69130	0	0	0	0	69130
** COMPANY: ITT - ELECTRO OPTICAL PRODUCTS DIVISION						
HYDROCHLORIC ACID	440	1280	0	3404	20	5144
SODIUM HYDROXIDE (SOLUTION)	530	0	0	775	0	1305
SULFURIC ACID	250	0	0	1640	70	1960
DICHLOROMETHANE	7063	0	0	1100	40	8203
TRICHLOROETHYLENE	2275	0	0	800	0	3075
METHANOL	3820	0	0	305	45363	49488
ACETONE	2793	0	0	365	30555	33713
1,1,1-TRICHLOROETHANE	16785	0	0	310	0	17095
** Subtotal **	33956	1280	0	8699	76048	119983
** COMPANY: IVY INDUSTRIES, INC.						
METHYL ETHYL KETONE	3579	0	0	0	0	3579
METHANOL	7319	0	0	0	0	7319
ACETONE	316	0	0	0	2628	2944
GLYCOL ETHERS	3000	0	0	0	0	3000
DI(2-ETHYLHEXYL) PHTHALATE	2264	0	0	0	0	2264
ISOPROPYL ALCOHOL	7659	0	0	0	0	7659
N-BUTYL ALCOHOL	840	0	0	0	0	840
XYLENE (MIXED ISOMERS)	8784	0	0	0	0	8784
TOLUENE	37267	0	0	0	4788	42055
METHYL ISOBUTYL KETONE	58	0	0	0	0	58
** Subtotal **	71086	0	0	0	7416	78502
** COMPANY: J.W. FERGUSSON & SONS, INC.						
SODIUM HYDROXIDE (SOLUTION)	250	0	0	2000	0	2250
METHYL ETHYL KETONE	7390	0	0	0	8520	15910
TOLUENE	269913	0	0	0	191000	460913
** Subtotal **	277553	0	0	2000	199520	479073
** COMPANY: JAMES RIVER CORP. - FILTRATION PRODUCTS DIVISION						
PHENOL	110000	0	0	0	22900	132900
METHANOL	1080000	0	0	0	750	1080750
** Subtotal **	1190000	0	0	0	23650	1213650
** COMPANY: JEFFERSON MILLS						
1,1,1-TRICHLOROETHANE	13500	0	0	0	5435	18935
** Subtotal **	13500	0	0	0	5435	18935
** COMPANY: JOHN W. HANCOCK, JR., INC.						
LEAD	0	0	0	0	0	0
XYLENE (MIXED ISOMERS)	2773	0	0	0	0	2773
** Subtotal **	2773	0	0	0	0	2773
** COMPANY: JOHN W. TAYLOR PACKING CO., INC.						
SODIUM HYDROXIDE (SOLUTION)	0	0	0	0	0	0
** Subtotal **	0	0	0	0	0	0
** COMPANY: JONES CHEMICALS, INC.						
CHLORINE	500	0	0	0	0	500
SODIUM HYDROXIDE (SOLUTION)	250	0	0	0	0	250
HYDROCHLORIC ACID	500	0	0	0	0	500
** Subtotal **	1250	0	0	0	0	1250

APPENDIX I (continued)

SARA TITLE III SECTION 313 TOXIC CHEMICAL INVENTORY
RELEASE SUMMARY FOR 1988

CHEMICAL REPORTED	TOTAL AIR	WATER	ON-SITE LAND	POTW	OTHER OFF-SITE	TOTAL RELEASES
** COMPANY: JPS ELASTOMERICS CORP - PATRICK						
ZINC COMPOUNDS	0	0	0	0	23550	23550
** Subtotal **	0	0	0	0	23550	23550
** COMPANY: KAWNEER COMPANY, INC.						
SULFURIC ACID	0	0	0	0	0	0
SODIUM HYDROXIDE (SOLUTION)	100	0	0	0	0	100
ALUMINUM OXIDE	0	0	0	0	0	0
HYDROGEN FLUORIDE	0	0	0	0	0	0
NICKEL COMPOUNDS	0	0	0	0	0	0
** Subtotal **	100	0	0	0	0	100
** COMPANY: KELLER ALUMINUM PRODUCTS OF VIRGINIA						
ISOPROPYL ALCOHOL	13160	0	0	0	0	13160
** Subtotal **	13160	0	0	0	0	13160
** COMPANY: KINGSTON-WARREN CORPORATION						
XYLENE (MIXED ISOMERS)	10179	0	0	0	2173	12352
** Subtotal **	10179	0	0	0	2173	12352
** COMPANY: KOPPERS INDUSTRIES, INC.						
ANTHRACENE	1050	3	176	0	40583	41812
NAPHTHALENE	3815	52	147	0	33506	37520
DIBENZOFURAN	969	0	159	0	36501	37629
** Subtotal **	5834	55	482	0	110590	116961
** COMPANY: KRAFT INC. - DAIRY GROUP						
SODIUM HYDROXIDE (SOLUTION)	0	0	0	49000	0	49000
PHOSPHORIC ACID	0	0	0	8500	0	8500
AMMONIA	8500	0	0	0	0	8500
** Subtotal **	8500	0	0	57500	0	66000
** COMPANY: KROGER COMPANY						
AMMONIA	1350	0	0	2300	0	3650
SULFURIC ACID	0	0	0	5418	0	5418
SODIUM HYDROXIDE (SOLUTION)	0	0	0	2278	0	2278
** Subtotal **	1350	0	0	9996	0	11346
** COMPANY: L-WOOD, SOUTHERN PINE SPECIALISTS, INC.						
ARSENIC COMPOUNDS	250	0	0	0	750	1000
CHROMIUM COMPOUNDS	250	0	0	0	250	500
** Subtotal **	500	0	0	0	1000	1500
** COMPANY: LANE COMPANY						
N-BUTYL ALCOHOL	23030	0	0	0	750	23780
ETHYLENE GLYCOL	18484	0	0	0	750	19234
TOLUENE	255597	0	0	0	26296	281893
METHYL ETHYL KETONE	103388	0	0	0	31666	135054
XYLENE (MIXED ISOMERS)	188791	0	0	0	750	189541
ACETONE	86125	0	0	0	250	86375
METHANOL	289235	0	0	0	2037	291272
** Subtotal **	964650	0	0	0	62499	1027149
** COMPANY: LANE COMPANY, INCORPORATED						
ACETONE	16130	0	0	0	250	16380
XYLENE (MIXED ISOMERS)	53070	0	0	0	250	53320
METHANOL	15590	0	0	0	250	15840
TOLUENE	35330	0	0	0	5850	41180
METHYL ETHYL KETONE	17640	0	0	0	3640	21280
N-BUTYL ALCOHOL	29960	0	0	0	250	30210
** Subtotal **	167720	0	0	0	10490	178210

APPENDIX 1 (continued)

SARA TITLE III SECTION 313 TOXIC CHEMICAL INVENTORY
RELEASE SUMMARY FOR 1988

CHEMICAL REPORTED	TOTAL AIR	WATER	ON-SITE LAND	POTW	OTHER OFF-SITE	TOTAL RELEASES
** COMPANY: LEA INDUSTRIES, PLANT #2						
XYLENE (MIXED ISOMERS)	20479	0	0	0	733	21212
METHYL ETHYL KETONE	24967	0	0	0	893	25860
TOLUENE	51397	0	0	0	1840	53237
METHANOL	11404	0	0	0	408	11812
** Subtotal **	108247	0	0	0	3874	112121
** COMPANY: LEBANON AGRICORP - CAPE CHARLES						
PHOSPHORIC ACID	12	0	0	0	0	12
AMMONIA	9	0	0	0	0	9
** Subtotal **	21	0	0	0	0	21
** COMPANY: LEBANON AGRICORP - CHESAPEAKE FERTILIZER						
AMMONIUM SULFATE (SOLUTION)	25	0	0	0	0	25
PHOSPHORIC ACID	188	0	0	0	0	188
AMMONIA	24	0	0	0	0	24
** Subtotal **	237	0	0	0	0	237
** COMPANY: LEBANON AGRICORP - OLD DOMINION FERTILIZER						
AMMONIA	2710	0	0	0	0	2710
AMMONIUM SULFATE (SOLUTION)	27	0	0	0	0	27
PHOSPHORIC ACID	224	0	0	0	0	224
** Subtotal **	2961	0	0	0	0	2961
** COMPANY: LEBANON AGRICORP - PIEDMONT FERTILIZER						
PHOSPHORIC ACID	129	0	0	0	0	129
AMMONIA	18	0	0	0	0	18
AMMONIUM SULFATE (SOLUTION)	18	0	0	0	0	18
** Subtotal **	165	0	0	0	0	165
** COMPANY: LEBANON AGRICORP - STUARTS DRAFT						
PHOSPHORIC ACID	60	0	0	0	0	60
AMMONIA	10	0	0	0	0	10
AMMONIUM SULFATE (SOLUTION)	20	0	0	0	0	20
** Subtotal **	90	0	0	0	0	90
** COMPANY: LEBANON CHEMICAL CORPORATION						
PHOSPHORIC ACID	549	0	0	0	0	549
SULFURIC ACID	6	0	0	0	0	6
AMMONIA	2084	0	0	0	0	2084
** Subtotal **	2639	0	0	0	0	2639
** COMPANY: LEE LABORATORIES INC./INFRACORP, LTD.						
METHANOL	229	0	0	110000	0	110229
TOLUENE	171100	0	0	21000	6400	198500
ETHYLENE GLYCOL	487	0	0	33000	52000	85487
ACETONE	94	0	0	87000	0	87094
SODIUM HYDROXIDE (SOLUTION)	0	0	0	0	0	0
ACRYLIC ACID	72	0	0	0	0	72
SULFURIC ACID	0	0	0	0	0	0
** Subtotal **	171982	0	0	251000	58400	481382
** COMPANY: LEES COMMERCIAL CARPET COMPANY						
N-BUTYL ALCOHOL	0	1200	0	0	0	1200
SODIUM HYDROXIDE (SOLUTION)	0	0	0	0	0	0
ALUMINUM OXIDE	0	0	0	0	52000	52000
PHOSPHORIC ACID	0	0	0	0	0	0
** Subtotal **	0	1200	0	0	52000	53200
** COMPANY: LIBERTY FABRICS, INC.						
SODIUM HYDROXIDE (SOLUTION)	0	0	0	0	0	0

APPENDIX 1 (continued)

SARA TITLE III SECTION 313 TOXIC CHEMICAL INVENTORY
RELEASE SUMMARY FOR 1988

CHEMICAL REPORTED	TOTAL AIR	WATER	ON-SITE LAND	POTW	OTHER OFF-SITE	TOTAL RELEASES
** Subtotal **	0	0	0	0	0	0
** COMPANY: LIQUID CARBONIC CARBON DIOXIDE CORP						
AMMONIA	45000	0	0	0	0	45000
** Subtotal **	45000	0	0	0	0	45000
** COMPANY: LITTON POLY-SCIENTIFIC .						
FREON 113	54999	0	0	0	40705	95704
1,1,1-TRICHLOROETHANE	22291	0	0	0	51134	73425
ISOPROPYL ALCOHOL	2279	0	0	0	43512	45791
DICHLOROMETHANE	29191	0	0	0	22800	51991
** Subtotal **	108760	0	0	0	158151	266911
** COMPANY: LOFTON CORPORATION						
SULFURIC ACID	0	0	0	0	0	0
PHOSPHORIC ACID	0	0	0	0	0	0
XYLENE (MIXED ISOMERS)	12686	0	0	0	44007	56693
NAPHTHALENE	10481	0	0	0	0	10481
TOLUENE	15190	0	0	0	0	15190
** Subtotal **	38357	0	0	0	44007	82364
** COMPANY: LOUISIANA-PACIFIC CORPORATION						
FORMALDEHYDE	48326	0	0	0	0	48326
** Subtotal **	48326	0	0	0	0	48326
** COMPANY: LYNCHBURG FOUNDRY - ARCHER CREEK						
1,1,1-TRICHLOROETHANE	8450	0	2800	0	0	11250
ALUMINUM OXIDE	293131	0	683904	0	0	977035
CHLORINE	0	10350	0	0	0	10350
PHENOL	11635	61	18050	0	0	29746
** Subtotal **	313216	10411	704754	0	0	1028381
** COMPANY: LYNCHBURG FOUNDRY - LOWER BASIN PLANT						
MANGANESE	2629701	0	0	0	13724160	16353861
PHENOL	22578	308	0	0	7465	30351
ALUMINUM OXIDE	172661	0	0	0	343654	516315
1,1,1-TRICHLOROETHANE	95397	0	0	0	38362	133759
METHANOL	165315	0	0	0	7793	173108
** Subtotal **	3085652	308	0	0	14121434	17207394
** COMPANY: LYNCHBURG FOUNDRY - RADFORD SHELL PLANT						
MANGANESE	229	0	286305	0	0	286534
ALUMINUM (FUME OR DUST)	10	0	277094	0	0	277104
PHENOL	62050	72	139341	0	0	201463
METHANOL	199499	0	0	0	0	199499
** Subtotal **	261788	72	702740	0	0	964600
** COMPANY: MADISON WOOD PRESERVERS, INC.						
CHROMIUM COMPOUNDS	0	0	0	0	250	250
COPPER COMPOUNDS	0	0	0	0	250	250
ARSENIC COMPOUNDS	0	0	0	0	250	250
** Subtotal **	0	0	0	0	750	750
** COMPANY: MAGNETEK/UNIVERSAL ELECTRIC - ALTAVISTA WORKS						
XYLENE (MIXED ISOMERS)	100250	0	0	250	0	100500
ALUMINUM (FUME OR DUST)	250	0	0	0	0	250
COPPER	250	0	0	250	0	500
** Subtotal **	100750	0	0	500	0	101250
** COMPANY: MAGNOX PULASKI INCORPORATED						
ZINC COMPOUNDS	49	16	0	0	13000	13065
COBALT COMPOUNDS	33	63	0	0	1600	1696

SARA TITLE III SECTION 313 TOXIC CHEMICAL INVENTORY
RELEASE SUMMARY FOR 1988

CHEMICAL REPORTED	TOTAL AIR	WATER	ON-SITE LAND	POTW	OTHER OFF-SITE	TOTAL RELEASES
SODIUM HYDROXIDE (SOLUTION)	0	0	0	0	0	0
** Subtotal **	82	79	0	0	14600	14761
** COMPANY: MAIDA DEVELOPMENT COMPANY						
BARIUM COMPOUNDS	252	0	0	250	18000	18502
ZINC COMPOUNDS	252	0	0	48	9000	9300
TETRACHLOROETHYLENE	27250	0	0	0	0	27250
1,1,1-TRICHLOROETHANE	9250	0	0	0	0	9250
** Subtotal **	37004	0	0	298	27000	64302
** COMPANY: MANVILLE SALES CORPORATION						
TETRACHLOROETHYLENE	10932	0	0	0	562	11494
ETHYLENE GLYCOL	0	1070	0	1070	0	2140
TOLUENE	103782	0	0	0	3101	106883
ANTIMONY COMPOUNDS	0	0	0	0	7473	7473
** Subtotal **	114714	1070	0	1070	11136	127990
** COMPANY: MARTIN PROCESSING, INC.						
TOLUENE	207495	0	0	0	57651	265146
METHYL ETHYL KETONE	123950	0	0	0	191000	314950
METHYL ISOBUTYL KETONE	250	0	0	0	28550	28800
ISOPROPYL ALCOHOL	5150	0	0	0	8200	13350
SODIUM HYDROXIDE (SOLUTION)	250	0	0	250	0	500
ETHYLENE GLYCOL	504250	0	250	117250	0	621750
PHOSPHORIC ACID	0	0	0	250	0	250
** Subtotal **	841345	0	250	117750	285401	1244746
** COMPANY: MARTINSVILLE NOVELTY CORPORATION						
TOLUENE	4124	0	0	0	0	4124
METHANOL	31170	0	0	0	0	31170
METHYL ETHYL KETONE	2553	0	0	0	0	2553
ACETONE	5695	0	0	0	0	5695
** Subtotal **	43542	0	0	0	0	43542
** COMPANY: MARVA MAID DAIRY						
SODIUM HYDROXIDE (SOLUTION)	0	0	0	63706	0	63706
NITRIC ACID	0	0	0	6811	0	6811
AMMONIA	7000	0	0	0	0	7000
** Subtotal **	7000	0	0	70517	0	77517
** COMPANY: MASONITE CORP. - STUART PLANT						
FORMALDEHYDE	44550	0	0	0	0	44550
** Subtotal **	44550	0	0	0	0	44550
** COMPANY: MASONITE CORP. - WAVERLY						
FORMALDEHYDE	65300	0	0	0	0	65300
XYLENE (MIXED ISOMERS)	7000	0	0	0	2000	9000
METHYL ETHYL KETONE	22000	0	0	0	3800	25800
TOLUENE	78000	0	0	0	3000	81000
ACETONE	36000	0	0	0	1200	37200
** Subtotal **	208300	0	0	0	10000	218300
** COMPANY: MAXWELL COMMUNICATION RICHMOND						
XYLENE (MIXED ISOMERS)	56000	0	0	0	7240	63240
TOLUENE	888000	0	0	0	120100	1008100
** Subtotal **	944000	0	0	0	127340	1071340
** COMPANY: MEDECO SECURITY LOCKS, INC.						
COPPER COMPOUNDS	750	0	0	250	0	1000
ZINC COMPOUNDS	250	0	0	250	0	500
CYANIDE COMPOUNDS	0	0	0	250	0	250
LEAD COMPOUNDS	250	0	0	250	0	500
CHROMIUM COMPOUNDS	0	0	0	750	0	750

SARA TITLE III SECTION 313 TOXIC CHEMICAL INVENTORY
RELEASE SUMMARY FOR 1988

CHEMICAL REPORTED	TOTAL AIR	WATER	ON-SITE LAND	POTW	OTHER OFF-SITE	TOTAL RELEASES
NITRIC ACID	250	0	0	10800	0	11050
1,1,1-TRICHLOROETHANE	21000	0	0	0	250	21250
FREON 113	42250	0	0	0	250	42500
** Subtotal **	64750	0	0	12550	500	77800
** COMPANY: MERCEDES BENZ TRUCK COMPANY, INC.						
ETHYLENE GLYCOL	0	0	0	0	0	0
METHYL ETHYL KETONE	15115	0	0	0	17022	32137
GLYCOL ETHERS	8908	0	0	0	11110	20018
** Subtotal **	24023	0	0	0	28132	52155
** COMPANY: MERCK & CO., INC.						
ACETONE	95000	30	0	0	0	95030
ACRYLONITRILE	1070	0	0	0	0	1070
AMMONIA	6400	26700	0	0	0	33100
CHLORINE	53	300	0	0	0	353
CHLOROMETHANE	241300	0	0	0	0	241300
CYCLOHEXANE	9720	30	0	0	0	9750
DIMETHYL SULFATE	1550	0	0	0	0	1550
HYDROCHLORIC ACID	82070	0	0	0	0	82070
METHANOL	82900	0	0	0	0	82900
PHOSPHORIC ACID	0	0	0	0	0	0
SODIUM HYDROXIDE (SOLUTION)	20	0	0	0	0	20
SULFURIC ACID	0	0	0	0	0	0
XYLENE (MIXED ISOMERS)	132500	30	0	0	11	132541
** Subtotal **	652583	27090	0	0	11	679684
** COMPANY: MEREDITH/BURDA						
TOLUENE	2000000	27500	0	250	62741	2090491
SULFURIC ACID	250	0	0	0	250	500
METHANOL	8113	0	0	19862	0	27975
** Subtotal **	2008363	27500	0	20112	62991	2118966
** COMPANY: MERILLAT INDUSTRIES, INC. - ATKINS						
N-BUTYL ALCOHOL	52042	0	0	0	0	52042
TOLUENE	110374	0	0	0	0	110374
XYLENE (MIXED ISOMERS)	46879	0	0	0	0	46879
ACETONE	15507	0	0	0	572	16079
** Subtotal **	224802	0	0	0	572	225374
** COMPANY: MERILLAT INDUSTRIES, INC. - MT. JACKSON						
N-BUTYL ALCOHOL	42069	0	0	0	1579	43648
XYLENE (MIXED ISOMERS)	38114	0	0	0	1579	39693
TOLUENE	168461	0	0	0	6511	174972
METHANOL	104044	0	0	0	3946	107990
METHYL ETHYL KETONE	26662	0	0	0	1184	27846
** Subtotal **	379350	0	0	0	14799	394149
** COMPANY: METRO MACHINE CORPORATION						
XYLENE (MIXED ISOMERS)	6003	0	0	0	9390	15393
N-BUTYL ALCOHOL	30397	0	0	0	18780	49177
** Subtotal **	36400	0	0	0	28170	64570
** COMPANY: MICA COMPANY OF CANADA, INC.						
METHANOL	136400	0	0	0	0	136400
TOLUENE	152300	0	0	0	0	152300
** Subtotal **	288700	0	0	0	0	288700
** COMPANY: MID-ATLANTIC COCA-COLA BOTTLING COMPANY, INC.						
SODIUM HYDROXIDE (SOLUTION)	0	0	0	0	0	0
PHOSPHORIC ACID	0	0	0	1487	0	1487
** Subtotal **	0	0	0	1487	0	1487

SARA TITLE III SECTION 313 TOXIC CHEMICAL INVENTORY
RELEASE SUMMARY FOR 1988

CHEMICAL REPORTED	TOTAL AIR	WATER	ON-SITE LAND	POTW	OTHER OFF-SITE	TOTAL RELEASES
** COMPANY: MODINE MANUFACTURING COMPANY						
COPPER	3	0	0	0	4	7
SODIUM HYDROXIDE (SOLUTION)	0	0	0	0	0	0
** Subtotal **	3	0	0	0	4	7
** COMPANY: MOHAWK RUBBER COMPANY						
METHANOL	31100	0	0	0	0	31100
ISOPROPYL ALCOHOL	27700	0	0	0	0	27700
TOLUENE	64300	0	0	0	0	64300
XYLENE (MIXED ISOMERS)	147000	0	0	0	0	147000
ZINC COMPOUNDS	250	0	0	1100	40600	41950
** Subtotal **	270350	0	0	1100	40600	312050
** COMPANY: MORRISON MOLDED FIBER GLASS COMPANY						
STYRENE	53959	0	0	0	0	53959
ANTIMONY COMPOUNDS	1311	0	0	0	0	1311
1,1,1-TRICHLOROETHANE	463	0	0	0	0	463
DECABROMODIPHENYL OXIDE	3343	0	0	0	0	3343
DICHLOROMETHANE	11125	0	0	0	0	11125
LEAD COMPOUNDS	5	0	0	0	0	5
CHROMIUM COMPOUNDS	10	0	0	0	0	10
** Subtotal **	70216	0	0	0	0	70216
** COMPANY: MORTON INTERNATIONAL						
ACETONE	13000	0	0	0	0	13000
BARIUM COMPOUNDS	250	0	0	250	16000	16500
** Subtotal **	13250	0	0	250	16000	29500
** COMPANY: MOTNA INSULATED WIRE COMPANY						
DICHLOROMETHANE	25200	0	0	0	0	25200
** Subtotal **	25200	0	0	0	0	25200
** COMPANY: NATIONAL STARCH & CHEMICAL CORP.						
1,1,1-TRICHLOROETHANE	2740	0	0	250	500	3490
** Subtotal **	2740	0	0	250	500	3490
** COMPANY: NAUTILUS SPORTS/MEDICAL INDUSTRIES, INC.-INDEPEND.						
CHROMIUM COMPOUNDS	0	0	0	0	179	179
PROPYLENE	440	0	0	0	0	440
DICHLOROMETHANE	18800	0	0	0	0	18800
** Subtotal **	19240	0	0	0	179	19419
** COMPANY: NEAGLE'S FLEXO, INC.						
NITRIC ACID	1000	0	0	0	0	1000
** Subtotal **	1000	0	0	0	0	1000
** COMPANY: NEKOOSA PACKAGING						
PHOSPHORIC ACID	0	0	0	0	0	0
CHLORINE	250	0	0	0	0	250
SODIUM HYDROXIDE (SOLUTION)	250	0	0	0	10	260
** Subtotal **	500	0	0	0	10	510
** COMPANY: NEWBERN FINISHING PLANT						
AMMONIA	26115	486	0	0	0	26601
CHLORINE	1275	177	0	0	0	1452
SODIUM HYDROXIDE (SOLUTION)	0	0	0	0	0	0
** Subtotal **	27390	663	0	0	0	28053
** COMPANY: NEWPORT NEWS SHIPBUILDING & DRYDOCK COMPANY						
ACETONE	186000	0	0	0	97850	283850
ALUMINUM OXIDE	4000	0	0	0	0	4000
ALUMINUM OXIDE	7700	0	0	0	0	7700

APPENDIX I (continued)

SARA TITLE III SECTION 313 TOXIC CHEMICAL INVENTORY
RELEASE SUMMARY FOR 1988

CHEMICAL REPORTED	TOTAL AIR	WATER	ON-SITE LAND	POTW	OTHER OFF-SITE	TOTAL RELEASES
AMMONIA	16800	0	0	0	0	16800
BARIUM COMPOUNDS	750	0	0	0	6050	6800
N-BUTYL ALCOHOL	67000	0	0	0	129150	196150
CHROMIUM COMPOUNDS	250	0	0	250	2300	2800
COPPER COMPOUNDS	750	0	0	250	3150	4150
DICHLOROMETHANE	24800	0	0	0	20300	45100
2-ETHOXYETHANOL	7800	0	0	0	11750	19550
FREON 113	110000	0	0	0	3600	113600
LEAD COMPOUNDS	250	0	0	8	44	302
MANGANESE COMPOUNDS	1400	0	0	0	11250	12650
METHYL ETHYL KETONE	6000	0	0	0	5550	11550
NICKEL COMPOUNDS	250	0	0	250	8250	8750
NITRIC ACID	250	0	0	0	0	250
PHOSPHORIC ACID	250	0	0	0	0	250
TOLUENE	5220	0	0	0	6280	11500
1,1,1-TRICHLOROETHANE	40170	0	0	0	4000	44170
TRICHLOROETHYLENE	16870	0	0	0	9300	26170
SODIUM HYDROXIDE (SOLUTION)	250	0	0	0	0	250
SULFURIC ACID	250	0	0	0	0	250
XYLENE (MIXED ISOMERS)	326000	0	0	0	439700	765700
ZINC COMPOUNDS	250	0	0	15	13750	14015
ETHYLENE GLYCOL	250	0	0	0	0	250
ETHYLBENZENE	1850	0	0	0	70200	72050
ALUMINUM (FUME OR DUST)	15000	0	0	0	0	15000
** Subtotal **	840360	0	0	773	842474	1683607
** COMPANY: NEWS SHIPBUILDING & DRYDOCK COMPANY						
SILVER	0	0	0	0	24	24
** Subtotal **	0	0	0	0	24	24
** COMPANY: NI INDUSTRIES - AUTOMOTIVE TRIM DIVISION						
CHROMIUM	500	0	0	30	13186	13716
NICKEL	500	0	0	10	4711	5221
ALUMINUM OXIDE	5654	0	0	1041	870000	876695
SODIUM HYDROXIDE (SOLUTION)	0	0	0	0	0	0
SULFURIC ACID	0	0	0	0	0	0
** Subtotal **	6654	0	0	1081	887897	895632
** COMPANY: NIBCO STUARTS DRAFT DIVISION						
COPPER COMPOUNDS	15200	0	0	250	5700	21150
PHOSPHORUS (YELLOW OR WHITE)	5450	0	0	0	0	5450
LEAD COMPOUNDS	250	0	0	250	250	750
SULFURIC ACID	280	0	0	0	0	280
SODIUM HYDROXIDE (SOLUTION)	731	0	0	0	0	731
** Subtotal **	21911	0	0	500	5950	28361
** COMPANY: NORFOLK SHIPBUILDING & DRYDOCK CORP - ROSE STREET						
XYLENE (MIXED ISOMERS)	41000	0	0	0	0	41000
ZINC COMPOUNDS	0	0	0	0	250	250
CHROMIUM	250	0	0	0	450	700
COPPER	250	0	0	0	1000	1250
METHYL ISOBUTYL KETONE	18000	0	0	0	0	18000
2-ETHOXYETHANOL	4700	0	0	0	0	4700
N-BUTYL ALCOHOL	17000	0	0	0	0	17000
NICKEL	250	0	0	0	750	1000
** Subtotal **	81450	0	0	0	2450	83900
** COMPANY: NORFOLK SHIPBUILDING & DRYDOCK CORP - W. LIBERTY						
COPPER	250	0	0	0	3500	3750
CHROMIUM	250	0	0	0	1700	1950
METHYL ISOBUTYL KETONE	115000	0	0	0	0	115000
XYLENE (MIXED ISOMERS)	310000	0	0	0	0	310000
NICKEL	250	0	0	0	1100	1350
N-BUTYL ALCOHOL	130000	0	0	0	0	130000
2-ETHOXYETHANOL	32200	0	0	0	0	32200
ZINC COMPOUNDS	0	0	0	0	750	750

APPENDIX I (continued)

SARA TITLE III SECTION 313 TOXIC CHEMICAL INVENTORY
RELEASE SUMMARY FOR 1988

CHEMICAL REPORTED	TOTAL AIR	WATER	ON-SITE LAND	POTW	OTHER OFF-SITE	TOTAL RELEASES
** Subtotal **	587950	0	0	0	7050	595000
** COMPANY: NORFOLK STEEL CORPORATION						
LEAD COMPOUNDS	617	0	0	0	0	617
CADMIUM COMPOUNDS	15	0	0	0	0	15
MANGANESE COMPOUNDS	390	0	0	0	0	390
CHROMIUM COMPOUNDS	16	0	0	0	0	16
** Subtotal **	1038	0	0	0	0	1038
** COMPANY: O'SULLIVAN CORPORATION						
METHYL ETHYL KETONE	10140	0	0	0	0	10140
** Subtotal **	10140	0	0	0	0	10140
** COMPANY: O'SULLIVAN CORPORATION - GULFSTREAM						
ACETONE	135805	0	0	0	0	135805
DICHLOROMETHANE	116373	0	0	0	0	116373
TOLUENE	35966	0	0	0	0	35966
** Subtotal **	288144	0	0	0	0	288144
** COMPANY: O'SULLIVAN CORPORATION - PLASTICS						
ACETONE	208386	0	0	0	0	208386
METHYL ETHYL KETONE	1818495	0	0	0	0	1818495
N-DIOCTYL PHTHALATE	500	0	0	0	0	500
CUMENE	55890	0	0	0	0	55890
XYLENE (MIXED ISOMERS)	103807	0	0	0	0	103807
METHYL ISOBUTYL KETONE	815425	0	0	0	0	815425
TOLUENE	120469	0	0	0	0	120469
ANTIMONY COMPOUNDS	500	0	0	0	0	500
** Subtotal **	3123472	0	0	0	0	3123472
** COMPANY: OLD DOMINION WOOD PRESERVERS						
CHROMIUM COMPOUNDS	250	0	0	0	250	500
COPPER COMPOUNDS	250	0	0	0	250	500
ARSENIC COMPOUNDS	250	0	0	0	250	500
** Subtotal **	750	0	0	0	750	1500
** COMPANY: OWENS-ILLINOIS BROCKWAY GLASS INC. - PLANT #29						
BARIUM COMPOUNDS	250	0	0	0	250	500
DICHLOROMETHANE	11000	0	0	0	0	11000
** Subtotal **	11250	0	0	0	250	11500
** COMPANY: OWENS-ILLINOIS GLASS CONTAINER INC.						
AMMONIA	6700	0	0	0	0	6700
** Subtotal **	6700	0	0	0	0	6700
** COMPANY: PACKAGING CORPORATION OF AMERICA						
SODIUM HYDROXIDE (SOLUTION)	0	0	0	0	0	0
** Subtotal **	0	0	0	0	0	0
** COMPANY: PADGETT MANUFACTURING CO., INC.						
TOLUENE	11290	0	0	0	0	11290
** Subtotal **	11290	0	0	0	0	11290
** COMPANY: PEPSI COLA COMPANY OF ROANOKE						
SODIUM HYDROXIDE (SOLUTION)	0	0	0	35949	0	35949
** Subtotal **	0	0	0	35949	0	35949
** COMPANY: PEPSI-COLA BOTTLING COMPANY						
SODIUM HYDROXIDE (SOLUTION)	0	0	0	22250	0	22250

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CHEMICAL REPORTED	TOTAL AIR	WATER	ON-SITE LAND	POTW	OTHER OFF-SITE	TOTAL RELEASES
** Subtotal **	0	0	0	22250	0	22250
** COMPANY: PEPSI-COLA COMPANY						
AMMONIA	250	0	0	0	0	250
SODIUM HYDROXIDE (SOLUTION)	0	0	0	250	0	250
PHOSPHORIC ACID	0	0	0	0	0	0
** Subtotal **	250	0	0	250	0	500
** COMPANY: PEPSI-COLA GENERAL BOTTLERS, INC.						
SODIUM HYDROXIDE (SOLUTION)	0	0	0	38500	0	38500
** Subtotal **	0	0	0	38500	0	38500
** COMPANY: PERDUE, INC. - ACCOMAC						
SODIUM HYDROXIDE (SOLUTION)	0	0	0	0	0	0
CHLORINE	250	0	0	0	0	250
SULFURIC ACID	0	0	0	0	0	0
AMMONIA	16000	0	0	0	0	16000
** Subtotal **	16250	0	0	0	0	16250
** COMPANY: PERDUE, INC. - BRIDGEWATER						
SULFURIC ACID	0	0	0	0	0	0
PHOSPHORIC ACID	0	0	0	0	0	0
SODIUM HYDROXIDE (SOLUTION)	0	0	0	0	0	0
** Subtotal **	0	0	0	0	0	0
** COMPANY: PERFORMER YACHTS, INC.						
ACETONE	21000	0	0	0	0	21000
** Subtotal **	21000	0	0	0	0	21000
** COMPANY: PHIL CARTER SYSTEM, INC.						
STYRENE	20440	0	0	0	0	20440
ACETONE	39340	0	0	0	0	39340
** Subtotal **	59780	0	0	0	0	59780
** COMPANY: PHILIP MORRIS USA - BL PLANT						
AMMONIA	534443	0	0	65131	7504	607078
** Subtotal **	534443	0	0	65131	7504	607078
** COMPANY: PHILIP MORRIS USA - MANUFACTURING CENTER						
SODIUM HYDROXIDE (SOLUTION)	0	0	0	250	0	250
** Subtotal **	0	0	0	250	0	250
** COMPANY: PHILIP MORRIS USA - PARK 500						
SODIUM HYDROXIDE (SOLUTION)	0	0	0	0	0	0
SULFURIC ACID	0	0	0	0	0	0
AMMONIA	250	2100	0	0	183520	185870
CHLORINE	250	10950	0	0	0	11200
** Subtotal **	500	13050	0	0	183520	197070
** COMPANY: PHILIPS INDUSTRIES, INC. - LASCO PRODUCTION GROUP						
ALUMINUM OXIDE	0	0	0	0	0	0
ACETONE	54000	0	0	0	0	54000
STYRENE	256270	0	0	0	0	256270
** Subtotal **	310270	0	0	0	0	310270
** COMPANY: PI CARV/CRAFT OF FERRUM						
STYRENE	250	0	0	0	0	250
** Subtotal **	250	0	0	0	0	250

APPENDIX I (continued)

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RELEASE SUMMARY FOR 1988

CHEMICAL REPORTED	TOTAL AIR	WATER	ON-SITE LAND	POTW	OTHER OFF-SITE	TOTAL RELEASES
** COMPANY: PIEDMONT EXPLOSIVES, INC. - CLEARBROOK						
AMMONIUM NITRATE (SOLUTION)	0	0	0	0	0	0
** Subtotal **	0	0	0	0	0	0
** COMPANY: PIEDMONT EXPLOSIVES, INC. - PETERSBURG						
AMMONIUM NITRATE (SOLUTION)	0	0	0	0	0	0
** Subtotal **	0	0	0	0	0	0
** COMPANY: PIEDMONT MANUFACTURING COMPANY, INC.						
TETRACHLOROETHYLENE	16500	0	0	0	0	16500
COPPER	0	34	0	0	1373	1407
LEAD	0	2	0	0	56	58
ALUMINUM OXIDE	250	0	0	0	12000	12250
NITRIC ACID	0	0	0	0	0	0
** Subtotal **	16750	36	0	0	13429	30215
** COMPANY: PLANTERS LIFESAVERS CO. - SUFFOLK PLANT						
SODIUM HYDROXIDE (SOLUTION)	0	0	0	9000	0	9000
SULFURIC ACID	0	0	0	0	0	0
** Subtotal **	0	0	0	9000	0	9000
** COMPANY: POLYPENCO						
ETHYLENE GLYCOL	1000	0	0	32000	250	33250
METHYL METHACRYLATE	10250	0	0	0	0	10250
ISOPROPYL ALCOHOL	8400	0	0	8300	0	16700
TRICHLOROETHYLENE	753	0	0	39797	0	40550
** Subtotal **	20403	0	0	80097	250	100750
** COMPANY: POTOMAC SUPPLY CORPORATION						
CHROMIUM COMPOUNDS	0	0	0	0	250	250
COPPER COMPOUNDS	0	0	0	0	250	250
ARSENIC COMPOUNDS	0	0	0	0	250	250
** Subtotal **	0	0	0	0	750	750
** COMPANY: PRIMARY OIL AND ENERGY CORPORATION - CHESTER						
XYLENE (MIXED ISOMERS)	250	0	0	0	0	250
BENZENE	250	0	0	0	0	250
TOLUENE	250	0	0	0	0	250
** Subtotal **	750	0	0	0	0	750
** COMPANY: PRIMARY OIL AND ENERGY CORPORATION - RICHMOND						
TOLUENE	750	0	0	0	0	750
XYLENE (MIXED ISOMERS)	750	0	0	0	0	750
BENZENE	250	0	0	0	0	250
** Subtotal **	1750	0	0	0	0	1750
** COMPANY: PRINTPACK, INC.						
TOLUENE	18608	0	0	0	1339	19947
GLYCOL ETHERS	10708	0	0	0	2266	12974
** Subtotal **	29316	0	0	0	3605	32921
** COMPANY: PT COMPONENTS, INC.						
AMMONIA	17021	0	0	0	0	17021
1,1,1-TRICHLOROETHANE	19373	0	0	0	0	19373
2-NITROPROPANE	250	0	0	0	0	250
** Subtotal **	36644	0	0	0	0	36644
** COMPANY: PULASKI FURNITURE CORP. - PLANT 2						
ACETONE	45542	0	0	0	0	45542
TOLUENE	76187	0	0	0	0	76187
DI(2-ETHYLHEXYL) PHTHALATE	14950	0	0	0	0	14950
METHANOL	33135	0	0	0	0	33135

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CHEMICAL REPORTED	TOTAL AIR	WATER	ON-SITE LAND	POTW	OTHER OFF-SITE	TOTAL RELEASES
XYLENE (MIXED ISOMERS)	26010	0	0	0	0	26010
METHYL ETHYL KETONE	28786	0	0	0	0	28786
GLYCOL ETHERS	20573	0	0	0	0	20573
** Subtotal **	245183	0	0	0	0	245183
** COMPANY: PULASKI FURNITURE CORP. - PLANT 3						
METHANOL	51000	0	0	0	0	51000
ACETONE	92000	0	0	0	0	92000
METHYL ETHYL KETONE	43000	0	0	0	0	43000
TOLUENE	151000	0	0	0	0	151000
DI(2-ETHYLHEXYL) PHTHALATE	42000	0	0	0	0	42000
XYLENE (MIXED ISOMERS)	17000	0	0	0	0	17000
** Subtotal **	396000	0	0	0	0	396000
** COMPANY: PULASKI FURNITURE CORP. - PULASKI PLANT						
METHYL ETHYL KETONE	25000	0	0	0	0	25000
ACETONE	37000	0	0	0	0	37000
GLYCOL ETHERS	19000	0	0	0	0	19000
XYLENE (MIXED ISOMERS)	10000	0	0	0	0	10000
METHANOL	31000	0	0	0	0	31000
TOLUENE	86000	0	0	0	0	86000
DI(2-ETHYLHEXYL) PHTHALATE	37000	0	0	0	0	37000
** Subtotal **	245000	0	0	0	0	245000
** COMPANY: QUALTEX STERILE PRODUCTS DIVISION						
ETHYLENE OXIDE	1000	0	0	0	0	1000
** Subtotal **	1000	0	0	0	0	1000
** COMPANY: R. DONNELLEY & SONS CO. - HARRISONBURG MFG. DIV.						
1,1,1-TRICHLOROETHANE	15000	0	0	0	0	15000
** Subtotal **	15000	0	0	0	0	15000
** COMPANY: RADFORD ARMY AMMUNITION PLANT						
SULFURIC ACID	0	15170	82	0	0	15252
2,4-DINITROTOLUENE	0	3270	0	0	0	3270
NITROGLYCERINE	23575	0	0	0	0	23575
AMMONIA	24060	0	0	0	0	24060
SODIUM HYDROXIDE (SOLUTION)	0	0	0	0	0	0
DIBUTYL PHTHALATE	0	383	786	0	0	1169
DIETHYL PHTHALATE	0	22	0	0	0	22
LEAD COMPOUNDS	0	0	172	0	486	658
ALUMINUM (FUME OR DUST)	0	0	0	0	0	0
ACETONE	1520560	0	0	0	0	1520560
AMMONIUM NITRATE (SOLUTION)	0	0	0	0	0	0
NITRIC ACID	0	0	100	0	0	100
PHOSPHORIC ACID	0	0	0	0	0	0
CHLORINE	0	33900	0	0	0	33900
** Subtotal **	1568195	52745	1140	0	486	1622566
** COMPANY: RASCHIG CORPORATION						
HYDROCHLORIC ACID	500	0	0	250	0	750
** Subtotal **	500	0	0	250	0	750
** COMPANY: REEVES BROTHERS, INC. - VULCAN PLANT						
METHYL ETHYL KETONE	250000	250	0	250	0	250500
TOLUENE	996000	750	0	250	0	997000
** Subtotal **	1246000	1000	0	500	0	1247500
** COMPANY: RELIANCE UNIVERSAL, INC.						
TOLUENE	40541	0	0	0	0	40541
METHANOL	14695	0	0	0	0	14695
METHYL ETHYL KETONE	14759	0	0	0	0	14759
N-BUTYL ALCOHOL	1963	0	0	0	0	1963
METHYL ISOBUTYL KETONE	3309	0	0	0	0	3309

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CHEMICAL REPORTED	TOTAL AIR	WATER	ON-SITE LAND	POTW	OTHER OFF-SITE	TOTAL RELEASES
STYRENE	630	0	0	0	0	630
GLYCOL ETHERS	2342	0	0	0	0	2342
ACETONE	6749	0	0	0	0	6749
XYLENE (MIXED ISOMERS)	19819	0	0	0	0	19819
** Subtotal **	104807	0	0	0	0	104807
** COMPANY: REYNOLDS METALS - BELLWOOD EXTRUSION PLANT						
METHANOL	250	0	0	0	0	250
METHYL ETHYL KETONE	250	0	0	0	0	250
CHROMIUM	250	0	0	0	0	250
COPPER	250	0	0	0	0	250
HEXACHLOROETHANE	0	0	0	0	0	0
MANGANESE	250	0	0	0	0	250
ALUMINUM OXIDE	4500	0	0	0	14400	18900
** Subtotal **	5750	0	0	0	14400	20150
** COMPANY: REYNOLDS METALS - BELLWOOD PRINTING PLANT						
TOLUENE	489000	0	0	0	1000	490000
METHYL ETHYL KETONE	250000	0	0	0	1000	251000
METHANOL	234000	0	0	0	500	234500
ACETONE	151000	0	0	0	500	151500
GLYCOL ETHERS	84000	0	0	0	500	84500
XYLENE (MIXED ISOMERS)	13300	0	0	0	250	13550
CHROMIUM	0	0	0	0	250	250
** Subtotal **	1221300	0	0	0	4000	1225300
** COMPANY: REYNOLDS METALS - BELLWOOD RECLAMATION						
COPPER	500	0	0	0	250	750
NICKEL	500	0	0	0	250	750
CHROMIUM	500	0	0	0	0	500
ALUMINUM OXIDE	5400	0	0	0	38000	43400
CHLORINE	250	0	0	0	0	250
MANGANESE	500	0	0	0	250	750
** Subtotal **	7650	0	0	0	38750	46400
** COMPANY: REYNOLDS METALS - BRISTOL						
CYCLOHEXANE	14488	0	0	0	0	14488
** Subtotal **	14488	0	0	0	0	14488
** COMPANY: REYNOLDS METALS - PLANT 44						
TOLUENE	6	0	0	0	0	6
MANGANESE	250	0	0	0	0	250
ALUMINUM OXIDE	6600	0	0	0	6657	13257
XYLENE (MIXED ISOMERS)	12	0	0	0	0	12
CHLORINE	1000	0	0	0	0	1000
** Subtotal **	7868	0	0	0	6657	14525
** COMPANY: REYNOLDS METALS - PLASTICS PLANT						
BIS (2-ETHYLHEXYL) ADIPATE	2936	0	250	0	16617	19803
** Subtotal **	2936	0	250	0	16617	19803
** COMPANY: REYNOLDS METALS - RICHMOND FOIL PLANT						
ACETONE	53000	0	0	0	2500	55500
METHANOL	10900	0	0	0	190	11090
METHYL ETHYL KETONE	122000	0	0	0	6000	128000
TOLUENE	47000	0	0	0	2100	49100
GLYCOL ETHERS	24500	0	0	0	430	24930
** Subtotal **	257400	0	0	0	11220	268620
** COMPANY: RICHMOND GRAVURE, INC.						
TOLUENE	487000	0	0	0	1300	488300
SODIUM HYDROXIDE (SOLUTION)	0	0	0	0	0	0
METHYL ETHYL KETONE	54600	0	0	0	250	54850

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CHEMICAL REPORTED	TOTAL AIR	WATER	ON-SITE LAND	POTW	OTHER OFF-SITE	TOTAL RELEASES
** Subtotal **	541600	0	0	0	1550	543150
** COMPANY: RIDGEWAY CLOCKS						
METHYL ETHYL KETONE	26630	0	0	0	0	26630
ACETONE	28388	0	0	0	0	28388
METHANOL	12082	0	0	0	0	12082
XYLENE (MIXED ISOMERS)	16147	0	0	0	0	16147
DI(2-ETHYLHEXYL) PHTHALATE	20357	0	0	0	0	20357
TOLUENE	50506	0	0	0	0	50506
GLYCOL ETHERS	22027	0	0	0	0	22027
** Subtotal **	176137	0	0	0	0	176137
** COMPANY: ROANOKE ELECTRIC STEEL CORPORATION						
CADMIUM	250	250	0	0	0	500
CHROMIUM	1487	250	0	0	0	1737
ZINC (FUME OR DUST)	93244	250	0	0	0	93494
SILVER	0	250	0	0	0	250
NICKEL	250	250	0	0	0	500
VANADIUM (FUME OR DUST)	0	0	0	0	0	0
ETHYLENE GLYCOL	0	250	0	0	0	250
ALUMINUM (FUME OR DUST)	4055	250	0	0	0	4305
LEAD	14288	250	0	0	0	14538
MANGANESE COMPOUNDS	1681	250	0	0	0	1931
COPPER	0	250	0	0	0	250
** Subtotal **	115255	2500	0	0	0	117755
** COMPANY: ROCCO FEEDS TURKEY DIVISION						
MANGANESE	0	0	0	0	0	0
ZINC (FUME OR DUST)	0	0	0	0	0	0
** Subtotal **	0	0	0	0	0	0
** COMPANY: ROCCO TURKEYS, INC.						
AMMONIA	15000	0	0	0	0	15000
CHLORINE	0	0	0	24300	0	24300
** Subtotal **	15000	0	0	24300	0	39300
** COMPANY: ROCHESTER CORPORATION						
LEAD	0	0	0	0	10000	10000
HYDROCHLORIC ACID	0	0	0	0	1800	1800
** Subtotal **	0	0	0	0	11800	11800
** COMPANY: ROCK-TENN PAPERBOARD PRODUCTS						
HYDROCHLORIC ACID	186300	0	0	0	0	186300
** Subtotal **	186300	0	0	0	0	186300
** COMPANY: ROCKINGHAM POULTRY, INC.						
AMMONIA	20260	0	0	0	0	20260
PHOSPHORIC ACID	0	15616	0	0	0	15616
AMMONIA	14280	0	0	0	0	14280
CHLORINE	0	11850	0	0	0	11850
** Subtotal **	34540	27466	0	0	0	62006
** COMPANY: ROCKY TOP WOOD PRESERVERS, INC.						
ARSENIC COMPOUNDS	250	0	0	0	0	250
CHROMIUM COMPOUNDS	250	0	0	0	0	250
COPPER COMPOUNDS	250	0	0	0	0	250
** Subtotal **	750	0	0	0	0	750
** COMPANY: RONILE, INC.						
SODIUM HYDROXIDE (SOLUTION)	0	0	0	0	0	0
ETHYLENE GLYCOL	0	250	0	0	0	250

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CHEMICAL REPORTED	TOTAL AIR	WATER	ON-SITE LAND	POTW	OTHER OFF-SITE	TOTAL RELEASES
** Subtotal **	0	250	0	0	0	250
** COMPANY: ROSS LABORATORIES						
GLYCOL ETHERS	4600	0	0	0	8300	12900
SODIUM HYDROXIDE (SOLUTION)	0	0	0	0	15000	15000
PHOSPHORIC ACID	0	0	0	8400	0	8400
SULFURIC ACID	0	0	0	7590	0	7590
** Subtotal **	4600	0	0	15990	23300	43890
** COMPANY: ROYSTER CHESAPEAKE						
AMMONIA	210000	0	0	0	0	210000
ZINC COMPOUNDS	750	3000	0	0	0	3750
MANGANESE COMPOUNDS	250	1400	0	0	0	1650
LEAD COMPOUNDS	250	250	0	0	0	500
COPPER COMPOUNDS	250	250	0	0	0	500
SULFURIC ACID	0	0	0	0	0	0
** Subtotal **	211500	4900	0	0	0	216400
** COMPANY: RUBATEX CORPORATION - PLANT NO. 1						
ANTIMONY COMPOUNDS	500	0	0	0	0	500
ZINC COMPOUNDS	500	0	0	0	0	500
N-DIOCTYL PHTHALATE	500	0	0	0	0	500
** Subtotal **	1500	0	0	0	0	1500
** COMPANY: RUBATEX CORPORATION - PLANT NO. 2						
TOLUENE	127674	0	0	0	11674	139348
XYLENE (MIXED ISOMERS)	14754	0	0	0	250	15004
1,1,1-TRICHLOROETHANE	10250	0	0	0	0	10250
METHYL ETHYL KETONE	495839	0	0	0	1236	497075
** Subtotal **	648517	0	0	0	13160	661677
** COMPANY: RUBATEX CORPORATION - WALTEX NO. 3						
ACETONE	250	0	0	0	500	750
METHYL ETHYL KETONE	250	0	0	0	500	750
TOLUENE	250	0	0	0	1000	1250
** Subtotal **	750	0	0	0	2000	2750
** COMPANY: RUBBERMAID COMMERCIAL PRODUCTS INC.						
N-DIOCTYL PHTHALATE	250	0	0	0	250	500
1,1,1-TRICHLOROETHANE	750	0	0	0	6800	7550
** Subtotal **	1000	0	0	0	7050	8050
** COMPANY: SAM MOORE FURNITURE INDUSTRIES, INC.						
TOLUENE	12350	0	0	0	250	12600
METHANOL	18650	0	0	0	750	19400
** Subtotal **	31000	0	0	0	1000	32000
** COMPANY: SANDVIK ROCK TOOLS, INC.						
BENZOYL PEROXIDE	0	0	0	0	17700	17700
STYRENE	1050	0	0	0	3510	4560
1,1,1-TRICHLOROETHANE	22496	0	0	0	0	22496
** Subtotal **	23546	0	0	0	21210	44756
** COMPANY: SARA LEE KNIT PRODUCTS - GALAX PLANT						
SODIUM HYDROXIDE (SOLUTION)	500	0	0	28622	0	29122
** Subtotal **	500	0	0	28622	0	29122
** COMPANY: SAUNDERS SUPPLY CO., INC.						
CHROMIUM COMPOUNDS	0	2	0	0	50	52
** Subtotal **	0	2	0	0	50	52

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CHEMICAL REPORTED	TOTAL AIR	WATER	ON-SITE LAND	POTW	OTHER OFF-SITE	TOTAL RELEASES
** COMPANY: SEAGRAVE COATINGS CORPORATION						
1,2,4-TRIMETHYLBENZENE	1000	0	0	0	6000	7000
COPPER	500	0	0	0	0	500
N-BUTYL ALCOHOL	1350	0	0	0	6200	7550
** Subtotal **	2850	0	0	0	12200	15050
** COMPANY: SEAWARD INTERNATIONAL, INC.						
TOLUENE	131000	0	0	0	0	131000
TOLUENE-2,4-DIISOCYANATE	1	0	0	0	0	1
** Subtotal **	131001	0	0	0	0	131001
** COMPANY: SHENANDOAH FIBERGLASS PRODUCTION COMPANY						
STYRENE	4100	0	0	0	0	4100
** Subtotal **	4100	0	0	0	0	4100
** COMPANY: SICPA SECURINK CORPORATION						
XYLENE (MIXED ISOMERS)	572	0	0	0	259	831
COPPER COMPOUNDS	0	0	0	0	155	155
GLYCOL ETHERS	329	0	0	0	609	938
METHYL ISOBUTYL KETONE	284	0	0	0	202	486
** Subtotal **	1185	0	0	0	1225	2410
** COMPANY: SIEGWERK, INC.						
TOLUENE	43200	0	0	0	6600	49800
COPPER COMPOUNDS	250	0	0	0	250	500
ZINC COMPOUNDS	250	0	0	0	500	750
BARIUM COMPOUNDS	250	0	0	0	250	500
** Subtotal **	43950	0	0	0	7600	51550
** COMPANY: SIEMENS-BENDIX AUTOMOTIVE ELECTRONICS						
FREON 113	80145	0	0	0	0	80145
** Subtotal **	80145	0	0	0	0	80145
** COMPANY: SINGER FURNITURE COMPANY - ROANOKE PLANT						
N-BUTYL ALCOHOL	61250	0	0	250	0	61500
METHYL ETHYL KETONE	44250	0	0	250	0	44500
METHANOL	42250	0	0	250	0	42500
TOLUENE	120250	0	0	250	0	120500
XYLENE (MIXED ISOMERS)	61250	0	0	250	0	61500
ACETONE	66250	0	0	250	0	66500
GLYCOL ETHERS	14250	0	0	250	0	14500
** Subtotal **	409750	0	0	1750	0	411500
** COMPANY: SLOCUM CHEMICAL CO, INC.						
ACETONE	250	0	0	0	0	250
1,1,1-TRICHLOROETHANE	250	0	0	0	0	250
TOLUENE	250	0	0	0	0	250
** Subtotal **	750	0	0	0	0	750
** COMPANY: SMITH MOUNTAIN WOOD PRESERVERS, INC.						
CHROMIUM COMPOUNDS	0	0	0	0	0	0
COPPER COMPOUNDS	0	0	0	0	0	0
ARSENIC COMPOUNDS	0	0	0	0	0	0
** Subtotal **	0	0	0	0	0	0
** COMPANY: SMITHFIELD PACKING CO., INC.						
CHLORINE	0	27000	0	0	0	27000
** Subtotal **	0	27000	0	0	0	27000
** COMPANY: SNYDERGENERAL CORPORATION						
METHYL ETHYL KETONE	17139	0	0	0	5300	22439
1,1,1-TRICHLOROETHANE	89528	0	0	0	10334	99862

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CHEMICAL REPORTED	TOTAL AIR	WATER	ON-SITE LAND	POTW	OTHER OFF-SITE	TOTAL RELEASES
DICHLOROMETHANE	24051	0	0	0	5197	29248
** Subtotal **	130718	0	0	0	20831	151549
** COMPANY: SOLA OPTICAL USA, INC.						
SULFURIC ACID	0	0	0	18000	0	18000
SODIUM HYDROXIDE (SOLUTION)	0	0	0	250	0	250
FREON 113	126000	0	0	750	0	126750
DICHLOROMETHANE	50000	0	0	250	0	50250
VINYL ACETATE	250	0	0	0	0	250
** Subtotal **	176250	0	0	19250	0	195500
** COMPANY: SOLITE CORPORATION						
ACETONE	181	0	0	0	0	181
METHYL ISOBUTYL KETONE	158	0	0	0	0	158
METHYL ETHYL KETONE	247	0	0	0	0	247
TOLUENE	301	0	0	0	0	301
XYLENE (MIXED ISOMERS)	262	0	0	0	0	262
METHANOL	113	0	0	0	0	113
CYCLOHEXANE	27	0	0	0	0	27
** Subtotal **	1289	0	0	0	0	1289
** COMPANY: SOMERVILLE PACKAGING - WILLIAMSBURG OPERATION						
TOLUENE	27029	0	0	250	10633	37912
** Subtotal **	27029	0	0	250	10633	37912
** COMPANY: SONOCO PRODUCTS COMPANY						
HYDROCHLORIC ACID	92300	0	0	0	0	92300
SODIUM HYDROXIDE (SOLUTION)	0	0	0	0	0	0
CHLORINE	0	0	0	0	0	0
** Subtotal **	92300	0	0	0	0	92300
** COMPANY: SOUTHEAST VINYL COMPANY						
CHLORINE	250	0	0	0	250	500
** Subtotal **	250	0	0	0	250	500
** COMPANY: SOUTHEASTERN ADHESIVES						
AMMONIA	5200	0	500	0	0	5700
FORMALDEHYDE	7700	0	200	15000	0	22900
METHANOL	2550	0	1500	0	0	4050
** Subtotal **	15450	0	2200	15000	0	32650
** COMPANY: SOUTHERN STATES COOPERATIVE, INC. FERTILIZER DIV.						
AMMONIA	100	0	0	0	0	100
AMMONIUM NITRATE (SOLUTION)	200	0	0	0	0	200
SULFURIC ACID	0	0	0	0	0	0
ZINC (FUME OR DUST)	0	0	0	0	0	0
COPPER	0	0	0	0	0	0
MANGANESE	0	0	0	0	0	0
** Subtotal **	300	0	0	0	0	300
** COMPANY: SOUTHLAND INDUSTRIES INC.						
DI(2-ETHYLHEXYL) PHTHALATE	0	0	0	0	40000	40000
** Subtotal **	0	0	0	0	40000	40000
** COMPANY: SPERRY MARINE INC.						
FREON 113	48766	0	0	0	0	48766
1,1,1-TRICHLOROETHANE	14297	0	0	0	0	14297
** Subtotal **	63063	0	0	0	0	63063
** COMPANY: SPRAGUE ELECTRIC COMPANY						
ACETONE	3685	0	0	0	0	3685

SARA TITLE III SECTION 313 TOXIC CHEMICAL INVENTORY
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CHEMICAL REPORTED	TOTAL AIR	WATER	ON-SITE LAND	POTW	OTHER OFF-SITE	TOTAL RELEASES
** Subtotal **	3685	0	0	0	0	3685
** COMPANY: SPURLOCK COMPANY						
AMMONIA	1019	0	0	0	0	1019
FORMALDEHYDE	3157	0	0	0	0	3157
METHANOL	8616	0	0	0	0	8616
** Subtotal **	12792	0	0	0	0	12792
** COMPANY: STACKPOLE BRUSH DIVISION						
TRICHLOROETHYLENE	9735	0	0	0	2145	11880
** Subtotal **	9735	0	0	0	2145	11880
** COMPANY: STANLEY FURNITURE COMPANY - STANLEYTOWN						
N-BUTYL ALCOHOL	96298	0	0	250	250	96798
TOLUENE	249559	0	0	250	250	250059
XYLENE (MIXED ISOMERS)	55818	0	0	250	250	56318
ACETONE	79799	0	0	250	250	80299
METHANOL	260070	0	0	27	1	260098
** Subtotal **	741544	0	0	1027	1001	743572
** COMPANY: STANLEY FURNITURE COMPANY - WAYNESBORO						
TOLUENE	87769	0	0	5	0	87774
METHANOL	100856	0	0	10	0	100866
ACETONE	104190	0	0	11	0	104201
** Subtotal **	292815	0	0	26	0	292841
** COMPANY: STERLING CASKET HARDWARE CO.						
1,1,1-TRICHLOROETHANE	10800	0	0	0	0	10800
** Subtotal **	10800	0	0	0	0	10800
** COMPANY: STILLWATER, INC.						
AMMONIA	7480	0	0	0	0	7480
SULFURIC ACID	0	0	250	0	0	250
** Subtotal **	7480	0	250	0	0	7730
** COMPANY: STONE HOPEWELL INC.						
SULFURIC ACID	40759	0	0	0	0	40759
SODIUM HYDROXIDE (SOLUTION)	25	0	0	0	0	25
METHANOL	22201	0	0	4995149	0	5017350
HYDROCHLORIC ACID	429504	0	0	0	0	429504
CHLORINE	250	0	0	0	0	250
CATECHOL	0	0	0	982392	0	982392
ACETONE	0	0	0	111003	0	111003
** Subtotal **	492739	0	0	6088544	0	6581283
** COMPANY: STOREYS TRANSPRINTS, INC. - COLONIAL HEIGHTS						
TOLUENE	300000	0	0	0	0	300000
METHYL ETHYL KETONE	490000	0	0	0	0	490000
METHYL ISOBUTYL KETONE	82000	0	0	0	0	82000
** Subtotal **	872000	0	0	0	0	872000
** COMPANY: STOREYS TRANSPRINTS, INC. - HARRISONBURG						
METHYL ISOBUTYL KETONE	74000	0	0	0	0	74000
METHYL ETHYL KETONE	16800	0	0	0	0	16800
METHANOL	9900	0	0	0	0	9900
TOLUENE	18700	0	0	0	0	18700
** Subtotal **	119400	0	0	0	0	119400
** COMPANY: SUNLITE PLASTICS COMPANY, INC.						
DI(2-ETHYLHEXYL) PHTHALATE	0	0	0	0	250	250

APPENDIX I (continued)

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CHEMICAL REPORTED	TOTAL AIR	WATER	ON-SITE LAND	POTW	OTHER OFF-SITE	TOTAL RELEASES
** Subtotal **	0	0	0	0	250	250
** COMPANY: SUPER RADIATOR COILS						
TETRACHLOROETHYLENE	3168	0	0	0	10391	13559
** Subtotal **	3168	0	0	0	10391	13559
** COMPANY: SUS-RAP PACKAGING						
1,1,1-TRICHLOROETHANE	18309	0	0	0	0	18309
** Subtotal **	18309	0	0	0	0	18309
** COMPANY: TAPPA ENTERPRISES, INC.						
ASBESTOS (FRIABLE)	250	0	0	0	250	500
** Subtotal **	250	0	0	0	250	500
** COMPANY: TAYLOR-RAMSEY CORPORATION - SE LUMBER DIVISION						
COPPER COMPOUNDS	250	0	0	0	250	500
CHROMIUM COMPOUNDS	250	0	0	0	250	500
ARSENIC COMPOUNDS	250	0	0	0	250	500
** Subtotal **	750	0	0	0	750	1500
** COMPANY: TEXACO REFINING & MARKETING INCORPORATED						
ZINC COMPOUNDS	0	250	0	0	0	250
** Subtotal **	0	250	0	0	0	250
** COMPANY: TEXASGULF, INC. - SALTVILLE OPERATIONS						
PHOSPHORIC ACID	0	0	0	0	0	0
SULFURIC ACID	0	0	0	0	0	0
HYDROGEN FLUORIDE	1500	0	0	0	0	1500
** Subtotal **	1500	0	0	0	0	1500
** COMPANY: THIELE-ENGDAHL						
LEAD COMPOUNDS	23	0	0	0	723	746
METHYL ETHYL KETONE	2176	0	0	0	2100	4276
TOLUENE	11484	0	0	0	89900	101384
DIBUTYL PHTHALATE	0	0	0	0	3100	3100
ZINC COMPOUNDS	15	0	0	0	615	630
BARIUM COMPOUNDS	6	0	0	0	236	242
CHROMIUM COMPOUNDS	6	0	0	0	330	336
COPPER	41	0	0	0	1441	1482
** Subtotal **	13751	0	0	0	98445	112196
** COMPANY: THOMAS J. LIPTON, INC.						
PHOSPHORIC ACID	0	0	0	42853	0	42853
SODIUM HYDROXIDE (SOLUTION)	0	0	0	6422	0	6422
** Subtotal **	0	0	0	49275	0	49275
** COMPANY: THOMASVILLE FURNITURE INDUSTRIES, INC.						
N-BUTYL ALCOHOL	39718	0	0	0	0	39718
METHANOL	67916	0	0	0	0	67916
METHYL ETHYL KETONE	20420	0	0	0	0	20420
XYLENE (MIXED ISOMERS)	23830	0	0	0	0	23830
TOLUENE	39066	0	0	0	0	39066
** Subtotal **	218950	0	0	0	0	218950
** COMPANY: TIMES FIBER COMMUNICATIONS, INC.						
1,1,1-TRICHLOROETHANE	134540	0	0	0	0	134540
** Subtotal **	134540	0	0	0	0	134540
** COMPANY: UNION CAMP CORP.						
SODIUM HYDROXIDE (SOLUTION)	0	0	0	0	0	0

APPENDIX I (continued)

SARA TITLE III SECTION 313 TOXIC CHEMICAL INVENTORY
RELEASE SUMMARY FOR 1988

CHEMICAL REPORTED	TOTAL AIR	WATER	ON-SITE LAND	POTW	OTHER OFF-SITE	TOTAL RELEASES
** Subtotal **	0	0	0	0	0	0
** COMPANY: UNION CAMP CORP. - BUILDING PRODUCTS DIVISION						
FORMALDEHYDE	6600	0	0	0	0	6600
** Subtotal **	6600	0	0	0	0	6600
** COMPANY: UNION CAMP CORP. - FINE PAPER DIVISION						
ACETONE	6465	210	0	0	8	6683
AMMONIA	27270	340000	0	0	0	367270
CATECHOL	0	4000	0	0	150	4150
CHLORINE	151000	0	0	0	0	151000
CHLORINE DIOXIDE	86110	0	0	0	0	86110
CHLOROFORM	350000	2400	0	0	0	352400
HYDROCHLORIC ACID	180000	0	0	0	0	180000
METHANOL	136000	0	0	0	690	136690
SODIUM HYDROXIDE (SOLUTION)	0	0	0	0	0	0
SULFURIC ACID	59000	0	0	0	0	59000
** Subtotal **	995845	346610	0	0	848	1343303
** COMPANY: UNION CAMP CORP. - RICHMOND BAG						
SODIUM HYDROXIDE (SOLUTION)	0	0	0	0	0	0
** Subtotal **	0	0	0	0	0	0
** COMPANY: UNITED STATES GYPSUM COMPANY						
HYDROCHLORIC ACID	0	0	0	0	0	0
ETHYLENE GLYCOL	0	0	0	0	0	0
AMMONIA	0	0	0	0	0	0
** Subtotal **	0	0	0	0	0	0
** COMPANY: UNITED STATES PRINTING INK CORPORATION						
BARIUM COMPOUNDS	0	0	0	0	0	0
COPPER COMPOUNDS	0	0	0	0	0	0
** Subtotal **	0	0	0	0	0	0
** COMPANY: UPACO ADHESIVES - RICHMOND PLANT						
DICHLOROMETHANE	500	0	0	0	0	500
TOLUENE	1000	0	0	0	0	1000
ACETONE	8250	0	0	0	0	8250
METHYL ETHYL KETONE	1950	0	0	0	0	1950
** Subtotal **	11700	0	0	0	0	11700
** COMPANY: VALLEY TIMBER SALES, INC.						
ARSENIC COMPOUNDS	250	0	0	0	750	1000
CHROMIUM COMPOUNDS	250	0	0	0	750	1000
COPPER COMPOUNDS	250	0	0	0	750	1000
** Subtotal **	750	0	0	0	2250	3000
** COMPANY: VALLEYDALE PACKERS, INC.						
SODIUM HYDROXIDE (SOLUTION)	0	0	0	51000	0	51000
PHOSPHORIC ACID	0	0	0	11000	0	11000
SODIUM HYDROXIDE (SOLUTION)	0	0	0	20000	0	20000
** Subtotal **	0	0	0	82000	0	82000
** COMPANY: VAUGHAN-BASSETT FURNITURE CO.						
TOLUENE	130686	0	0	0	0	130686
METHANOL	68487	0	0	0	0	68487
** Subtotal **	199173	0	0	0	0	199173
** COMPANY: VENETIAN MARBLE INCORPORATED						
STYRENE	6784	0	0	0	0	6784
DICHLOROMETHANE	33600	0	0	0	0	33600

APPENDIX I (continued)

SARA TITLE III SECTION 313 TOXIC CHEMICAL INVENTORY
RELEASE SUMMARY FOR 1988

CHEMICAL REPORTED	TOTAL AIR	WATER	ON-SITE LAND	POTW	OTHER OFF-SITE	TOTAL RELEASES
** Subtotal **	40384	0	0	0	0	40384
** COMPANY: VFP, INC.						
STYRENE	250	0	0	0	144	394
ACETONE	250	0	0	0	7524	7774
** Subtotal **	500	0	0	0	7668	8168
** COMPANY: VI-TEX PACKAGING, INC.						
1,1,1-TRICHLOROETHANE	4919	0	0	0	250	5169
TOLUENE	9968	0	0	0	250	10218
** Subtotal **	14887	0	0	0	500	15387
** COMPANY: VICTOR INDUSTRIES						
ACETONE	26303	0	0	0	0	26303
TRICHLOROETHYLENE	18145	0	0	0	3361	21506
** Subtotal **	44448	0	0	0	3361	47809
** COMPANY: VIRGINIA FIBRE CORPORATION						
SODIUM HYDROXIDE (SOLUTION)	0	0	0	0	53878	53878
SULFURIC ACID	0	0	0	0	34678	34678
HYDROCHLORIC ACID	0	0	0	0	10113	10113
PHOSPHORIC ACID	0	0	0	0	262188	262188
** Subtotal **	0	0	0	0	360857	360857
** COMPANY: VIRGINIA GALVANIZING CORPORATION						
ZINC COMPOUNDS	12220	0	0	0	0	12220
HYDROCHLORIC ACID	51504	0	0	0	0	51504
** Subtotal **	63724	0	0	0	0	63724
** COMPANY: VIRGINIA HOUSE FURNITURE CORP. - PLANT 1						
TOLUENE	66088	0	0	0	0	66088
METHANOL	69004	0	0	0	0	69004
METHYL ETHYL KETONE	50005	0	0	0	0	50005
ACETONE	14077	0	0	0	0	14077
XYLENE (MIXED ISOMERS)	82022	0	0	0	0	82022
** Subtotal **	281196	0	0	0	0	281196
** COMPANY: VIRGINIA HOUSE FURNITURE CORP. - PLANT 2						
TOLUENE	40028	0	0	0	0	40028
N-BUTYL ALCOHOL	11000	0	0	0	0	11000
METHANOL	22000	0	0	0	0	22000
METHYL ETHYL KETONE	45002	0	0	0	0	45002
XYLENE (MIXED ISOMERS)	33000	0	0	0	0	33000
** Subtotal **	151030	0	0	0	0	151030
** COMPANY: VIRGINIA MARBLE MANUFACTURERS, INC.						
STYRENE	14985	0	0	0	0	14985
ACETONE	153836	0	0	0	0	153836
** Subtotal **	168821	0	0	0	0	168821
** COMPANY: VIRGINIA MIRROR CO., INC.						
XYLENE (MIXED ISOMERS)	45236	0	0	0	0	45236
** Subtotal **	45236	0	0	0	0	45236
** COMPANY: VIRGINIA SOLITE COMPANY						
ACETONE	169	0	0	0	0	169
METHYL ETHYL KETONE	230	0	0	0	0	230
METHYL ISOBUTYL KETONE	147	0	0	0	0	147
TOLUENE	281	0	0	0	0	281
XYLENE (MIXED ISOMERS)	243	0	0	0	0	243
METHANOL	105	0	0	0	0	105
CYCLOHEXANE	25	0	0	0	0	25

APPENDIX I (continued)

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RELEASE SUMMARY FOR 1988

CHEMICAL REPORTED	TOTAL AIR	WATER	ON-SITE LAND	POTW	OTHER OFF-SITE	TOTAL RELEASES
** Subtotal **	1200	0	0	0	0	1200
** COMPANY: VIRGINIA TRANSFORMER CORPORATION						
TOLUENE	0	0	0	0	13214	13214
XYLENE (MIXED ISOMERS)	0	0	0	0	13214	13214
** Subtotal **	0	0	0	0	26428	26428
** COMPANY: VIRGINIA WOOD PRESERVING						
CHROMIUM COMPOUNDS	250	0	0	0	750	1000
** Subtotal **	250	0	0	0	750	1000
** COMPANY: VIRGINIAN METAL PRODUCTS COMPANY, INC.						
MANGANESE	250	0	0	0	0	250
ALUMINUM (FUME OR DUST)	250	0	0	0	0	250
** Subtotal **	500	0	0	0	0	500
** COMPANY: VOLVO GM HEAVY TRUCK CORPORATION						
ETHYLENE GLYCOL	0	0	0	250	0	250
1,1,1-TRICHLOROETHANE	13000	0	0	0	0	13000
ACETONE	160000	0	0	0	0	160000
METHANOL	40000	0	0	0	0	40000
TOLUENE	190000	0	0	0	0	190000
XYLENE (MIXED ISOMERS)	190000	0	0	0	0	190000
ETHYLBENZENE	25000	0	0	0	0	25000
METHYL ETHYL KETONE	96000	0	0	0	0	96000
** Subtotal **	714000	0	0	250	0	714250
** COMPANY: WABASH MAGNETICS						
DICHLOROMETHANE	20000	0	0	0	2600	22600
XYLENE (MIXED ISOMERS)	11000	0	0	0	1300	12300
** Subtotal **	31000	0	0	0	3900	34900
** COMPANY: WAHOO BOATS UNLIMITED						
ACETONE	26340	0	0	0	0	26340
STYRENE	30382	0	0	0	162	30544
** Subtotal **	56722	0	0	0	162	56884
** COMPANY: WAMPLER FOODS, INC. - FEED MILL						
ZINC (FUME OR DUST)	0	0	0	0	0	0
** Subtotal **	0	0	0	0	0	0
** COMPANY: WAMPLER FOODS, INC. - PROCESSING PLANT						
AMMONIA	14500	0	0	0	0	14500
SODIUM HYDROXIDE (SOLUTION)	0	0	0	0	0	0
SULFURIC ACID	0	0	0	0	0	0
** Subtotal **	14500	0	0	0	0	14500
** COMPANY: WAYN-TEX INC.						
1,1,1-TRICHLOROETHANE	120000	0	0	0	12799	132799
** Subtotal **	120000	0	0	0	12799	132799
** COMPANY: WAYTEC ELECTRONICS CORPORATION						
DICHLOROMETHANE	0	0	0	0	4196	4196
NITRIC ACID	3066	0	0	4198	11772	19036
SULFURIC ACID	18046	0	0	88195	0	106241
FORMALDEHYDE	409	0	0	23351	0	23760
SODIUM HYDROXIDE (SOLUTION)	0	0	0	178800	0	178800
NICKEL	0	0	0	70	0	70
COPPER COMPOUNDS	0	0	0	5494	5492	10986
LEAD COMPOUNDS	0	0	0	1005	255	1260

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CHEMICAL REPORTED	TOTAL AIR	WATER	ON-SITE LAND	POTW	OTHER OFF-SITE	TOTAL RELEASES
** Subtotal **	21521	0	0	301113	21715	344349
** COMPANY: WEBB FURNITURE ENTERPRISES, INC. - PARTICLE BD PLT						
FORMALDEHYDE	1500	0	0	0	0	1500
AMMONIUM SULFATE (SOLUTION)	0	0	0	0	0	0
** Subtotal **	1500	0	0	0	0	1500
** COMPANY: WEBB FURNITURE ENTERPRISES, INC. - PLANT 1						
METHANOL	45000	0	0	0	0	45000
ACETONE	14700	0	0	0	0	14700
N-BUTYL ALCOHOL	14500	0	0	0	0	14500
TOLUENE	134000	0	0	0	0	134000
XYLENE (MIXED ISOMERS)	30700	0	0	0	0	30700
** Subtotal **	238900	0	0	0	0	238900
** COMPANY: WEBB FURNITURE ENTERPRISES, INC. - PLANT 2						
METHANOL	10000	0	0	0	0	10000
ACETONE	33500	0	0	0	0	33500
METHYL ETHYL KETONE	21400	0	0	0	0	21400
TOLUENE	87000	0	0	0	0	87000
XYLENE (MIXED ISOMERS)	17300	0	0	0	0	17300
** Subtotal **	169200	0	0	0	0	169200
** COMPANY: WEN-DON CORPORATION						
AMMONIUM SULFATE (SOLUTION)	250	0	0	403	0	653
ETHYLENE GLYCOL	250	0	0	1090	0	1340
SODIUM HYDROXIDE (SOLUTION)	250	0	0	7	0	257
GLYCOL ETHERS	250	0	0	24	0	274
** Subtotal **	1000	0	0	1524	0	2524
** COMPANY: WEST POINT PEPPERELL - BOND COTE PLANT						
TOLUENE	11050	0	0	0	500	11550
BARIUM COMPOUNDS	0	0	0	0	10500	10500
N-DIOCTYL PHTHALATE	250	0	0	0	19105	19355
ALUMINUM OXIDE	0	0	0	0	7600	7600
GLYCOL ETHERS	12650	0	0	0	500	13150
ANTIMONY COMPOUNDS	0	0	0	0	10260	10260
LEAD COMPOUNDS	0	0	0	0	16100	16100
TOLUENE	11050	0	0	0	500	11550
** Subtotal **	35000	0	0	0	65265	100265
** COMPANY: WEST POINT PEPPERELL - KEYSVILLE PLANT						
AMMONIA	29000	3200	0	0	0	32200
** Subtotal **	29000	3200	0	0	0	32200
** COMPANY: WESTINGHOUSE ELECTRIC CORP.						
1,1,1-TRICHLOROETHANE	20000	0	0	0	9600	29600
XYLENE (MIXED ISOMERS)	19000	0	0	0	17000	36000
COPPER	250	0	0	250	0	500
SODIUM HYDROXIDE (SOLUTION)	0	0	0	0	0	0
TETRACHLOROETHYLENE	2400	0	0	0	12000	14400
** Subtotal **	41650	0	0	250	38600	80500
** COMPANY: WESTINGHOUSE ELECTRIC CORP. - EMD						
XYLENE (MIXED ISOMERS)	6350	0	0	0	3900	10250
CRESOL (MIXED ISOMERS)	7050	0	0	0	15000	22050
PHENOL	12250	0	0	0	21000	33250
COPPER	250	0	0	0	0	250
** Subtotal **	25900	0	0	0	39900	65800
** COMPANY: WESTOVER DAIRY						
SODIUM HYDROXIDE (SOLUTION)	0	0	0	44017	0	44017
PHOSPHORIC ACID	0	0	0	49691	0	49691

APPENDIX I (continued)

SARA TITLE III SECTION 313 TOXIC CHEMICAL INVENTORY
RELEASE SUMMARY FOR 1988

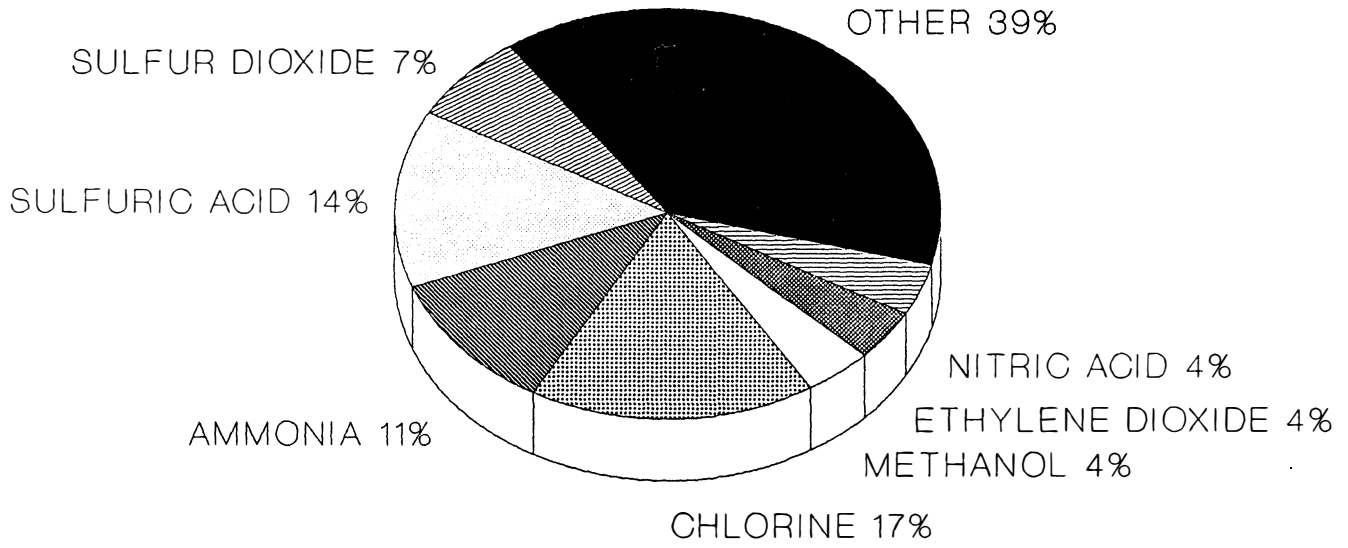
CHEMICAL REPORTED	TOTAL AIR	WATER	ON-SITE LAND	POTW	OTHER OFF-SITE	TOTAL RELEASES
** Subtotal **	0	0	0	93708	0	93708
** COMPANY: WESTVACO - BLEACHED BOARD DIVISION						
ACETONE	212750	2700	5500	0	0	220950
AMMONIA	74250	52000	0	0	0	126250
CATECHOL	500	250	750	0	0	1500
CHLORINE	670250	0	0	0	0	670250
CHLORINE DIOXIDE	69250	0	0	0	0	69250
CHLOROFORM	1221000	2600	690	0	0	1224290
HYDROCHLORIC ACID	1400250	0	0	0	0	1400250
METHANOL	8762000	0	630000	0	0	9392000
PHOSPHORIC ACID	500	0	0	0	0	500
SODIUM HYDROXIDE (SOLUTION)	16000	0	11000	0	0	27000
SULFURIC ACID	230250	0	0	0	0	230250
** Subtotal **	12657000	57550	647940	0	0	13362490
** COMPANY: WESTVACO - CHEMICAL DIVISION						
HYDROCHLORIC ACID	47	0	0	0	960000	960047
METHANOL	6100000	0	0	0	12000	6112000
PHOSPHORIC ACID	193600	0	0	0	160000	353600
SODIUM HYDROXIDE (SOLUTION)	0	0	0	0	0	0
** Subtotal **	6293647	0	0	0	1132000	7425647
** COMPANY: WESTVACO - MILK CARTON DIVISION						
TOLUENE	11000	0	0	0	960	11960
METHANOL	17000	0	0	0	960	17960
** Subtotal **	28000	0	0	0	1920	29920
** COMPANY: WESTVACO - VIRGINIA FOLDING BOX COFER ROAD PLANT						
TOLUENE	336000	0	0	250	0	336250
1,1,1-TRICHLOROETHANE	15000	0	0	0	0	15000
METHYL ETHYL KETONE	80200	0	0	250	0	80450
SODIUM HYDROXIDE (SOLUTION)	0	0	0	250	0	250
** Subtotal **	431200	0	0	750	0	431950
** COMPANY: WESTVACO - VIRGINIA FOLDING BOX PLANT II						
SODIUM HYDROXIDE (SOLUTION)	0	0	0	250	0	250
SULFURIC ACID	0	0	0	0	0	0
TOLUENE	252000	0	0	250	0	252250
METHYL ETHYL KETONE	181900	0	0	250	0	182150
** Subtotal **	433900	0	0	750	0	434650
** COMPANY: WEYERHAEUSER COMPANY						
METHANOL	46400	0	0	0	0	46400
** Subtotal **	46400	0	0	0	0	46400
** COMPANY: WOLVERINE GASKET & MANUFACTURING COMPANY						
METHYL ETHYL KETONE	5700	0	0	0	19600	25300
METHYL ISOBUTYL KETONE	360	0	0	0	5270	5630
TOLUENE	21900	0	0	0	7050	28950
** Subtotal **	27960	0	0	0	31920	59880
** COMPANY: WOOD FIBER INDUSTRIES						
AMMONIA	0	250	0	0	0	250
SODIUM HYDROXIDE (SOLUTION)	0	0	0	0	0	0
PHOSPHORIC ACID	0	0	0	0	0	0
TETRACHLOROETHYLENE	7400	0	0	0	0	7400
** Subtotal **	7400	250	0	0	0	7650
** COMPANY: WOOD PRESERVERS, INC.						
NAPHTHALENE	2807	0	0	0	250	3057
ANTHRACENE	301	0	0	0	250	551
DIBENZOFURAN	268	0	0	0	250	518

APPENDIX I (continued)

SARA TITLE III SECTION 313 TOXIC CHEMICAL INVENTORY
RELEASE SUMMARY FOR 1988

CHEMICAL REPORTED	TOTAL AIR	WATER	ON-SITE LAND	POTW	OTHER OFF-SITE	TOTAL RELEASES
COPPER COMPOUNDS	0	0	0	0	162	162
ARSENIC COMPOUNDS	0	0	0	0	750	750
CHROMIUM COMPOUNDS	0	0	0	0	360	360
** Subtotal **	3376	0	0	0	2022	5398
** COMPANY: ZAPATA HAYNIE CORPORATION						
SULFURIC ACID	0	0	0	0	0	0
AMMONIA	0	0	0	0	0	0
ETHYLENE GLYCOL	0	0	0	0	0	0
SODIUM HYDROXIDE (SOLUTION)	0	0	0	0	0	0
** Subtotal **	0	0	0	0	0	0
*** Total ***	123837982	19829209	5782281	40216872	30589319	220255673

SARA SECTION 304 RELEASES BY CHEMICAL



1987-1989

SARA TITLE III SECTION 304 RELEASE NOTIFICATIONS BY CHEMICAL
1987-1989

DATE OF RELEASE	COMPANY	LOCATION	AMOUNT	UNITS	MEDIUM	SUBJECT TO REPORTING?
** CHEMICAL = ACID PICKLING SOLUTION						
03/25/88	GALA INDUSTRIES	BOTETOURT	0	GAL	UNKNOWN	N
** CHEMICAL = ACRYLIC RESIN ACRYLOID						
07/26/88	SEAGUARD	PORTSMOUTH	55	GAL	GROUND	N
** CHEMICAL = ACRYLONITRILE						
12/06/87	DU PONT WAYNESBORO PLANT	WAYNESBORO	100	LBS	ON SITE TREAT/AIR	N
** CHEMICAL = AMMONIA						
06/08/88	ALLIED FIBERS	HOPEWELL	1725	LBS	AIR	Y
01/08/89	NORFOLK SOUTHERN RAILWAY	RAILROAD MILE POST 138.6	0	UNK	AIR	N
03/01/89	NORFOLK SOUTHERN RAILWAY	NORFOLK - POTLOCK YARD	0	UNK	AIR	N
04/04/89	ROCKINGHAM POULTRY	ALMA PLANT	200	LBS	AIR	Y
04/19/89	ALLIED FIBERS	HOPEWELL	12000	LBS	AIR	Y
04/28/89	GEORGES FORK	CLINTWOOD	0	UNK	WATER	N
05/08/89	IND DRIVE COMPANY	RADFORD	0	UNK	AIR	N
07/30/89	HOECHST CELANESE	PORTSMOUTH	96	LBS	AIR	N
08/21/89	HOLLY FARMS FOODS, INC.	GLEN ALLEN	4000	LBS	AIR	Y
09/05/89	ALLIED SIGNAL	HOPEWELL	3400	LBS	AIR	Y
09/29/89	ROCKINGHAM POULTRY	BROADWAY	100	LBS	AIR	Y
** CHEMICAL = ANHYDROUS AMMONIA						
01/04/89	VALLEYDALE MEAT PRODUCTS	BRISTOL	10	GAL	GROUND	Y
04/17/89	CARBONIC INDUSTRIES CORPORATION	RICHMOND	1000	LBS	AIR	Y
** CHEMICAL = ASBESTOS						
09/27/88	VIRGINIA POWER	SURRY	40	GAL	UNKNOWN DISPOSAL	N
** CHEMICAL = CHLORINE						
11/22/87	UNION CAMP FINE PAPER DIVISION	FRANKLIN	50	LBS	AIR	Y
03/16/88	UNION CAMP FINE PAPER DIVISION	FRANKLIN	200	LBS	AIR	Y
05/22/88	UNION CAMP FINE PAPER DIVISION	FRANKLIN	35	LBS	AIR	Y
05/23/88	UNION CAMP FINE PAPER DIVISION	FRANKLIN	52	LBS	AIR	Y
06/08/88	UNION CAMP FINE PAPER DIVISION	FRANKLIN	300	LBS	AIR	Y
07/22/88	JONES CHEMICAL	MILFORD	20	LBS	AIR	Y
08/26/88	UNION CAMP FINE PAPER DIVISION	FRANKLIN	150	LBS	AIR	Y
09/28/88	WESTVACO	COVINGTON	100	LBS	AIR	Y
11/15/88	UNION CAMP FINE PAPER DIVISION	FRANKLIN	55	LBS	AIR	Y

SARA TITLE III SECTION 304 RELEASE NOTIFICATIONS BY CHEMICAL
1987-1989

DATE OF RELEASE	COMPANY	LOCATION	AMOUNT	UNITS	MEDIUM	SUBJECT TO REPORTING?
04/19/89	NO INFO	8403 GLAZEBROOK DR, HENRICO	1232	LBS	AIR	N
05/05/89	HANGER-WASHINGTON NATIONAL AIRPORT	ARLINGTON	150	LBS	AIR	N
05/19/89	UNKNOWN	RICHMOND	0	UNK	AIR	N
06/28/89	RICHMOND SEWER TREATMENT PLANT	2ND AND MAURY ST, RAILCAR	0	UNK	AIR	N
08/24/89	ALEXANDRIA SANITATION AUTHORITY	ALEXANDRIA	1425	LBS	AIR	Y
10/12/89	BOOSTER PUMPING STATION	CLAYPOOL	9	LBS	AIR	N
11/03/89	UNKNOWN	FAIRFAX	0	UNK	UNK	N
12/29/89	VINT HILL FARM STATION	FAUQUIER COUNTY	10	LBS	AIR	Y
** CHEMICAL = CHROMATED COPPER ARSENATE						
02/05/89	VIRGINIA WOOD PRESERVING	RICHMOND	100	GAL	FLOOR	N
** CHEMICAL = CHROMIC ACID						
04/10/89	NORFOLK SHIPBUILDING DRYDOCK CORP	NORFOLK	50	GAL	GROUND	N
** CHEMICAL = DIBUTYL PHTHALATE						
10/19/88	HERCULES AEROSPACE COMPANY	RADFORD	786	LBS	GROUND/WATER	Y
** CHEMICAL = DIESEL FUEL						
02/08/89	WARREN TRANSPORTATION	CAPRON	300	GAL	GROUND	N
09/28/89	NCI-PROGRESSIVE (INSUREE)	SUFFOLK	0	UNK	GROUND	N
** CHEMICAL = DIETHYL ETHER, DPB						
10/19/88	HERCULES AEROSPACE COMPANY	RADFORD	5381	LBS	GROUND/WATER/AIR	Y
** CHEMICAL = DIMETHYL SULFIDE						
08/17/89	SHENANDOAH GAS	WINCHESTER	16	LBS	GROUND/AIR	Y
** CHEMICAL = ETHYL CHLORIDE						
07/26/89	AQUALON COMPANY	HOPEWELL	103	LBS	INDUSTRIAL SEWER/AIR	N
** CHEMICAL = ETHYL ETHER						
01/22/89	HERCULES AEROSPACE COMPANY	RADFORD	150	LBS	GROUND/AIR	Y
** CHEMICAL = ETHYLENE OXIDE						
02/01/89	AQUALON COMPANY	HOPEWELL	50	LBS	AIR	Y
02/15/89	AQUALON COMPANY	HOPEWELL	50	LBS	AIR	Y
04/04/89	AQUALON COMPANY	HOPEWELL	131	LBS	AIR	Y
05/21/89	AQUALON COMPANY	HOPEWELL	750	LBS	AIR	Y
** CHEMICAL = FREON 11						
08/20/88	DU PONT SPRUANCE PLANT	RICHMOND	7000	LBS	AIR	Y

SARA TITLE III SECTION 304 RELEASE NOTIFICATIONS BY CHEMICAL
1987-1989

DATE OF RELEASE	COMPANY	LOCATION	AMOUNT	UNITS	MEDIUM	SUBJECT TO REPORTING?
** CHEMICAL = GASOLINE						
08/15/89	QUARLES PETROLEUM	GROTTOES	1100	GAL	POTW	N
** CHEMICAL = GREEN LIQUOR-HYDROGEN SULFIDE						
05/04/88	WESTVACO BLEACHED BOARD DIVISION	COVINGTON	285000	GAL	ONSITE TREATMENT	Y
** CHEMICAL = HYDROCHLORIC ACID						
09/01/89	UNKNOWN	213 BALLARD ST, YORKTOWN	0	UNK	UNKNOWN	N
** CHEMICAL = HYDROGEN PEROXIDE						
02/11/89	MILLER TRANSPORTERS INCORPORATED	I-81 WASHINGTON COUNTY	0	UNK	GROUND	N
** CHEMICAL = HYDROGEN SULFIDE						
05/18/89	AMOCO OIL CO - YORKTOWN REFINERY	YORKTOWN	931	LBS	AIR	Y
07/18/89	AMOCO OIL COMPANY	YORKTOWN	490	LBS	AIR	Y
** CHEMICAL = LIQUID AMMONIA						
12/16/89	SMITHFIELD PACKING	NORFOLK - INDIAN RIVER ROAD	400	LBS	AIR	Y
** CHEMICAL = METHANOL						
06/04/88	JAMES RIVER CORP - FILTRATION DIV	RICHMOND	14096	LBS	AIR/SOIL	Y
08/02/89	JAMES RIVER CORP - FILTRATION DIV	RICHMOND	25042	LBS	GROUND/AIR	Y
08/17/89	AQUALON COMPANY	HOPEWELL	12617	LBS	AIR	Y
08/18/89	AQUALON COMPANY	HOPEWELL	493	LBS	AIR	N
** CHEMICAL = NITRIC ACID						
01/25/89	GENICOM CORPORATION	WAYNESBORO	300	LBS	GROUND	N
04/13/89	HERCULES AEROSPACE COMPANY	RADFORD	500	LBS	GROUND	N
08/20/89	BABCOCK & WILCOX	LYNCHBURG	2900	LBS	GROUND	N
09/02/89	AQUALON COMPANY	HOPEWELL	2820	LBS	INDUSTRIAL SEWER/AIR	N
** CHEMICAL = PARAQUAT						
06/12/89	SOUTHERN STATES PR WM/FAUQUIER	FAUQUIER COUNTY	15	QTS	GROUND	N
** CHEMICAL = PCB OIL						
03/29/88	WESTVACO	COVINGTON	1	LB	GROUND	N
** CHEMICAL = PERCHLOROETHYLENE						
12/18/87	DU PONT SPRUANCE PLANT	RICHMOND	10	GAL	GROUND/SEWER	N
09/02/88	DU PONT SPRUANCE PLANT	RICHMOND	15	GAL	ASPHALT	N
** CHEMICAL = PHENOL - FORMALDEHYDE						
11/30/88	JAMES RIVER CORP - FILTRATION DIV	RICHMOND	1840	GAL	GROUND/AIR	Y

SARA TITLE III SECTION 304 RELEASE NOTIFICATIONS BY CHEMICAL
1987-1989

DATE OF RELEASE	COMPANY	LOCATION	AMOUNT	UNITS	MEDIUM	SUBJECT TO REPORTING?
** CHEMICAL = POTASSIUM PERMANGANATE						
08/12/89	TILLEY CHEMICAL COMPANY	FAIRFAX	19250	LBS	AIR/GROUND	N
** CHEMICAL = PROPYLENE OXIDE						
05/08/89	AQUALON COMPANY	HOPEWELL	140	LBS	AIR	Y
** CHEMICAL = RESIN						
07/25/89	JAMES RIVER CORP - FILTRATION DIV	RICHMOND	150	GAL	WATER/GROUND	N
** CHEMICAL = SODIUM CYANIDE						
05/12/89	VICTORY BOULEVARD	PORTSMOUTH	0	UNK	GROUND	N
** CHEMICAL = SULFUR DIOXIDE						
08/07/87	DU PONT WAYNESBORO PLANT	WAYNESBORO	10	LBS	AIR	Y
12/10/87	DU PONT WAYNESBORO PLANT	WAYNESBORO	5	LBS	AIR	Y
12/28/88	BEAR ISLAND PAPER COMPANY	ASHLAND	40900	LBS	AIR	Y
02/06/89	HOECHST CELANESE/AT BEAR ISLAND	ASHLAND	600	LBS	AIR	Y
05/01/89	DU PONT DE NEMOURS	WAYNESBORO	10	LBS	AIR	Y
05/16/89	JONES CHEMICAL	MILFORD	6	LBS	AIR	Y
10/02/89	JONES CHEMICAL	MILFORD	2	LBS	AIR/GROUND	Y
** CHEMICAL = SULFURIC ACID						
04/04/88	HERCULES AEROSPACE COMPANY	RADFORD	38300	LBS	GROUND/WATER	Y
07/19/88	DU PONT SPRUANCE PLANT	RICHMOND	4647	LBS	GROUND	N
08/02/88	DU PONT SPRUANCE PLANT	RICHMOND	74358	LBS	ONSITE TREATMENT	N
08/20/88	VIRGINIA POWER	YORKTOWN	57450	LBS	ONSITE TREATMENT	N
04/13/89	HERCULES AEROSPACE COMPANY	RADFORD	500	LBS	GROUND	N
04/14/89	COMMONWEALTH SCIENCE	500 PENDLETON ST	0	UNK	GROUND	N
05/14/89	VA FIBER CORPORATION	AMHERST	30640	LBS	GROUND	N
06/19/89	DOD TANKER	SUFFOLK	0	UNK	UNKNOWN	N
09/26/89	HERCULES AEROSPACE COMPANY	RADFORD	6000	LBS	GROUND	N
09/30/89	PETRO STATION	CARMEL CHURCH	0	UNK	UNKNOWN	N
10/03/89	AQUALON COMPANY	HOPEWELL	12393	LBS	INDUSTRIAL SEWER	N
10/05/89	STEPHEN CITY SCALES	FREDERICK COUNTY, I81 SOUTH	77	LBS	GROUND	N
10/25/89	ALLIED SIGNAL	HOPEWELL, ROUTE 10	153200	LBS	WATER	Y
10/29/89	OLD VIRGINIA CHEMICAL PLANT	PORTSMOUTH	0	UNK	UNKNOWN	N

SARA TITLE III SECTION 304 RELEASE NOTIFICATIONS BY CHEMICAL
1987-1989

DATE OF RELEASE	COMPANY	LOCATION	AMOUNT	UNITS	MEDIUM	SUBJECT TO REPORTING?
** CHEMICAL = TAINTED WATER						
02/02/89	CHEMTREAT, INC	ASHLAND	5	GAL	FLOOR	N
** CHEMICAL = TETRACHLOROETHYLENE						
10/05/89	BASF CORPORATION	WILLIAMSBURG	170	LBS	AIR	N
** CHEMICAL = TETRAHYDROFURAN						
08/18/89	DU PONT SPRUANCE PLANT	RICHMOND	7000	LBS	AIR	Y
** CHEMICAL = TOLUENE						
08/18/89	DU PONT SPRUANCE PLANT	RICHMOND	3400	LBS	AIR	Y
** CHEMICAL = TOP LACQUER(TOLUENE)						
09/08/87	WESTVACO FOLDING BOX DIVISION	RICHMOND	0	UNK	GROUND	N
** CHEMICAL = TREATING SOLUTION						
09/14/88	COMMONWEALTH WOOD PRESERVERS, INC	HAMPTON	75	GAL	GRAVEL	N
** CHEMICAL = TRICHLOROFLUOROMETHANE (FREON 11)						
03/19/88	DU PONT SPRUANCE PLANT	RICHMOND	7520	LBS	AIR	Y

APPENDIX K

SARA TITLE III SECTION 304 RELEASE NOTIFICATIONS
1987-1989

DATE OF RELEASE	CHEMICAL	LOCATION	AMOUNT	UNITS	MEDIUM	SUBJECT TO REPORTING?
11/15/88	CHLORINE	FRANKLIN	55	LBS	AIR	Y
05/22/88	CHLORINE	FRANKLIN	35	LBS	AIR	Y
11/22/87	CHLORINE	FRANKLIN	50	LBS	AIR	Y
08/26/88	CHLORINE	FRANKLIN	150	LBS	AIR	Y
03/16/88	CHLORINE	FRANKLIN	200	LBS	AIR	Y
06/08/88	CHLORINE	FRANKLIN	300	LBS	AIR	Y
06/08/88	AMMONIA	HOPEWELL	1725	LBS	AIR	Y
05/04/88	GREEN LIQUOR-HYDROGEN SULFIDE	COVINGTON	285000	GAL	ONSITE TREATMENT	Y
04/04/88	SULFURIC ACID	RADFORD	38300	LBS	GROUND/WATER	Y
03/19/88	TRICHLOROFLUOROMETHANE (FREON 11)	RICHMOND	7520	LBS	AIR	Y
08/02/88	SULFURIC ACID	RICHMOND	74358	LBS	ONSITE TREATMENT	N
06/04/88	METHANOL	RICHMOND	14096	LBS	AIR/SOIL	Y
08/20/88	FREON 11	RICHMOND	7000	LBS	AIR	Y
09/02/88	PERCHLOROETHYLENE	RICHMOND	15	GAL	ASPHALT	N
09/28/88	CHLORINE	COVINGTON	100	LBS	AIR	Y
12/10/87	SULFUR DIOXIDE	WAYNESBORO	5	LBS	AIR	Y
12/06/87	ACRYLONITRILE	WAYNESBORO	100	LBS	ON SITE TREAT/AIR	N
09/08/87	TOP LACQUER(TOLUENE)	RICHMOND	0	UNK	GROUND	N
12/18/87	PERCHLOROETHYLENE	RICHMOND	10	GAL	GROUND/SEWER	N
07/22/88	CHLORINE	MILFORD	20	LBS	AIR	Y
07/26/88	ACRYLIC RESIN ACRYLOID	PORTSMOUTH	55	GAL	GROUND	N
07/19/88	SULFURIC ACID	RICHMOND	4647	LBS	GROUND	N
03/25/88	ACID PICKLING SOLUTION	BOTETOURT	0	GAL	UNKNOWN	N
10/19/88	DIETHYL ETHER, DPB	RADFORD	5381	LBS	GROUND/WATER/AIR	Y
12/28/88	SULFUR DIOXIDE	ASHLAND	40900	LBS	AIR	Y
01/04/89	ANHYDROUS AMMONIA	BRISTOL	10	GAL	GROUND	Y
08/07/87	SULFUR DIOXIDE	WAYNESBORO	10	LBS	AIR	Y
11/30/88	PHENOL - FORMALDEHYDE	RICHMOND	1840	GAL	GROUND/AIR	Y
01/22/89	ETHYL ETHER	RADFORD	150	LBS	GROUND/AIR	Y
02/01/89	ETHYLENE OXIDE	HOPEWELL	50	LBS	AIR	Y
02/06/89	SULFUR DIOXIDE	ASHLAND	600	LBS	AIR	Y
02/15/89	ETHYLENE OXIDE	HOPEWELL	50	LBS	AIR	Y

SARA TITLE III SECTION 304 RELEASE NOTIFICATIONS
1987-1989

DATE OF RELEASE	CHEMICAL	LOCATION	AMOUNT	UNITS	MEDIUM	SUBJECT TO REPORTING?
04/04/89	ETHYLENE OXIDE	HOPEWELL	131	LBS	AIR	Y
04/13/89	SULFURIC ACID	RADFORD	500	LBS	GROUND	N
04/13/89	NITRIC ACID	RADFORD	500	LBS	GROUND	N
04/17/89	ANHYDROUS AMMONIA	RICHMOND	1000	LBS	AIR	Y
04/19/89	AMMONIA	HOPEWELL	12000	LBS	AIR	Y
05/01/89	SULFUR DIOXIDE	WAYNESBORO	10	LBS	AIR	Y
05/08/89	PROPYLENE OXIDE	HOPEWELL	140	LBS	AIR	Y
05/16/89	SULFUR DIOXIDE	MILFORD	6	LBS	AIR	Y
05/21/89	ETHYLENE OXIDE	HOPEWELL	750	LBS	AIR	Y
05/18/89	HYDROGEN SULFIDE	YORKTOWN	931	LBS	AIR	Y
06/12/89	PARAQUAT	FAUQUIER COUNTY	15	QTS	GROUND	N
07/18/89	HYDROGEN SULFIDE	YORKTOWN	490	LBS	AIR	Y
07/26/89	ETHYL CHLORIDE	HOPEWELL	103	LBS	INDUSTRIAL SEWER/AIR	N
08/18/89	TETRAHYDROFURAN	RICHMOND	7000	LBS	AIR	Y
08/18/89	METHANOL	HOPEWELL	493	LBS	AIR	N
08/17/89	METHANOL	HOPEWELL	12617	LBS	AIR	Y
08/21/89	AMMONIA	GLEN ALLEN	4000	LBS	AIR	Y
08/24/89	CHLORINE	ALEXANDRIA	1425	LBS	AIR	Y
08/20/89	NITRIC ACID	LYNCHBURG	2900	LBS	GROUND	N
09/02/89	NITRIC ACID	HOPEWELL	2820	LBS	INDUSTRIAL SEWER/AIR	N
08/17/89	DIMETHYL SULFIDE	WINCHESTER	16	LBS	GROUND/AIR	Y
07/30/89	AMMONIA	PORTSMOUTH	96	LBS	AIR	N
10/02/89	SULFUR DIOXIDE	MILFORD	2	LBS	AIR/GROUND	Y
09/26/89	SULFURIC ACID	RADFORD	6000	LBS	GROUND	N
05/23/88	CHLORINE	FRANKLIN	52	LBS	AIR	Y
10/19/88	DIBUTYL PHTHALATE	RADFORD	786	LBS	GROUND/WATER	Y
08/18/89	TOLUENE	RICHMOND	3400	LBS	AIR	Y
08/02/89	METHANOL	RICHMOND	25042	LBS	GROUND/AIR	Y
04/04/89	AMMONIA	ALMA PLANT	200	LBS	AIR	Y
04/19/89	CHLORINE	8403 GLAZEBROOK DR, HENRICO	1232	LBS	AIR	N
05/05/89	CHLORINE	ARLINGTON	150	LBS	AIR	N
05/08/89	AMMONIA	RADFORD	0	UNK	AIR	N

SARA TITLE III SECTION 304 RELEASE NOTIFICATIONS
1987-1989

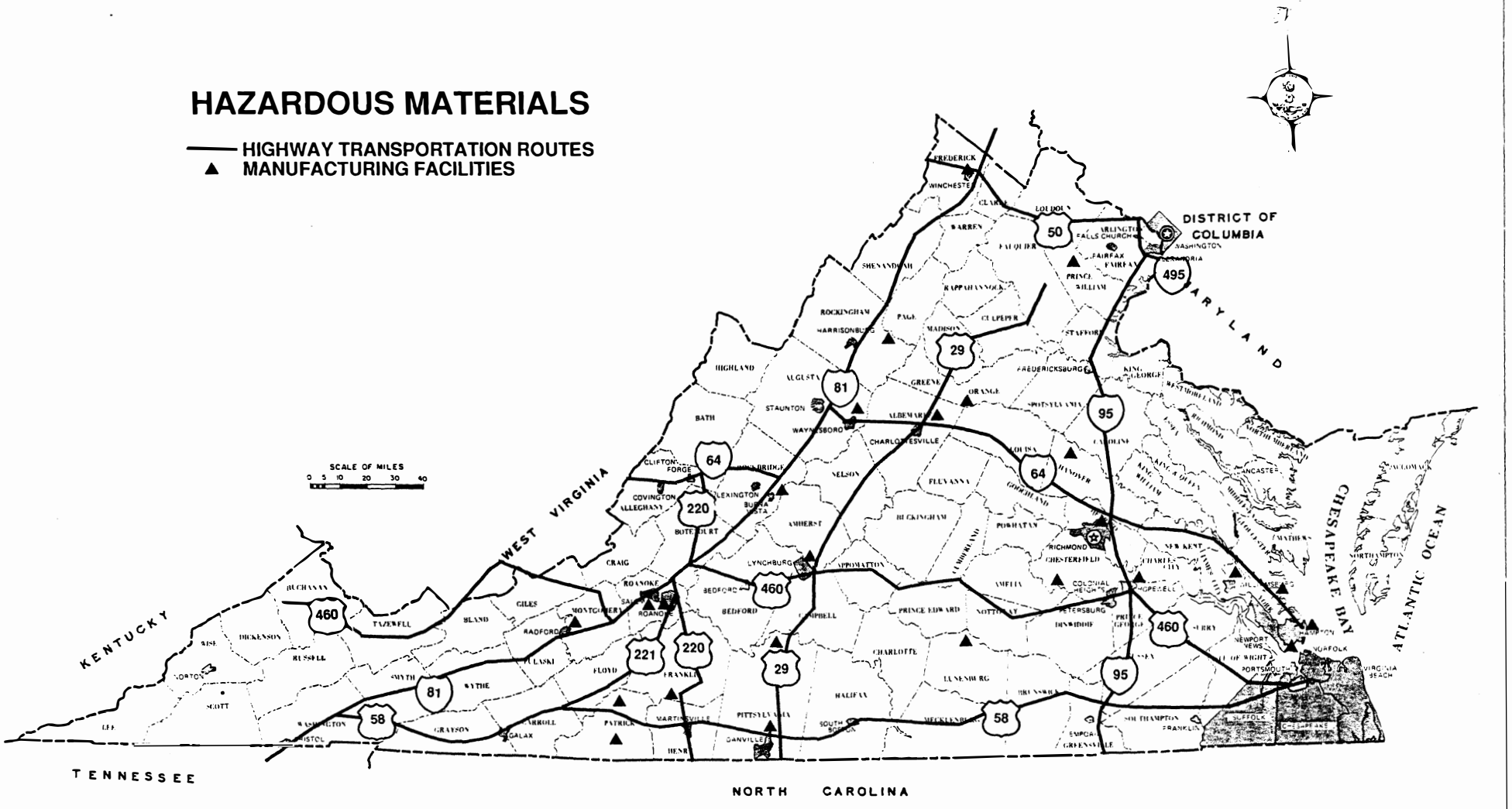
DATE OF RELEASE	CHEMICAL	LOCATION	AMOUNT	UNITS	MEDIUM	SUBJECT TO REPORTING?
05/12/89	SODIUM CYANIDE	PORTSMOUTH	0	UNK	GROUND	N
05/14/89	SULFURIC ACID	AMHERST	30640	LBS	GROUND	N
05/19/89	CHLORINE	RICHMOND	0	UNK	AIR	N
10/05/89	TETRACHLOROETHYLENE	WILLIAMSBURG	170	LBS	AIR	N
09/29/89	AMMONIA	BROADWAY	100	LBS	AIR	Y
10/03/89	SULFURIC ACID	HOPEWELL	12393	LBS	INDUSTRIAL SEWER	N
02/11/89	HYDROGEN PEROXIDE	I-81 WASHINGTON COUNTY	0	UNK	GROUND	N
01/25/89	NITRIC ACID	WAYNESBORO	300	LBS	GROUND	N
08/15/89	GASOLINE	GROTTOES	1100	GAL	POTW	N
07/25/89	RESIN	RICHMOND	150	GAL	WATER/GROUND	N
04/10/89	CHROMIC ACID	NORFOLK	50	GAL	GROUND	N
02/02/89	TAINTED WATER	ASHLAND	5	GAL	FLOOR	N
02/08/89	DIESEL FUEL	CAPRON	300	GAL	GROUND	N
02/05/89	CHROMATED COPPER ARSENATE	RICHMOND	100	GAL	FLOOR	N
09/14/88	TREATING SOLUTION	HAMPTON	75	GAL	GRAVEL	N
08/20/88	SULFURIC ACID	YORKTOWN	57450	LBS	ONSITE TREATMENT	N
09/27/88	ASBESTOS	SURRY	40	GAL	UNKNOWN DISPOSAL	N
03/29/88	PCB OIL	COVINGTON	1	LB	GROUND	N
08/12/89	POTASSIUM PERMANGANATE	FAIRFAX	19250	LBS	AIR/GROUND	N
09/28/89	DIESEL FUEL	SUFFOLK	0	UNK	GROUND	N
03/01/89	AMMONIA	NORFOLK - POTLOCK YARD	0	UNK	AIR	N
04/14/89	SULFURIC ACID	500 PENDLETON ST	0	UNK	GROUND	N
04/28/89	AMMONIA	CLINTWOOD	0	UNK	WATER	N
09/05/89	AMMONIA	HOPEWELL	3400	LBS	AIR	Y
09/30/89	SULFURIC ACID	CARMEL CHURCH	0	UNK	UNKNOWN	N
10/05/89	SULFURIC ACID	FREDERICK COUNTY, I81 SOUTH	77	LBS	GROUND	N
10/12/89	CHLORINE	CLAYPOOL	9	LBS	AIR	N
10/25/89	SULFURIC ACID	HOPEWELL, ROUTE 10	153200	LBS	WATER	Y
12/16/89	LIQUID AMMONIA	NORFOLK - INDIAN RIVER ROAD	400	LBS	AIR	Y
12/29/89	CHLORINE	FAUQUIER COUNTY	10	LBS	AIR	Y
06/19/89	SULFURIC ACID	SUFFOLK	0	UNK	UNKNOWN	N
06/28/89	CHLORINE	2ND AND MAURY ST, RAILCAR	0	UNK	AIR	N

SARA TITLE III SECTION 304 RELEASE NOTIFICATIONS
1987-1989

DATE OF RELEASE	CHEMICAL	LOCATION	AMOUNT	UNITS	MEDIUM	SUBJECT TO REPORTING?
09/01/89	HYDROCHLORIC ACID	213 BALLARD ST, YORKTOWN	0	UNK	UNKNOWN	N
01/08/89	AMMONIA	RAILROAD MILE POST 138.6	0	UNK	AIR	N
10/29/89	SULFURIC ACID	PORTSMOUTH	0	UNK	UNKNOWN	N
11/03/89	CHLORINE	FAIRFAX	0	UNK	UNK	N

HAZARDOUS MATERIALS

HIGHWAY TRANSPORTATION ROUTES
MANUFACTURING FACILITIES

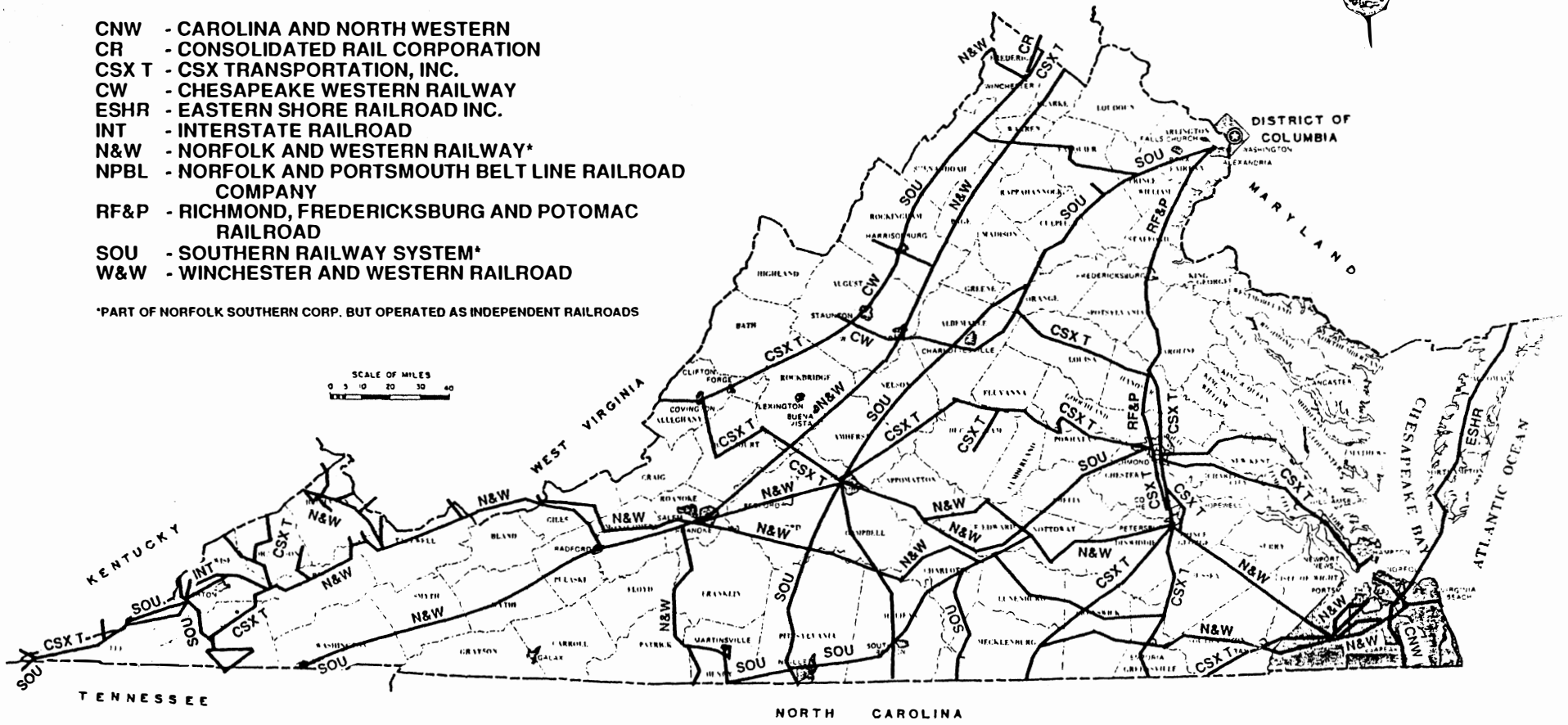


MAP - 1

RAILROADS OPERATING IN VIRGINIA - 1988

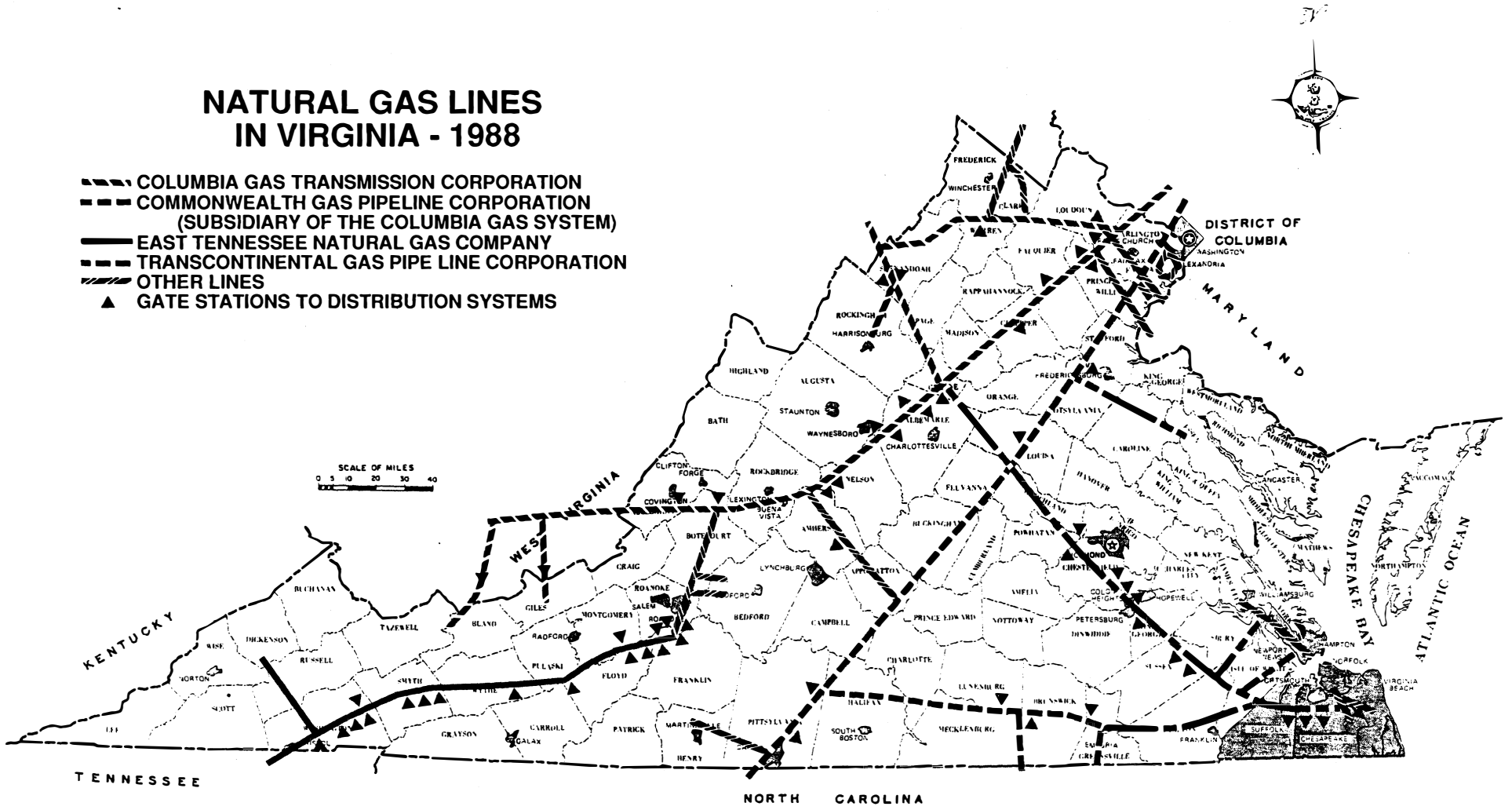
CNW - CAROLINA AND NORTH WESTERN
CR - CONSOLIDATED RAIL CORPORATION
CSX T - CSX TRANSPORTATION, INC.
CW - CHESAPEAKE WESTERN RAILWAY
ESHR - EASTERN SHORE RAILROAD INC.
INT - INTERSTATE RAILROAD
N&W - NORFOLK AND WESTERN RAILWAY*
NPBL - NORFOLK AND PORTSMOUTH BELT LINE RAILROAD COMPANY
RF&P - RICHMOND, FREDERICKSBURG AND POTOMAC RAILROAD
SOU - SOUTHERN RAILWAY SYSTEM*
W&W - WINCHESTER AND WESTERN RAILROAD

*PART OF NORFOLK SOUTHERN CORP. BUT OPERATED AS INDEPENDENT RAILROADS



MAP - 2

NATURAL GAS LINES IN VIRGINIA - 1988



MAP - 3

Virginia Hazardous Materials Emergency Response Teams