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HAZARDOUS MATERIAL SPILLS: A Documentation and Analysis of Historical Data



**Industrial Environmental Research Laboratory
Office of Research and Development
U.S. Environmental Protection Agency
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April 1978

HAZARDOUS MATERIAL SPILLS:
A DOCUMENTATION AND ANALYSIS OF HISTORICAL DATA

by

Joseph L. Buckley
Stephen A. Wiener
Factory Mutual Research Corporation
Norwood, Massachusetts 02062

Contract No. 68-03-0317

Project Officer

John E. Brugger
Oil and Hazardous Materials Spills Branch
Industrial Environmental Research Laboratory - Cincinnati
Edison, New Jersey 08817

INDUSTRIAL ENVIRONMENTAL RESEARCH LABORATORY
OFFICE OF RESEARCH AND DEVELOPMENT
U.S. ENVIRONMENTAL PROTECTION AGENCY
CINCINNATI, OHIO 45268

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FOREWORD

When energy and material resources are extracted, processed, converted, and used, the related polluttional impacts on our environment and even on our health often require that new and increasingly more efficient pollution control methods be used. The Industrial Environmental Research Laboratory - Cincinnati (IERL-Ci) assists in developing and demonstrating new and improved methodologies that will meet these needs both efficiently and economically.

This report is a product of the above efforts. It is the most extensive effort to document and analyze hazardous material spill incidents yet undertaken. The collection and analysis of these data will be utilized in assessing priorities for future spill prevention research. This work provides a picture of hazardous material spill experience despite recognized limitations imposed by difficulties in obtaining data. Incidents characterized by a particular primary cause or operational area are compared in terms of potential severity. Although no report can provide all the answers for hazardous material spill prevention, the present study contributes to a knowledge and understanding of the problems and where their solutions lie. This report will be of interest to researchers in the spill prevention and control area and to companies and individuals who are faced with the problem of spill prevention and handling of hazardous materials. Information on this subject beyond that supplied here may be obtained from the Oil and Hazardous Materials Spills Branch (IERL), Edison, New Jersey 08817.

David G. Stephan
Director
Industrial Environmental Research Laboratory
Cincinnati

ABSTRACT

The ultimate goal of this study was the prevention of hazardous material spills through application of research effort. The immediate objective was to provide guidance for the choice of research priorities for spill prevention through documentation and analysis of historical incidents involving hazardous material spills. Data were analyzed for the period January 1, 1971 through June 30, 1973. In excess of 15,000 incidents were examined, resulting in the documentation of approximately 10 percent as hazardous material spills. To allow comparison of spills of different materials, a hazard potential scheme was developed. Incorporating toxicity and quantity spilled, incidents were ranked on a hazard potential scale ranging from one to ten. A pragmatic approach to this problem was taken, and the scheme developed is specific to the needs of this study rather than being a general mechanism for comparing spills.

Primary and secondary causes of hazardous material spills in various operational areas (In Transit, Loading-Unloading Areas, In Plant Storage, In Plant Processing) were identified. The data were treated to find the frequency and distribution of hazardous material spills by cause, operational area, and hazard potential.

This report was submitted in fulfillment of Contract No. 68-03-0317 by Factory Mutual Research Corporation under the sponsorship of the U.S. Environmental Protection Agency. This report covers a period from 1971 through June 30, 1973.

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SECTION I

INTRODUCTION

Hazardous materials play a vital role in the economic structure of the nation ("hazardous material" is defined in Section 311 of Public Law 92-500, Federal Water Pollution Control Act Amendments of 1972). However, in the course of production, transportation, storage and processing, numerous unintentional spills of these materials occur annually. One estimate⁽¹⁾ places the annual number of such spills excluding oil, entering the nation's navigable waters, at 3,000. Reported spills range in size from a few milliliters to millions and even billions of liters of hazardous material.⁽²⁾ The potential damage to a waterway from a spill of the hazardous polluting substance also ranges widely according to the particular substance, the quantity of material spilled, the size and type of the body of water, and its flow rate. Toxic effects may occur directly and immediately, or, for some materials, the effect may be delayed until the process of bioaccumulation concentrates the material to a toxic level. The effect may also be indirect resulting from increased BOD (biochemical oxygen demand) depleting the dissolved oxygen supply below the level various aquatic life forms require. In view of the on-going national effort to restore the quality of our water resources, the actual damage in which a polluting spill results may be considerably greater in the future than it would be at present. The improved aquatic environment of the future, attained at great expense, could be quickly degraded by a spill which today might exert only marginal influence in an already polluted waterway.

Two basic approaches may be taken to protect our water resources from hazardous polluting substances. The first is control of a spill once it has occurred and the second is prevention of the spill. Considerable work has been done in control of spills. Some control methods are physical containment, physical and chemical removal, and neutralization.

The second and preferred method of protection is prevention of the spill.^(3,4) Prevention measures, if 100 percent effective, actually represent

the ideal form of protection. As with most man-machine systems, the goal of 100 percent effective operation (and zero spill frequency) is far from being attained. Deficiencies in equipment and human factors prohibit it. Yet it is a worthwhile goal for which to strive. In some cases, prevention may be the only practical alternative for dealing with a hazardous material spill, minimization of the problem being achieved only by elimination of the spill.

The objective of this program was to obtain a prioritized list of hazardous material spill causes which would reflect the quantity and hazard potential of the material spilled. Operational and geographic areas associated with incidents, as well as injuries and fatalities sustained as a result of the spill were among the factors identified. This information was to be used to aid Environmental Protection Agency Personnel to establish research priorities for future work in preventing hazardous material spills.

SECTION II

SUMMARY

To achieve the objectives cited in Section I, it was necessary to acquire private and public documentation of hazardous material spill incidents and treat the acquired information to model the distribution of spill incidents according to:

- 1) operational mode to which the material was exposed at the time of the incident;
- 2) hazard potential of the spill.

In excess of 15000 incident reports were manually scanned, of which approximately 10 percent yielded enough data to make possible the documentation of a hazardous material spill. By time period the number of spill reports documented was 76 for 1968-70; 362 for 1971; 710 for 1972; and 293 through June of 1973.

The number of incident reports exceeded our original estimation and it was found convenient to record the data on IBM punch cards for easier manipulation. [Twenty-six data items were contained on the card.] A Fortran IV computer program was prepared so the FMRC IBM 370 Model 145 digital computer could provide the desired sorts. See Appendix A for details of the program and printout. A Hewlett-Packard 9821A Programmable Calculator was used to obtain frequency distributions of the data as a function of operational areas, primary cause, and other factors delineated in Section VI.

A hazard potential scheme was developed to rank spills according to their potential severity. The Hazard Potential Categorization treats the factors of quantity and toxicity of the material jointly so that the severity of one spill could be compared with that of another on a single scale of Hazard Potential.

Finally, the frequency distributions by Hazard Potential Category for primary causes and operational areas were used to distinguish and evaluate problem areas.

SECTION III

CONCLUSIONS

The goal of this study was to further hazardous material spill prevention by gathering and analyzing spill data to provide guidance for future research. To accomplish this goal, the most comprehensive program of hazardous material spill documentation and study to date was undertaken. Over 15,000 fire, accident, and pollution incident reports were examined, of which approximately 10 percent could be documented as hazardous material spills. A useful method for comparing the potential severity of spills was developed. Based on toxicity of the material and quantity spilled, incidents were classified in Hazard Potential (HP) Categories from one (lowest) to ten (see Section V). Thus, spills of diverse materials and size could be compared. Based on analysis of data and technical judgment these conclusions were reached.

1. Priorities for Future Research

A. Statistical analysis of reported hazardous material spills indicates which causes are more likely than others to lead to a high Hazard Potential spill (arbitrarily, HP category 6 and higher). Similarly, spills occurring in some operational areas are indicated as more likely to be of high Hazard Potential than spills in other areas.

The following distributions of incidents between high Hazard Potential and low to moderate Hazard Potential (lower than HP category 6) are arranged in order of decreasing probability of high HP for primary causes and operational areas: These distributions were modeled from the data (see Tables 14,15).

<u>Primary Causes</u>	<u>Hazard Potential Probability</u>	
	High (≥HP6)	Low to Moderate (<HP6)
Tank Rupture or Puncture	<u>.23</u>	<u>.77</u>
Tank Overflow, Other Leakage	<u>.19</u>	<u>.81</u>
Hose, Transfer System Failure	<u>.08</u>	<u>.92</u>

Non-Tank Container Rupture or Puncture	<u>.03</u>	<u>.97</u>
<u>Operational Areas</u>	(<u>>HP6</u>)	(<u><HP6</u>)
In Plant Storage	<u>.27</u>	<u>.73</u>
In Plant Processing	<u>.22</u>	<u>.78</u>
In Transit	<u>.12</u>	<u>.88</u>
Loading-Unloading Area	<u>.09</u>	<u>.91</u>

The low probability of a non-tank container spill being of high hazard potential reflects the smaller quantities of material likely to be involved. Although highly hazardous materials may be shipped or stored in non-tank containers (e.g., cans, drums, bottles), the amount spilled is usually small. Conversely, tank incidents are more likely to be of high hazard potential because of sheer quantity, even though materials involved may be less hazardous than many in non-tank container incidents.

B. Hazardous material spill causes (with associated secondary causes) listed in order of priority for future research in spill prevention are:

<u>Primary Cause</u>	<u>Associated Secondary Causes</u>
1. Tank Overflow	Personnel Error, Gauge Missing or Defective, Other Mechanical Defect
2. Tank Rupture or Puncture	Loose or Leaking Cover, Valve Broken, Derailment, Collision and/or Overturn
3. Hose, Transfer System Failure	Hose or Coupling Failure, Personnel Error, Mechanical Failure, Material Defect
4. Non-Tank Rupture or Puncture	Body or Container Failure, Sharp Object, Improper Loading

Tank Overflow incidents and Tank Rupture or Puncture incidents are given top priority in that order. They are reversed in order from their standing in conclusion A because it is believed that Tank Overflow incidents are largely "preventable" in an immediate and practical sense, whereas many Tank Rupture or Puncture incidents probably are not. Above and beyond training of personnel, there are solutions consisting of properly designed, reliable hardware now within the state of the art and possibly on the market which can virtually eliminate the Tank Overflow problem. Research in this area offers the best chance for rapid payback in the form of ameliorating a problem area.

Tank Rupture or Puncture incidents usually involve derailment, collision and/or overturn, and the secondary causes Loose Cover, Leaking Cover, and Valve Broken appear in approximately 20 percent of the incidents. This indicates that transport tankers currently in use may require better protection for covers and valves.

C. Frequent associations of primary and secondary causes, given in terms of percent of primary cause incidents in which the secondary cause appears, are:

<u>Primary Cause</u>	<u>Secondary Cause</u>
Tank Rupture, Puncture	Derailment, Collision and/or Overturn (54.7%)
" " "	Body, Container Failure (33.4%)
" " "	Sharp Object (15.5%)
Tank Overflow, Leakage	Personnel Error (20.6%)
" " "	No Known Secondary Cause (26.4%)
" " "	Mechanical Failure (18.5%)
Hose, Transfer System Failure	Hose or Coupling Failure (75.0%)
Non-Tank Rupture, Puncture	Sharp Object (31.1%)
	Improper Loading (25.5%)

Note: The sum of percentages may exceed 100 percent as each primary cause incident may have several secondary causes assigned to it in various combinations.

D. The distribution of reported spills by primary cause is: Non-Tank Rupture or Puncture, 43 percent; Tank Rupture or Puncture, 25 percent; Tank Overflows or Other Leakage 17 percent; Hose or Transfer System Failures, 7 percent; Other Causes (including unknown), 7 percent.

The distribution of reported spills by operational area is: In Transit, 57 percent; Loading-Unloading, 25 percent; In Plant Process, 10 percent; In Plant Storage, 7 percent.

Note: The distributions given are those of reported spills, i.e., the distributions of the samples obtained, and are not represented as the true distributions of national spill experience by cause and operational area.

2. Data Collection

A. Due to the proprietary nature of the information and lack of central reporting, information on In Plant spills is most difficult to obtain. Analysis is hampered by the lack of essential detail in many reports. It is believed that many In Plant spills are not reported at all for a variety of reasons (see Section VI).

B. It is believed that In Transit spills are more completely reported than other categories due to reporting requirements in existence.

3. Injuries and Hazardous Material Spills

A. Relatively few injuries were reported in association with the spills documented (see Table 4). The large number of hazardous material injuries (although not necessarily associated with spills) reported to the State of California for 1972, corroborates the conclusion that spill injuries and spills in general are greatly underreported (see Tables 4,5).

B. Many injuries involved with Non-Tank Container Rupture or Puncture incidents were the result of inhalation of the vapors of spilled materials. These injuries were generally minor.

C. Seventy-eight percent of the Tank Rupture or Puncture incidents with injury involved the secondary causes derailment, collision and/or overturn, indicating operator injuries largely due to the secondary causes rather than the spill.

D. The injuries associated with Tank Overflow or Leakages and Hose or Transfer System Failures were largely due to the spill rather than directly attributable to a secondary cause.

4. Frequently Spilled Hazardous Materials

A. The five specific materials most frequently reported were sulfuric acid (106 reports), ammonium nitrate fertilizer (77), sodium hydroxide (47), hydrochloric acid (44), and ethyl parathion (26)(see Appendix E).

B. The average and largest spills for these materials were: Sulfuric acid, 30,000 l (8000 gal) and 1,100,000 l (300,000 gal); Ammonium nitrate 16000 kg (18 tons) and 910,000 kg (1000 tons); Caustic soda, 15,000 l (4000 gal) and 190,000 l (50,000 gal); Hydrochloric acid 13,000 l (3500 gal) and 360,000 l (95,000 gal); Ethyl parathion, 620 l (160 gal) and 14,000 l (3700 gal) (see Appendix E).

C. Toxicity data for these materials varied from 2140 mg/kg LD₅₀ for sulfuric acid to 2 mg/kg LD₅₀ for ethyl parathion (Toxic Substances List, 1974 Edition).

D. The most frequent causes of spills involving sulfuric acid, caustic soda, or hydrochloric acid were tank rupture or puncture involving collision, derailment or overturn, often with loss at a valve or cover. Ammonium nitrate and ethyl parathion spills involved respectively bags and pails or drums which failed due to improper loading and/or contact with sharp objects (see Appendix G).

E. The mean Hazard Potential (HP) of each of the five most frequently spilled materials was less than 2.96, the mean HP of spills in general (see Appendix H and Figure 5). This indicates that these materials, although often presenting a large volume spill possibility, or having high toxicity in the case of ethyl parathion, have had spill experience less severe than average, in terms of HP.

F. Of materials frequently reported, those with the highest mean HP were Anhydrous Ammonia (6.00), Toluene (5.86), Nitric Acid (4.73), Phenol (4.53), Methyl Alcohol (3.57) and Xylene (3.40) (see Appendix H).

G. Hazard Potential category ten (HP10) represents spills with the highest potential severity. Toluene had the most HP10's reported, at five. Anhydrous ammonia, phenol and nitric acid each had three.

H. Fifty-seven reported spills involved multiple spilled hazardous materials. The mean HP of these spills was well above that for all spills, at 5.33. By operational area, multiple spills were evenly distributed among "In Transit" (17), "In Plant-Process" (20) and "In Plant-Storage" (17). However, three of the four HP10 multiple spill incidents involved railroad tank cars and the "In Transit" operational area.

I. Lack of specific material names in spill reports has required frequent use of general designations such as industrial wastes and chemicals, and insecticides. As toxicity data were lacking due to this form of incomplete reporting, these incidents could not be analyzed in terms of HP.

J. By EPA Region, spill reports were distributed as follows: I, 97; II, 73; III, 238; IV, 243; V, 277; VI, 228; VII, 42; VIII, 55; IX, 135; X, 53 (see Appendix I).

SECTION IV
DATA FORMAT AND ACQUISITION SOURCES

The following operational areas describe generally locations in which spills occur:

1. loading-unloading areas (transfer points)
2. in transit,
3. processing, and
4. storage.

In order to obtain data on hazardous material spill incidents in these areas, a large number of sources, both public and private, were contacted. Public sources providing significant data included:

1. The Environmental Protection Agency;
2. The Department of Transportation
 - a. Office of Hazardous Materials
 - b. Coast Guard Pollution Enforcement Branch
 - c. Coast Guard Office of Merchant Marine Safety, Cargo and Hazardous Materials Division
 - d. Office of Pipeline Safety;
3. Department of Natural Resources - Commonwealth of Massachusetts; and
4. Maryland Water Quality Enforcement Branch, Maryland Department of Natural Resources.

Private sources included the fire, boiler and machinery loss records of the Factory Mutual System and the loss records of the Liberty Mutual Insurance Company, and data collected by Geraghty & Miller, Incorporated. Newspapers and trade journals were also examined. A number of other potential sources were also explored but proved unable to provide pertinent data.

A documentation report sheet was designed to record significant information for each spill incident. Entries in the following categories were sought from the cited data sources:

- Source
- Date
- Time
- Site
- Weather
- Injuries or fatalities to operating personnel
- Injuries or fatalities to others
- Occupancy
- Fire or explosion
- Operational area
- Equipment involved
- Quantity spilled and rate
- Packaging
- Value of material spilled
- Damage
- Estimated environmental damage
- Cost of cleanup
- Types of and proximity to water courses
- Hazard potential
- Causes of the incident
- Description of the event

This format includes all factors considered necessary to attain the specific work objectives. Not all of the sources interrogated held the water pollution problem as their primary area of interest. Thus, the data contained in the incident reports examined did not coincide completely with the categories indicated in the format. Nevertheless, it was considered worthwhile to examine all available data, since, in doing so, as many pertinent incidents as possible were identified and included in the data base, if minimum information requirements were met (i.e., material spilled and/or cause and effect relationships could be determined). Figure 1 is an example of a completed Documentating Report Sheet. Data were collected as available for the period 1971 through

June 1973 and were organized into a computer format for ease of sorting and statistical analysis (see Appendix A). Data for 1968-1970 were collected, but were not included in the statistical analysis as it was extremely limited in quantity.

It was established that pertinent incidents would include any spills of hazardous materials which could have led potentially to pollution of water, whether or not such pollution was known to have occurred. Oil spills were generally excluded except where oil was contaminated by some hazardous material, or in a few cases, where the causes of an oil spill related to other hazardous material spills, and were essentially independent of the fact that oil was the material involved.

Information was most widely available for incidents occurring in transit and in transfer operational modes, since the Department of Transportation Office of Hazardous Materials, Coast Guard and EPA are most often notified of these spills. In-plant process spills and spills from storage have been the most difficult to document. This data is usually not reported to one of the above agencies, because the spills generally occur on private property and are not presently required by law to be reported to any agency. In an effort to acquire such data, over 6,000 incidents reported to the Factory Mutual System were examined to determine whether a release of hazardous material was involved. It could be ascertained for only 200 incidents that such a release did occur. These incidents were associated with an insured loss, such as fire, flood, explosion, vandalism, or equipment failure resulting in a loss exceeding a minimum deductible limit; otherwise, they would not have been found in the Factory Mutual data base. Other spills occurring in-plant or from storage were discovered in the records kept by Coast Guard, State of Maryland and EPA, but these made up only a very small percentage of the total number of incidents recorded by these sources.

FACTORY MUTUAL RESEARCH CORPORATION

FMRC Serial No. 22405

1. Source(s) of Information: Report No. NTSB-RAR-72-6 and "Fire Command" Vol. 39, 1972 Jan.
2. Date: 10/19/71 3. Time: 1:44 p.m.
4. Site: Mykawa Station ~ 10 miles south of center of Houston, Texas 5. Weather: NAF
6. Injuries/fatalities: operating personnel 0 / 0 ; others 50 / 1
7. Occupancy: R. R. Tank Car Transport 8. Fire/explosion: Yes/Yes
9. Operational Area: In Transit
10. Equipment involved: R. R. Tank Cars
11. Material involved: Liquefied Vinyl Chloride, Acetone
12. Quantity spilled and rate: Vinyl Chloride 132,700 litres, 35,000 gal. at rapid rate
13. Packaging: R. R. Tank Cars
14. Value of material spilled: Est. \$22,000 15. Damage: \$376,204
16. Est. environmental damage: See remarks for materials in derailed cars.
17. Cost of clean up: UNK. 18. Type(s) of and proximity to watercourses: Drainage ditch to Sims Bayou, ~ 1 1/4 miles west, Clear Creek ~ 2 miles south, Sims Bayou ~ 2 miles north, both crossed by the r.r. track.
19. Hazard potential: Fire, explosion, water pollution, great amounts of toxic materials could have been released (see remarks)
20. Cause(s): 1) Puncture of tank car; 2) derailment 3) due to track failure, 4) due to forces encountered in emergency braking, 5) emergency braking due to excessive brake pipe leakage (probable cause of braking).
21. Narrative: Twenty cars derailed as a result of accidental emergency braking. Two tank cars carrying vinyl chloride punctured, ignited. Approx. 45 minutes later one tank car ruptured violently, another rocketed 300 feet and started secondary fire on acetone tanker. Firemen had attempted to cool the tanks. Most of the 50 injured were firemen, and one was killed.
22. Major factor(s) in extent of incident: Puncture of tank cars and ignition of contents. Failure to follow procedures for identifying threats to public safety.
23. Remarks: Prior brake inspection was not conducted according to Federal regulations.

Derailed Cars included:	No.	Commodity	Capacity Litres	Capacity Gal.	Hazardous Commodity Classification	Toxic Effect through
6 Liquefied vinyl chloride			1,893,313	501,800	Flammable	Inhalation
1 Butadiene			126,798	33,500	Flammable Compressed Gas	Inhalation
1 Acetone			78,728	20,800	Flammable Liquid	Inhalation
1 Formaldehyde			79,864	21,100	Not Regulated	Ingestion
1 Caustic Soda			37,850	10,000	Corrosive	Ingestion Contact

FIGURE 1 DOCUMENTATION REPORT SHEET

SECTION V

DEVELOPMENT OF HAZARD POTENTIAL

The design and assignment of hazard potential categories for individual spills was not a principal element in the work effort. It was needed, however, in order to rank and normalize spills of diverse materials by their potential severity ("potential" because all spills documented were considered as potentially affecting surface waters regardless of where the spill occurred or when it was cleaned up).

It was considered desirable for analysis to compare spills on a scale from one to ten and to include in these ten categories consideration of all possible quantities of material, and the toxicity range (Relative Hazard Level) of the material. The choice of the scale for the categories was made pragmatically, to prevent an unrealistic "bunching" of spills due to excessive breadth of a category at the low end and to provide sufficient differentiation among spills to distribute them across the entire range of categories in relation to a rational measure of their hazard potential. The limited number of categories was chosen to facilitate documentation tasks and to simplify visual interpretation and comparison of the data, particularly when the number of documented incidents was small.

Finding The Hazard Potential Category For A Given Spill

Hazard potential was obtained by first assigning a specific material to a Relative Hazard Level, from 1 through 5, based upon LD₅₀ toxicity data. LD₅₀ level is that dosage at which 50 percent of test organisms succumb to the agent administered. Lethal dosages for humans are typically lower than the LD₅₀ dosage. The most severe hazard is rated at 5 as indicated in Table 1.

Table 1. RELATIONSHIP OF RELATIVE HAZARD TO TOXICITY RANGE

Relative Hazard Level	Toxicity Range for LD ₅₀ (mg/kg)
1	LD ₅₀ > 5000
2	1000 < LD ₅₀ ≤ 5000
3	100 < LD ₅₀ ≤ 1000
4	10 < LD ₅₀ ≤ 100
5	LD ₅₀ ≤ 10

The Relative Hazard Level (RHL) of the material and the quantity of material spilled determines the Hazard Potential Category (HPC) to which a particular spill incident is assigned. Table 2 presents for each RHL the quantities of material which divide the HPC scale into its ten categories. The table allows the HPC simply to be read off if quantity and RHL of the material are known.

Table 2. HAZARD POTENTIAL CATEGORIZATION TABLE

Hazard Potential	Quantity of Material Spilled (liter or kg)				
	Relative Hazard Level				
	1	2	3	4	5
1.	7,500	2,500	500	50	5
2.	19,000	6,500	1,300	130	13
3.	38,000	12,500	2,500	250	25
4.	75,000	25,000	5,000	500	50
5.	150,000	50,000	10,000	1,000	100
6.	380,000	125,000	25,000	2,500	250
7.	750,000	250,000	50,000	5,000	500
8.	1,500,000	500,000	100,000	10,000	1,000
9.	3,800,000	1,250,000	250,000	25,000	2,500
10.	>3,800,000	>1,250,000	>250,000	>25,000	>2,500

To determine Hazard Potential, read down the Relative Hazard Level column to the first number greater than the quantity spilled in liters or kilograms, or to the bottom if no number exceeds the spill quantity. Read off the Hazard Potential from the left.

Example: Material with relative hazard 2, such as methyl ethyl ketone, 10,000 liters spilled. First number greater than 10,000 in column 2 is 12,500. Reading over to the left, Hazard Potential is 3.

The RHL toxicity ranges were modeled on a system used in the Handbook of Analytical Toxicology⁽⁵⁾, NFPA Standard No. 49, entitled "Hazardous Chemicals Data,"⁽⁶⁾ and on some preliminary work done for the International Joint Group of Experts on the Scientific Aspects of Marine Pollution (GESAMP) by the U.S. Coast Guard and the National Academy of Science (unpublished). As much as possible, the LD50 data used was determined with rats as the test animals and the route of administration was oral. It is recognized that other criteria have been proposed to rate the relative effects of a pollutant in a waterway. However, for our purposes, use of the LD50 was reasonable. When this information was not available, other toxicity data or qualitative description of the toxicity of the material was used to assign a relative hazard level.

The quantities of material spilled in the Hazard Potential Categorization Table (Table 2) were calculated based on the RHL toxicity ranges, a chosen volume of water representative of one hour's summer flow for some navigable rivers, and an arbitrary set of percentage ranges corresponding to and thus defining HPCs. For additional information on the construction of Table 2, see Appendix D.

The HPC of an incident does not relate to a spill in any particular body of water. Rather, it is a relative measure of hazard that can be assigned to a spill of any amount of any material anywhere, as long as the quantity and RHL of the spilled material are known. It is greatly simplified from the real world and arbitrary to some extent, but it is a basis for comparison of severity of incidents in the statistical treatment of the data.

SECTION VI

DATA TREATMENT AND ANALYSIS

Hazardous material spills can be treated as completely random events, since the likelihood of occurrence of an event is entirely independent of other spills which have occurred. As borne out by the data (see Figure 1), larger (more serious) events are, in general, less probable than smaller events. These characteristics are shared by other types of events such as traffic accidents and fire losses. The statistical distributions of such events differ from the normal and are governed by exponential functions. Based on observation of the data and the theoretical similarities of the processes generating the different type of events, hazardous material spills of various hazard potential can also be modeled according to an exponential distribution. The mathematical form of this exponential distribution is:

$$F(x) = 1 - e^{-\alpha x} \quad (1)$$

for $x \geq 0$.

where α is a positive constant associated with the specific distribution, and,

x is the independent variable, in this case, hazard potential. ⁽⁸⁾

(N.B.) These definitions are also valid for Equations 2 and 3. The graphical form of the exponential distribution is shown in Figure 2.

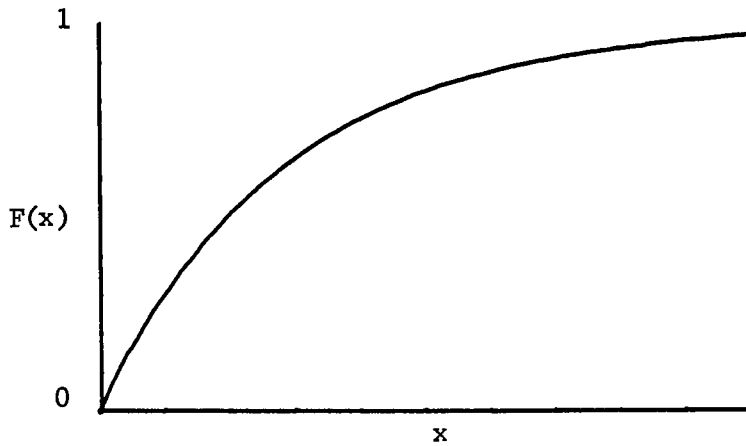


FIGURE 2 GRAPHICAL REPRESENTATION OF $F(x) = 1 - e^{-\alpha x}$
Exponential Distribution Function, $\alpha = .35$

The exponential density function, first derivative of the distribution is:

$$f(x) = \alpha e^{-\alpha x}, \quad (2)$$

for $x \geq 0$. $F(x) = f(x) = 0$ for $x < 0$ by definition.

(See Reference 8)

The graphical representation of Equation 2 is shown in Figure 3. The distribution function (Equation 1) tells the probability of an incident taking an x value less than or equal to any chosen point on the x -axis, and the density function (Equation 2) is the first derivative of the distribution function. Integrating the density function over an interval of the x -axis gives the probability of an incident taking an x value in that interval (the total area under the curve is equal to one).

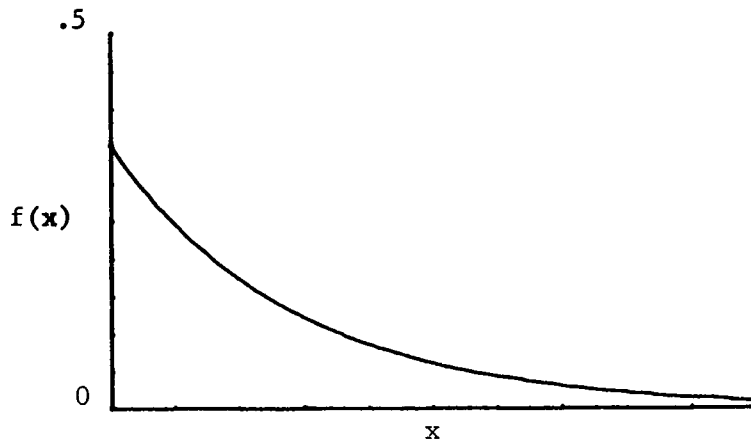


FIGURE 3 GRAPHICAL REPRESENTATION OF $f(x) = \alpha e^{-\alpha x}$
Exponential Density Function, $\alpha = .35$

An interesting characteristic of this type of function is that its expected value, $E(x)$, is equal to its standard deviation, σ_x , as follows:

$$E(x) = \sigma_x = \alpha^{-1} \quad (3)$$

The reported hazardous material spills documented in this work for which hazard potential could be determined support the theoretical observations above. The data exhibit the characteristic of expected value being nearly equal to the standard deviation, which is another indication that the data has an exponential distribution. Regression analysis performed on the data show good correlation with the exponential form and t and F tests show statistical significance at the 99-percent level of confidence.

Standard statistical tests for comparing samples and drawing conclusions with regard to their parent distributions are based on assumptions of normality and thus, do not apply to this data. Non-parametric techniques such as

the process by which hazard potential categories were assigned was based on a discrete scale (e.g., an incident is either 2 or 3, not 2.5). This could introduce biases that would not be accounted for by the aforementioned statistical tests which assume a continuous scale. If good estimates of the parameters for the exponential model for each category (cause, operational area or other breakdown) can be obtained, graphical comparison will suffice to determine if certain types of incidents are significantly more likely to be serious than others.

Figures 4-14 contain data for the period January 1, 1971 to June 30, 1973. The number of incidents presented in these figures varies and may at first appear inconsistent. However, this is not the case, as different pieces of data were unknown for different incidents. Thus, the number of incidents for which the operational area is known (Figure 4) is different than the number of incidents for which the primary cause is known (Figure 10). Similarly, the number of incidents for which hazard potential is known (Figure 5) differs from that for which hazard potential and operational area (Figures 6-9) or hazard potential and primary cause (Figures 11-14) are known.

Figure 4 shows the distribution of incidents by operational areas from the IBM tabulation. In Transit provides the majority of incidents reported (57 percent) due to the requirement of carriers to report incidents under the Hazardous Materials Transportation Control Act of 1970. Loading-Unloading areas rank second in proportion of reported incidents (25 percent) perhaps due to this same act, while In-plant Storage (7 percent) and Processing (10 percent) show fewer reports of incidents.

Figure 5 is a plot of frequency of incidents (in terms of percentage) as a function of Hazard Potential Category for all causes and areas. If the peaks of this distribution were connected the resulting curve would approximate an exponential density function of the form referred to in Equation (2).

Similar distributions hold for incidents occurring in the In-Transit (Figure 6) operational area and in Loading and Unloading (Figure 4).

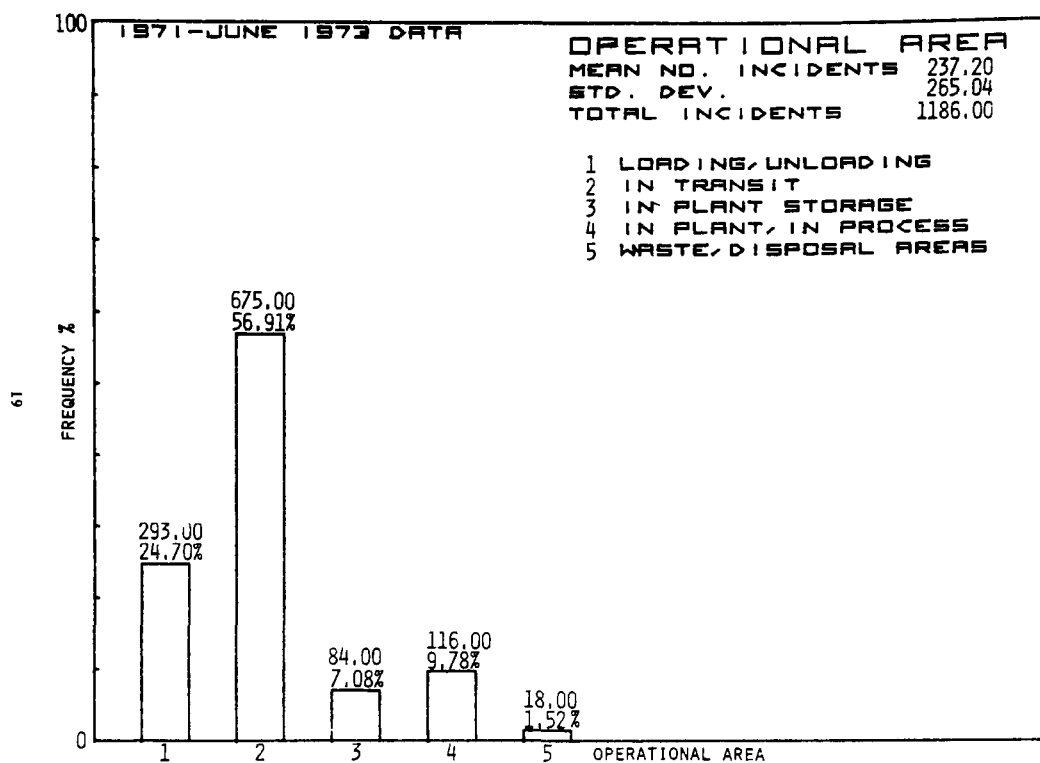


FIGURE 4 DISTRIBUTION OF INCIDENTS BY OPERATIONAL AREA

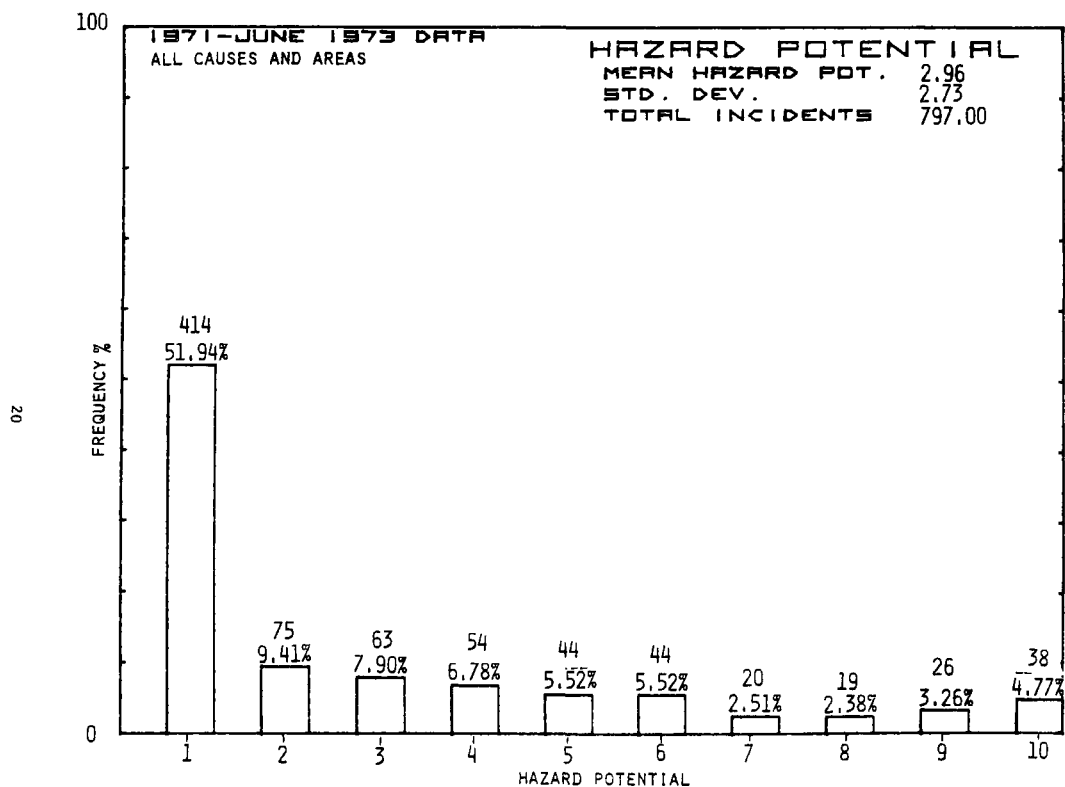


FIGURE 5 DISTRIBUTION OF INCIDENTS BY HAZARD POTENTIAL CATEGORY

Figure 8 shows the frequency distribution of data for In-Plant Storage, while Figure 9 presents the frequency distribution of In-Plant Process spill incidents. These do not display the characteristic shape of the exponential density function. This apparent difference can be explained by the limited number of reported incidents which could be classified in the Hazard Potential scheme due to lack of complete information. It is likely that more detailed reports and more complete reporting of incidents in these two operational areas would result in an exponential density function similar in shape to those of "In Transit" and "Transfer". Confidential interviews with officials of various companies indicate that many spills occurring in In-Plant Storage and Process situations are not reported outside the company and perhaps not even to the company. Some reasons for not reporting such spills are:

- 1) The material or quantity spilled may not be considered hazardous by an employee;
- 2) The dollar value of the material spilled and associated business interruption is below insurance deductibles for such a loss and thus insurers are not informed, and
- 3) The spill may be limited to corporate boundary limits and thus not reported to any agency.

Although the number of incidents reported in these two areas do not provide a clear-cut exponential density function, it is believed that if sufficient data were available they would follow such a distribution.

Figure 10 is a distribution of incidents according to the following primary causes:

- 1) Rupture, puncture or other failure of a non-tank container;
- 2) Rupture, puncture or other tank failure (any breach in the integrity of the tank including leaking dome-covers, safety valves or vents, or broken valves, but not including failures of transfer systems;
- 3) Hose or transfer system failure;
- 4) Tank overflow or other leakage including valves left open;
- 5) Other (including unknown).

These categories were selected upon inspection of the data which indicated that the more specific and more numerous secondary causes (see Table 7)

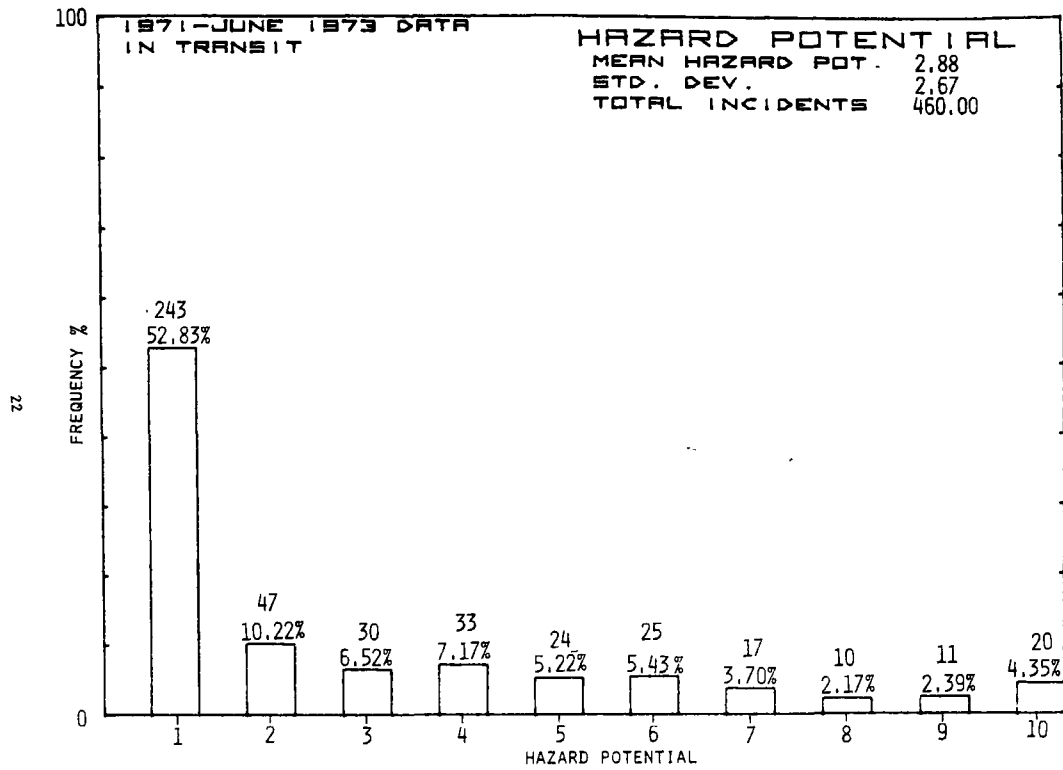


FIGURE 6 DISTRIBUTION OF "IN-TRANSIT" INCIDENTS BY HAZARD POTENTIAL CATEGORY

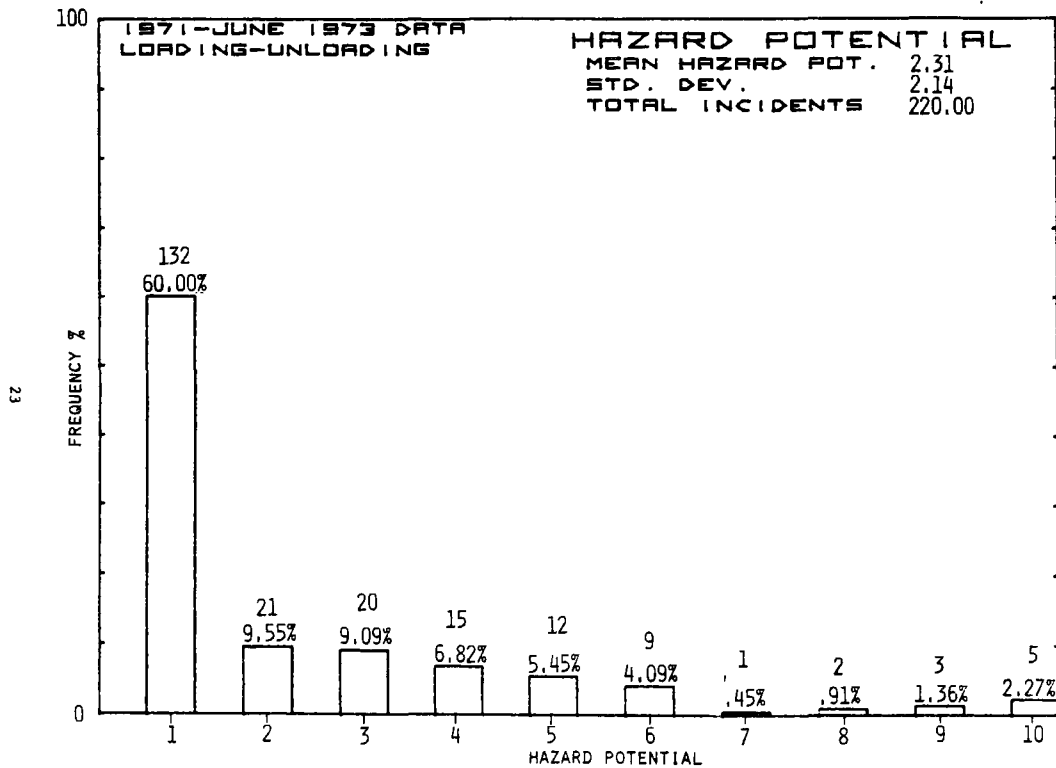


FIGURE 7 DISTRIBUTION OF TRANSFER INCIDENTS BY HAZARD POTENTIAL CATEGORY

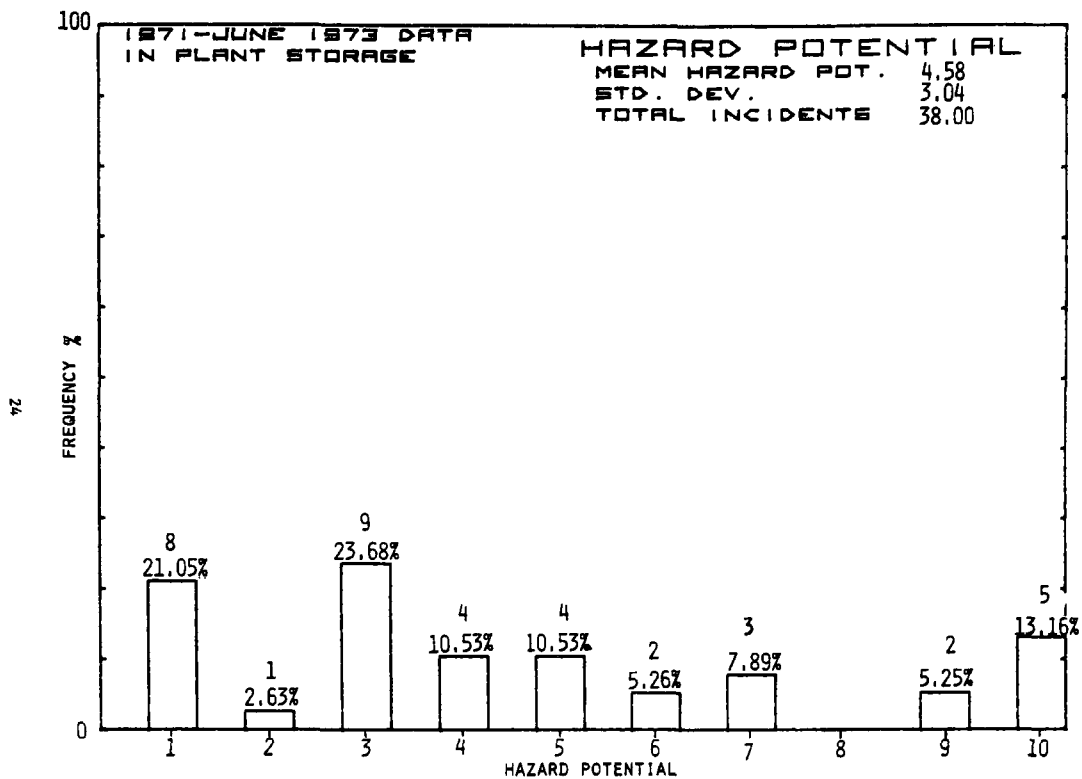


FIGURE 8 DISTRIBUTION OF IN-PLANT STORAGE INCIDENTS
BY HAZARD POTENTIAL CATEGORY

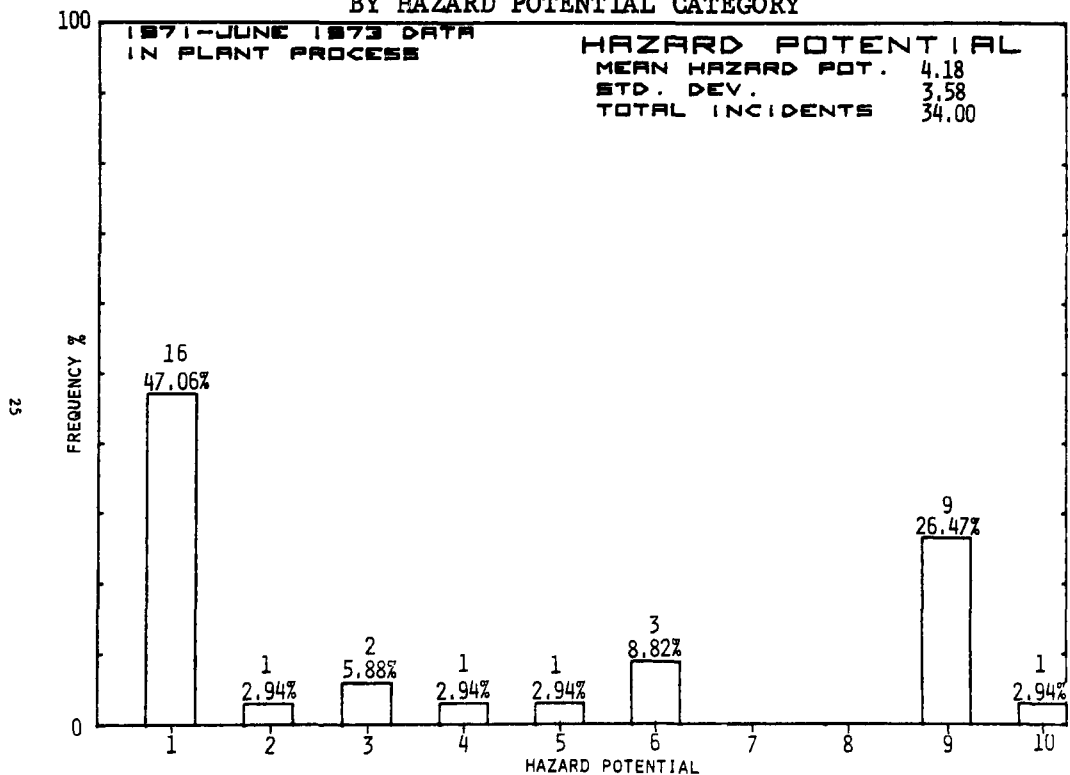


FIGURE 9 DISTRIBUTION OF IN-PLANT PROCESS INCIDENTS BY HAZARD
POTENTIAL CATEGORY

could be grouped into a more tractable framework for analysis. A detailed discussion of secondary causes is provided subsequently.

Figure 10 indicates that the highest proportion of reported spills (43 percent) are caused by rupture, puncture or other failure of non-tank containers (for example drums, cans, bottles or bags). Rupture, puncture or other failure of a tank (including over-the-road cargo tanks and fixed storage tanks) results in the next highest proportion of reported spills (25 percent). Tank overflows and other leakages (17 percent of reported spills) rank next followed by Hose or Transfer System Failures (7 percent). Other or unknown causes also account for approximately 7 percent of reported incidents.

This distribution of incidents by cause may be interpreted to show a relationship to the distribution by operational area. The preponderance of incidents with the primary causes, Non-Tank Rupture or Puncture and Tank Rupture or Puncture is related to the large proportion of reported incidents from the operational areas "In Transit" and "Loading and Unloading" (Figure 4). The majority of these incidents occur in circumstances such that reporting is required under the Hazardous Materials Transportation Control Act of 1970. It may be seen upon examination of the data with respect to its source that, of reported spills included in this study, 56 percent of Tank Rupture or Puncture incidents and 92 percent of the Non-Tank Rupture or Puncture incidents are mandated by this act (i.e., they were reported as a hazardous material incident to the Office of Hazardous Materials, U.S. Department of Transportation).

Distributions for four primary causes are presented in Figures 11-14. By inspection, it can be seen that these plots conform to the exponential distribution.

It has been indicated that all spill distributions for operational areas and causes are of the exponential form. It is convenient to treat the data statistically by utilizing the method of moments(8) on observed incidents in specific areas and from specific causes to estimate the parameters of particular exponential density and distribution functions. With the estimated parameters, appropriate curves can be generated. These curves can then be used to see if an accident arising in a particular area or from a particular cause is more likely to be a serious incident than one from

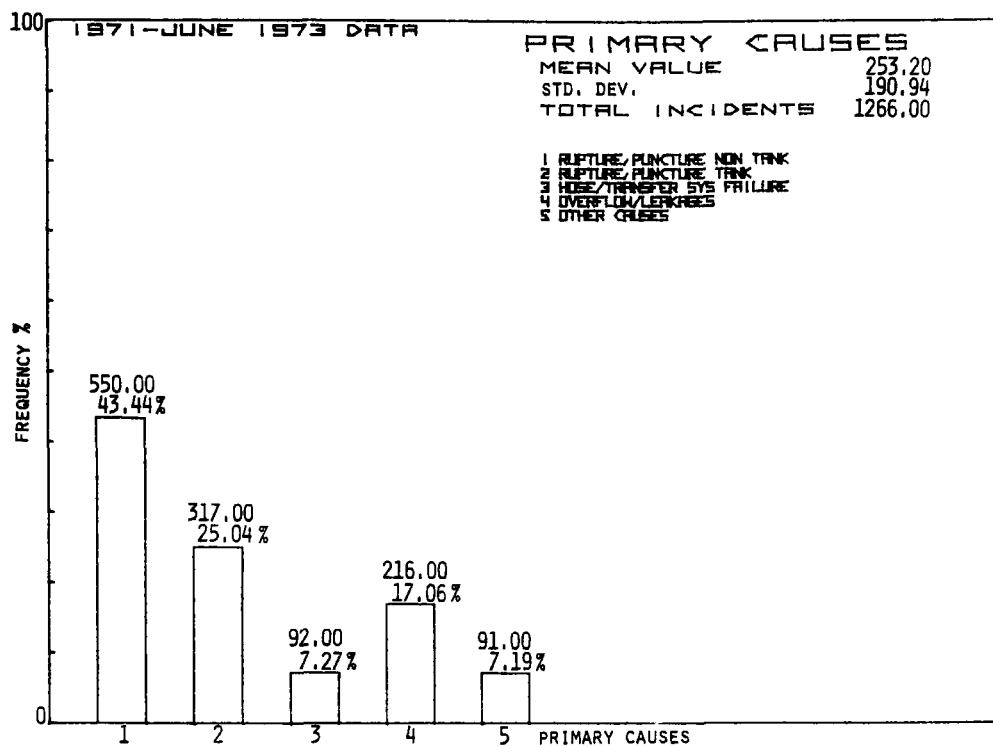
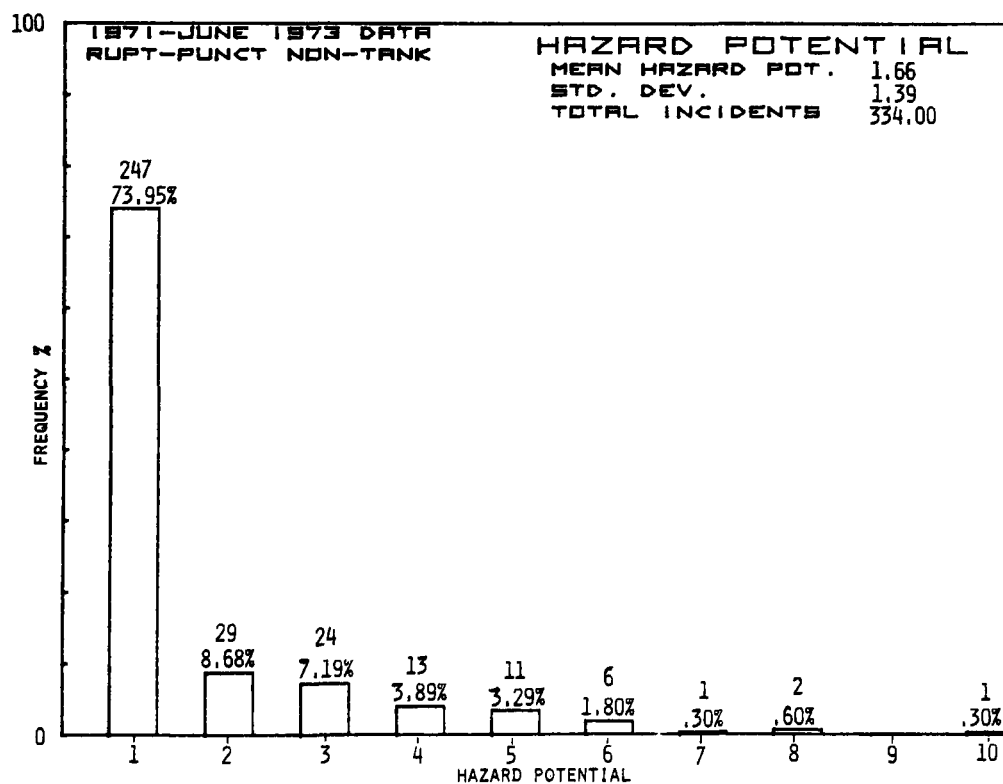


FIGURE 10 DISTRIBUTION OF INCIDENTS BY PRIMARY CAUSES

FIGURE 11 RUPTURE-PUNCTURE OF NON-TANK CONTAINERS:
DISTRIBUTION BY HAZARD POTENTIAL CATEGORY

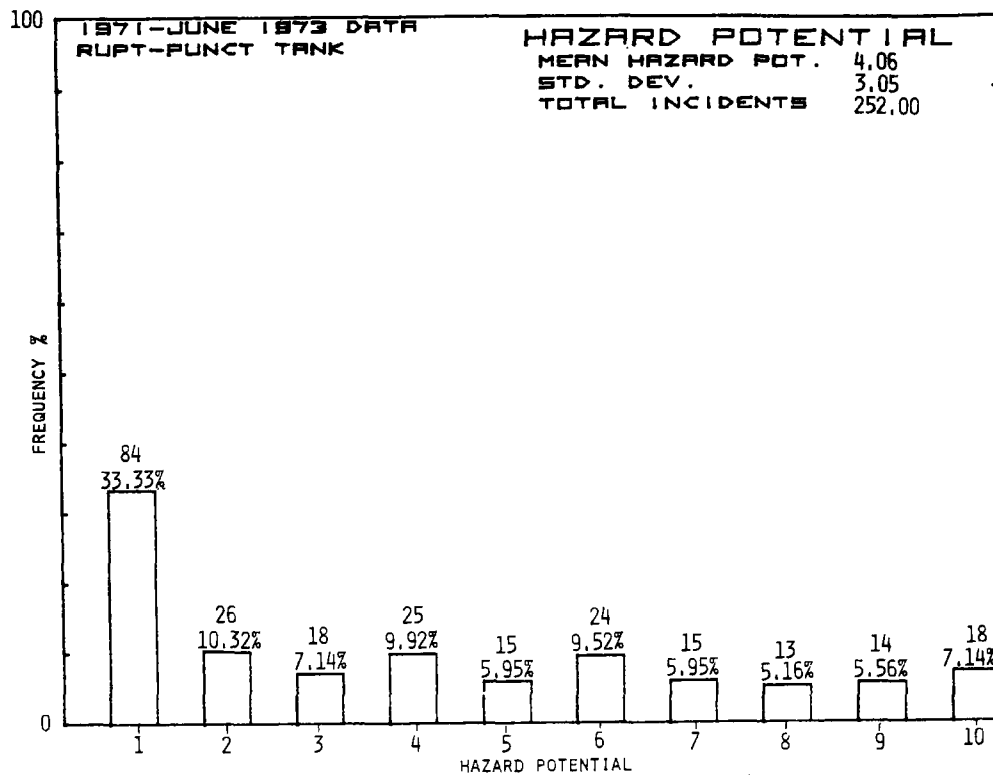


FIGURE 12 RUPTURE-PUNCTURE OF TANKS:
DISTRIBUTION BY HAZARD POTENTIAL CATEGORY

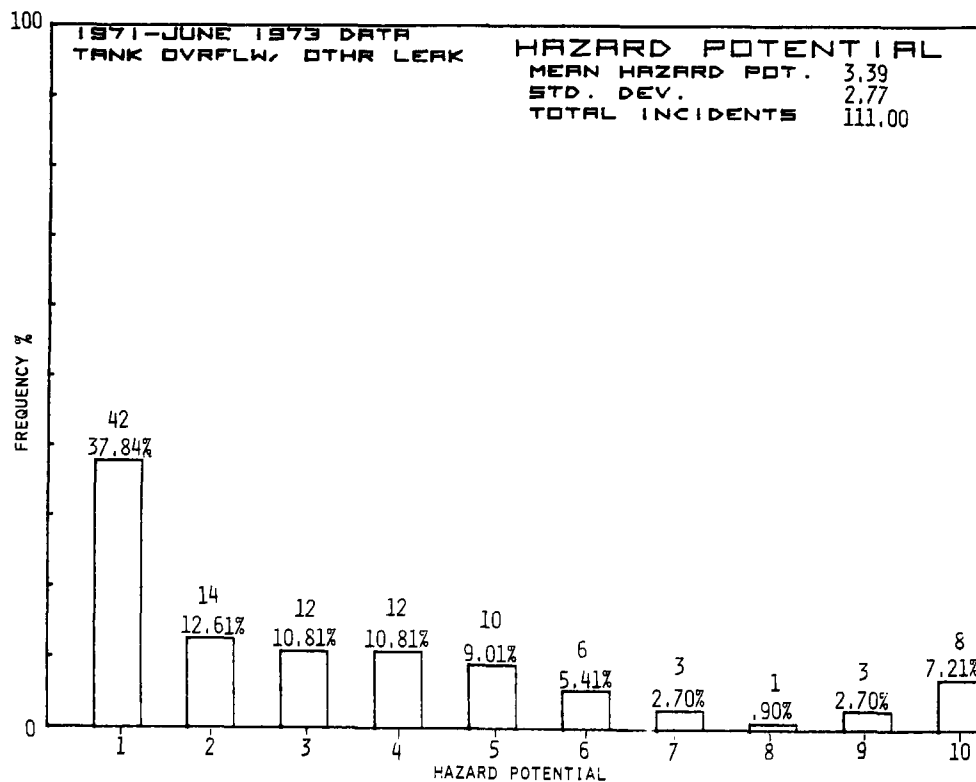


FIGURE 13 TANK OVERFLOW OR OTHER LEAKAGE: DISTRIBUTION
BY HAZARD POTENTIAL CATEGORY

another area or cause. Such statistical treatment will permit the formation of the necessary rankings to aid in the establishment of priorities for future research in spill prevention.

It is well to reiterate that the curves in Figures 15-18 are based on samples of spill incident experience (i.e., spills reported with sufficient detail to allow characterization by cause, operational area and Hazard Potential Category). Bias present in the samples will be reflected in the curves.

Two offsetting biasing influences are recognized: 1) under-reporting of minor incidents indicating a greater percentage of serious incidents than is true; and 2) a small number of hazard potential categories reducing the "weight" of the worst incidents, tending to show a mean less than the true mean and a smaller percentage of serious incidents than is true. The degree to which the distributions are ultimately biased is unknown. However, if the bias is similar among the causes and areas, the validity of comparisons would not be compromised.

It is believed that this is the case for the samples obtained for this study with the possible exception of those representing the areas, In Plant Storage and In Plant Process, and the cause, Tank Overflow/Leakage. As noted in comments on Figures 8 and 9, many incidents in these areas are either not reported or are not classifiable by Hazard Potential Category due to lack of information. It is reasonable to assume that incidents of larger size are more likely to be reported from these areas since they are more likely to result in insurance claims or the involvement of property and waters beyond the plant grounds. It is also reasonable to expect that a greater proportion of small incidents in these areas are excluded than are excluded from other areas thus biasing to some extent the expected value (in terms of Hazard Potential Category) and curves toward indicating greater likelihood of higher Hazard Potential. This expected bias may not affect the rankings stated below but one should recognize the possibility.

The data presented in Figure 15 provide the hazard potential distributions of incidents within individual operational areas while Figure 16 provides the same distributions for individual causes. In order to make comparisons of the relative severity of incidents occurring in different

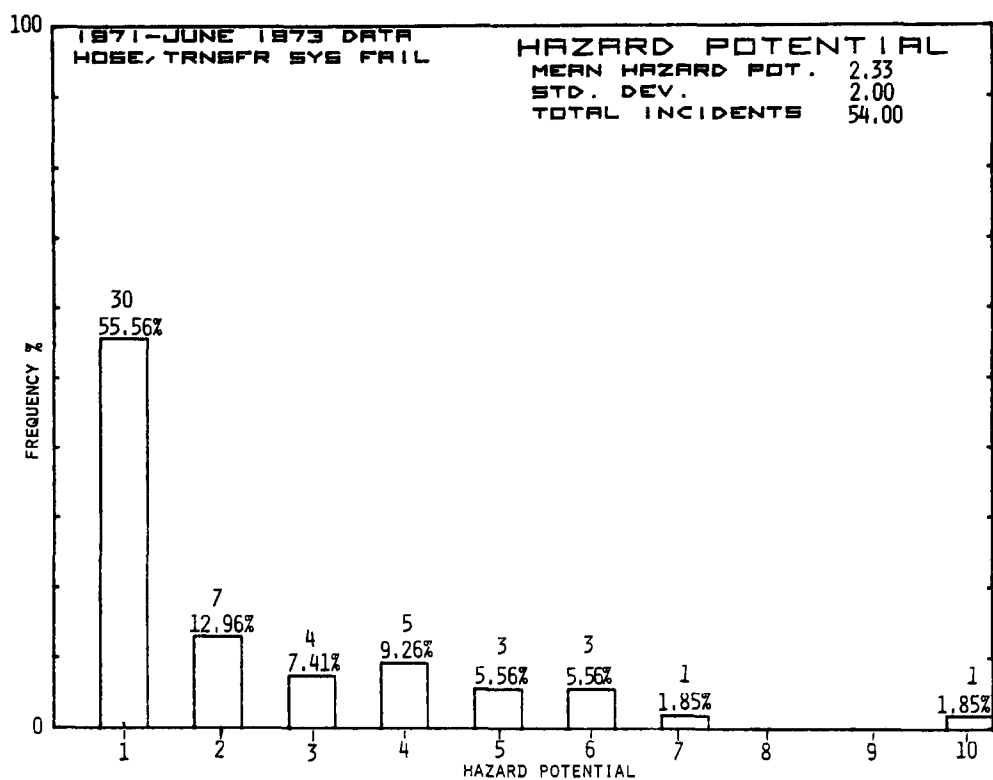


FIGURE 14 HOSE OR OTHER TRANSFER SYSTEM FAILURES: %
 DISTRIBUTION BY HAZARD POTENTIAL CATEGORY

areas or due to different causes, the parameter, α , as shown in equation (3) was calculated from the observed sample data in each case. From this parameter, the particular exponential frequency curve and complement of the distribution curve were generated and plotted using a Hewlett Packard Model 9821A programmable calculator and plotter. This was done for the individual causes and areas as well as for all causes and areas grouped together. The solid line in Figures 15 and 16 represents the grouping of available data for all causes and serves as a reference curve to which the other curves representing individual areas and causes may be compared.

Figures 15 and 16 allow one to read off the probability of a spill incident being of any chosen Hazard Potential Category. Figures 17 and 18 show the probabilities of a spill incident being greater than or equal to any chosen Hazard Potential Category. Examination of these curves shows that, based on reported incidents, spills occurring in the In Plant Storage operational area are more likely to be of the higher hazard potential categories than spills in any other operational area. Other operational areas may be ranked as follows: operational area in which an incident is next most likely to be of the higher hazard potential categories is In Plant Processing followed by In Transit and Loading-Unloading Areas.

Similar examination of the figures with respect to primary causes shows that incidents involving rupture or puncture of bulk tanks are most likely to be of a higher Hazard Potential followed in ranking by incidents involving tank overflow or other leakage. Hose and transfer system failure incidents rank next, while rupture or puncture of non-tank containers is the least likely to be of the higher Hazard Potential categories. Expressed another way, based on the curves in Figure 14 incidents categorized by Hazard Potential, tank rupture or puncture incidents have a .23 probability of being in Hazard Potential Category 6 or higher. Overflow incidents have a .17 probability of being in Hazard Potential Category 6 or higher, while hose and transfer system failure incidents and non-tank rupture or puncture incidents have .08 and .03 probabilities respectively.

Referring to Table 3, relatively few operator injuries and fatalities have been reported among the incidents documented in this study. Many injuries (operator and non-operator) associated with Non-Tank Rupture or

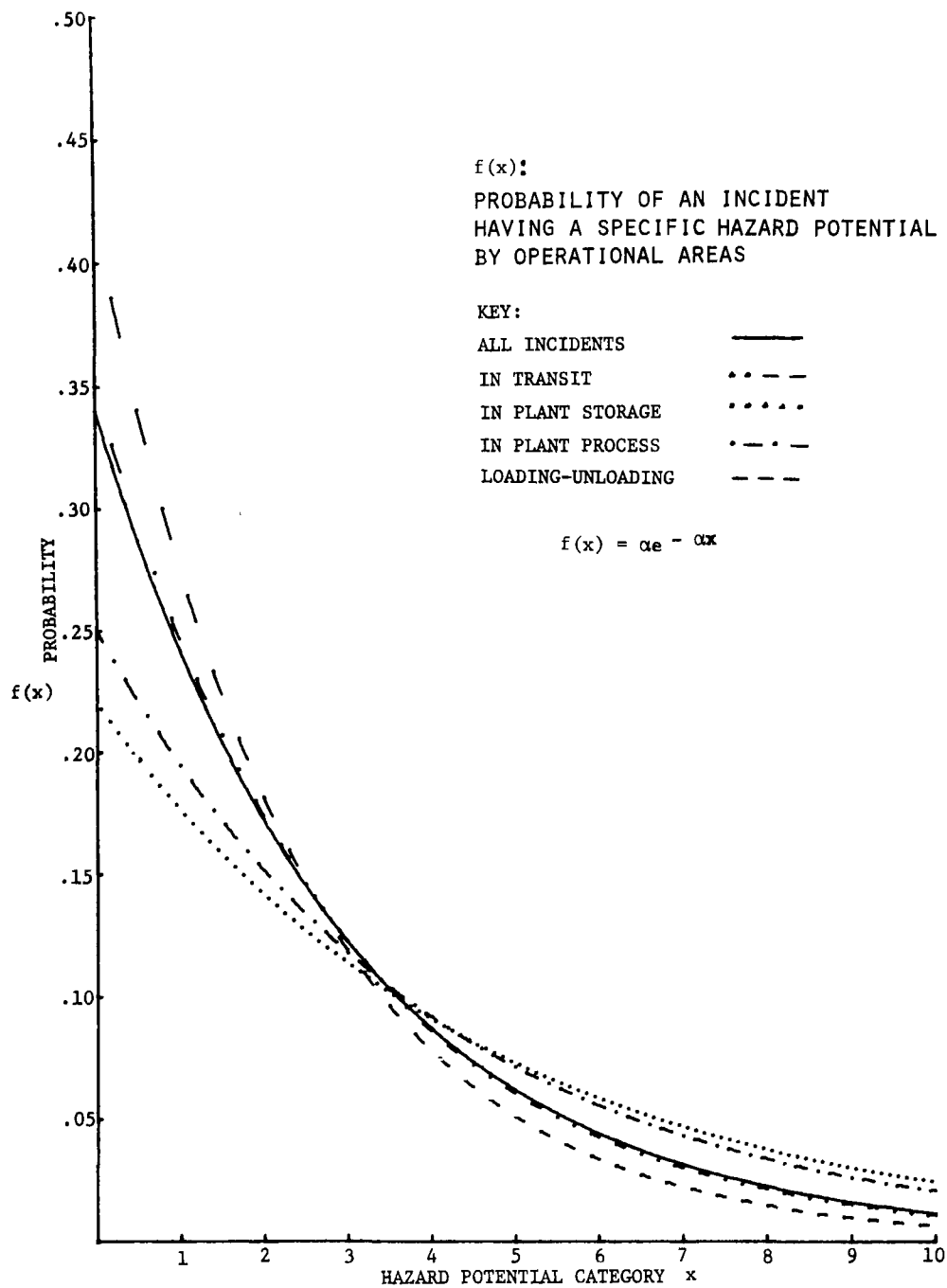


FIGURE 15 FREQUENCY FUNCTIONS FOR OPERATIONAL AREAS

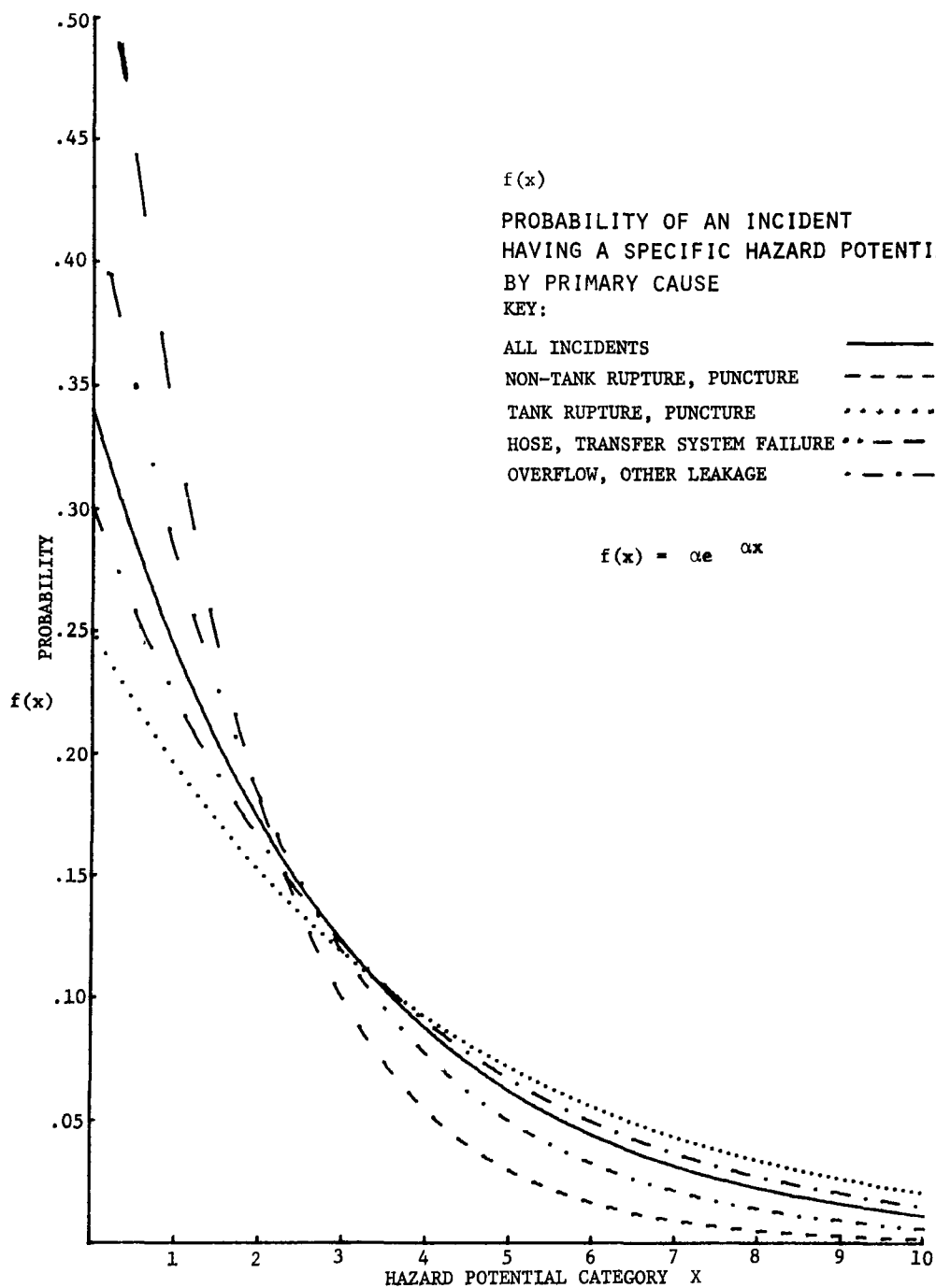


FIGURE 16 FREQUENCY FUNCTIONS FOR PRIMARY CAUSES

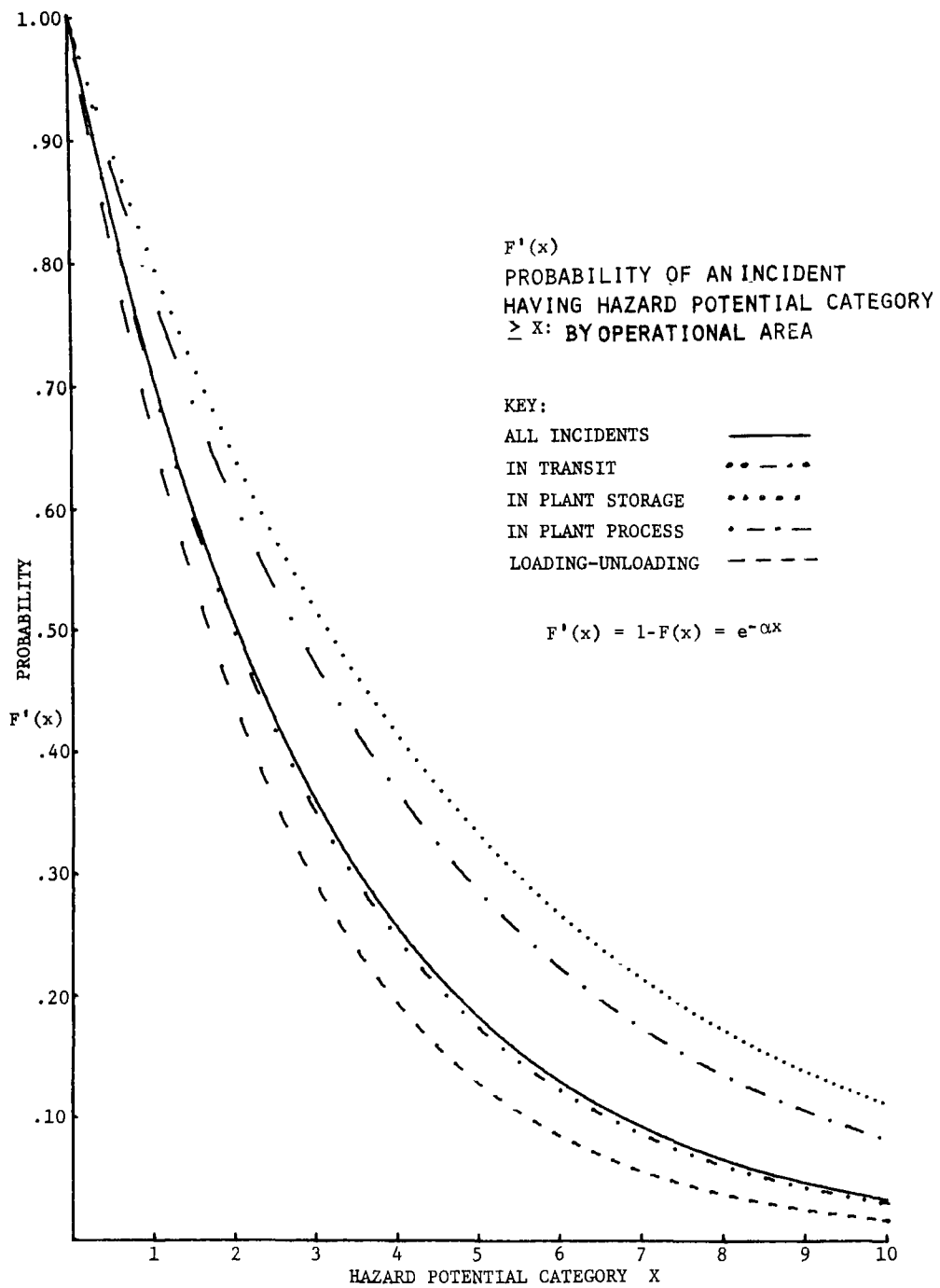


FIGURE 17 COMPLEMENT OF DISTRIBUTION FUNCTIONS FOR OPERATIONAL AREAS

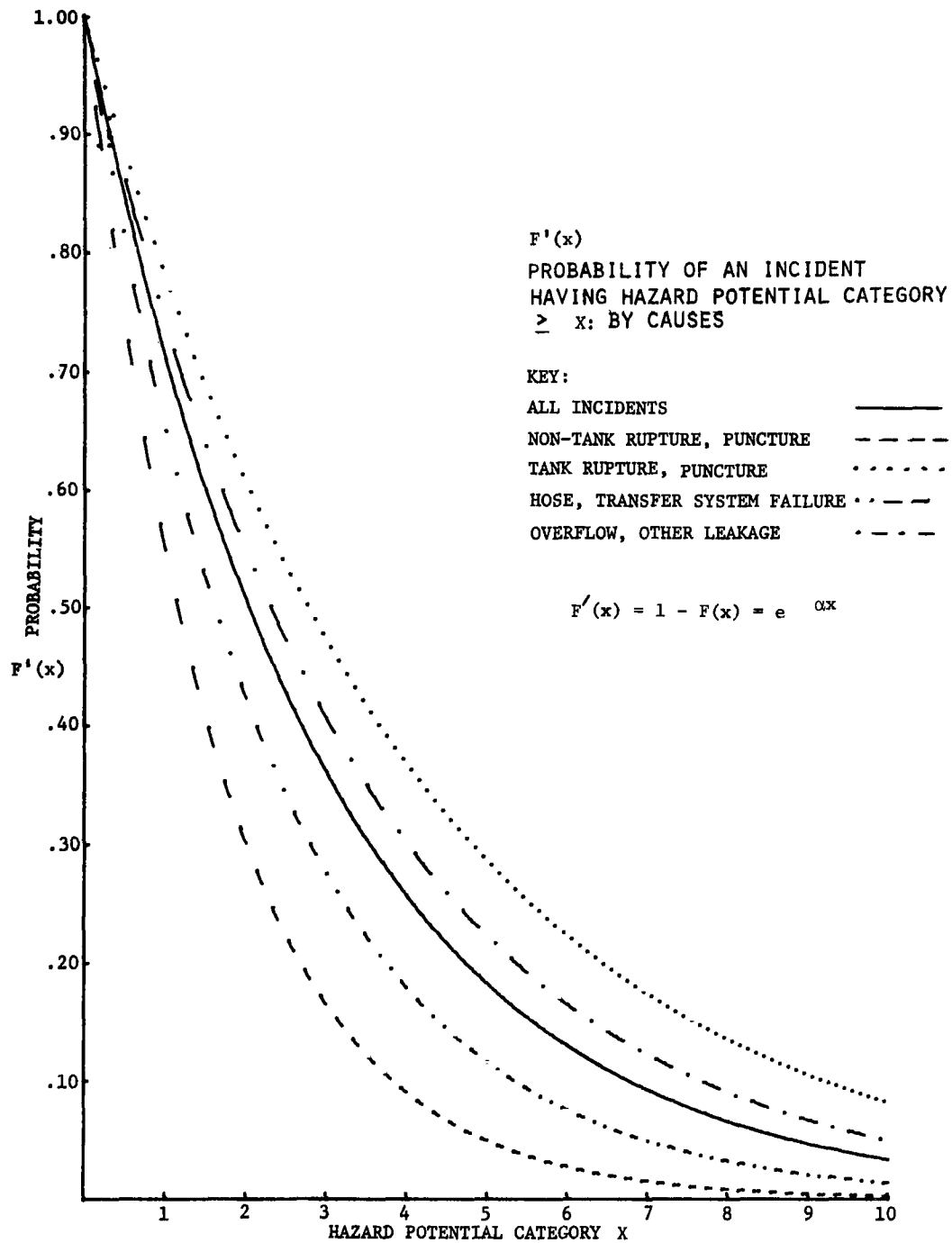


FIGURE 18 COMPLEMENT OF DISTRIBUTION FUNCTIONS FOR PRIMARY CAUSES

Puncture spills were the result of inhalation of vapors by personnel in a loading-unloading area. These were primarily minor injuries where the individuals were taken to a hospital for observation or treatment as a precautionary measure if any effect of the vapors was noticed. In general, actions to minimize the spill were not impaired and the spills were small in size. Most of the injuries associated with Tank Rupture or Puncture spills were sustained by fire-fighting personnel in a single major incident. Seventy-eight percent of the Tank Rupture or Puncture spills involving injury had collision, derailment and/or overturn as a secondary cause while these secondary causes appeared in 54.7 percent of all Tank Rupture-Puncture spills. The prevalence of these secondary causes would indicate that initial injuries were probably not due to the spill but were more likely due to the secondary cause itself.

The number of injuries and fatalities reported is certainly far fewer than those actually occurring in connection with hazardous materials. One may assume that to some extent this is attributable to concern over litigation which could arise as a result of such incidents.

Tables 4 and 5 are constructed from data presented in the report, "California Work Injuries 1972".⁽⁹⁾ These tables represent one year's hazardous material injury experience of a single state. Although it is not possible to document the number of hazardous material spills involved in these injuries, one may assume that some proportion was associated with an unintentional release of a hazardous substance. The number of injuries in the tables is so large in comparison with those associated with documented spill incidents that it seems obvious that spill injuries (and surely, spills in general) are greatly underreported.

Tables 6 and 7 present a complete picture of the appearance of secondary causes as associated with primary causes and Hazard Potential Categories. Without consideration of associated primary causes or Hazard Potential Categories (in effect, horizontally summing Table 6 to obtain total incidence of each secondary cause) secondary causes appearing with significantly high frequency (chosen criteria: more than two sample standard deviations above the sample mean) are Body or Container Failure (appears in 30.3 percent of incidents in Tables 6 and 7), and Sharp Object (18.7 percent). Additional

Table 3 INJURIES AND FATALITIES ASSOCIATED WITH DOCUMENTED HAZARDOUS MATERIALS SPILLS

Table 3 INJURIES AND FATALITIES ASSOCIATED WITH DOCUMENTED HAZARDOUS MATERIALS SPILLS											
<u>Primary Cause</u>	<u>No. of Incidents Reported</u>	<u>Incidents With Operator Injuries</u>		<u>Incidents With Any Injury or Fatality</u>		<u>Total Injuries</u>	<u>Injuries Per Reported Incident</u>	<u>Incidents With Operator Fatalities</u>		<u>Total Fatalities</u>	<u>Fatalities Per Reported Incident</u>
		<u>No.</u>	<u>%</u>	<u>No.</u>	<u>%</u>			<u>No.</u>	<u>%</u>		
Non-Tank Rupture, Puncture	550	23	4.2	29	5.3	81	.147	2	0.4	3	.006
Tank, Rupture, Puncture	317	14	4.4	18	5.7	80	.252	4	1.3	6	.019
Overflow, Other Leakage	216	5	2.3	9	4.1	19	.088	2	0.9	2	.009
Transfer System Failure	92	6	6.5	10	10.9	10	.207	2	2.2	2	.022
Totals and	1175	48	4.1	66	5.6	190	.162	10	0.9	13	.011

Table 4
 DISABLING WORK INJURIES DUE TO CONTACT WITH
 RADIATION, CAUSTIC, TOXIC OR NOXIOUS SUBSTANCE, 1972*

<u>By Detailed Accident Type</u>	<u>Fatalities</u>	<u>Total Injuries</u>
Inhalation	15	1457
Absorption (Skin Contact)	5	4778
Swallowing	2	126
Drowning	11	11
Asphyxiation	2	2
Other Contact	-	2
Totals	35	6376

<u>By Industry</u>	<u>% of Total Injuries</u>
Agriculture	8.5
Mineral Extraction	0.8
Construction	7.0
Manufacturing	34.5
Transportation, Communication and Utilities	5.7
Trade	8.2
Finance, Insurance and Real Estate	0.9
Service	12.2
State and Local Government	22.3

*Source: California Work Injuries 1972, State of California, Agriculture and Services Agencies, Department of Industrial Relations, Division of Labor Statistics and Research, San Francisco, February 1974.⁽⁹⁾

Table 5
DISABLING WORK INVOLVING CHEMICALS,
HOT OR INJURIOUS SUBSTANCES*

<u>Material</u>	<u>Total Injuries</u>	<u>Fatalities</u>
Acids	486	1
Alkalies	378	1
Petroleum Products	230	2
Chlorine	119	1
Gases	91	3
Acetone and other Ketones	68	-
Chemicals, n.e.c.**	572	2
Chemicals--type not stated	250	-
Steam or Hot Water	1,029	3
Hot Fat, Grease	316	2
Asphalt, Tar, Pitch	250	-
Hot or Molten Metal, Slag	193	1
Fire or Flame	146	1
Hot Substances, n.e.c.**	165	-
Radiating Substances or Equipment	781	-
Poisonous Plants	673	-
Dusts	423	4
Foods	347	3
Soap, Detergent, Dishwater	272	-
Smoke, Fumes, n.e.c.**	264	2
Solvents, n.e.c.**	244	-
Cleaning Compounds	242	1
Insecticide, Spray, funigant (except organic phosphates)	215	-
Cement	209	-
Paint, Varnish, Shellac, Lacquer, Enamel	187	-
Fiberglass	125	-
Organic Phosphate Insecticides	122	-
Epoxy Resin	116	-
Drug, Medicine, Cosmetic, n.e.c.**	99	-
Glue, Adhesive	89	-
Smoke Fumes--Welding	60	-
Plaster	55	-
Injurious Substances, n.e.c.**	518	-
Injurious Substances--type not stated	281	-
TOTAL	9615	27

* Source: California Work Injuries 1972, State of California, Agriculture and Services Agencies, Department of Industrial Relations, Division of Labor Statistics and Research, San Francisco, February 1974.⁽⁹⁾

** Not elsewhere classified.

Table 6 NUMBER OF APPEARANCES OF SECONDARY CAUSES BY PRIMARY CAUSE AND HAZARD POTENTIAL CATEGORY

HAZARD POTENTIAL CATEGORIES SECONDARY CAUSES		PRIMARY CAUSES																																											
		Tank Rupture - Puncture											Overflow Other Leakage											Hose, Transfer System Failure											Non-Tank Rupture - Puncture										
		10	9	8	7	6	5	4	3	2	1	U*	10	9	8	7	6	5	4	3	2	1	U	10	9	8	7	6	5	4	3	2	1	U	10	9	8	7	6	5	4	3	2	1	U
UNK(If only 2nd cause)	-	-	-	-	-	-	1	1	1	3	-	3	1	-	1	-	4	3	-	4	5	36	-	-	-	-	1	1	1	-	2	5	6	-	-	-	-	-	-	-	-	-	10	6	
Body,Container Failure	5	1	3	2	8	7	14	4	11	23	28	1	-	-	-	-	-	-	1	-	3	1	-	-	-	-	-	-	-	-	1	-	1	-	1	2	1	1	2	5	7	12	13	11	90
Collision	1	2	3	1	5	3	2	1	5	5	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	1	2	-		
Collision & Overturn	1	1	-	2	-	-	1	1	2	3	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	1	-		
Sharp Object	6	4	5	7	4	6	3	5	3	4	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	6	4	6	1	60	92	
Derailment	5	4	5	6	9	4	2	2	1	13	16	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2		
Derailment & Overturn	5	-	1	-	3	-	1	1	-	3	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	1	1	-		
Loose Cap, Cover	1	-	-	1	1	-	-	3	1	12	1	-	-	-	-	-	-	-	-	-	-	3	-	-	-	-	-	-	-	2	-	1	1	-	-	-	-	1	-	-	-	17	4		
Road, Track Conditions	1	-	-	1	2	1	-	-	1	2	3	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	1	1	1	-	-	-	-	-	-	-	-	-		
Dropped	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	1	-	-	-	1	-	-	1	-	2	2	-	21	21		
Relief Valve Op.	-	1	-	-	-	-	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Hose, Coupling Flre.	-	-	-	-	-	-	1	1	-	1	-	1	-	-	2	-	-	3	3	3	8	-	1	-	1	4	2	1	3	3	21	33	-	-	-	-	-	-	-	-	-	-	-	-	
Open Valve	-	1	-	-	-	1	-	1	2	3	-	1	-	-	1	2	3	-	1	7	4	-	-	-	-	1	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-	
Personnel Error	-	1	1	-	1	2	1	2	2	8	2	-	1	-	-	1	4	4	6	4	21	23	-	-	-	-	1	-	-	1	1	3	5	-	-	1	-	2	-	3	4	3	15	12	
Valve Broken	-	-	2	1	1	-	1	1	4	9	6	-	-	-	-	1	1	-	1	-	5	1	-	-	-	1	-	-	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	
Leaking Cover	1	-	-	1	2	1	2	-	1	11	2	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	1	-	1	-	-		
Overturn	-	-	-	2	4	3	9	1	4	11	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	1	-	3	1			
Flood	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Material Defect	3	1	-	1	1	2	5	2	2	1	1	-	-	-	1	-	-	5	-	1	3	-	-	-	-	-	-	1	-	1	3	2	-	-	-	-	1	14	3	6	4	41	28		
Mechanical Flre.	-	-	-	-	1	-	-	-	1	1	4	-	-	-	1	1	-	2	1	-	5	30	-	-	-	-	2	-	-	-	-	4	1	-	-	-	-	-	-	-	-	1	1		
Improper Handling	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	3	-	4	7		
Forklift	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	1	-	-	2	2	13	9		
Ruptured Pipe	-	-	-	-	-	-	-	-	-	-	2	3	1	-	-	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	5	-	-	-	-	-	-	-	-	-	-		

* U = Unknown Hazard Potential

Table 6 NUMBER OF APPEARANCES OF SECONDARY CAUSES BY PRIMARY CAUSE AND HAZARD POTENTIAL CATEGORY (CONT'D)

		PRIMARY CAUSES																																															
		Tank Rupture - Puncture										Overflow Other Leakage										Hose, Transfer System Failure										Non-Tank Rupture - Puncture																	
HAZARD POTENTIAL CATEGORIES	SECONDARY CAUSES	10	9	8	7	6	5	4	3	2	1	U	10	9	8	7	6	5	4	3	2	1	U	10	9	8	7	6	5	4	3	2	1	U	10	9	8	7	6	5	4	3	2	1	U				
Struck by Vehicle		-	-	-	-	-	-	-	-	-	-	-	3	1	-	-	1	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	
Explosion		1	1	1	1	-	-	1	1	-	-	8	-	1	1	-	-	-	-	-	-	2	4	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	1	-	-	3	5	-	-	-	-	
Lightning		1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	
Fire		1	1	-	-	-	-	-	-	-	1	5	-	1	1	-	-	-	-	-	-	3	15	-	-	-	-	-	-	-	-	-	2	-	-	1	-	-	-	1	-	-	2	10	-	-	-	-	
Vandalism		-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	1	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	5	-	-	-	
Jack Knife		-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Improper Loading		-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	2	4	5	55	70	-	-
Gauge Ms/Defective		-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	1	1	2	4	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chem. Reaction		-	1	1	1	-	-	-	-	-	3	-	-	-	-	-	-	-	-	1	-	1	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	3	-	-	-
Spont. Combustion		-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	1	-	-	-	
Ship Sank		-	-	1	-	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	
Foreign Substance		-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	-	-
Overpressure		-	-	-	-	1	1	1	-	1	6	-	-	-	-	-	-	-	-	-	-	1	-	-	-	1	-	-	-	-	-	-	4	-	-	-	-	-	-	-	-	-	-	2	1	-	-	-	
Defective Weld		-	-	-	-	-	-	-	-	1	3	1	-	-	-	1	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	9	1	-	-	-
Wet Packing		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Intentional Release		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	
Improper Container		-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-
Improper Nozzle		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Sprinkler Discharge		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	-	-	
Excess Temperature		-	-	-	-	-	-	1	-	-	1	-	-	-	-	1	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Control Inoperative		-	-	-	-	-	-	1	-	-	1	-	-	-	-	-	-	-	-	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Valve Shut		-	-	-	-	-	-	-	-	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Wind		-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Electrical Arcing		-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	
Improper Equip. Op.		-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Gasket Failure		-	-	-	-	-	-	-	-	1	2	1	-	-	-	-	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Molten Metal		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Building Collapse		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Snow/Ice Accumulation		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Power Failure		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Vehicle Moved		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	

Table 7 APPEARANCE OF SECONDARY CAUSES AS A PERCENTAGE OF ASSOCIATED PRIMARY CAUSE INCIDENTS:
BY HAZARD POTENTIAL CATEGORY GROUPINGS

HAZARD POTENTIAL CATEGORIES	Tank Rupture - Puncture				Overflow Other Leakage				Hose, Transfer System Failure				Non-Tank Rupture - Puncture			
	% of 317 Incidents				% of 216 Incidents				% of 92 Incidents				% of 550 Incidents			
SECONDARY CAUSES	HPC 10-6	HPC 5-1	U*	Total	HPC 10-6	HPC 5-1	U*	Total	HPC 10-6	HPC 5-1	U*	Total	HPC 10-6	HPC 5-1	U*	Total
UNK(If only 2nd Cause)	-	1.9	-	1.9	2.3	7.4	16.7	26.4	1.1	9.8	6.5	17.4	-	1.8	1.1	2.9
Body, Container Failure	6.0	18.6	8.8	33.4	0.5	0.9	0.5	1.9	-	1.1	-	1.1	1.3	26.7	16.4	44.5
Collision	3.8	5.0	2.2	11.0	-	-	-	-	-	1.1	-	1.1	-	0.5	-	0.5
Collision & Overturn	1.3	2.2	1.5	5.0	-	-	-	-	-	-	-	-	0.2	0.2	-	0.4
Sharp Object	8.2	6.6	0.6	15.5	-	-	-	-	-	-	-	-	0.4	14.0	16.7	31.1
Derailment	9.2	6.9	5.0	21.1	-	0.9	-	0.9	-	-	-	-	-	-	0.4	0.4
Derailment & Overturn	2.8	1.6	0.3	4.7	-	-	-	-	-	1.1	1.1	2.2	-	0.4	-	0.4
Loose Cap, Cover	1.0	5.0	0.3	6.3	-	1.4	-	1.4	-	3.3	1.1	4.3	-	3.3	0.7	4.0
Road, Track Conditions	1.3	1.3	0.9	3.5	-	-	-	-	-	2.1	1.1	3.3	-	-	-	-
Dropped	-	-	0.3	0.3	-	-	0.9	0.9	-	1.1	-	1.1	0.4	4.4	3.8	8.7
Relief Valve Op.	0.3	0.3	0.3	0.9	-	-	-	-	-	-	-	-	-	-	-	-
Hose, Coupling Flre.	-	0.9	-	0.9	1.4	4.2	3.7	9.3	6.5	32.6	35.9	75.0	-	-	-	-
Open Valve	0.3	2.2	-	2.5	0.9	6.5	1.8	9.3	1.1	1.1	1.1	3.3	-	-	-	-
Personnel Error	1.0	4.7	0.6	6.3	0.9	18.1	10.6	29.6	1.1	5.4	5.4	12.0	0.5	4.5	2.2	7.3
Valve Broken	1.3	4.7	1.8	7.9	0.5	3.2	0.5	4.2	1.1	2.2	-	3.3	-	-	-	-
Leaking Cover	1.3	4.7	0.6	6.6	-	0.5	-	0.5	-	1.1	-	1.1	-	0.4	-	0.4
Overturn	1.9	8.8	2.2	12.9	-	-	-	-	-	-	-	-	-	1.1	0.2	1.3
Flood	0.3	-	-	0.3	-	-	0.9	0.9	-	-	-	-	-	-	-	-
Material Defect	1.9	5.7	0.3	7.9	0.5	2.8	1.4	4.6	-	5.4	2.2	7.6	0.2	10.0	5.1	15.3
Mechanical Fire	0.3	0.6	1.2	2.2	0.9	3.7	13.9	18.5	2.2	4.3	1.1	7.6	-	0.2	0.2	0.4
Improper Handling	-	-	-	-	-	-	-	-	-	-	-	-	0.2	1.3	1.3	2.7
Forklift	-	-	-	-	-	-	-	-	-	-	1.1	1.1	0.2	3.1	1.6	4.9
Ruptured Pipe	-	-	0.6	0.6	2.3	-	0.5	2.8	-	-	5.4	5.4	-	-	-	-

*U = Unknown Hazard Potential

Table 7 APPEARANCE OF SECONDARY CAUSES AS A PERCENTAGE OF ASSOCIATED PRIMARY CAUSE INCIDENTS:
BY HAZARD POTENTIAL CATEGORY GROUPINGS (CONT'D)

HAZARD POTENTIAL CATEGORIES	Tank Rupture - Puncture				Overflow Other Leakage				Hose, Transfer System Failure				Non-Tank Rupture - Puncture			
	% of 317 Incidents				% of 216 Incidents				% of 92 Incidents				% of 550 Incidents			
SECONDARY CAUSES	HPC 10-6	HPC 5-1	U*	Total	HPC 10-6	HPC 5-1	U*	Total	HPC 10-6	HPC 5-1	U*	Total	HPC 10-6	HPC 5-1	U*	Total
Struck by Vehicle	-	-	-	-	1.8	-	0.5	2.3	-	-	-	-	0.2	-	-	0.2
Explosion	1.3	0.6	2.5	4.4	0.9	0.9	1.8	3.7	-	-	1.1	1.1	-	0.7	0.9	1.6
Lightning	0.3	-	-	0.3	-	-	-	-	-	-	-	-	-	-	0.2	0.2
Fire	0.6	0.3	1.5	2.5	0.9	1.4	6.9	9.3	-	-	2.2	2.2	0.2	0.5	1.8	2.5
Vandalism	-	-	-	-	0.9	-	0.5	1.4	-	-	-	-	-	0.2	0.9	1.1
Jack Knife	-	-	0.3	0.3	-	-	-	-	-	-	-	-	-	-	-	-
Improper Loading	-	0.3	-	0.3	-	0.5	-	0.5	-	-	-	-	-	12.7	12.7	25.5
Gauge Ms/Defective	-	-	-	-	0.5	3.7	1.8	6.0	-	-	-	-	-	-	-	-
Chem. Reaction	0.9	-	0.9	1.9	-	0.9	2.3	3.2	-	-	-	-	-	0.4	0.5	0.9
Spont. Combustion	-	-	0.3	0.3	-	-	-	-	-	-	-	-	0.2	-	0.2	0.4
Ship Sank	0.6	-	-	0.6	-	-	0.9	0.9	-	-	-	-	-	-	0.2	0.2
Foreign Substance	0.3	-	-	0.3	-	-	5.1	5.1	-	2.2	-	2.2	-	0.2	0.2	0.5
Overpressure	-	1.3	1.8	3.2	-	-	0.5	0.5	1.1	-	4.3	5.4	-	0.4	0.2	0.5
Defective Weld	-	1.9	0.3	2.2	0.5	-	0.9	1.4	-	-	-	-	-	2.0	0.2	2.2
Wet Packing	-	-	-	-	-	-	-	-	-	-	-	-	-	0.5	1.3	1.8
Intentional Release	-	-	-	-	-	0.5	5.1	5.6	-	-	-	-	-	0.2	-	0.2
Improper Container	-	-	0.3	0.3	-	-	0.5	0.5	-	-	-	-	-	0.4	-	0.4
Improper Nozzle	-	-	-	-	-	-	-	-	-	-	1.1	1.1	-	-	-	-
Sprinkler Discharge	-	-	-	-	-	-	6.9	6.9	-	-	-	-	-	-	0.9	0.9
Excess Temperature	-	0.3	0.3	0.6	-	0.5	0.5	0.9	-	-	-	-	-	-	-	-
Control Inoperative	-	0.3	0.3	0.6	-	1.4	-	1.4	-	-	-	-	-	-	-	-
Valve Shut	-	0.3	0.3	0.6	-	-	-	-	-	-	-	-	-	-	-	-
Wind	-	-	0.3	0.3	-	-	-	-	-	-	-	-	-	-	-	-
Electrical Arcing	-	-	0.3	0.3	-	-	0.5	0.5	-	-	-	-	-	0.2	-	0.2
Improper Equip. Op.	-	-	0.3	0.3	-	0.5	0.5	0.9	-	-	-	-	-	-	-	-
Gasket Failure	-	0.9	0.3	1.3	-	0.5	0.5	0.9	-	-	-	-	-	-	-	-
Molten Metal	-	-	-	-	-	-	0.5	0.5	-	-	1.1	1.1	-	-	-	-
Building Collapse	-	-	-	-	-	-	-	-	-	-	1.1	1.1	-	-	-	-
Snow/Ice Accumulation	-	-	-	-	-	-	-	-	-	-	1.1	1.1	-	-	-	-
Power Failure	-	-	-	-	-	-	0.5	0.5	-	-	-	-	-	-	-	-
Vehicle Moved	-	-	-	-	-	-	-	-	-	1.1	1.1	2.2	-	-	-	-

individual secondary causes which do not meet the chosen criteria yet which do appear frequently (over 10 percent) are Improper Loading (12 percent), Personnel Error (11.5 percent), and Material Defect (10.6 percent). Taken as a group the mutually exclusive, and thus additive, causes: Collision; Collision and Overturn; Derailment; Derailment and Overturn; and Overturn appear in 16.5 percent of the incidents although none are over 10 percent.

Considering only incidents with Hazard Potential Category 6 or greater, the secondary causes Body or Container Failure (18.5 percent); Sharp Object (19.0 percent) and Derailment (19.7 percent) appear to be of significantly high frequency. The secondary causes grouped above, including the individually significant cause Derailment, appear in 41.5 percent of the incidents under consideration.

Body or Container Failure, Sharp Object, and Derailment have significantly high frequency of appearance when considering the primary cause Tank Rupture or Puncture both in general and for incidents with Hazard Potential Categories 6 or greater. The group of secondary causes referred to above appear in 54.7 percent of Tank rupture or puncture incidents (Collision (11.0 percent), Collision and Overturn (5 percent), Derailment (21.1 percent), Derailment and Overturn (4.7 percent), Overturn (12 percent)). The secondary causes Loose Cover, Leaking Cover and Valve Broken appear in approximately 20 percent of Tank Rupture or Puncture incidents, often associated with derailment, collision and/or overturn. This may indicate a need for improved crash protection for valves and covers on transport tanks.

For the primary cause Non-Tank Rupture or Puncture, Improper Loading (25.5 percent) is added to Sharp Object (31.1 percent) and the more general Body or Container Failure (44.5 percent) as a significantly high-frequency secondary cause. The grouped collision-derailment-overturn secondary causes in total appear in only 3 percent of these incidents. Only Body or Container Failure is significantly high in frequency for Non-Tank Rupture or Puncture incidents with Hazard Potential Category 6 or greater.

The secondary causes which are significantly high in frequency both overall and for the preceding two primary causes appear with less than average frequency when considering the primary causes "Tank Overflow" and "Transfer System Failure".

Taking the primary cause "Overflow" alone, the secondary causes which appear with significantly high frequency are Personnel Error (29.6 percent), Unknown Secondary Cause (i.e., only the primary cause and no secondary cause could be determined) (26.4 percent), and Mechanical Failure (18.5 percent). Additional secondary causes which were sometimes used in conjunction with Personnel Error and Mechanical Failure to describe the incident but were not of significantly high frequency include Hose, Coupling Failure (9.3 percent), Open Valve (9.3 percent), Gauge Missing or Defective (6.0 percent), Intentional Release (5.6 percent), Foreign Substance (5.1 percent) and Material Defect (4.6 percent).

It should be noted that in analyzing and recording individual incidents a conscious effort was made to avoid overuse of "Personnel Error" as a secondary cause. In general, if "Personnel Error" was to be cited, the error had to be obviously and directly related to the spill. For example, leaving a tank unattended while filling allowing it to overflow would be "Personnel Error." An equipment failure which might have been avoided with proper checking and maintenance was not generally cited as "Personnel Error". Nevertheless, this secondary cause appeared in 29.6 percent of "Overflow" incidents. "Gauge Missing or Defective" appeared in 6.0 percent.

The frequent appearance of these two causes indicates a high degree of "preventability". Further research in this area could have high potential for preventing spills. Reliable, readily available gauge, and/or gauge-control interaction systems to reduce the incidence of hazardous material spills is one direction which such research could take.

The secondary cause "Unknown" appears with significantly high frequency only for Overflow incidents. This factor highlights the lack of complete reports available for this primary cause in particular and for "In Plant" incidents in general.

Considering "Tank Overflow and Other Leakage" incidents with Hazard Potential Category 6 or higher, secondary causes which appear with significantly high frequency are "Unknown" (23.8 percent), "Ruptured Pipe" (23.8 percent), and "Struck by Vehicle" (19.0 percent). The number of appearances which correspond to these causes are, respectively, five, five and four. The causes "Ruptured Pipe" and "Struck by Vehicle" are used together in describing several of these incidents.

For the primary cause "Hose, Transfer System Failure", the secondary cause "Hose or Coupling Failure" appears with significantly high frequency (75.0 percent) both in general and for incidents with Hazard Potential Category 6 and higher. No other secondary causes met the criteria for being considered significantly high in frequency; however, the most frequent of the other secondary causes are "Unknown" (17.4 percent), "Personnel Error" (12.0 percent), "Material Defect" (7.6 percent), and "Mechanical Failure" (7.6 percent).

Frequency distributions were examined for trends and possible numerical projection of future spill experience. Appendix C contains distributions for the time periods 1971, 1972, and January through June 1973; and for the following parameters:

- 1) Class of Material Spilled;
- 2) Spills in Operational Areas, by Hazard Potential; and
- 3) Primary Cause of Spills, by Hazard Potential.

Distributions for shorter time periods (3 months and 6 months) were also examined. No significant trends were apparent in terms of changes in the percentage distributions of spill incidents. For Class of Material Spilled, the distributions are very similar for the three time periods. The general numerical increase in reported spills over this period of time is probably due more to increased awareness of and compliance with requirements for reporting than to increased incidence of hazardous material spills. Since the data were collected for a very limited period of time and since this "learning curve" phenomenon of increased industry reporting is an indeterminate factor at this time, it was felt that no reliable projection for future spill experience could be made. It is expected, however, that the number of spills reported and included in the data collected for this report is but a small fraction of the number of hazardous material spills that have actually occurred.

Based on the analysis of data and technical judgment of the most productive areas for future research in spill prevention, the following is a prioritized list of spill causes for such research:

<u>Primary Cause</u>	<u>Associated Secondary Cause</u>
1. Tank Overflow	Personnel Error, Gauge Missing or Defective, Mechanical Defect.
2. Tank Rupture or Puncture	Loose Cover, Leaking Cover, Valve Broken, Derailment, Collision and/or Overturn.
3. Hose, Transfer System Failure	Hose or Coupling Failure, Personnel Error, Mechanical Failure, Material Defect.
4. Non-Tank Rupture or Puncture	Body or Container Failure, Sharp Object, Improper Loading.

SECTION VII

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APPENDIX A

DATA HANDLING PROGRAM
FOR
EPA SPILL INCIDENTS

The Fortran computer program contained in this appendix was employed to manipulate the data collected from the various agencies and information sources. Each spill incident is entered onto a computer card (Figure A3) by the use of several numerical fields each containing relevant information about the incident. The coding guides (Figure A2) for information contained in these fields are also included in this appendix. These incident cards are manipulated through the use of program sorting cards. The common characteristics desired for a particular print-out are entered on this sorting card which in turn selects the incidents containing these requirements and prints out the relevant information on each incident. Using these sorting cards, incidents can be grouped according to date, primary and/or secondary causes, hazard potential, etc. or any combinations of these parameters. This provides a most effective tool for data analysis.

Some spills have been entered in the data base more than once, because they were multiple spill incidents or because reports were obtained from different sources. These entries have been accounted for, and have not distorted the tabulations and data analysis.

A Master Materials List (Table A1) is included in this Appendix to show the coding and abbreviation used for various materials reported spilled. The material name included in the data is the one which was actually reported, although the coding may identify the material under several common and chemical names. Thus, sorting for hydrochloric acid spills will provide all such incidents whether reported as hydrochloric or muriatic acid.

FACTORY MUTUAL RESEARCH CORPORATION

FMRC Serial No. 22405

1. Source(s) of Information: _____
 2. Date: _____ 3. Time: _____
 4. Site: _____ 5. Weather: _____
 6. Injuries/fatalities: operating personnel _____ / _____ ; others _____ / _____
 7. Occupancy: _____ 8. Fire/explosion: _____
 9. Operational Area: _____
 10. Equipment involved: _____
 11. Material involved: _____
 12. Quantity spilled and rate: _____
 13. Packaging: _____
 14. Value of material spilled: _____ 15. Damage: _____
 16. Est. environmental damage: _____
 17. Cost of clean up: _____ 18. Type(s) of and proximity to watercourses: _____
- _____
19. Hazard potential: _____
20. Cause(s): _____
- _____
- 21 Narrative: _____
- _____
- _____
- _____
- _____
22. Major factor(s) in extent of incident: _____
- _____
- _____
23. Remarks: _____
- _____
- _____
- _____
- _____
- _____

FIGURE A-1 DOCUMENTATION REPORT SHEET

FIGURE A-2 SPILL INCIDENT CARD

1		5		6		7		10		15		20		25		30		35		40		45		50		55		60		65		70		72																															
Date		Year		Month		Day		Primary Cause		Secondary Cause		Operational Area		Material Class		Hazard Potential		Material Name		Quantity Ident.		Quantity Range Exp.		Quantity		Container		Equipment		Material		Cost of Clean-Up Range Exponent		Cost of Clean-Up		Cost of Damage Range Exponent		Cost of Damage		Operator Fatalities		Other Fatalities		Operator Injuries		Other Injuries		Relative Hazard Level		Other Equipment		State		City		Name of Material		Open (Possibly Region)		Other Material		Subsecondary Cause #1		Subsecondary Cause #2	

(see Section IV, Figure 1 for Documentation
Report Sheet of This Incident)

[illegible]

FIGURE A-4 PROGRAM CARD FOR SORTING INCIDENTS

	1	5	6	7	10	15	20	25	30	35	40	45	50	55	60	65	70	75
Information Source																		
Year																		
Month																		
Day																		
1st Date																		
2nd Date																		
Year																		
Month																		
Day																		
Primary Cause																		
Secondary Cause																		
Operational Area																		
Material Class																		
Hazard Potential																		
Name of Material (# assigned)																		
Quantity ID																		
Quantity Range (Exponent)																		
Quantity (2 Significant Digits)																		
Container																		
Equipment																		
Waterway																		
Cost of Clean-Up Exponent 10x																		
Cost of Clean-Up																		
Cost of Damage Exponent 10x																		
Cost of Damage																		
Operator Fatalities																		
Other Fatalities																		
Operator Injuries																		
Other Injuries																		
Relative Hazard Level																		
Other Equipment																		
Open																		
Other Material																		
Subsecondary Cause #1																		
Subsecondary Cause #2																		
State or Region																		
Data																		
Also Continued																		
on the Following																		
Card																		

Form No 335 Stand./Lab. Sept. 1965 Printed in U.S.A.

ENCODING INFORMATION

Code	Information Sources (ISR (J), JSR (I)) Cols. 1, 2
01	Dept. of Transportation - H.M.I.
02	U. S. Coast Guard
03	Factory Mutual
04	Mass Dept. of Natural Resources
05	Md. Water Quality Control Comm.
06	Environmental Protection Agency
07	Office of Pipeline Safety
08	A.E.C. - N.S.I.C.
09	New York Times

PRIMARY SPILL CAUSES

(IPC (J), JPC (I))

Cols. 9, 10

<u>Code</u>	<u>Description</u>
01	Non-Tank Rupture, Puncture other failure (includes bulk carriers other than Tank).
02	Tank Failure (any breach in the Tanks integrity including leaking dome covers, safety valves-vents, broken valves; but not including failures of Transfer Systems.)
03	Hose or Transfer System Failure
04	Tank overflow or other leakage including valves left open
09	Other

SECONDARY SPILL CAUSES

(ISC (J), JSC (I))

Cols. 11, 12, 69, 70, 71, 72

(May also be Primary)

<u>Code</u>	<u>Description</u>	<u>Code</u>	<u>Description</u>
10	Dropped in handling	31	Gauge lacking or inoperative
11	Puncture by foreign object (nail, etc.) Including other freight	32	Mechanical failure of equipment
12	Puncture by fork lift	33	Operator error
13	Loose caps, covers, fittings	34	Wet packaging (i.e., weakened)
14	Gasket failure	99	Unknown
15	Material defect, fatigue, Corrosion - rust	35	Jackknife
16	Overpressure	36	Road conditions or rail cond.
17	Collision	37	Body side failure if vehicle or RR car, or side failure if container
18	Collision and overturn	38	Brakes failed
19	Derailment	39	Container failure
20	Derailment and overturn	40	Improper handling
21	Overturn	41	Improper container or materials
22	Leaking dome cover, safety vent, etc.	42	Vehicle moved while loading-unloading
23	Faulty or improper nozzle	43	Intentional release
24	Hose, pipe, hose coupling or conn. failure	44	Defective welding or weld failure
25	Valve left partially or fully open	45	Barge-ship sank, shipwreck or grounding
26	Valve or vent shut when should be open	46	Ruptured pipeline
27	Valve broken (collision or mec. failure)	47	Explosion
28	Unsecured freight, improper loading	48	Spk-system discharged or fire-fighter hose streams
29	Relief valve operated	49	Power failure
30	Vandalism	50	Roof collapse or bld. collapse
		51	Snow and ice accumulation
		52	Flood
		53	Fire

SECONDARY SPILL CAUSES (Continued)

(ISC (J), JSC (I))

(May also be Primary)

<u>Code</u>	<u>Description</u>
54	Cutting or welding equip.
55	Molten metal spill or leakage
56	Electrical arcing or sparks
57	Spontaneous combustion
58	Struck by vehicle or excavating equip.
59	Chemical reaction
60	Normal operation
61	Hazardous materials allowed to collect in trench
63	Lightning
64	Wind
65	Accidental or improper start-up of equip., improper operation
66	Excess temperature
67	Control device lacking or inoperative (temp., pressure, etc.)
69	Foreign substance or water introduced into material

CLASSIFICATION CODE
(ICLAS (J), JCLAS (I))

Cols 14, 15

01	A	Corrosive Liquid
02	B	Poison
03	C	Flammable Liquid
04	D	Flammable Solid
05	E	Corrosive Material
06	F	Oxidizing Material
07	G	Radioactive
99	H	Other-Unknown

DETERMINING HAZARD POTENTIAL (HP)
FROM
QUANTITY SPILLED AND RELATIVE HAZARD LEVEL
[IHAZ(J), JHAZ(J)]
Cols. 16, 17

Quantity of Material Spilled (1 or kg)					
Hazard Potential (HP)	Relative Hazard Level (RHL)				
Category	1	2	3	4	5
1.	7,500	2,500	500	50	5
2.	19,000	6,500	1,300	130	13
3.	38,000	12,500	2,500	250	25
4.	75,000	25,000	5,000	500	50
5.	150,000	50,000	10,000	1,000	100
6.	380,000	125,000	25,000	2,500	250
7.	750,000	250,000	50,000	5,000	500
8.	1,500,000	500,000	100,000	10,000	1,000
9.	3,800,000	1,250,000	250,000	25,000	2,500
10.	>3,800,000	>1,250,000	>250,000	>25,000	>2,500

When Relative Hazard Level (RHL) is known and quantity is unknown, enter Hazard Potential (HP) = 99

When RHL is unknown enter RHL=9, and HP=99

When RHL is unknown and there is possible biochemical oxygen demand (BOD), enter RHL=6, and HP=99.

To select the HP category, read down the RHL column appropriate for the material spilled, to the first quantity entry larger than the spilled quantity. That determines the HP row. Read the HP category at the left of the row.

For example: 10,000 liters of a material with RHL 2 are spilled. Reading down the RHL 2 column, the first entry larger than 10,000 is 12,500. Reading across the row to the left, the HP category is 3.

ENCODING INFORMATION

Container		Equipment	
Code	[ICONT(J), JCONT(I)] Cols. 25, 26	Code	[IEQUP(J), JEQUP(I)] Cols. 27,28,43,44
01	Steel drum	01	Fork lift or tow motor
02	Paper bags	02	Transfer hose
03	Tank car - RR	03	Box car - RR
04	Tank trailer	04	Storage tank
05	Plastic bag	05	Trailer truck
06	Plastic lined fibre drum	06	Van truck
07	Pails-steel, cans	07	2 Wheel barrel wheeler
08	Pails-plastic	08	Flat car - RR
09	Glass bottles	09	Wood pallets
10	Plastic drums	10	Cargo lift (presume crane)
11	S. S. carboy	11	Furnace-melting
12	Glass carboy	12	Log stacker
13	Plastic bottles in cardboard ctns.	13	Welding equip
14	Glass bottles in cardboard ctns.	14	Front end loader
15	Bulk trailer	15	Electro cutting machine
16	Bulk R.R. car	16	Drum filling machinery
17	Cardboard drum	17	Reactor
18	Pipeline	18	Sprinkler system
19	Bags in cardboard cont.	19	Floor drain
20	Settling pond, lagoons	20	Paint spray equip
21	L. P. gas cylinders	21	Hot water heater
22	River barge - Tank	22	Electrostatic precipitator
23	River barge - Bulk	23	Conveyor
24	Plastic bottles	24	Batteries

ENCODING INFORMATION (Continued)

Code Container		Code Equipment	
25	Deldrum	25	Circulating pumps
26	55-gal. polyethylene lined drums	26	Gas expander
27	Fibreboard boxes	27	Dip trough
99	Unknown	28	Drying tower
28	Portable tanks	29	Hand truck
29	Storage tank	30	Bulldozer
30	Rubber containers	31	Air compressor
31	Dip tank	32	Strip heater
32	Plastic carboy	33	Asphalt coating machinery
33	Ship	34	Cooling tower
34	Barrel 42 gal.	35	Crane
35	Transformer	36	Valve
36	Boiler	37	Transformer
37	Trench	38	Portable steam hose
38	Cooking or (large) mixing tank	39	Deck plate
39	Drying tower	40	R. R. track switch
40	Industrial machinery	41	Freighter, ship
41	Sludge dryer	42	Diesel eng.
42	Storage Batteries	43	Air craft
43	Outside drum storages	44	Loading & unloading equip. for bulk cargos
		45	Refrigeration & heating system
		46	Excavating equip.
		47	Threading machine
		48	Evaporator
		49	Pump
		50	Rolling mill (Hot & Cold)
		51	Asphalt still
		52	Firefighter's hose streams

RELATIVE HAZARD LEVEL (RHL)
[ISPA(J), JSPAC(I)]
Col. 42

RHL Code	LD50	Inhalation
1	5,000 mg/kg	16,000 ppm
2	1,000-5,000 mg/kg	3,000-16,000 ppm
3	100-999 mg/kg	1,000-3,000 ppm
4	11-99 mg/kg	250-1,000 ppm
5	≤10 mg/kg	250 ppm
9	Unknown	
6	Possible B O D	

Material Indent. - When material is unknown enter 999

OPERATIONAL AREAS
[IAR(J), JAR(I)]
Col. 13

Code	Description
1	Loading and unloading
2	In Transit
3	In Plant - Storage (incl. outside storage but excluding wastes)
4	In Plant - In Process
5	Waste Storage or disposal areas incl. settling ponds, material dumps, bulk waste piles, but excluding materials being used in plant production.

OTHER MATERIALS
[IOM(J), JOM(I)]
Col. 68

- Ø = No other haz. material spilled
- 1 = One other haz. material spilled
- 2 = Two other haz. material spilled
- 3 = Three other haz. material spilled
- 4 = For other haz. material spilled

WATER WAY
[IWTR(J), JWTR(I)]
Col. 29

- 1 Entered by Material
- 2 Not entered by Material
- 3 Unknown

QUANTITY SPILLED

Unit of Measure [IQD(J), JQD(I)] Col. 21	Quantity Range [IQX(J), JQX(I)] Col. 22	2 Significant Digits IQUN(J), JQUN(I)] Col. 23, 24
--	---	--

Ø = 0	Ø = 0-99	Ø1-99
1 = Liters	1 = 100-990	10-99
2 = Kilograms	2 = 1000-9900	10-99
9 = Unknown	3 = 10,000-99,000	10-99
	4 = 100,000-990,000	10-99
	5 = 1,000,000-9,900,000	10-99
	6 = 10,000,000-99,000,000	10-99
	7 = 100,000,000-990,000,000	10-99
	8 = 1,000,000,000-9,900,000,000	10-99

Dollars Cleanup [ICSX(J), JCSX(I)] Col. 30	2 Significant Digits [ICS(J), JCS(I)] Cols. 31, 32	Dollars Damage [IDMX(J), JDMX(I)] Col. 33	2 Significant Digits [IDM(J), JDM(I)] Cols. 34, 35
--	--	---	--

Ø = 0-99	Ø1-99	Ø=0-99	Ø1-99
1 = 100-900	10-99	1 = 100-990	10-99
2 = 1,000-9,900	10-99	2 = 1,000-9,900	10-99
3 = 10,000-99,000	10-99	3 = 10,000-99,000	10-99
4 = 100,000-990,000	10-99	4 = 100,000-990,000	10-99
5 = 1,000,000-9,900,000	10-99	5 = 1,000,000-9,900,000	10-99

If no cost figures given, enter 9 in Col. 30 and 33. Leave 31-32-34-35 blank.

Cost of Damage includes "Value of Material Spilled."

When two or more materials are involved in the same incident and only one quantity is given, divide the quantity equally among the materials, also any costs involved.

MASTER MATERIALS LIST

<u>Materials</u>	<u>Abbreviation</u>	<u>Class #</u>	<u>Code</u>	<u>R.H.</u>
Acetaldehyde (Syn. Alcohol Aldehyde)	Acetaldehyd	03	010	4
Acetate (unspecified)	Acetate	99	010	9
Acetic Acid	Acetic-Acid	01	010	2
Acetic Acid, (Isopropyl Ester)	Acet-Ac-Iso	03	015	2
Acetone	Acetone	03	020	3
Acetonitrile	Acetonitril	03	030	2
Acetylene Tetrachloride (Tetrachloroethane)	Acetylen-Te	02	003	4
Acrolein Inhib.	Acrolein-In	01	020	4
Acrolein (Syn. Acrolein Inhib.)	Acrolein	01	020	4
Acrylic Wood Sealer	Acry-Wd-Slr	03	040	9
Acrylonitrile	Acrylonitri	03	050	4
Adhesive	Adhesive	99	020	9
Adipic Acid	Adipic-Acid	01	030	2
Alcohol (unspecified, assumed denatured)	Alcohol-Uns	03	070	2
Alcohol, Aldehyde (Syn. Acetaldehyde)	Alc-Aldehyde	03	010	4
Alcohol, Allyl	Alc-Allyl	02	005	4
Alcohol, Denatured	Alc-Denatur	03	080	2
Alcohol, Ethyl	Alc-Ethyl	03	090	1
Alcohol, Isopropyl	Alc-Isoprop	03	100	1
Alcohol, Methyl (Syn. Methanol)	Alc-Methyl	03	110	2
Aldacide (No Other Identification (N.O.I.))	Aldacide	02	010	9
Alkaline Caustic Liquids	Alk-Caus-Li	01	040	3
Alkane 56	Alkane-56	03	120	9

<u>Materials</u>	<u>Abbreviation</u>	<u>Class #</u>	<u>Code</u>	<u>R.H.</u>
Alkylate Phenolic (Alkyl radical of phenolic, unspecified)	Alkyl-Pheno	02	020	4
Allyl Chloride (3 chlorophenol)	Allyl-Chlor	03	130	3
Alpha, Monochloropropionic Acid	Alpha-Monoc	01	050	3
Alum	Alum	99	030	1
Alumina, Powdered	Alumina-Pdr	99	040	1
Aluminum Powder	Aluminum-Pd.	04	010	1
Amino Ethyl Ethanolamine	Amino-Ethyl	03	135	2
Amino Ethyl Triethanolamine	Amethtrieth	03	140	3
Ammonia (See Aqua Ammonia)	Ammonia	01	070	3
Ammonium Bisulfide	Amm-Bisulfi	01	055	9
Ammonium Nitrate Fert.	Amm-Nitrate	06	010	9
Ammonium Phosphate	Amm-Phospha	04	020	2
Amorphous Polypropylene	Amor-Polypr	99	060	9
Amyl Acetate	Amyl-Acetate	03	150	1
Amyl Phenol (P Tert Pentyl Phenol)	Amyl-Phenol	02	030	2
Anhydrous Ammonia	Anh-Ammonia	99	070	3
Aniline Oil (Also Phenylamine, Aminobenzene, Aminophen)	Aniline-Oil	02	040	3
Antimony Pentachloride	Ant-Pentach	01	060	3
Anti-Freeze (Syn. Ethylene Glycol)	Anti-Freeze	03	340	4
Aqua Ammonia	Aqua-Ammoni	01	070	3
Aqueous Hydrofluoric Acid (Syn. Hydrofluoric Acid, Aqueous)	Aq-Hydr-Acd	01	210	3
Aromatic oil (30% Benzene)	Aromatic-O	03	170	2
Arsenic Acid, Technical	Ars-Acd-Tec	02	050	5
Arsenic Trichloride	Ars-Trichlo	02	060	4
Arsenic Trioxide	Ars-Trioxid	02	065	3
Arsenical Mixtures	Ars-Mixture	02	070	4
Asphalt	Asphalt	99	080	9
Azodrin	Azodrin	02	075	4
Barium Carbonate	Barium-Carb	02	080	3
Bauxite	Bauxite	04	025	9

<u>Materials</u>	<u>Abbreviation</u>	<u>Class #</u>	<u>Code</u>	<u>R.H.</u>
Benzene	Benzene	03	170	2
Benzyl Chloride, Inhibited	Benzyl-Chlo	01	090	5
Bimethyl Alkylamine (Syn. Dimethylamine)	Bimethyl-AL	03	260	3
Black Liquor	Black-liquo	99	090	9
Borax	Borax	99	100	2
Brass, Molten	Brass-Moltn	99	110	9
Brine (Syn. Salt Water)	Brine	99	450	1
Bromine	Bromine	01	100	4
Butyl Acetate	Butyl-Acetate	03	180	5
Butyl Carbitol	Butyl-Carbi	03	190	3
Butyric Acid	Butyric-Aci	99	115	2
Calcium Carbide	Calcium-Car	99	125	2
Calcium Chloride	Calcium-Chl	02	085	2
Calcium Cyanamide (Syn. Cyanamide Poison)	Calcium-Cyn	02	150	3
Calcium Hydroxide (lime, slaked)	Calcium-Hyd	01	240	1
Calcium Hyperchloride (sic) viz: Calcium Hypochlorite	Calcium-Hyp.	99	120	2
Carbolic Acid (See Phenol)	Carbolic-Ac	02	470	4
Carbon Bisulfide (Syn. Carbon Disulfide)	Cbn-Bisulfi	03	200	3
Carbon Disulfide	Cbn-Disulfi	03	200	3
Carbon Tetrachloride	Cbn-Tetrach	99	130	4
Carbonic Acid (N.O.I.)	Cbnonic-Aci	01	110	3
Castor Oil	Castor-Oil	99	140	1
Caustic Potash (Syn. Potassium Hydroxide)	Caus-Potash	01	320	2
Caustic Potash, liquid (Potassium Hydroxide)	Caus-Pot-Li	01	320	2
Caustic Soda (Syn. Sodium Hydroxide)	Caus-Soda	01	360	3
Chemicals (N.O.I.)	Chem-NOI	99	280	9
Chloracetyl Chloride	Chlor-Chlor	01	130	3
Chlordane	Chlordane	02	090	3
Chlorine (Gas)	Chlorine	99	145	5

<u>Materials</u>	<u>Abbreviation</u>	<u>Class #</u>	<u>Code</u>	<u>R.H.</u>
Chloropicrin (Chlorpicrin)	Chloropicri	02	100	5
Chloroform	Chloroform	02	105	3
Chlorosulfonic Acid	Chlorosulfo	01	140	2
Chromates (Syn. Sodium Chromate)	Chromates	02	565	3
Chromic Acid	Chromic-Aci	02	110	3
"Chromic" Solution (Syn. Chromic Acid)	Chro-Aci-Sl	02	110	3
Cleaning Comp	Cleang-Comp	99	150	2
Coker Feed Stock	Coker-Stock	03	215	9
Cooking Oil	Cooking-Oil	99	160	9
Copper Cyanide (Cuprous)	Copper-Cyan	02	115	5
Copper, Molten	Copper-Mltn	99	170	9
Copper Sulfate	Copper-Sulf	02	120	4
Creosote	Creosote	03	220	3
Cresylic Acid	Cresylic-Ac	02	130	3
Cupric Hydroxide	Cupric-Hydr	02	140	9
Cyanide (Syn. Potassium Cyanide)	Cyanide	02	520	5
Cyanide of Potassium (Syn. Potassium Cyanide)	Cynid-of-Pt	02	520	5
Cyanide of Sodium (Syn. Sodium Cyanide)	Cyanide-Sod	02	570	4
Cyanide Solution (unspecified - Syn. Potassium Cyanide)	Cyanide-Sol	02	520	5
Cyanimide Poison (sic) viz: Calcium Cyanamide	Cyanimd-Poi	02	150	3
Cyano Pyridine	Cyano Pyrid	01	155	9
Cyclohexane	Cyclohexane	03	230	3
Cythion Insecticide (Syn. Malathion)	Cythion-Ins	02	345	2
Delaying Mix	Delaying-Mi	99	180	9
1-2 Dichlorobenzene	Dichloroben	02	160	3
2-3 Dichloro (benzoyl peroxide)	Dichloro-Pe	06	020	3
Dichloroethyl Ether (Dichloroethyl)	Dichloroeth	02	170	3
Dieldrin	Dieldrin	02	180	4
Diethyl Sulfate	Dieth-Sulfa	01	145	3

<u>Materials</u>	<u>Abbreviation</u>	<u>Class #</u>	<u>Code</u>	<u>R.H.</u>
Di Iso Butlyamines	Di-Iso-Butl	03	240	3
Dimazine (unsymmetrical Dimethyl hydrazine)	Dimazine	03	250	3
Dimethylamine (assumed aqueous soln., otherwise flam. gas.)	Dimethylami	03	260	3
Dinitro Phenol Solution	Dinitro-Phe	02	190	4
Dishwashing Powder (unspecified)	Dishwash-Po	05	010	9
Di Siston (sic) viz: Di-Syston (Phosphordithioic acid-o, o, Diethyl S-[2-ethylthio) ethyl] ester	Di-Siston	02	200	5
Dodecyl Phenol	Dodecyl-Phe	01	150	2
Dow-Therm (Syn. Dichlorobenzene)	Dow-Therm	02	160	3
Drying Comp.	Drying-Comp.	99	185	9
Dyestuffs, Pigmented	Dyes-Pigmen	99	190	9
Dynafume	Dynafume	02	210	9
Emulsifiable-Nematicidal Concentrate (indefinite material)	Emul-Nemati	02	220	9
Endrin	Endrin	02	225	5
Epichlorohydrin	Epichlorohy	02	230	4
EPN Soil fumigant	EPN-Fumigan	02	240	4
Ether (Ethyl Ether)	Ether	03	270	2
Ethyl Acrylate	Eth-Acrlat	03	280	2
Ethyl Benzene	Eth-Benzene	03	290	2
Ethyl Butyraldehyde	Eth-Butyral	03	300	1
2 Ethyl 1 Hexanol	Eth-Hexanol	03	310	2
Ethyl Parathion (Syn. Parathion liquid)	Eth-Parathi	02	450	5
Ethylamine, Anhydrous (Ethylamine)	Ethamin-Anh	03	320	3
Ethylene Dichloride (liquid ethylene)	Eth-Dichlor	03	330	3
Ethylene Dibromide (Tech.)	Eth-Dibromi	02	250	3
Ethylene Glycol	Eth-Glycol	03	340	4
Fat Globules	Fat-Globule	99	200	BOD
Fatty Acids	Fatty-Acids	99	210	2
Ferric Chloride	Ferric-Chlo	06	025	3
Fertilizer, chemical (N.O.I.)	Fertilizer	99	216	9

<u>Materials</u>	<u>Abbreviation</u>	<u>Class #</u>	<u>Code</u>	<u>R.H.</u>
Flammable Liquid (unspecified)	Flam-Liq-Un	03	212	9
Flare Mix	Flare-Mix	99	215	9
Flammable Cement	Flam-Cement	03	345	9
Flexographic Printing Solution	Flex-Prnt-S	03	350	2
Fluosulfonic Acid	Fluosulfoni	01	170	3
Food Wastes	Food-Wastes	99	218	6
Formaldehyde	Formaldehyd	03	355	3
Formic Acid	Formic-Acid	01	180	2
Fungicide (unspecified)	Fungicide	02	260	9
Gasoline Additive (unspecified)	Gasoline-Ad	99	220	9
Gasoline or Diesel fuel, fuel oil, mineral oil	Gas-Diesel	03	355	2
Glycerin	Glycerin	03	357	1
Glyoxal	Glyoxal	04	030	2
Grape Juice	Grape-Juice	99	230	6
				Poss. BOD
Guthion	Guthion	02	255	5
Heat Transfer Oil	Heat-xfr-oi	99	240	9
Heptane	Heptane	03	360	1
Heptane Butylcellosolve (possible mixture of Heptane and 2-Butoxyethanol)	Hep-Butylce	03	370	2
Herbicide (unspecified)	Herbicide	02	260	9
Hexachlorocyclopentadine (Perchlorocyclopentadine)	Hexchlor-cy	02	z270	3
Hexamethylene diamine (1-6 diaminohexane)	Hexamethyle	01	190	1
Hot Slag	Hot-Slag	99	250	1
Hydraulic Oil (unspecified)	Hydraul-Oil	99	255	9
Hydrochloric Acid (Hydrogen Chloride) (Syn. Muriatic Acid)	Hydrochlori	01	200	3
Hydrofluoric Acid, Aqueous	Hydro-Acd-Aq	01	210	3
Hydrofluosilicic Acid	Hydrofluosi	01	220	4
Hydrogen Peroxide	Hydrogen-Pe	01	230	4
Hydrolized Fatty Acid	Hyd-Fatty-A	99	260	9

<u>Materials</u>	<u>Abbreviation</u>	<u>Class #</u>	<u>Code</u>	<u>R.H.</u>
7-Hydroxy (N.O.I.)	Hydroxy	99	270	9
Hydroxyethyl Acrylate (Acrylic Acid, 2 Hydroxyethyl Ester)	Hydrox-Acre	01	280	2
Industrial Chemicals (N.O.I.)	Ind-Chemnoi	99	280	9
Industrial Wastes (including acids, rust (FEO), whey)	Indus-Waste (Ind-wst-acid) (Ind-Wst-FEO) (Ind-wst-whey)	99	280	9
Ink	Ink	03	380	9
Iron Sulfate	Iron-Sulfat	99	290	2
Insecticide (unspecified)	Insecticide	02	290	9
Isoborene Diisocyanate (sic) viz: Isobornyl Thiocynoacetate	Isoborene-D	02	300	5
Isopentane	Isopentane	03	385	1
Isopropanel (sic) viz: (Isopropanol) (Syn. Alcohol Isopropyl)	Isopropanol	03	100	1
Isopropyl Acetate - (Syn. Acetic Acid, Isopropyl Ester)	Isopro-Acet	03	015	2
Isopropy-Lamine (sic) viz: (Isopropylamine)	Isopropy-La	03	400	3
Isotrol (sic) viz: Isotron	Isotrol	02	305	9
K-72 (Potassium Pentachlorophenate)	K-72-Pot-Pe	02	310	3
Kepone Tech	Kepone-Tech	02	320	4
Lacquer (RH based on ingredients)	Lacquer	03	410	2
Lacquer Thinner, Solvent	Lacquer-Thn	03	580	9
Lasso Pesticide	Lasso-Pesti	02	330	3
Latex	Latex	99	300	9
Lead Arsenate	Lead-Arsena	02	340	3
Lime, slaked (Calcium Hydroxide)	Lime-slaked	01	240	1
Lithium Bromide	Lithium-Bro	99	310	1
Lithium Hypochlorite (sic) viz: (Lithium Chloride)	Lithium-Hyp	06	030	2
Machine coolant (unspecified)	Machin-cool	99	315	9
Magnesium base acid (unspecified, N.O.I.)	Magnesium-A	01	250	1

<u>Materials</u>	<u>Abbreviation</u>	<u>Class #</u>	<u>Code</u>	<u>R.H.</u>
Magnus 755	Magnus-755	03	420	3
Malathion (Syn. Cythion Insecticide)	Malathion	02	345	2
MCS 10-16	MCS-10-16	99	320	9
Mercuric Oxide (Potassium Sulfate)	Mercuric-Ox	02	350	2
Mercury	Mercury	02	360	5
Mesityl Oxide	Mesityl-Oxi	03	425	2
Meta, paraxylene (Syn. Xylene)	Meta-Paraxy	03	800	2
Metal Hydroxide	Metal-Hydro	01	270	2
Methacrylonitrile liquid (Methacrylonitrile)	Methacrylon	03	430	3
Methanol (Methyl Alcohol)	Methanol	03	110	2
Methoxy Dipropylene Glycol	Methoxydipr	02	370	4
Methyl Acetate	Meth-Acetate	03	450	2
Methyl Acrylate	Meth-Acryla	03	455	1
Methyl Amyl Acetate	Meth-Amy-Ac	03	460	2
Methyl Butyl-Ketone	Meth-But-Ke	03	465	1
Methyl Dibromopropionate (Bromopropionic Acid Methyl Ester)	Meth-Dibrom	99	330	9
Methyl Ethyl Ketone (Butanone)	Meth-Etyl-K	03	470	2
Methyl Isobutyl Ketone (Isopropylacetone)	Meth-Isobut	03	480	2
Methyl Methacrylate	Methmethacrl	03	500	5
Methyl Parathion (Dimethyl)	Meth-Parthi	02	380	5
Methylene Bromide	Methylen-Br	02	390	2
Methylene Chloride	Meth-Chlori	99	333	2
Mine Acid (Syn. Sulfuric Acid)	Mine-Acid	01	430	2
Mineral Spirits	Mineral-Spr	03	505	3
Molasses	Molasses	99	335	6 BOD
Molten Metal (unspecified)	Molten-Metl	99	337	9
Monocyclohexylamine (Hexylamine)	Mnocylohex	03	510	3
Mono-methylhydrazine	Methylhydzn	03	520	5
Muriatic Acid (Syn. Hydrochloric Acid)	Muriatic-Ac	01	200	2

<u>Materials</u>	<u>Abbreviation</u>	<u>Class #</u>	<u>Code</u>	<u>R.H.</u>
Naphtha, Naphthalite	Naphtha	03	530	3
Napthalene (Flakes)	Napthalen-F	02	393	2
Naphthalite (Syn. Naphtha)	Naphthalite	03	530	3
Navane (ThioThixene)	Navane	99	340	3
Nematicidal concentrate - Syn. Emulsifiable Nematicidal Conc.	Nematicidal	02	220	9
Neosol (Solvent)	Neosol	03	540	2
Nicotine, Liquid	Nicotine-L	02	395	4
Nilverm (Nilvern)	Nilverm	02	400	3
Nitrate-Strontium - Syn. also Strontium Carbonate	Nitr-Stront	04	040	3
Nitric Acid	Nitric-Acid	01	280	4
Nitro Benzene	Nitrobenzen	02	410	5
Nitro Cellulose - If wet, See Wet Nitro Cellulose	Nitrocelulo	03	790	9
Nitro Cellulose lacquer	Nitrocel-laq	03	550	9
Nitro Chloro Toluenes	Nitrochloto	99	350	9
Nitro Phenol	Nitro-Pheno	02	420	4
Nitrogen, Liquid Fert.	Nitrogen-Li	04	355	9
Nuodex PMA18 - See Phenyl- Mercury-Acetate	Nuodex-PMA1	02	480	4
Oleum (Syn. Fuming Sulfuric Acid)	Oleum	01	290	2
Organic Ammonia Comp.	Org-Amon-Co	03	560	3
Organic Phosphate (unspecified)	Organ-Phosp	02	430	4
Ortho-Toluidene	Ortho-Tolui	03	570	3
Oxybisperolarsine (N.O.I.)	Oxybisperol	02	440	9
Paint, wood stain, etc. (unspecified)	Paint	03	580	9
Paint Thinner (assumed Turp. or den. Alcohol)	Paint-Thinr	03	590	2
Paraformaldehyde	Para-Formal	03	595	3
Parathion liquid (Diethyl) (Insecticide)	Parathion-L	02	450	5
Pentachlorophenol	Pentachloro	02	460	4
Peracetic Acid (Peroxyacetic Acid)	Peracetic-A	06	030	2

<u>Materials</u>	<u>Abbreviation</u>	<u>Class #</u>	<u>Code</u>	<u>R.H.</u>
Perchloric Acid	Perchloric	01	300	9
Permanganate-(Syn. Potassium Permanganate)	Permanganat	06	040	2
Peroxides - Organic (R.H. based on several organic peroxides)	Peroxides-O	03	600	2
Phenol	Phenol	02	470	4
Phenolsulfonic Acid	Phenol-Sulf	05	015	9
Phenyl Formaldehyde Resin (Syn. Resin)	Phn-Frm-Rsn	03	630	9
Phenyl Mercury Acetate (Syn. Nuodex PMA18)	Phenyl-Merc	02	480	4
Phenyl-Mercuric Lactate	Phen-Mrc-Lc	02	505	4
Phosdrin	Phosdrin	02	490	5
Phosphate Compound (unspecified syn. organic phosphate)	Phosphate-C	02	430	4
Phosphene Oxide (unspecified, N.O.I.)	Phosphene-O	02	500	9
Phosphoric Anhydride (Forms Phosphoric Acid in H ₂ O)	Phos-Anhydr	99	360	3
Phosphoric Acid	Phosph-Acid	01	302	3
Phosphorus Oxychloride	Phos-Oxychl	01	305	4
Phosphorus Penta Sulfide	Phos-Pentas	04	050	4
Phosphorus Trichloride	Phos-Trichl	01	307	3
Phosphorus (White)	Phosphorus	04	055	5
Phthalic Anhydride	Phthalc-Anh	99	370	3
Plasticizer	Plasticizer	03	610	1
Plating Comp #1 (unspecified)	Plating-Com	02	510	9
Poison (N.O.I.)	Poison-NOI	02	515	9
Poly-Styrene (Syn. Styrene)	Polystyrene	02	590	2
Poly-Styrene Monomer (Syn. Styrene)	Polysty-Mon	02	590	2
Polyvinyl Pyrrolidone	Poly-V-Pyro	99	372	3
Potassium Bromate	Potas-Broma	06	035	9
Potassium Carbonate	Pot-Carbnat	01	310	2
Potassium Cyanide	Pot-Cyanide	02	520	5
Potassium Chloride	Pot-Chlorid	99	375	2

<u>Materials</u>	<u>Abbreviation</u>	<u>Class #</u>	<u>Code</u>	<u>R.H.</u>
Sodium Chromate	Sodium-Chrm	02	565	3
Sodium Cyanide	Sodium-Cynd	02	570	4
Sodium Hydrosulfite (Sodium Dithionite)	Sodium-Hydo	04	060	3
Sodium Hydroxide, solid	Sodium-Hydx	05	020	3
Sodium Hydroxide, liquid	Sod-Hydx-li	01	360	3
Sodium Hypochlorite	Sodium-Hypo	01	370	4
Sodium Lauryl Sulfonate	Sodium-Larl	99	490	2
Sodium Methylate Dry (Sodium Methoxide) (In H ₂ O releases Sodium Hydroxide (RH=3) and Methanol (RH=2))	Sodium-Meth	04	070	3
Sodium Nitrate	Sod-Nitrate	06	060	3
Sodium Nitrite	Sod-Nitrite	06	070	3
Sodium Pentachlorophenate (Syn. Pentachlorophenol)	Pentachloro	02	460	4
Sodium Peroxide	Sod-Peroxid	01	380	3
Sodium Silicate	Sod-Silicat	01	390	2
Sodium Sulfate	Sod-Sulfate	99	495	3
Sodium Sulfide	Sod-Sulfide	02	580	4
Solvent (unspecified or undetermined)	Solvent	03	650	9
Solvesso 150	Solvesso 150	03	660	3
Soybean Oil	Soybean-Oil	03	670	BOD
Stoddard (Solvent)	Stoddard	03	680	2
Strontium Carbonate	Strnt-Carbo	04	080	9
Stypol (sic) viz: Styptal (Cotarnine Phthalate)	Stypol	99	500	9
Styrene	Styrene	02	590	2
Styrene Monomer (Syn. Styrene)	Styrene-Mon	02	590	2
Sugar, liquified	Sugar-Liqui	99	510	9
Sulfonic Acid (N.O.I.)	Sulfonic-Ac	01	400	2
Sulfurated Potash	Sulfurat-PO	05	030	9
Sulfur, Molten (insol. in H ₂ O)	Sulfur-Molt	01	410	1
Sulfur Mono Chloride (Sulfur Chloride)	Sulfur-Mono	01	420	5

<u>Materials</u>	<u>Abbreviation</u>	<u>Class #</u>	<u>Code</u>	<u>R.H.</u>
Potassium Hydroxide	Pot-Hydroxi	01	320	2
Potassium Permanganate	Pot-Prmangn	06	040	2
Potassium Sulfate	Pot-Sulfate	02	530	2
Powdered Chemicals (unspecified)	Powder-Ch	99	380	9
Propanethiol	Propanthiol	99	390	9
Propylene	Propylene	99	400	1
Protein Foam	Protein-Fom	99	405	6
Propylene Glycol 50% (1, 2 propanediol)	Prop-Glycol	02	540	4
Quench Oil	Quench-oil	03	620	9
Radioactive Waste	Radio-Act-W	07	020	9
Raffinate	Raffinate	99	410	9
Razine (See monomethylhydrazine)	Razine	03	520	5
Reactor Coolant (Atomic)	Reactr-Clnt	07	050	9
Regal PLR "O" oil	Regal-PLR-O	99	420	9
Resin-Sl Syn. Resin Solution	Resin-Sl	03	630	9
Resin Solution (unspecified)	Resin-Solut	03	630	9
Resonate Solution (N.O.I.)	Resonate-So	99	440	1
Rosin, Liquid	Rosin-liqui	03	640	3
Salt (See Sodium Chloride)	Salt	99	470	2
Salt Water	Salt-Water	99	450	1
Silicon Compound	Silicon-Com.	99	455	9
Silicon Chloride	Silicon-Chl	01	330	2
Silver Nitrate	Silver-Nitr	06	045	5
Soda Ash (Sodium Carbonate)	Soda-Ash	99	460	2
Sodium Aluminate, liquid	Sod-Alumina	01	340	9
Sodium Arsenate	Sodium-Arsn	02	550	4
Sodium Aresenite	Sodium-Arsi	02	560	5
Sodium Carragheenate (emulsifier)	Sod-Caraget	99	465	6
Sodium chlorate	Sodium-Clat	06	050	3
Sodium chloride	Sodium-clid	99	470	2
Sodium Chloride, Molten - (Syn. Sodium Chloride)	Sod-Clo-Mol	99	470	2
Sodium Chlorite Solution	Sod-Chlor-S	01	350	9

<u>Materials</u>	<u>Abbreviation</u>	<u>Class #</u>	<u>Code</u>	<u>R.H.</u>
Sulfuric Acid	Sulfuric-Ac	01	430	2
Sulfuryl Chloride	Sulfuryl-Ch	01	440	5
Tallow	Tallow	99	520	BOD
Technistrip (N.O.I.)	Technistrip	02	600	9
Telone Chloropicrin (Syn. Chloropicrin) Possible mixture of Telone & Chloropicrin	Telone-Chlo	02	610	5
Tetrachloride Anhydrous (N.O.I.)	Tetrachlord	99	530	9
Tetraethyl Pyrophosphate	Tet-eth-Pyr	02	620	5
Tetrahydrofuran	Tet-Hydr-Fu	03	690	2
Texephene (sic) viz: (Toxaphene)	Toxaphene	02	630	3
Thalic Anhydride (Syn. Phthalic An.)	Thalic-Anhy	99	370	3
Therminol 66 (N.O.I.)	Therminol 66	03	700	9
Thimet (Phorate)	Thimet	02	640	2
Thionyl Chloride	Thionyl-Chl	01	450	4
Thiophenol (Benzenethiol)	Thiophenol	02	650	4
Titanium Tetrachloride	Tit-Tetrach	01	460	2
Toluene (D.O.T. Class)	Toluene	03	710	4
Toluene-2, 4 Diisocyanate	Toluene-Dis	01	465	4
Toluidene (Blue)	Toluidene	02	660	4
Toluol - Syn. Toluene	Toluol	03	710	4
Transformer Oil (Contains Alumina)	Transf-oil	03	720	1
Tri Calcium Arsenate	Tricalc-Ars	02	670	3
Trichloroacetaldehyde (chloral hydrate)	Trichlorace	02	680	3
Trichloroethylene	Trichloreth	02	690	4
Triethanolomine	Triethanola	03	730	3
Triethylamine	Triethylami	03	740	3
Trifluoroacetic Acid	Trifluoroace	01	470	3
Triphenyl Sulfonium Chloride (N.O.I.)	Triphenyl-S	99	540	9
Turpentine	Turpentine	03	750	4
Urana (sic) viz: Urea (Carbanide) liquid fertilizer	Urana-Fertl	99	550	9

<u>Materials</u>	<u>Abbreviation</u>	<u>Class #</u>	<u>Code</u>	<u>R.H.</u>
Urea Formaldehyde	Urea-Formal	02	700	4
Unsymmetrical-dimethyl Hd. (hydrazine)	Unsym-Dimet	03	760	3
Varium Ore (sic) viz: Barium	Varium-Ore	07	010	9
Varnish	Varnish	03	580	9
Vegetable & Fish Oil	Veg-Fish-Oi	99	560	6
Vinegar (10% acetic Acid)	Vinegar	01	480	2
Vinyl Acetate	Vinyl-Aceta	03	770	2
Vinyl Chloride (chloroethylene)	Vinyl-chlor	03	780	2
Waste Pickle liquor (Sulfuric, Nitric, or Hydrochloric Acid)	Waste-Pickl	01	490	2
Weed Killing Comp. (unspecified)	Weed-Killer	02	710	9
Wet Nitro Cellulose (when wet with H ₂ O)	Wet-Ni-Celo	04	090	9
Wet Nitro Cellulose (when wet with Alcohol or solvent) Upon decomposition may liberate Nitrogen dioxide Gas-RH=5	Wet-Cel-Alc	03	790	9
Wood Pulp	Wood-Pulp	99	600	6
Wood Stain	Wood-Stain	03	580	9
Xylene (Para, Meta, Ortho)	Xylene	03	800	2
Xylol (Syn. Xylene)	Xylol	03	800	2
Zinc (Molten)	Zinc-Molen	99	650	9
Zinc Cyanide	Zinc-Cyanid	02	720	3
Zinc Dust	Zinc-Dust	04	100	9
Zinc Sulfate	Zinc-Sulfat	99	700	4
Zirconium	Zirconium	04	110	1

EPA DATA HANDLING PROGRAM: HAZARDOUS MATERIAL SPILLS

FORTRAN IV G LEVEL 21

MAIN

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0001      DIMENSION JTMP(1900),JTMM(1900),JTMD(1900),JTIN(1900),
          1      JSR(1900),JTM(1900),JPC(1900),JSC(1900),JAR(1900),
          2      JCLAS(1900),JNAM(1900),JQUAN(1900),JCONT(1900),
          3      JHAZ(1900),JEQUP(1900),JWTR(1900),JCOS(1900),JDMG(1900),
          4      JOPFA(1900),JOTFA(1900),JOPIN(1900),JOTIN(1900),
          5      JSPAC(1900),JATA(1900,3),JOPN(1900),
          6      JQM(1900),JSC1(1900),JSC2(1900),JQD(1900),JQX(1900),
          7      JQUN(1900),JTFA(1900),JCSX(1900),JCS(1900),JDMX(1900),
          8      JQM(1900),JFQP(1900),JST(1900),JCITY(1900,2)
0002      DIMENSION CLS(50),CUSE(100,5),CNTR(100,5),QNTY(10)
0003      DIMENSION TSP(10),ITM1(10),ITM2(10),IPC(10),ISC(10),IAR(10),ICLAS(
          110),IHAZ(10),INAM(10),IQUAN(10),ICONT(10),IEQUP(10),IWTR(10),ICOS(
          210),IDMG(10),IOPFA(10),IOTFA(10),IOPIN(10),IOTIN(10),ISPAC(10)
0004      DIMENSION IQD(10),IQX(10),IQUN(10),ICSX(10),ICS(10),IDMX(10),IDM(1
          20),IFQP(10),IOPN(10),IQM(10),ISC1(10),ISC2(10),IRE(10),IDATA(10,45
          3)
0005      DIMENSION SRCE(50,5)
0006      DIMENSION IDIVS(1900,18)
0007      ICHK=1
      C READ IN THE PRIMARY AND SECONDARY CAUSES
0008      K=1
0009      462 IF(K-8)445,445,485
0010      445 READ(5,515)KNT,(CUSE(K,J),J=1,5)
0011      515 FORMAT(I2,1X,5A1)
0012      GO TO 125
0013      485 READ(5,510)KNT,(CUSE(K,J),J=1,5)
0014      125 CONTINUE
0015      IF(KNT-99)490,498,490
0016      490 K=K+1
0017      GO TO 462
      C READ IN THE MATERIAL CLASSES
0018      498 K=1
0019      500 READ(5,595)KNT,CLS(K)
0020      535 FORMAT(I2,1X,2A4)
0021      510 FORMAT(I2,1X,5A2)
0022      IF(KNT-99)520,525,520
0023      520 K=K+1
0024      GO TO 500
      C READ IN THE NAMES OF THE CONTAINERS USED
0025      525 K=1
0026      530 READ(5,535)KNT,(CNTR(K,J),J=1,2)
0027      IF(KNT-99)540,545,540
0028      540 K=K+1
0029      GO TO 530
      C READ IN THE TYPE OF QUANTITY LITERS OR KILOGRAMS
0030      545 K=1
0031      580 READ(5,596)KNT,QNTY(K)
0032      596 FORMAT(I2,1X,A1)

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0033      595 FORMAT(I2,1X,A2)
0034      IF(KNT-99)600,610,600
0035      600 K=K+1
0036      GO TO 580
      C READ IN THE VARIOUS INFORMATION SOURCES
0037      610 K=1
0038      620 READ(5,510)KNT,(SRCE(K,J),J=1,5)
0039      IF(KNT-99)630,635,630
0040      630 K=K+1
0041      GO TO 620
0042      635 CONTINUE
      C READ IN THE GROUPING CARDS      MAXIMUM NUMBER IS TEN
0043      IMORE=0
0044      1 CONTINUE
0045      J=1
0046      3 READ(5,100)ISR(J),ITM1(J),ITM2(J),IPC(J),ISC(J),IAR(J),ICLAS(J),IH
      IAZ(J),INAM(J),IQD(J),IQX(J),IQUN(J),ICONT(J),IEQUP(J),IWTR(J),ICSX
      2(J),ICS(J),IDMX(J),IDM(J),IOPFA(J),IOTFA(J),IOPIN(J),IOTIN(J),ISPA
      3C(J),IEQP(J),IOPN(J),IOM(J),ISC1(J),ISC2(J),IRF(J),(IDATA(J,M),M=1
      4,7)
0047      IF(ISR(J)-99)9,7,9
0048      9 CONTINUE
0049      READ(5,106)(IDATA(J,M),M=8,43)
0050      WRITE(6,750)J,(IDATA(J,M),M=1,43)
0051      N=IQX(J)
0052      M=ICSX(J)
0053      L=IDMX(J)
0054      IQUN(J)=(10**N)*IQUN(J)
0055      ICOS(J)=(10**M)*ICS(J)
0056      IDMG(J)=(10**L)*IDM(J)
0057      J=J+1
0058      GO TO 3
0059      7 INUM=J-1
0060      IF(IMORE)13,913,13
0061      13 J=1
0062      GO TO 171
      C THIS SEGMENT READS IN THE DATA CARDS(Spill INCIDENTS)
0063      913 K=1
0064      IALPH=0
0065      11 CONTINUE
0066      IF(IALPH)702,15,702
0067      15 READ(8,110,END=20)JSR(K),JTHY(K),JTM(K),JTM(K),JPC(K),JSC(K),
      $ JAR(K),JCL
      1AS(K),JHAZ(K),JNAM(K),JQD(K),JQX(K),JQUN(K),JCONT(K),JEQUP(K),JWTR
      2(K),JCSX(K),JCS(K),JDMX(K),JDM(K),JOPFA(K),JOTFA(K),JOPIN(K),JOTIN
      3(K),JSPAC(K),JEP(K),JST(K),(JCITY(K,M),M=1,2),(JATA(K,M),M=1,3),J
      4OPN(K),JOM(K),JSC1(K),JSC2(K)
0068      IF(JSR(K)-98)701,20,701

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0069      701 IF(JSR(K)-20)700,700,703
0070      703 IALPH=1
0071          K=K+1
0072          GO TO 11
0073      702 READ(8,704,END=20)((IDIVS(K,NN),NN=1,18)
0074      704 FORMAT(18A4)
0075          IALPH=0
0076          GO TO 21
0077      700 CONTINUE
0078          JTM(K)=(JTM(K)*10000)+(JTMM(K)*100)+JTMD(K)
0079          N=JQX(K)
0080          M=JCSX(K)
0081          L=JDMX(K)
0082          JQUAN(K)=(10**N)*JQUN(K)
0083          JCOS(K)=(10**M)*JCS(K)
0084          JDMG(K)=(10**L)*JDM(K)
0085          JTTIN(K)=JOPIN(K)+JOTIN(K)
0086          JTFA(K)=JOPFA(K)+JOTFA(K)
0087      21 CONTINUE
0088          K=K+1
0089          GO TO 11
0090      20 CONTINUE
0091          J=1
0092          IW=K-1
0093      401 CONTINUE
0094          LK=1
0095          WRITE(6,777)
0096          IF(1CHK-1)171,23,171
0097      23 WRITE(6,772)
0098          GO TO 43
0099      171 CONTINUE
0100          WRITE(6,255)(IDATA(J,M),M=1,43)
0101      43 CONTINUE
0102          WRITE(6,960)
0103          WRITE(6,961)
0104          WRITE(6,962)
0105          WRITE(6,963)
0106          WRITE(6,964)
0107          WRITE(6,965)
0108          WRITE(6,966)
0109          WRITE(6,967)
0110          WRITE(6,968)
0111          WRITE(6,969)
0112          WRITE(6,776)
0113          JTCOS=0
0114          JDMG=0
0115          JTTIN=0
0116          JTFA=0
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0117      JTOPF=0
0118      JTOTF=0
0119      JTCPN=0
0120      JTOTN=0
0121      JTLIT=0
0122      JTKG=0
0123      IALPH=0
0124      LCNT=14
0125      DO 300 I=1,IW
0126      IF (IALPH)220,220,827
0127 220 CONTINUE
0128      IF (ICLK-1)219,174,219
0129 219 CONTINUE
0130      IF (ISR(J))8,12,8
0131      8 IF (JSR(I)-99)10,300,10
0132      10 IF (ISR(J)-JSR(I))300,12,300
0133      12 IF (ITM1(J))14,18,14
0134      14 IF (JTM(I)-999999)16,300,16
0135      16 IF (ITM2(J)-JTM(I))300,18,17
0136      17 IF (ITM1(J)-JTM(I))18,18,300
0137      18 IF (IPC(J))19,24,19
0138      19 IF (JPC(I)-99)22,300,22
0139      22 IF (IPC(J)-JPC(I))300,24,300
0140      24 IF (ISC(J))26,32,26
0141      26 IF (JSC(I)-99)28,300,28
0142      28 IF (ISC(J)-JSC(I))300,32,300
0143      32 IF (IAR(J))34,38,34
0144      34 IF (JAR(I)-9)36,300,36
0145      36 IF (IAR(J)-JAR(I))300,38,300
0146      38 IF (ICLAS(J))40,44,40
0147      40 CONTINUE
0148      42 IF (ICLAS(J)-JCLAS(I))300,44,300
0149      44 IF (IHAZ(J))46,50,46
0150      46 IF (JHAZ(I)-99)48,300,48
0151      48 IF (IHAZ(J)-JHAZ(I))300,50,300
0152      50 IF (INAM(J))52,56,52
0153      52 IF (JNAM(I)-999)54,300,54
0154      54 IF (INAM(J)-JNAM(I))300,56,300
0155      56 IF (IQD(J))58,62,58
0156      58 IF (JQD(I)-3)300,60,60
0157      60 IF (IQX(J)-JQX(I))300,62,300
0158      62 IF (ICONT(J))64,68,64
0159      64 IF (JCONT(I)-99)66,300,66
0160      66 IF (ICONT(J)-JCONT(I))300,68,300
0161      68 IF (IEQUP(J))70,74,70
0162      70 IF (JEQUP(I)-99)72,300,72
0163      72 IF (IEQUP(J)-JEQUP(I))300,74,300
0164      74 IF (IWTP(J))76,80,76
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0165      76 IF(JWTR(I)-9)78,300,78
0166      78 IF(IWTR(J)-JWTR(I))300,80,300
0167      80 IF(ICSX(J))82,86,82
0168      82 IF(JCSX(I)-9)84,300,84
0169      84 IF(ICSX(J)-JCSX(I))86,86,300
0170      86 IF(IDMG(J))88,92,88
0171      88 IF(JDMX(I)-9)90,300,90
0172      90 IF(IDMG(J)-JDMG(I))92,92,300
0173      92 IF(IOPFA(J))94,98,94
0174      94 IF(JOPFA(I)-9)96,300,96
0175      96 IF(IOPFA(J)-JOPFA(I))98,98,300
0176      98 IF(IOTFA(J))101,118,101
0177     101 IF(JOTFA(I)-59)102,300,102
0178     102 IF(IOTFA(J)-JOTFA(I))118,118,300
0179     118 IF(IOPIN(J))120,124,120
0180     120 IF(JOPIN(I)-9)122,300,122
0181     122 IF(IOPIN(J)-JOPIN(I))124,124,300
0182     124 IF(IOTIN(J))126,132,126
0183     126 IF(JOTIN(I)-99)128,300,128
0184     128 IF(IOTIN(J)-JOTIN(I))132,132,300
0185     132 IF(ISPAC(J))134,138,134
0186     134 CONTINUE
0187     136 IF(ISPAC(J)-JSPAC(I))300,138,300
0188     138 IF(IEQP(J))140,144,140
0189     140 IF(JEQP(I)-99)142,300,142
0190     142 IF(IEQP(J)-JEQP(I))300,144,300
0191     144 IF(IOPN(J))146,150,146
0192     146 IF(JOPN(I)-9)148,300,148
0193     148 IF(IOPN(J)-JOPN(I))300,150,300
0194     150 IF(IOM(J))152,156,152
0195     152 IF(JOM(I)-9)154,300,154
0196     154 IF(IOM(J)-JOM(I))300,156,300
0197     156 IF(ISC1(J))158,162,158
0198     158 IF(JSC1(I)-99)160,300,160
0199     160 IF(ISC1(J)-JSC1(I))300,162,300
0200     162 IF(ISC2(J))164,168,164
0201     164 IF(JSC2(I)-99)166,300,166
0202     166 IF(ISC2(J)-JSC2(I))300,168,300
0203     168 IF(IRE(J)-99)170,174,170
0204     170 IF(IRE(J)-JOPN(I))300,174,300
0205     174 CONTINUE
0206         IA=JCLAS(I)
0207         IB=JQD(I)
0208         IC=JPC(I)
0209         ID=JSC(I)
0210         IE=JCONT(I)
0211         IX=JSC1(I)
0212         IY=JSC2(I)

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0213      192 IF (IA-99) 194,193,194
0214      193 IA=9
0215      194 IF (IB-9) 197,196,197
0216      196 IB=3
0217      197 CONTINUE
0218      IF (IC-99) 203,202,203
0219      202 IC=9
0220      203 IF (ID-99) 207,206,207
0221      206 ID=9
0222      207 IF (IX-99) 209,208,209
0223      208 IX=9
0224      209 IF (IY-99) 211,210,211
0225      210 IY=9
0226      211 CONTINUE
0227      IF (JCSX(I)-9) 801,803,801
0228      801 JTCOS=JTCOS+JCSX(I)
0229      803 IF (JDMX(I)-9) 805,807,805
0230      805 JDMG=JDMG+JDMX(I)
0231      807 IF (JOPIN(I)-9) 811,809,811
0232      809 JOPIN(I)=0
0233      811 IF (JOTIN(I)-99) 815,813,815
0234      813 JOTIN(I)=0
0235      815 IF (JOPFA(I)-9) 819,817,819
0236      817 JOPFA(I)=0
0237      819 IF (JOTFA(I)-99) 823,821,823
0238      821 JOTFA(I)=0
0239      823 CONTINUE
0240      JTFX(I)=JOPFA(I)+JOTFA(I)
0241      JTIM(I)=JOPIN(I)+JOTIN(I)
0242      IF (IALPH) 827,824,827
0243      824 IF (JSR(I)-20) 835,835,826
0244      826 IALPH=1
0245      GO TO 300
0246      827 CONTINUE
0247      IF (LNCT-42) 910,910,905
0248      905 WRITE(6,918)
0249      918 FORMAT(1H1)
0250      LNCT=0
0251      910 CONTINUE
0252      WRITE(6,829) (IDIVS(I,JJ),JJ=1,18)
0253      829 FORMAT(/,25X,18A4)
0254      WRITE(6,960)
0255      WRITE(6,961)
0256      WRITE(6,962)
0257      WRITE(6,963)
0258      WRITE(6,964)
0259      WRITE(6,965)
0260      WRITE(6,966)

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0261      WRITE(6,967)
0262      WRITE(6,968)
0263      WRITE(6,969)
0264      WRITE(6,776)
0265      LNCT=LNCT+13
0266      IALPH=0
0267      LK=1
0268      GO TO 300
0269      835 CONTINUE
0270      IF(LNCT-57)927,927,923
0271      923 CONTINUE
0272      WRITE(6,918)
0273      LNCT=0
0274      927 CONTINUE
0275      WRITE(6,240)LK,JTMM(I),JTMD(I),JTMV(I),(JCITY(I,M),M=1,2),JST(I),
1JATA(I,M),M=1,3),CLS(IA),JQUN(I),JQX(I),QNTY(IA),JTIN(I),JTFA(I),J
2HAZ(I),JDM(I),JDMX(I),(CUSE(IC,N),N=1,5), (CUSE(ID,N
3),N=1,5),(CUSE(IX,N),N=1,5),(CUSE(IY,N),N=1,5),(CNTR(IE,N),N=1,2),
4JOM(I),JEP(I),JAR(I),JSR(I)
0276      LNCT=LNCT+1
0277      LK=LK+1
0278      GO TO 300
0279      JTOPN=JTOPN+JOPIN(I)

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82 *****01) $ IEY002I LABEL *****
0280      JTOTN=JTOTN+JOTIN(I)
0281      JTOPF=JTOPF+JOPFA(I)
0282      JTOTF=JTOTF+JOTFA(I)
0283      JTTIN=JTTIN+JTIN(I)
0284      JTTFA=JTTFA+JTFA(I)
0285      IF(JQD(I)-1)283,286,283
0286      283 IF(JQD(I)-2)300,289,300
0287      286 JTLIT=JTLIT+JQUAN(I)
0288      GO TO 300
0289      289 JTKG=JTKG+JQUAN(I)
0290      300 CONTINUE
0291      IF(ICLK-1)249,229,249
0292      229 ICLK=99
0293      GO TO 20
0294      249 CONTINUE
0295      IF(INUM-J)375,375,330
0296      330 J=J+1
0297      GO TO 401
0298      375 IF(ITM1(J+1))380,385,380
0299      380 IMORE=1
0300      LK=1
0301      GO TO 1
0302      385 WRITE(6,180)

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0303      100 FORMAT(I2,2I6,2I2,I1,2I2,I3,2I1,3I2,2I1,I2,I1,I2,3(I1,I2),2I1,3I2,
          17A2)
0304      106 FORMAT(36A2)
0305      110 FORMAT(6I2,I1,2I2,I3,2I1,3I2,2I1,4(I2,I1),I2,A2,5A4,2I1,2I2)
0306      180 FORMAT(1H,'END OF JOB')
0307      240 FORMAT(1H,I4,'.',I2,'/',I2,'/',I2,1X,2A4,',',A2,1X,3A4,1X,A2,
          $      1X,
          1 I2,'E',I1,A1,1X,3(I2,1X),1(I2,'E',I1,1X),5A1,1X,3(5A2,1X),2A4,1X,
          22(I1,I2))
0308      255 FORMAT(1H//43A2/)
0309      777 FORMAT(1H1,52X,'EPA SPILL STUDY')
0310      750 FORMAT(1H,I3,'.',43A2)
0311      772 FORMAT(1H/'ALL INCIDENTS USED IN THIS ANALYSIS'/)
0312      776 FORMAT(1H,4X,'DATE',5X,'LOCATION',4X,'MATERIAL CLASS
          1      DMG$ CAUSE 2ND CAUSE 3RD CAUSE 4TH CAUSE CONTAINER M')
0313      960 FORMAT(1H/,51X,'F')
0314      961 FORMAT(1H,52X,'A')
0315      962 FORMAT(1H,49X,'I',2X,'T',11X,'P')
0316      963 FORMAT(1H,43X,'Q',5X,'N',2X,'A',1X,10X,'R',48X,'O')
0317      964 FORMAT(1H,43X,'U',5X,'J',2X,'L',2X,'H',8X,'I',48X,'P',1X,'S')
0318      965 FORMAT(1H,43X,'A',5X,'U',2X,'I',2X,'A',8X,'M',50X,'O')
0319      966 FORMAT(1H,43X,'N',5X,'R',2X,'T',2X,'Z',8X,'A',47X,'E',A',1X,'U')
0320      967 FORMAT(1H,43X,'I',5X,'I',2X,'I',2X,'A',8X,'R',47X,'Q',R',1X,'R')
0321      968 FORMAT(1H,43X,'T',5X,'E',2X,'E',2X,'R',8X,'Y',47X,'UE',1X,'C')
0322      969 FORMAT(1H,43X,'Y',5X,'S',2X,'S',2X,'D',8X,48X,'P',A',1X,'E')
0323      END

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*OPTIONS IN EFFECT* ID,EBCDIC,SOURCE,NOLIST,NODECK,LOAD,NOMAP
*OPTIONS IN EFFECT* NAME = MAIN , LINECNT = 50
*STATISTICS* SOURCE STATEMENTS = 323,PROGRAM SIZE = 474818
*STATISTICS* 001 DIAGNOSTICS GENERATED, HIGHEST SEVERITY CODE IS 0

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APPENDIX B

LIST OF SOURCES USED IN CONJUNCTION WITH DATA ACCUMULATION AND ANALYSIS

Chemical Engineering 6/25/73, Bi-weekly publication Vol. 80, No. 15 pp. 72-94
Transporting, Loading and Unloading Hazardous Materials
Author: William S. Wood; Chemical Safety Consultant
Ed. & Pub.; McGraw-Hill Publications Co., McGraw-Hill Bld.,
1221 Ave. of The Americas, New York, N. Y. 10020

Chemical Eng. Handbook, Fifth Edition 1973
Ed: Robert H. Perry and Cecil H. Chilton
Pub: McGraw-Hill Book Co. Inc., New York, Toronto, London

Chemical Data Guide For Bulk Shipment By Water
U. S. Coast Guard Treasury Dept.

Chemical Safety Data Sheets V. 1, V. 2, Nos. 1-100, 1960-1976
Manufacturing Chemists Assoc., Inc.
1825 Connecticut Ave. N.W., Washington, D.C. 20009

Control of Hazardous Material Spills
Proceedings of The 1972 National Conference on Control of Hazardous
Material Spills
Sponsored by: U. S. Environmental Protection Agency and University of Houston
Pub: Graphics Management Corp., 1101 16 St. N.W., Washington, D.C. 20036

Cleaning Our Environment: The Chemical Basis for Action
A Report by The Subcommittee on Environmental Improvement,
Committee on Chemistry and Public Affairs,
American Chemical Society, Washington, D.C. 1969

Control of Spillage of Hazardous Polluting Substances
Authors: G. W. Dawson, A. J. Shuckrow, W. H. Suist
For: Federal Water Quality Administration, U. S. Dept. of The Interior
Available from Superintendent of Documents, U. S. Government Printing Office
Washington, D.C. 20402

C.R.C. Handbook of Analytical Toxicology
Editor: Irving Sunshine, Ph.D
Pub: The Chemical Rubber Co. 18901 Cranwood Parkway,
Cleveland, Ohio 44128 1969

C.R.C. Handbook of Chemistry and Physics
50th Ed. 1969-70

Editor: Robert C. Weast, Ph.D

Pub: The Chemical Rubber Co., 18901 Cranwood Parkway,
Cleveland, Ohio 44128

Department of Transportation, U.S.C.G.

Determination of Organic Structures by Physical Methods

Editors: Braude & Nachod

Pub: Academic Press Inc., New York, N. Y.

Environmental Science and Technology

1973-1974, Vols. 7-8 No. 1-12

Pub: American Chemical Society

20th & Northhampton Sts., Easton, Pa. 18042

Factory Mutual Loss Prevention Data

Pub: Factory Mutual Engineering Corp.

Guide for Preparing Hazardous Materials Incident Reports

Pub: U. S. Department of Transportation,

Office of Hazardous Materials, 400 Sixth St., S. W.

Washington D. C. 20590 Aug. 1972

Handbook of Chemistry Ninth Ed.

Compiled and Edited by Norbert Adolph Lange, Ph.D

Pub: Handbook Publishers Inc., Sandusky, Ohio 1956

Handbook of Industrial Loss Prevention, Second Ed. 1959-1967

Prepared by The Staff of The Factory Mutual Engineering Corp.

Pub: McGraw-Hill Book Co.

Handbook of Material Trade Names

Authors: O. T. Zimmerman, Ph.D, Irvin Lavine, Ph.D

Pub: Industrial Research Services, Dover, N. H.

1953 Ed., Supp. 1, 1956; Supp. 2, 1957, Supp. 3, 1960; Supp. 4, 1965

The Handbook of Solvents 1953

Authors: Leopold Schefflan, Morris B. Jacobs, Ph.D

Pub: D. Van Nostrand Co. Inc., Toronto, N. Y., London

Hazardous Commodity Handbook 1st Ed.

pub: National Tank Truck Carriers Inc.

1616 P St., N.W., Washington, D.C. 20036 1968

Hazardous Materials Definitions

Abstracts from The Code of Federal Regulations, Title 49 --

Transportation, Parts 100-199

Pub: D.O.T. Office of Hazardous Materials May 1972

Industrial Pollution Control Handbook
Ed: Herbert F. Lund; Pres. Leadership Plus, Inc.
Former Editor-in-Chief, Factory Magazine
Pub: McGraw-Hill Book Co., New York, San Francisco 1971

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Executive Ed: Anthony Standen
Copyright 1972 by John Wiley and Sons, Inc.

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Ed: Paul G. Stecher
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Water Pollution

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APPENDIX C

MATERIAL CLASS, CAUSE AND OPERATIONAL AREA
FREQUENCY DISTRIBUTIONS - 1971, 1972, and Jan-June 1973

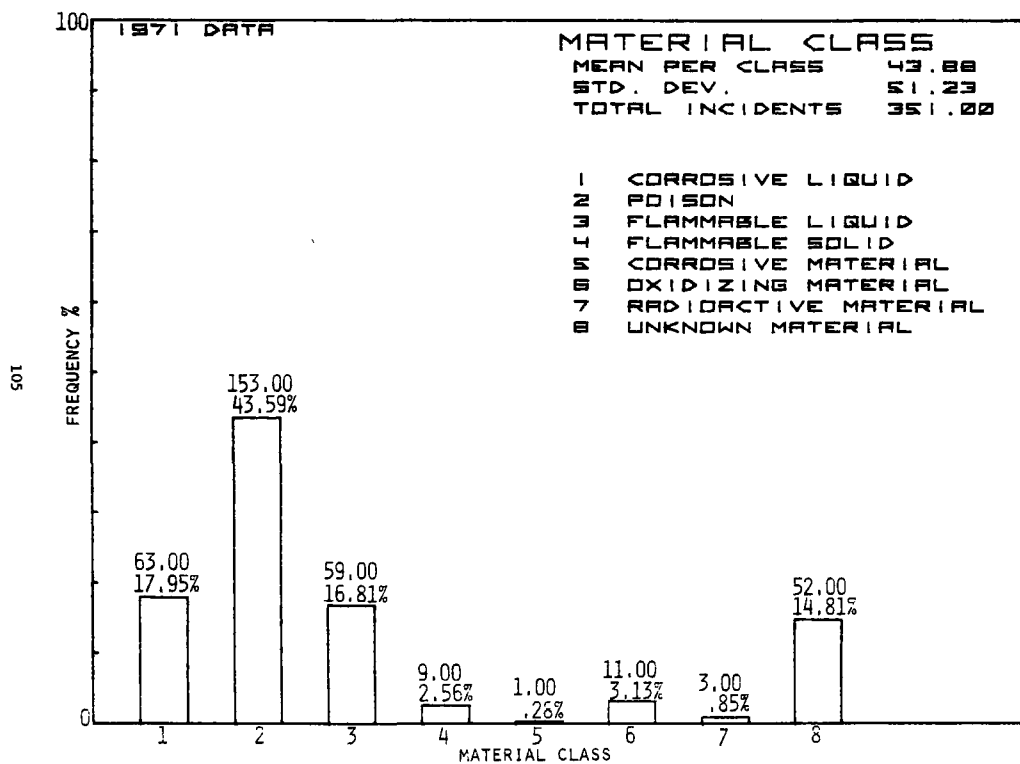


FIGURE C-1 1971 SPILLS BY MATERIAL CLASS, 1971

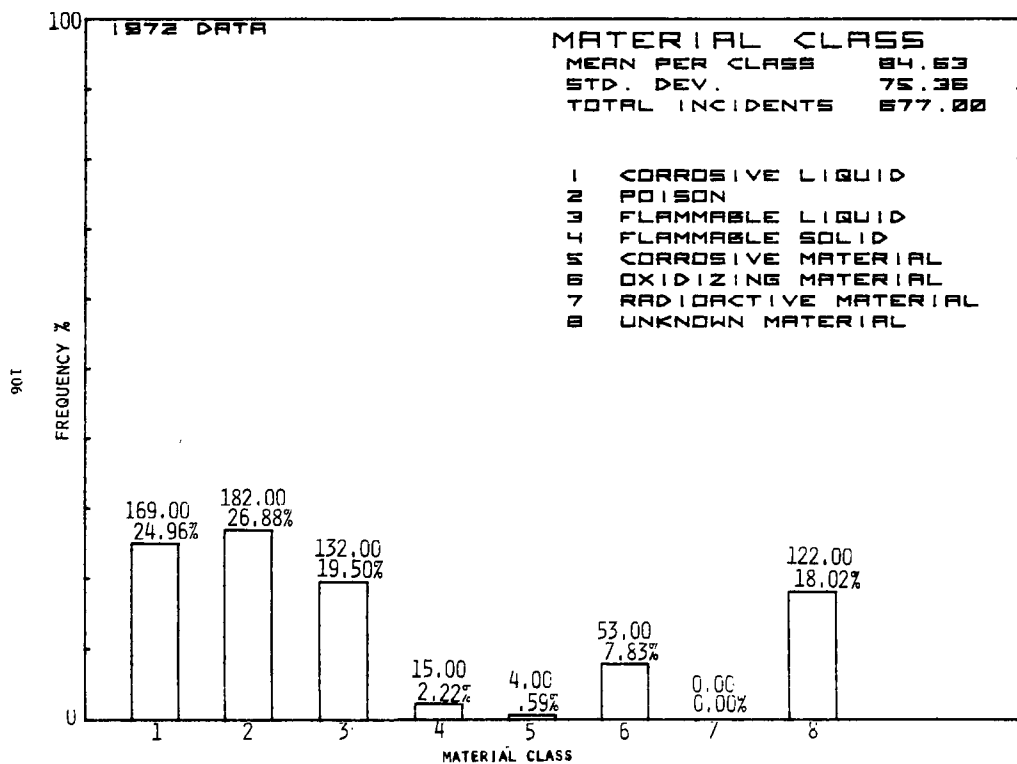


FIGURE C-2 1972 SPILLS BY MATERIAL CLASS, 1972

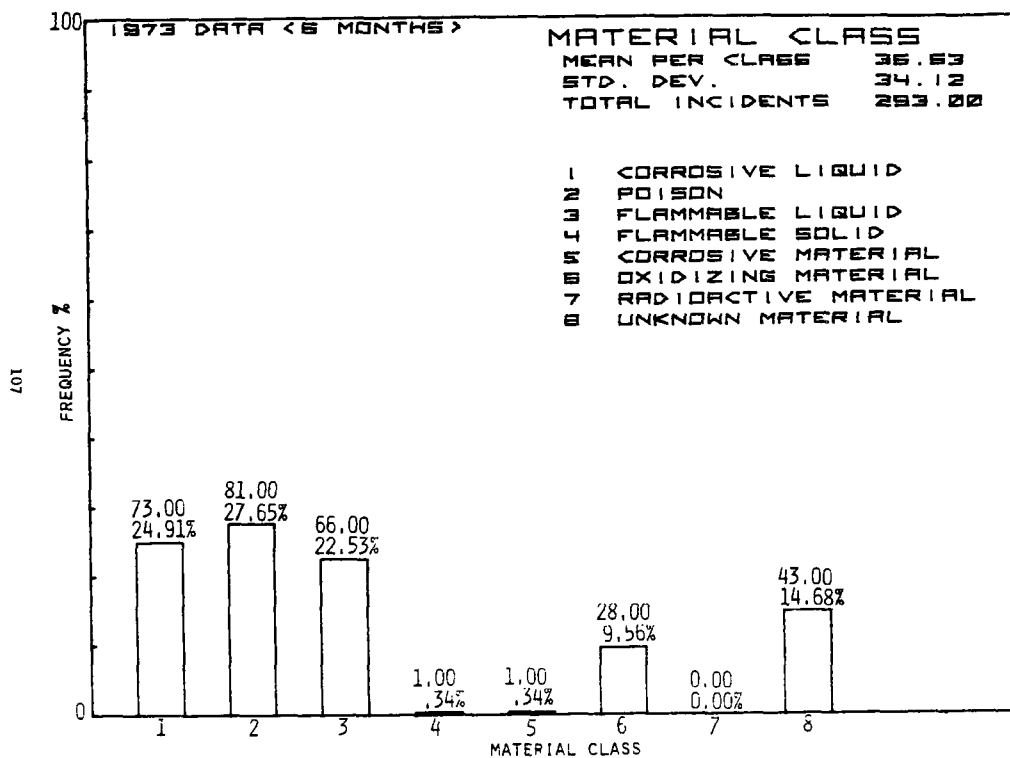


FIGURE C-3 1973 SPILLS BY MATERIAL CLASS, (6 MONTHS)

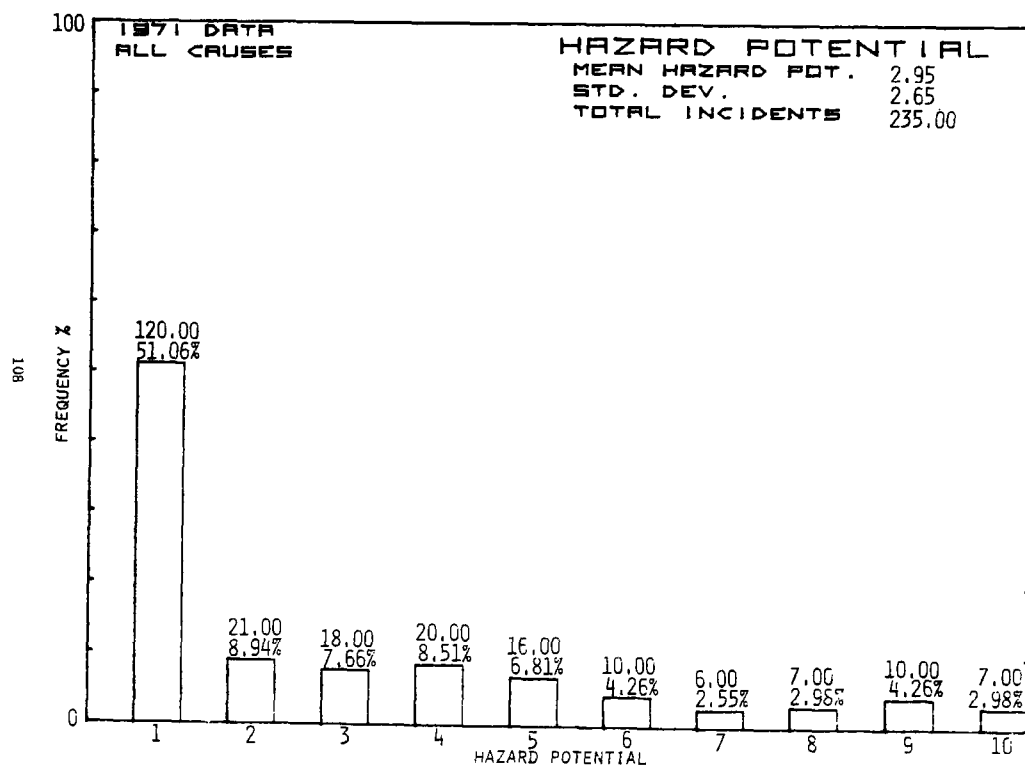


FIGURE C-4 1971 SPILLS BY HAZARD POTENTIAL

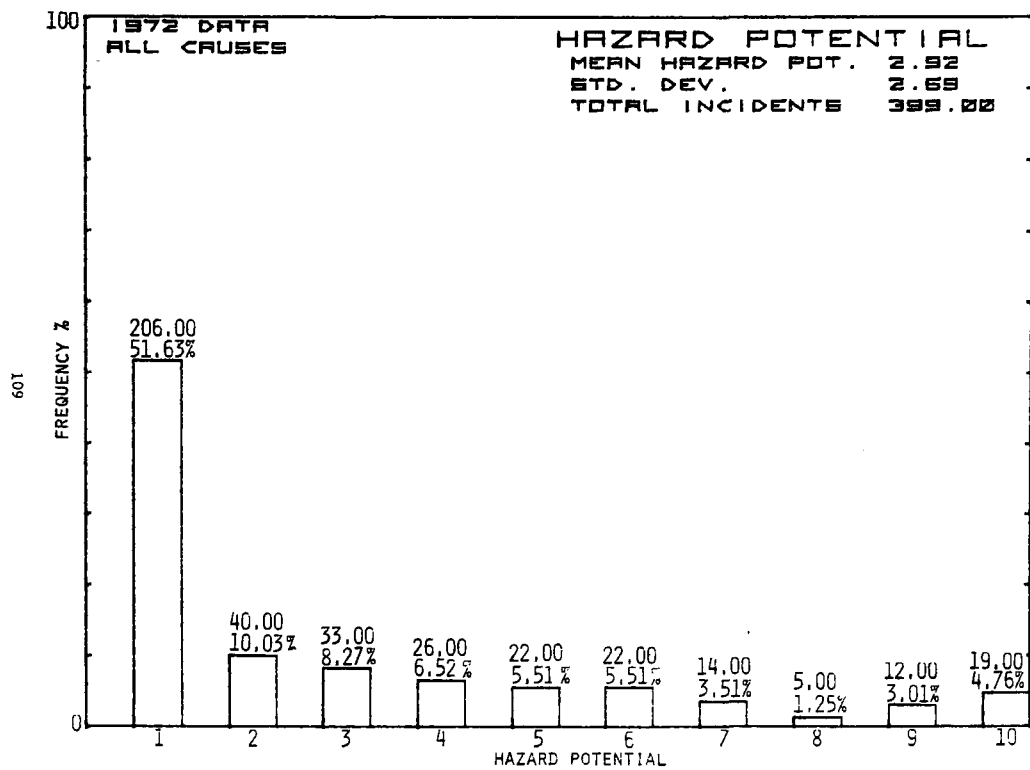


FIGURE C-5 1972 SPILLS BY HAZARD POTENTIAL

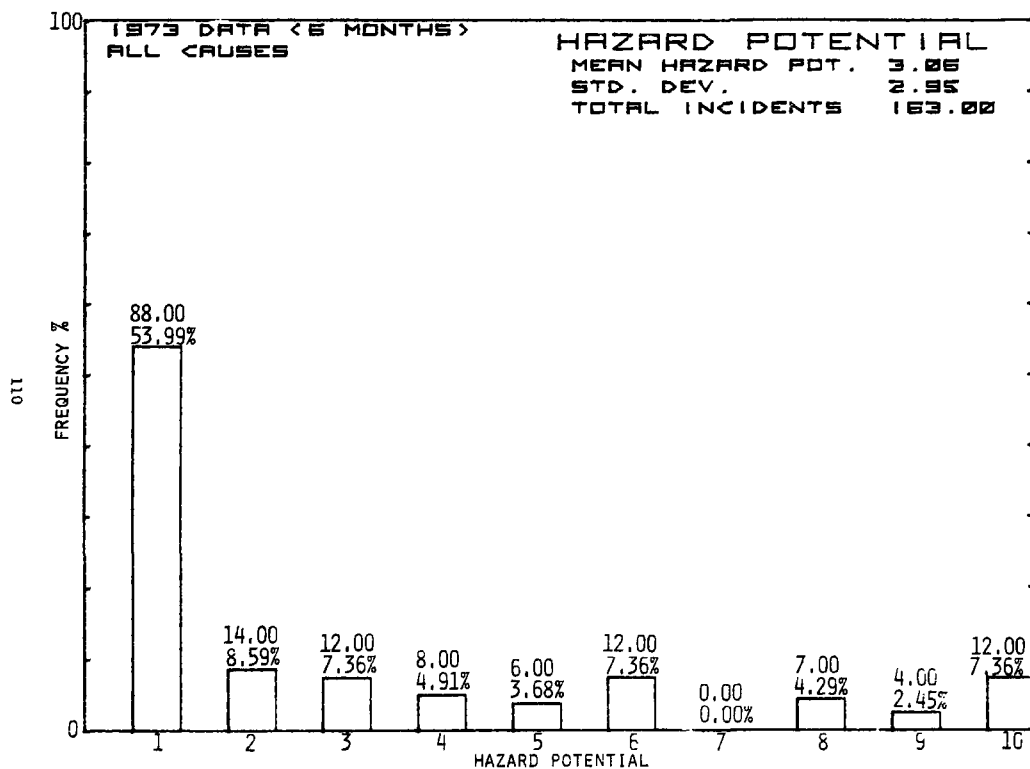


FIGURE C-6 1973 SPILLS BY HAZARD POTENTIAL (6MONTHS)

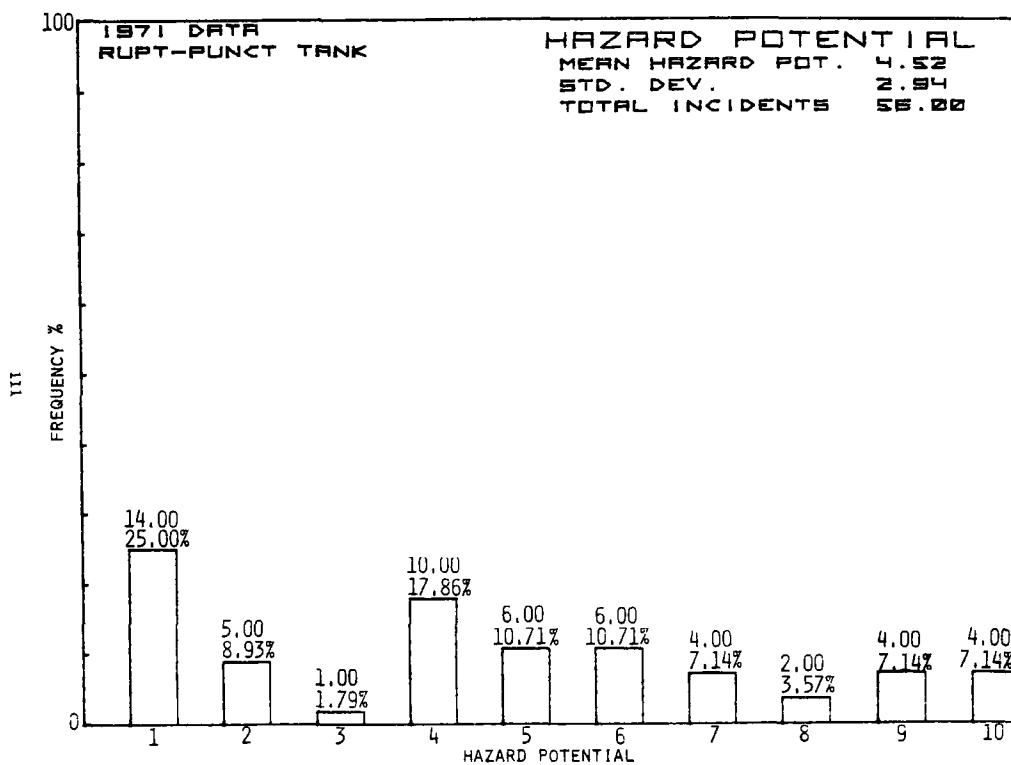


FIGURE C-7 1971 TANK RUPTURE-PUNCTURE SPILLS BY HAZARD POTENTIAL

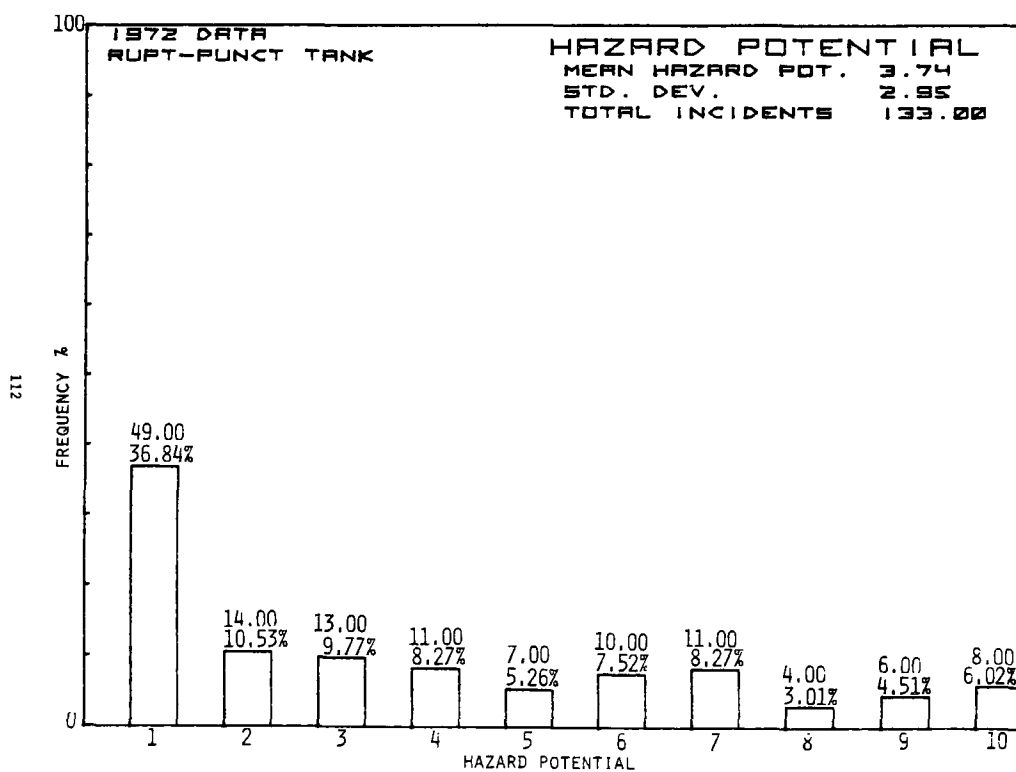


FIGURE C-8 1972 TANK RUPTURE-PUNCTURE SPILLS BY HAZARD POTENTIAL

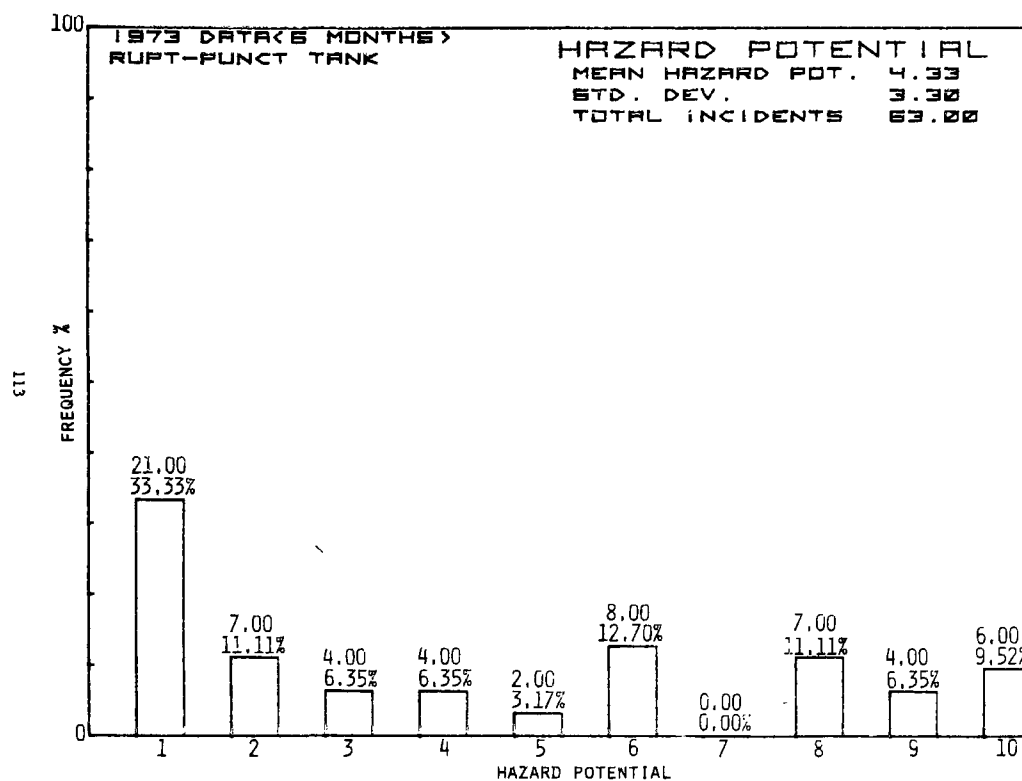


FIGURE C-9 1973 TANK RUPTURE-PUNCTURE SPILLS BY HAZARD POTENTIAL
(6 MONTHS)

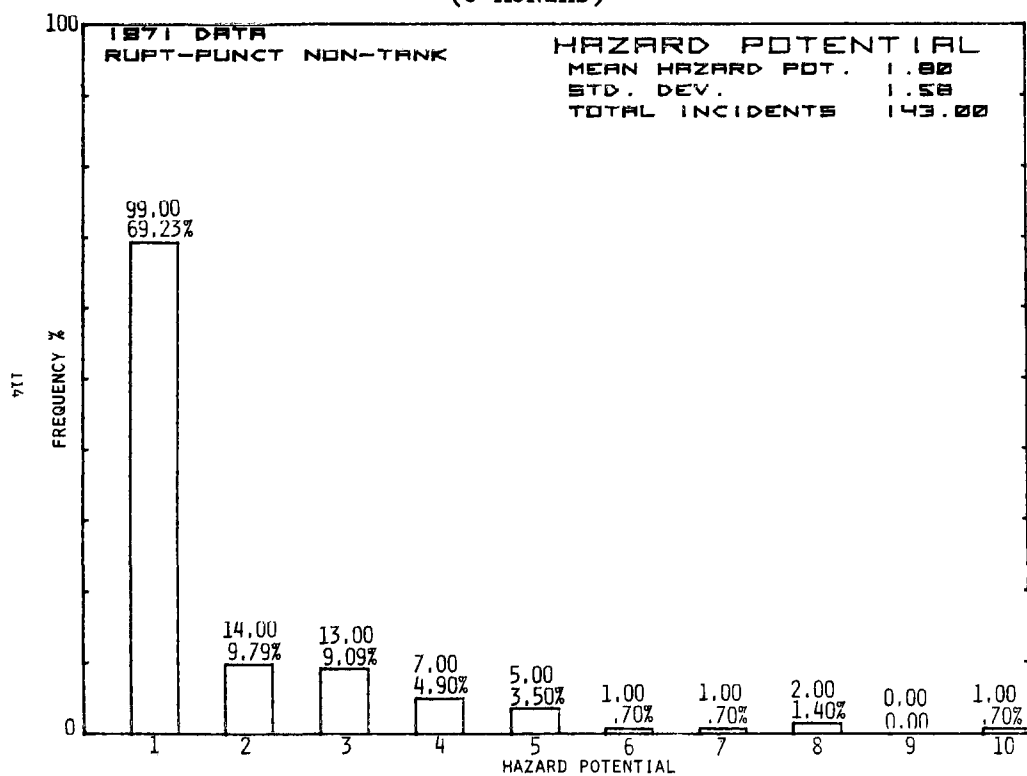


FIGURE C-10 1971 NON-TANK RUPTURE-PUNCTURE SPILLS BY
HAZARD POTENTIAL

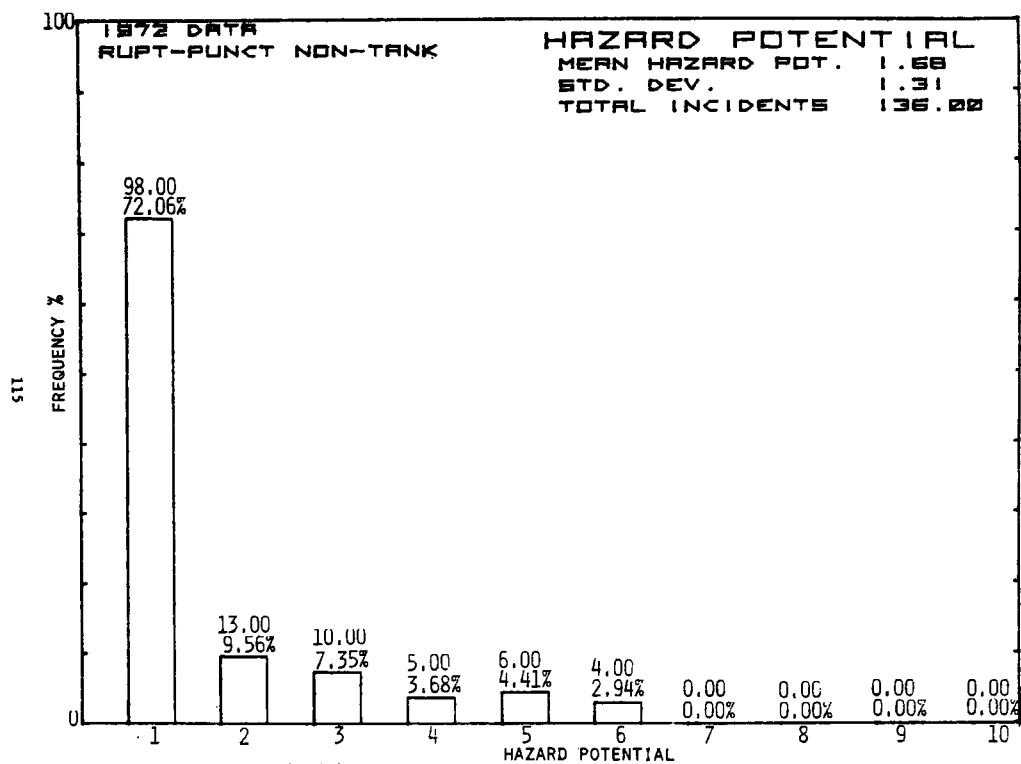


FIGURE C-11 1972 NON-TANK RUPTURE-PUNCTURE SPILLS BY HAZARD POTENTIAL

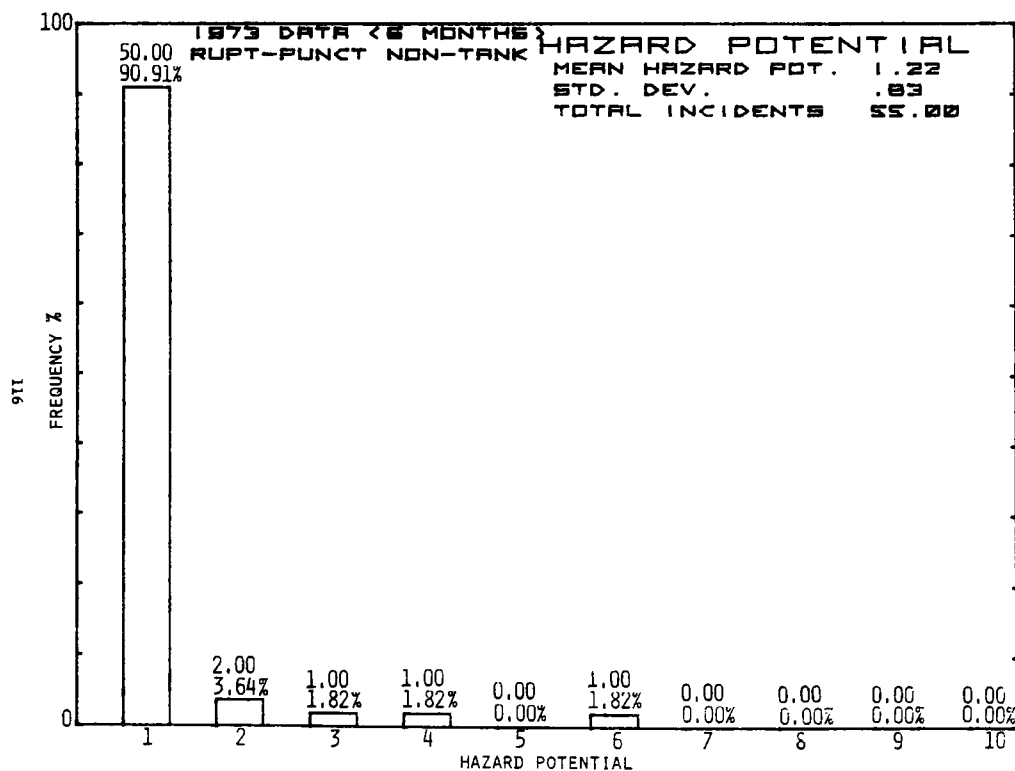


FIGURE C-12 1973 NON-TANK RUPTURE-PUNCTURE SPILLS BY HAZARD POTENTIAL (6 MONTHS)

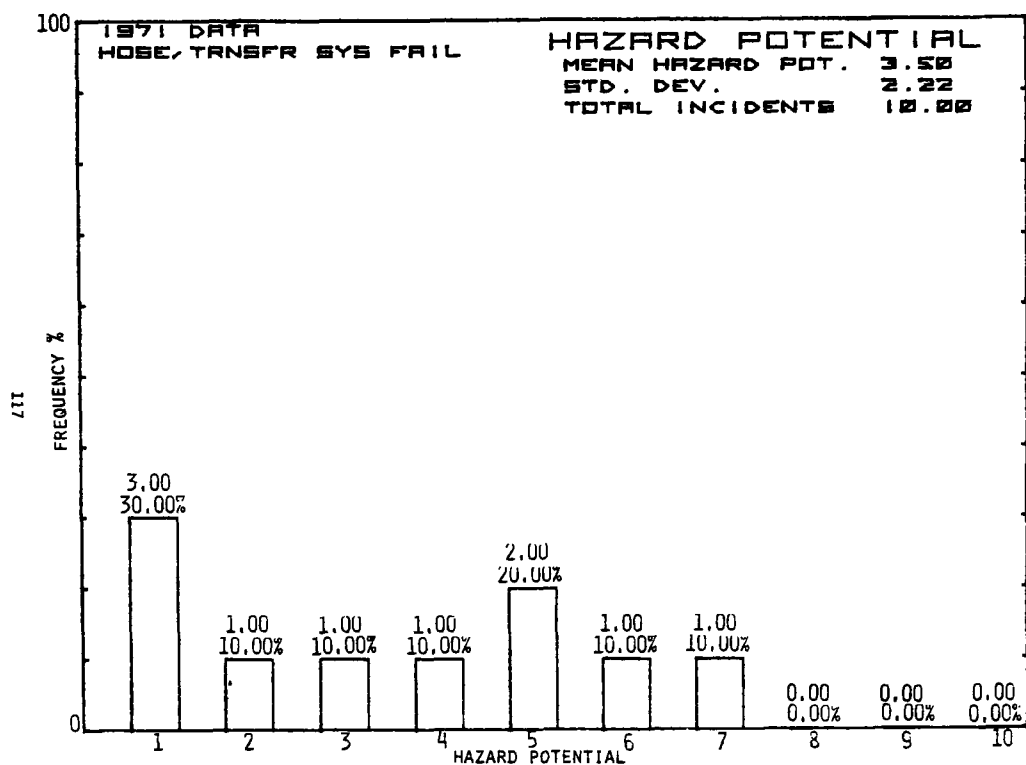


FIGURE C-13 1971 HOSE OR TRANSFER SYSTEM SPILLS BY HAZARD POTENTIAL

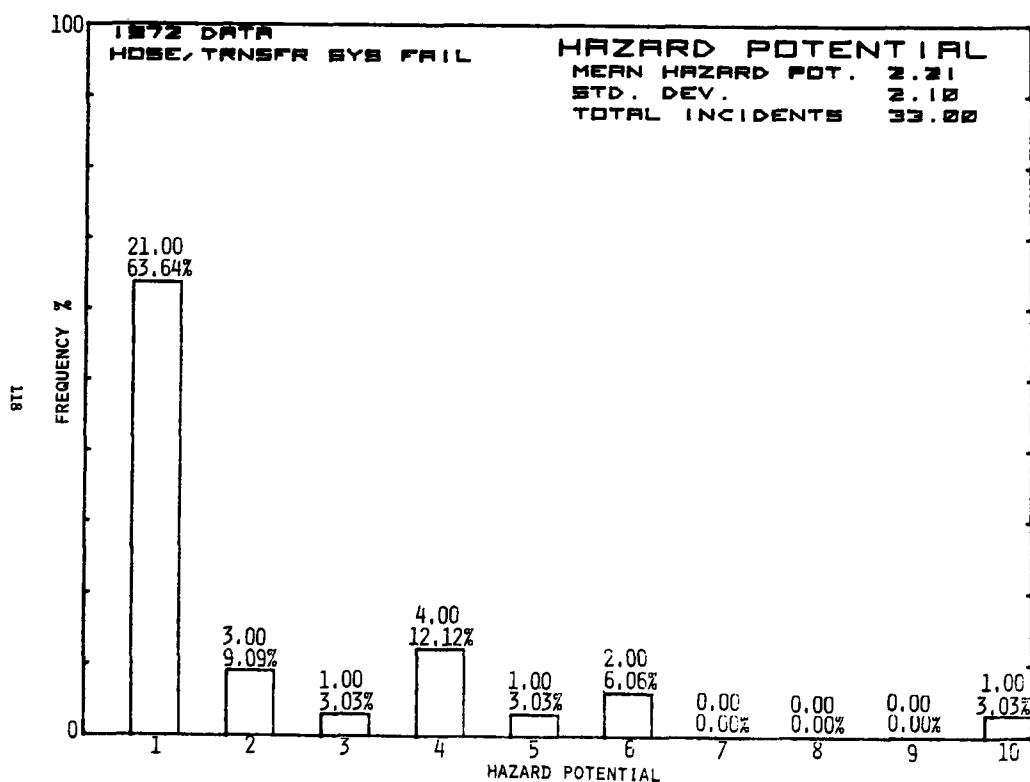


FIGURE C-14 1972 HOSE OR TRANSFER SYSTEM SPILLS BY HAZARD POTENTIAL

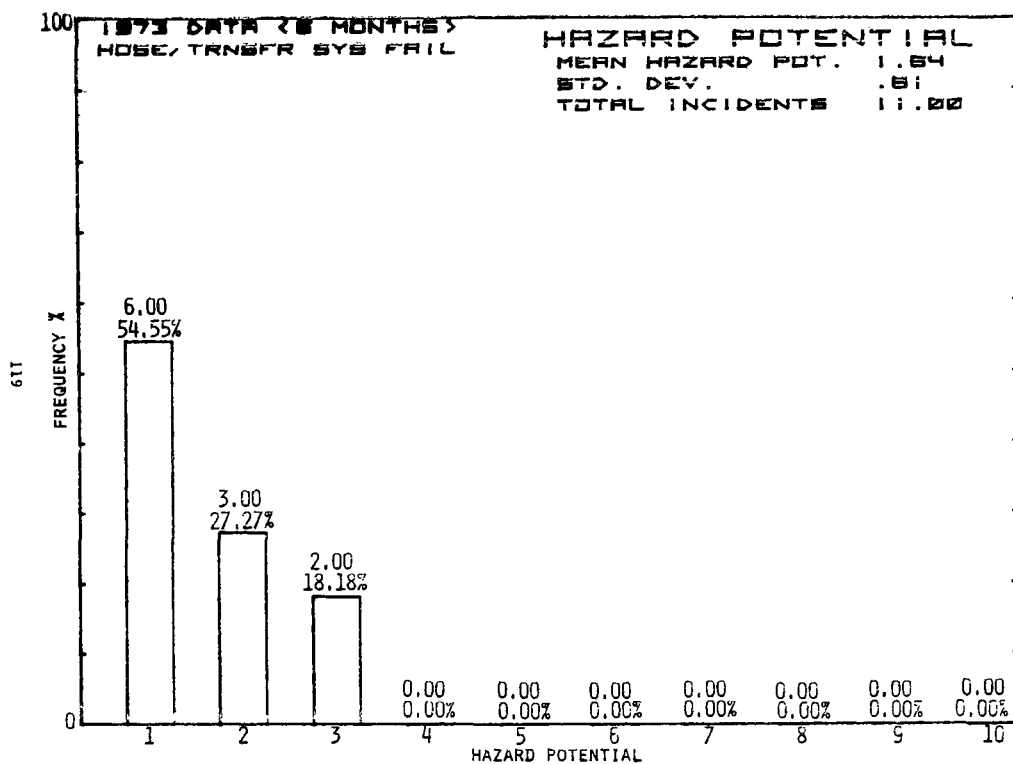


FIGURE C-13 1971 HOSE OR TRANSFER SYSTEM SPILLS BY HAZARD POTENTIAL (6 MONTHS)

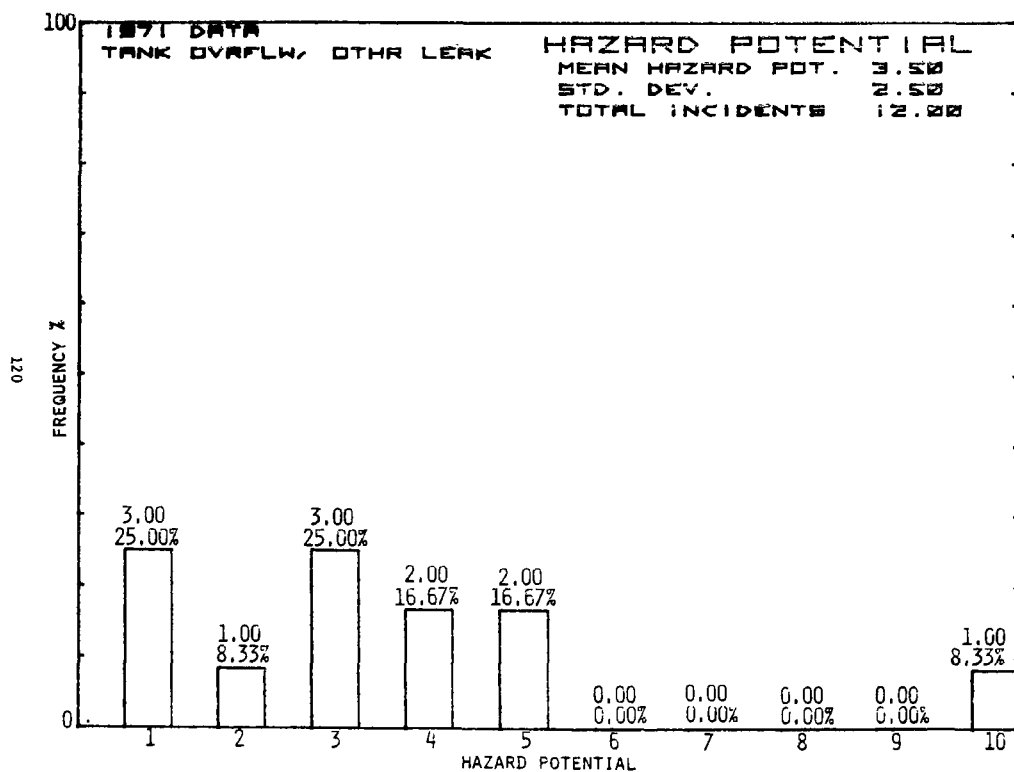


FIGURE C-16 1971 TANK OVERFLOW, OTHER LEAKAGES BY HAZARD POTENTIAL

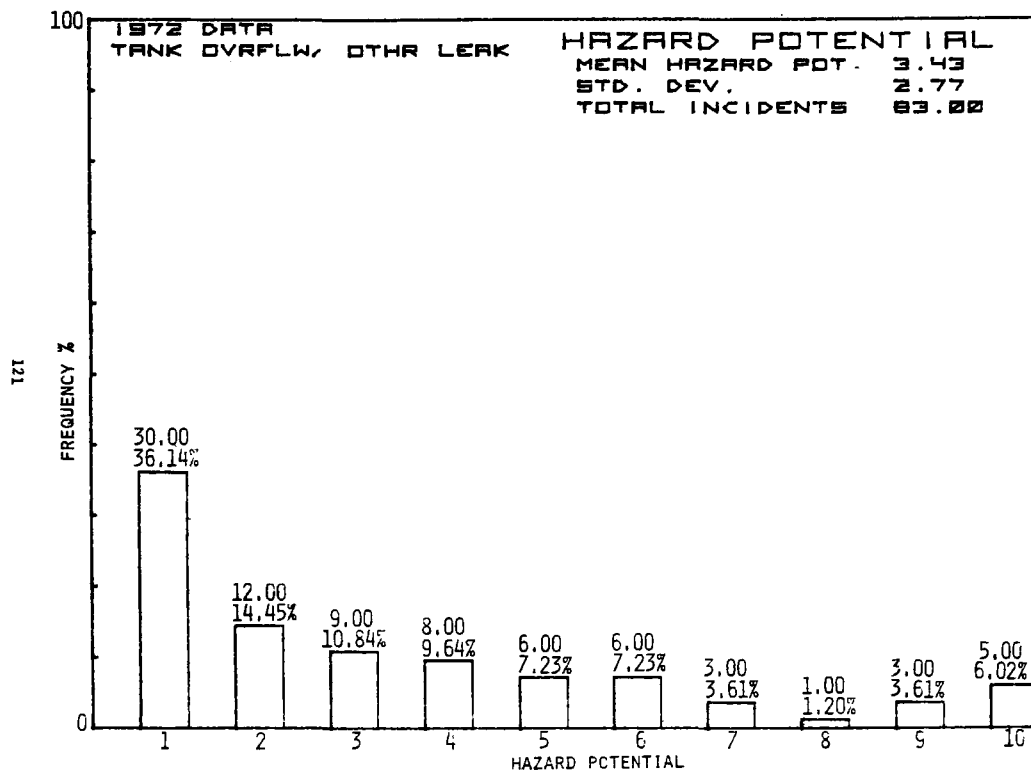


FIGURE C-17 1972 TANK OVERFLOW, OTHER LEAKAGES BY HAZARD POTENTIAL

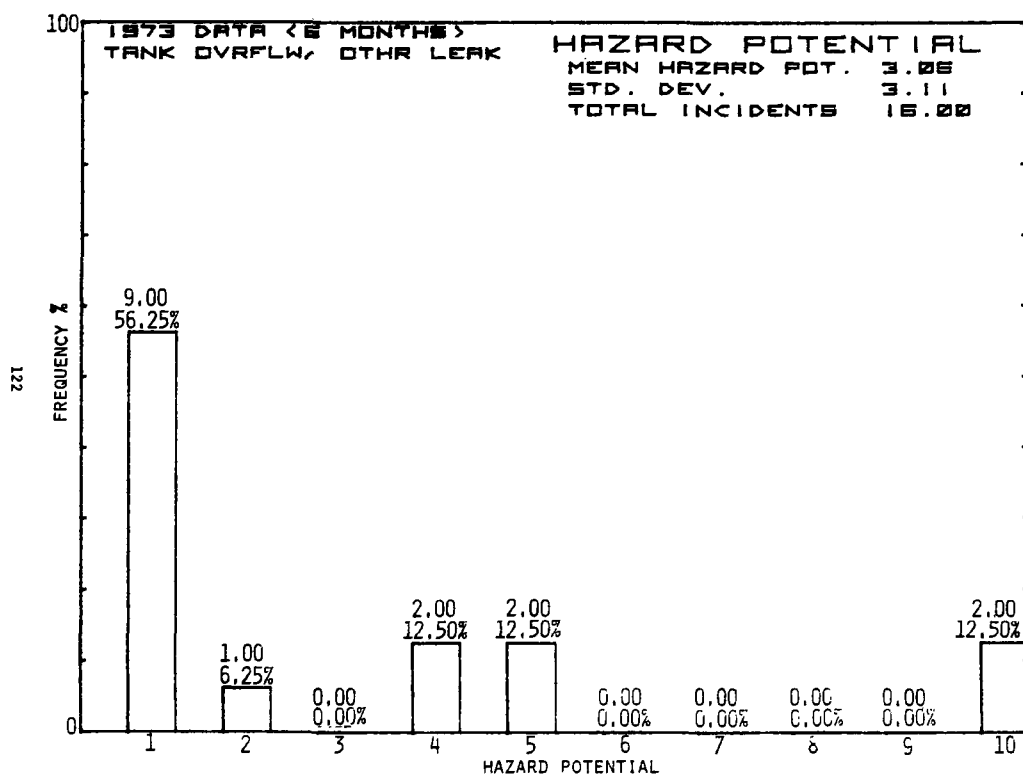


FIGURE C-18 1973 TANK OVERFLOW, OTHER LEAKAGES BY HAZARD POTENTIAL
(6 MONTHS)

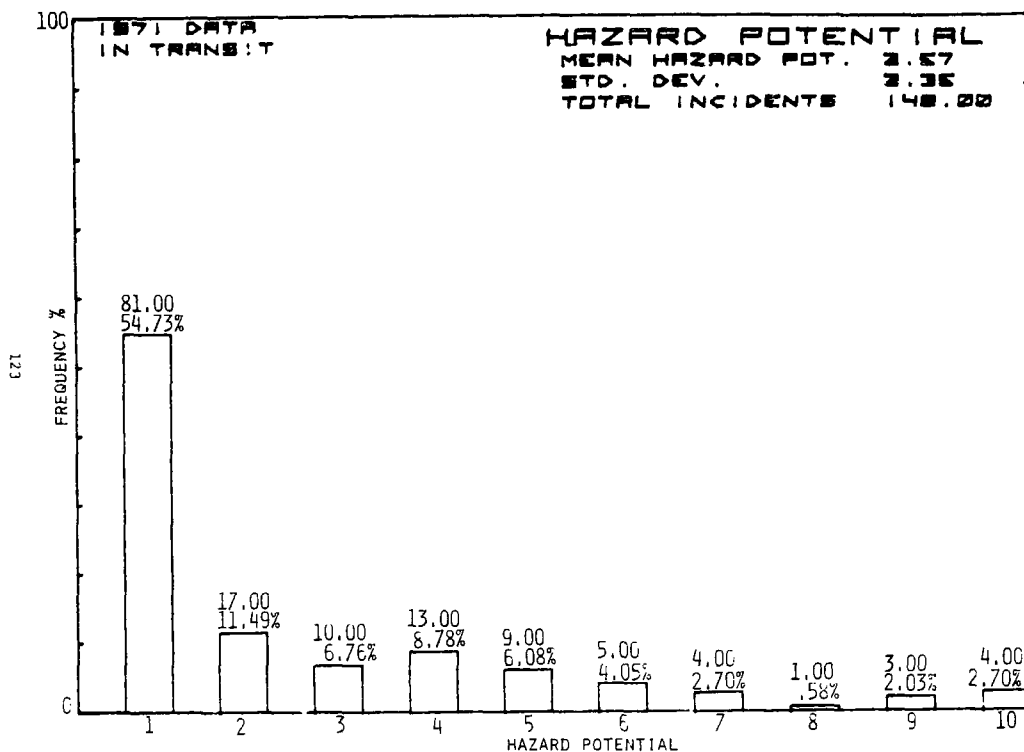


FIGURE C-19 1971 IN TRANSIT SPILLS BY HAZARD POTENTIAL

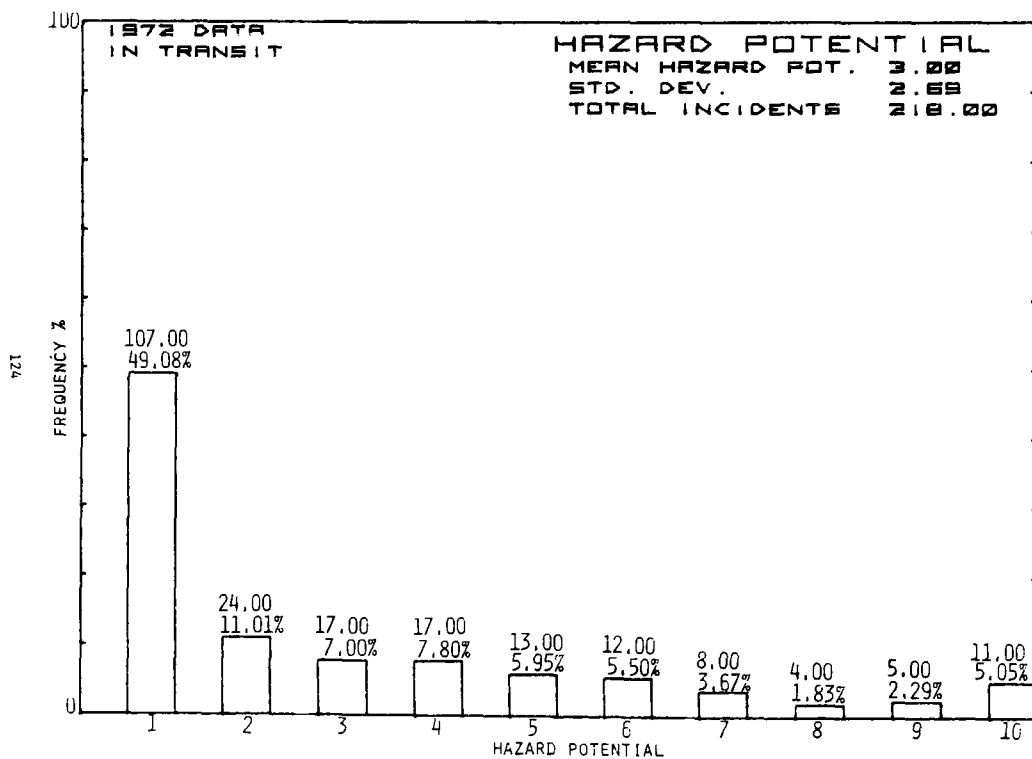


FIGURE C-20 1972 IN TRANSIT SPILLS BY HAZARD POTENTIAL

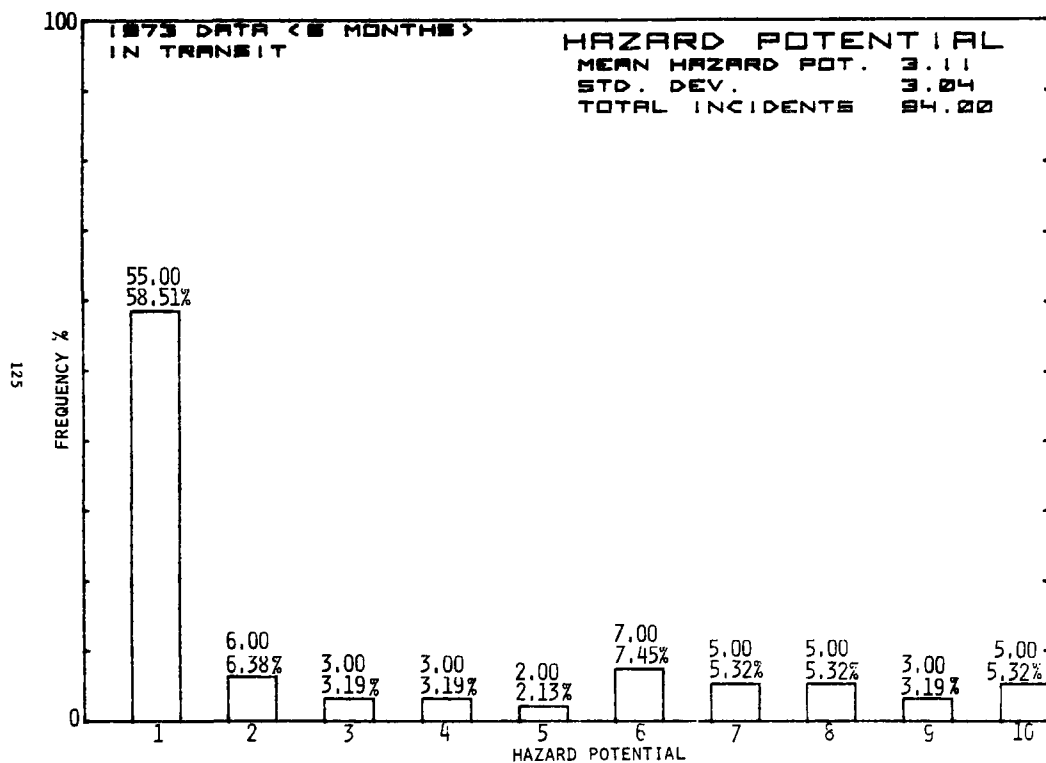


FIGURE C-21 1973 IN TRANSIT SPILLS BY HAZARD POTENTIAL
(6 MONTHS)

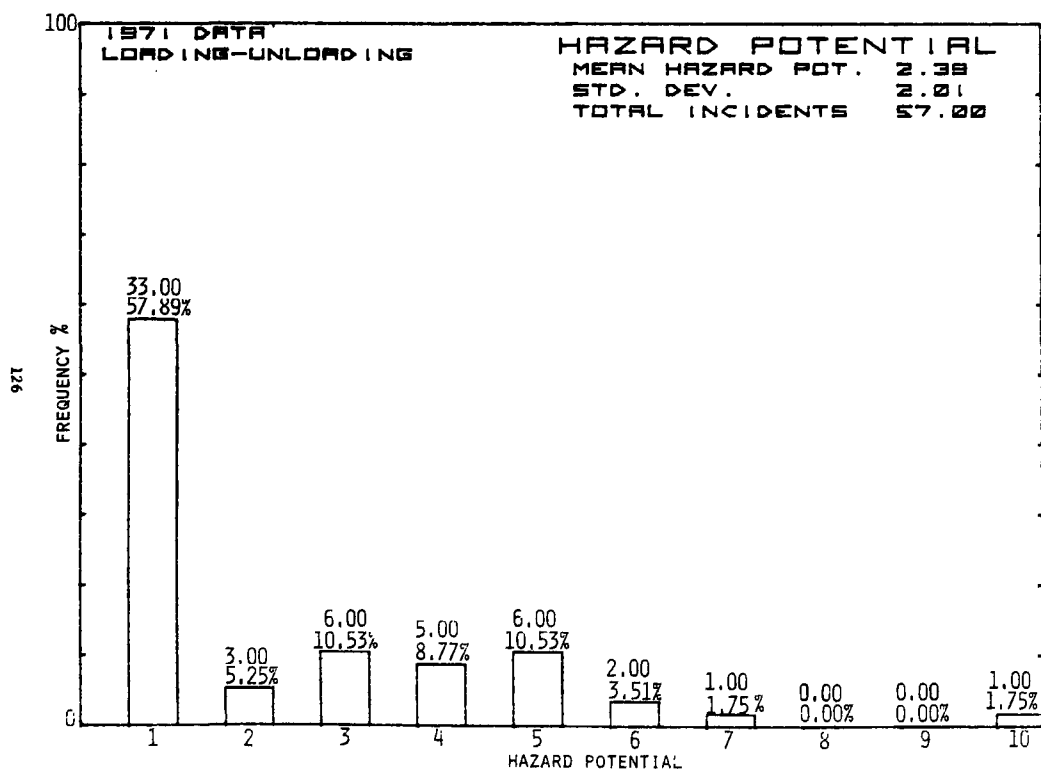


FIGURE C-22 1971 LOADING-UNLOADING SPILLS BY HAZARD POTENTIAL

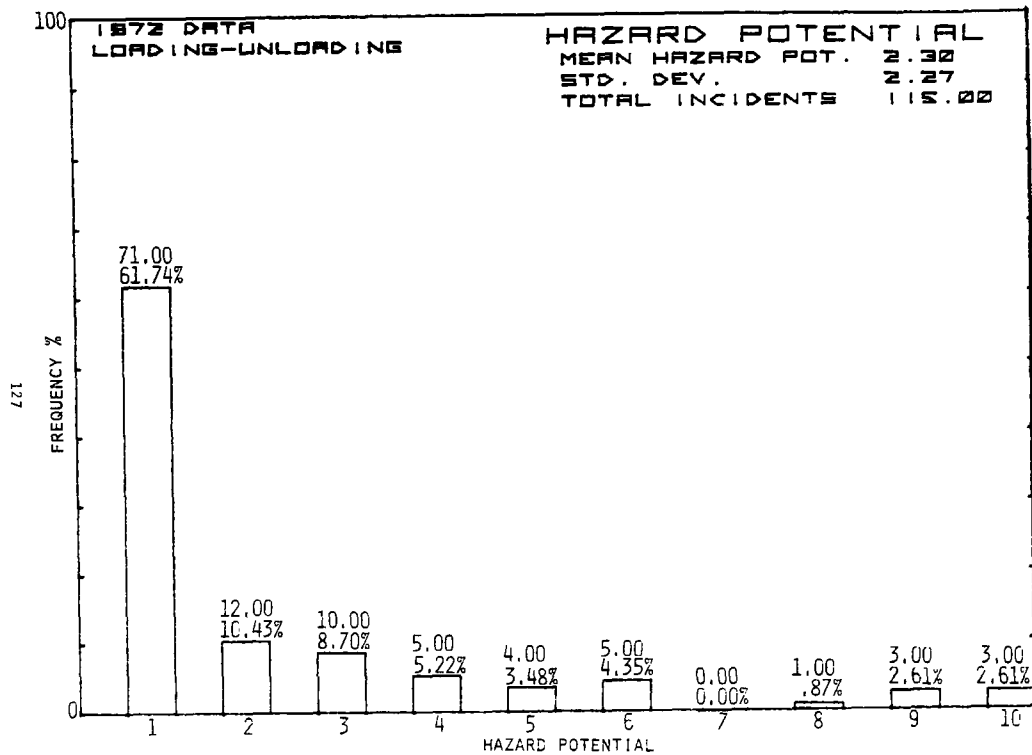


FIGURE C-23 1972 LOADING-UNLOADING SPILLS BY HAZARD POTENTIAL

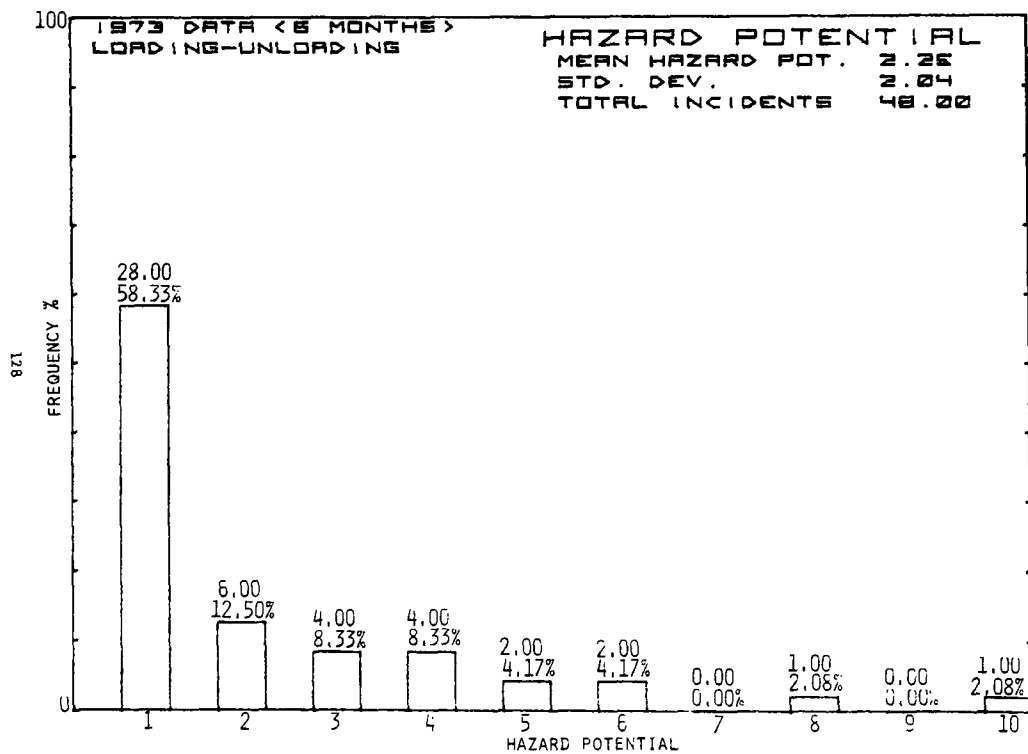


FIGURE C-24 1973 LOADING-UNLOADING SPILLS BY HAZARD POTENTIAL
(6 MONTHS)

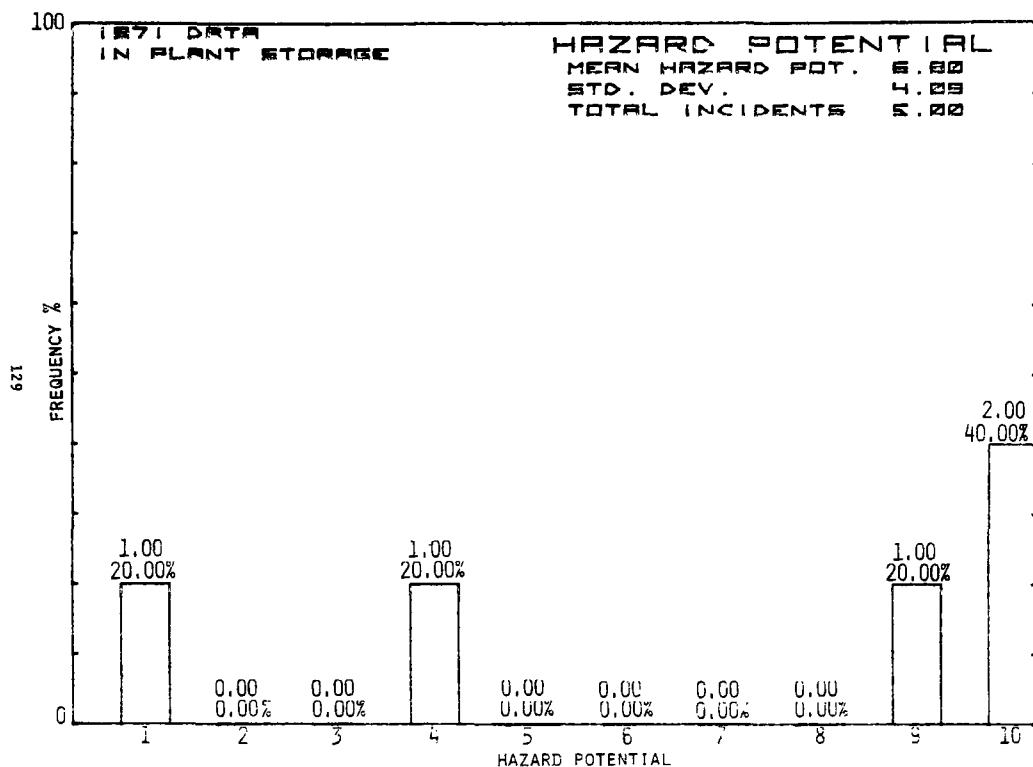


FIGURE C-25 1971 IN PLANT STORAGE SPILLS BY HAZARD POTENTIAL

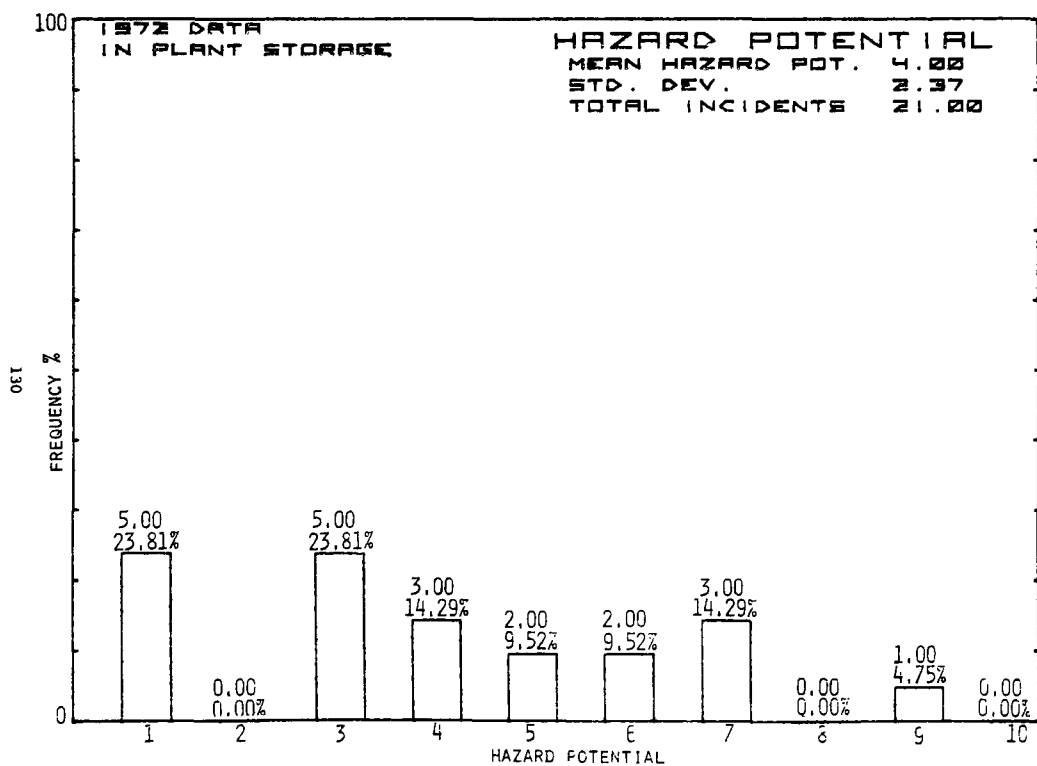


FIGURE C-26 1972 IN PLANT STORAGE SPILLS BY HAZARD POTENTIAL

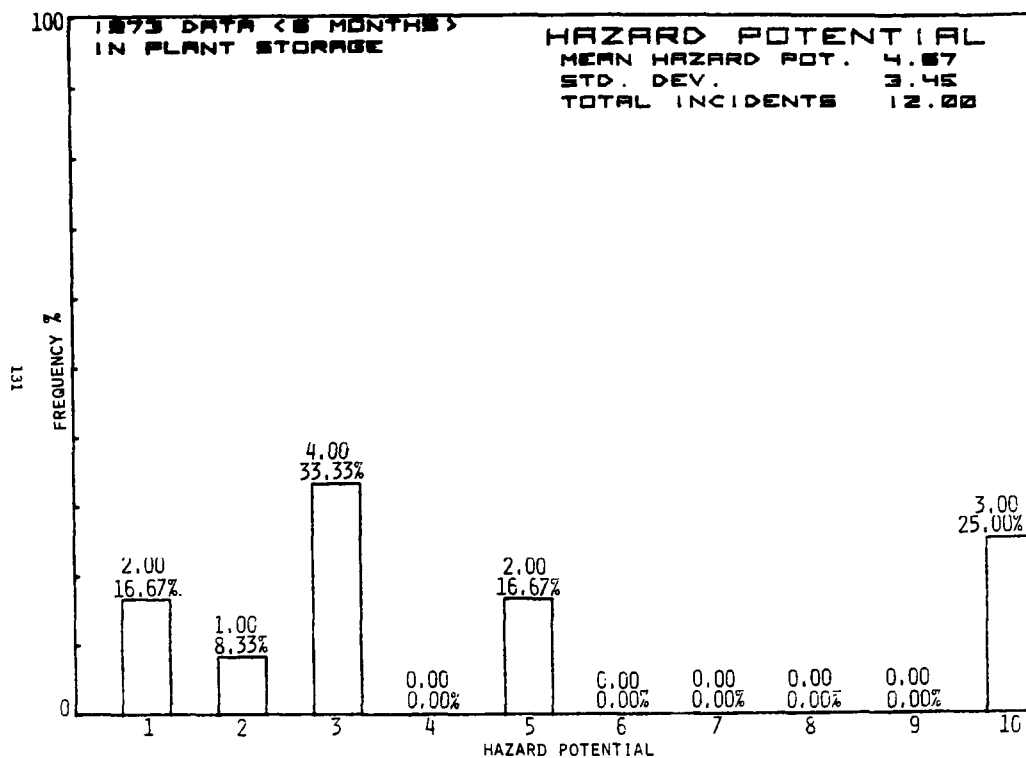


FIGURE C-27 1973 IN PLANT STORAGE SPILLS BY HAZARD POTENTIAL
(6 MONTHS)

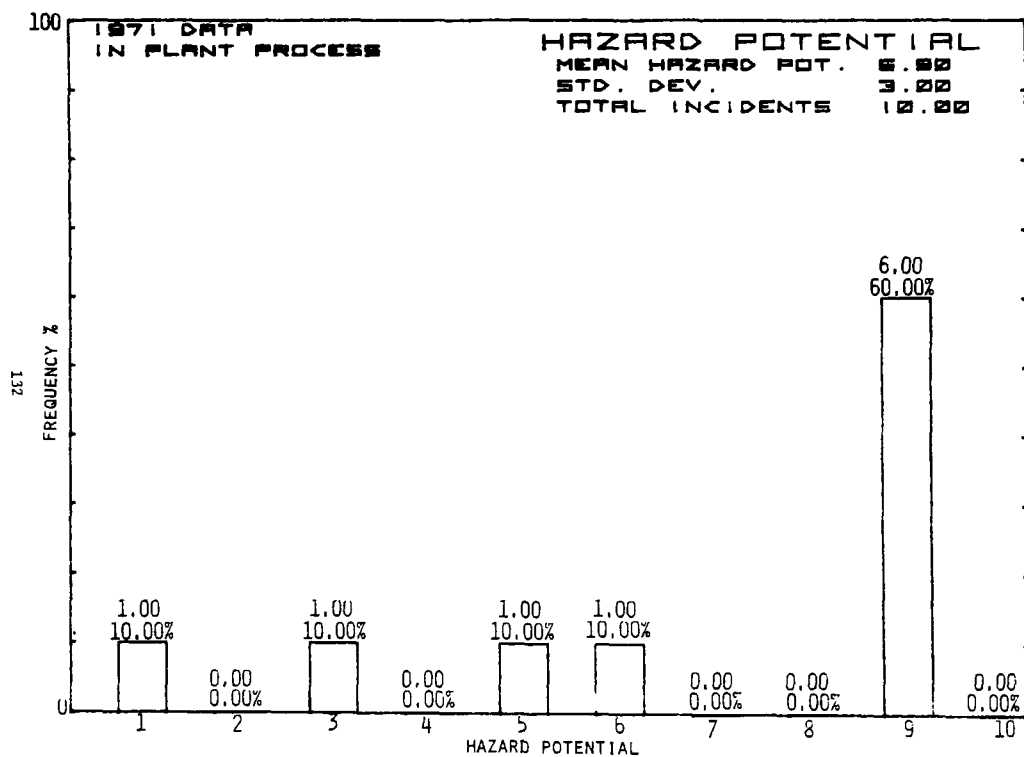


FIGURE C-28 1971 IN PLANT PROCESS SPILLS BY HAZARD POTENTIAL

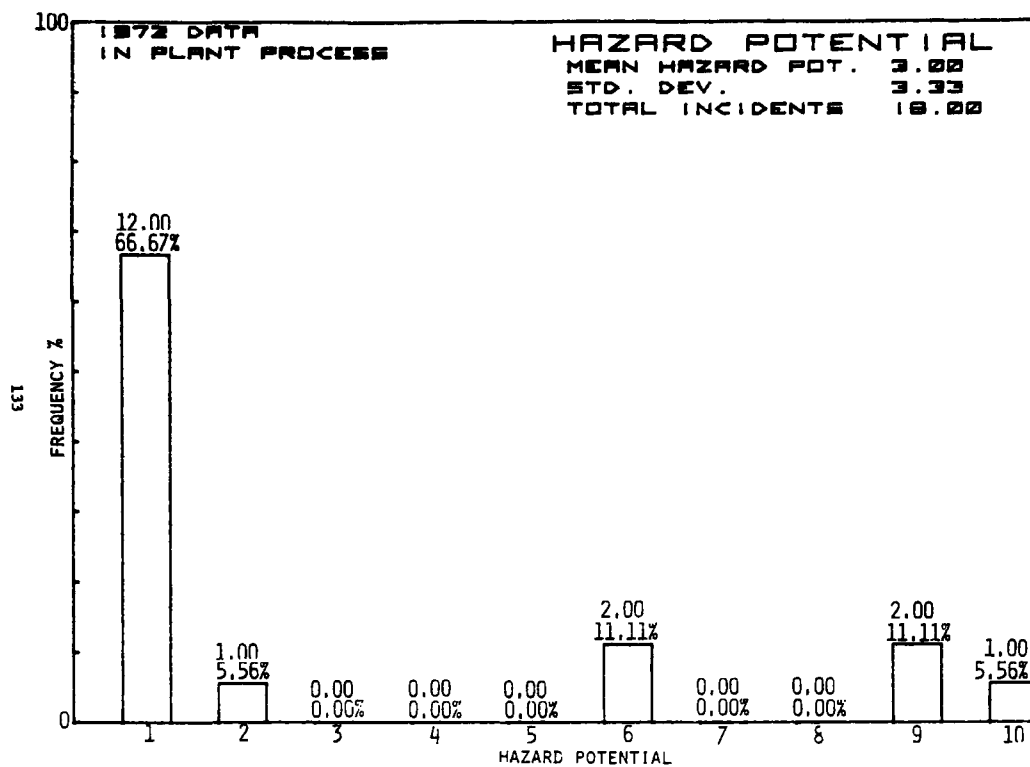


FIGURE C-29 1972 IN PLANT PROCESS SPILLS BY HAZARD POTENTIAL

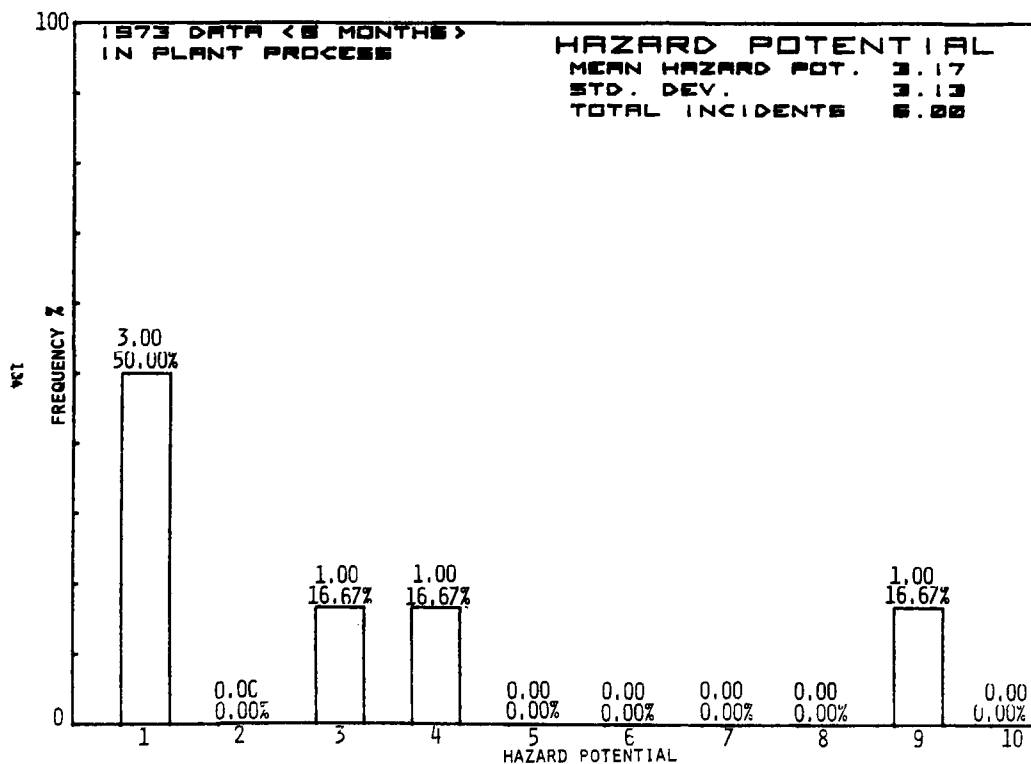


FIGURE C-30 1973 IN PLANT PROCESS SPILLS BY HAZARD POTENTIAL
(6 MONTHS)

APPENDIX D

CONSTRUCTION OF THE HAZARD POTENTIAL CATEGORIZATION TABLE

The Hazard Potential Categorization Table (HPC Table I) consists of columns corresponding to each relative hazard level (RHL) and rows corresponding to each hazard potential category (HPC). The numbers entered in the resulting matrix are spill quantities which are the upper boundary of the HPC (except for HPC 10 which includes everything above the upper bound of HPC 9). Calculation of these numbers is based on three factors:

- 1) A reference LD₅₀ chosen for each RHL
- 2) A volume of water
- 3) Ranges of percentages of the reference LD₅₀ (see Table B-1)

Table D-1. HAZARD POTENTIAL CATEGORY RANGES
IN TERMS OF REFERENCE LD₅₀

Hazard Potential

Category (HPC)	Theoretical Spill Concentration (TSC) As Percentage of Reference LD ₅₀ (RLD)
1	TSC < 1% RLD
2	1% RLD ≤ TSC < 2.5% RLD
3	2.5% ≤ TSC < 5% RLD
4	5% RLD ≤ TSC < 10% RLD
5	10% RLD ≤ TSC < 20% RLD
6	20% RLD ≤ TSC < 50% RLD
7	50% RLD ≤ TSC < 100% RLD
8	100% RLD ≤ TSC < 200% RLD
9	200% RLD ≤ TSC < 500% RLD
10	TSC ≥ 500% RLD

In choosing the reference LD₅₀'s, the toxicity range of each RHL was considered. The reference LD₅₀ used for RHL's 2-5 was one half the upper limit of their respective LD₅₀ ranges (Section V, Table 1). The reference LD₅₀ chosen for RHL 1 (which has no upper limit) was 7500 mg/kg, the average of the lower limits of LD₅₀ ranges considered to be the lowest ingestion hazard by references. (5,6,7)

The volume of water chosen was approximately 103 million liters. The reason for this choice was that it was felt the volume of water should have some relation to actual waterways yet shouldn't be overwhelmingly large. The selected volume was reasonable in size and representative of one hour's flow at summer flow rates in a number of inland rivers used for transportation of hazardous materials. (7)

The ranges of percentages of reference LD₅₀ in Table B-1 were made approximately according to the semi-log plot of percentages from 1 to 500 over HPC's 1 through 9, the origin designated HPC 1 (i.e. less than 1% of reference LD₅₀ is HPC 1, more than 500% of reference LD₅₀ is HPC 10).

To tie these three factors together, the concept of a theoretical spill concentration (TSC) was used. Whatever type of material is spilled, the quantity spilled forms a ratio with the chosen volume of fresh water in terms of mgs of pollutant to 1 kg or liter of water, the TSC that would be reached if the spilled material could be mixed fully in the fresh water. The TSC is related as a percentage to the reference LD₅₀ pertaining to the material. If a spill were to result in a TSC of 1 mg of pollutant to 1 kg or liter of water (i.e. approximately a 100 liter spill) and if the reference LD₅₀ were 50 mg/kg (i.e. the material has RHL 4) the TSC as a percent of reference LD₅₀ would be $1 \div 50 = 2$ percent. By Table 1, that spill would fall in HPC 2.

Using the reference LD₅₀'s of the five RHL's, the chosen volume of water, and the percentages which divide the HPC categories, the quantities in the HPC Table were calculated as follows:

Ref. LD₅₀ x Volume of Water x Percent Ref. LD₅₀ = Quantity
Calculated quantities were founded off and entered into the table.

APPENDIX E

MOST FREQUENTLY REPORTED SPILLED MATERIAL (WITH SPILL SIZE DATA)

1968 - JUNE 1973*

	No. of Reports**	Total	Spill Quantities(l or kg)	
			Average***	Largest
Sulfuric Acid Spills, Oleum	106	2,700,000 l	30,000 l	1,100,000 l
Ammonium Nitrate Fertilizer	77	1,200,000 kg	16,000 kg	910,000 kg
Ind. Wastes, Chemicals	64	7,600,000,000 l	330,000,000 l	7,600,000,000 l
Organic Phosphates & Phosphate Compounds****	52	1,700 l	34 l	320 l
Insecticide (unspecified)	49	870 l	20 l	300 l
Caustic Soda, Sodium Hydroxide	47	610,000 l	15,000 l	190,000 l
Hydrochloric Acid, Muriatic Acid	44	560,000 l	13,000 l	360,000 l
Weed Killing Compound	34	1,400 l	45 l	150 l
Ethyl Parathion, Parathion				
Liquid	26	16,000 l	620 l	14,000 l
Phenol, Carbollic Acid	24	290,000 l	15,000 l	87,000 l
Anhydrous Ammonia	20	2,000,000 l	150,000 l	1,000,000 l
Methyl Parathion	20	460 l	26 l	210 l
Toluene, Toluol	19	360,000 l	24,000 l	38,000 l
Dinitro Phenol	18	560 l	33 l	340 l
Nitric Acid	17	260,000 l	18,000 l	140,000 l
Alcohol, Methyl; Methanol	17	700,000 l	44,000 l	270,000 l
Xylene, Xylol	15	710,000 l	64,000 l	560,000 l
Ink	14	47,000 l	3,300 l	22,000 l
Paint, Wood Stain	14	27,000 l	3,400 l	7,100 l
Methyl Ethyl Ketone	12	64,000 l	7,100 l	23,000 l
Sodium Arsenite	12	280 l	23 l	76 l
Sodium Hydrosulfite	11	76,000 l	7,600 l	64,000 l

Fifty-seven spills are multiple, i.e. involved more than one material.

* Only 76 reports were documented for years prior to 1971.

** Some duplicate reports are included in the total, generally less than 10%. Duplication was eliminated in calculating other statistics.

*** Average for spills in which quantity was known.

**** Fort Meade, Fla., spill of phosphate from lagoon is included in industrial wastes. This 7,600,000,000-l spill was waste and less toxic than organic phosphate materials.

APPENDIX F HAZARDOUS MATERIAL SPILLS IN CHRONOLOGICAL ORDER

DATE	LOCATION	MATERIAL	CLASS	Q U A N T I T Y	F A T A L I T Y	I N J U R I E S	H A Z A R D	P R I M A R Y	D M G \$	CAUSE 1	2ND CAUSE	3RD CAUSE	4TH CAUSE	CONTAINER	M	O P S O U R C E P A E
1. 1/ 1/68	DUREITH , IN	ACETONE	FL	0E0L	5	0	99	0E0	RP-TK	DRLMENT				TK CR RR	0 02 9	
2. 3/30/68	PACIFIC ,	WASTE-PICKL	CL	0E0U	0	0	99	0E9	OVRFW	INTNL REL	NMRL OP			BARGE BK	0 02 6	
3. 7/27/68	GUADALUP, CA	SODIUM-CHRM	BP	CE0U	0	0	0	0E9	CTHER	UNKNOWN					0 06 6	
4. 11/19/68	SANDIAGO, CA	MOLASSES	UN	0E0U	0	0	99	0E9	GVRFW	INTNL REL	NMRL OP				0 00 6	
5. 12/20/68	PT ALBANY, NY	MOLASSES	UN	76E5L	0	1	99	0E0	RP-TK	CONTR FLRE	DFCTV WELD			CKG/MX T	0 03 9	
6. 1/16/69	HAHEL-CR, CA	PAINT	FL	0E0U	0	0	99	0E9	CTHER	UNKNOWN					0 06 6	
7. 2/18/69	CRETE , NB	ANH-AMMONIA	UN	0E0U	5	0	99	0E0	RP-TK	DRLMENT				TK CR RR	0302 9	
8. 3/13/69	NAPA , CA	HERBICIDE	BP	38E3L	0	0	6	0E9	OVRFW	OPN VALVE				STO TANK	1 03 6	
9. 3/13/69	NAPA , CA	MULTIPLE	BP	76E3L	0	0	6	0E9	OVRFW	OPN VALVE	INTNL REL	VANDALISM		STO TANK	2 03 6	
10. 3/13/69	NAPA , CA	GAS-DIESEL	FL	38E3L	0	0	6	0E9	OVRFW	OPN VALVE				STO TANK	1 03 6	
11. 3/27/69	RICHMOND, CA	INDUS-WASTE	UN	0E0U	0	0	99	0E9	GVRFW	INTNL REL	PRNSLL ERR				0 04 6	
12. 8/ 5/69	OKLAND , CA	MOLASSES	UN	24E3K	0	0	99	0E9	RP-TK	UNKNOWN	UNKNOWN			TK TRLR	0 02 6	
13. 8/ 7/69	SOLOMON , KA	ANH-AMMONIA	UN	15E4L	0	0	9	25E0	OVRFW	RPTRD PIPE	STRK BY V			PIPES	0 02 7	
14. 8/ 8/69	SAN-CARL, CA	INDUS-WASTE	UN	0E0U	0	0	99	0E9	GVRFW	PRNSLL ERR	UNKNOWN				0 00 6	
15. 8/11/69	SAN-FRIS, CA	MOLASSES	UN	0E0U	0	0	99	0E9	GVRFW	UNKNOWN	PRNSLL ERR			SHIP	0 00 6	
16. 9/ 0/69	JACKSON , MI	INDUS-CHEM	UN	19E2L	0	0	99	0E0	OVRFW	INTNL REL	PRNSLL ERR			STO TANK	0 0311	
17. 9/ 7/69	FARNSWTH, TX	ANH-AMMONIA	UN	16E4L	0	0	10	75E0	OVRFW	RPTRD PIPE	STRK BY V			PIPES	0 02 7	
18. 9/11/69	GLENDORA, MS	VINYL-CHLOR	FL	0E0L	1	0	99	0E0	RP-TK	DRLMENT				TK CR RR	0 02 9	
19. 10/15/69	RICHMOND, CA	CHROMIC-ACI	BP	0E0U	0	0	99	0E9	OTHER	MECH FAIL					0 04 6	
20. 12/ 3/69	TALLABOA, PR	RAFFINATE	UN	76E1L	0	0	99	0E0	OVRFW	OPN VALVE	PRNSLL ERR			PIPES	0 04 3	
21. 12/23/69	W-PHILAC, PA	TRICHLORETH	BP	4E0L	0	0	1	0E9	GVRFW	CNTRL INOP					0 04 3	
22. 12/30/69	TOLEDO , OH	MULTIPLE	FL	30E1L	0	0	1	20E0	TS FL	HSE, CPL FA	DRLM&OVRTN	RDWY CONDS	BK CR RR	2422 3		
23. 12/30/69	TOLEDO , OH	DIESEL-FUEL	FL	30E1L	0	0	1	10E0	TS FL	HSE, CPL FA	DRLM&OVRTN	RDWY CONDS	BK CR RR	1 02 3		
24. 12/30/69	TOLEDO , OH	HOTSLAG	UN	0E0U	0	0	1	10E0	TS FL	HSE, CPL FA	DRLM&OVRTN	RDWY CONDS	BK CR RR	1 02 3		
25. 0/ 0/70	COMMERCE, CA	FATTY ACIDS	UN	76E2L	0	0	3	0E0	OVRFW	CHMCAL RE	IMPR EQ OP	PRNSLL ERR	CKG/MX T	0 04 3		
26. 1/ 1/70	PARK-FOS, IL	RESIN-SOLUT	FL	0E0U	0	0	99	0E9	OVRFW	UNKNOWN	FIRE			STL DRUM	0 04 3	
27. 1/21/70	DAVENPRT, IA	PAINT	FL	0E0U	0	0	99	0E9	OTHER	SPCN CGMB	SPKLRS CSC				0 04 3	
28. 2/18/70	DEER PRK, TX	MULTIPLE	CL	37E4K	0	0	8	0E0	RP-TK	SHRP OBJ	EXPLOSION	CHMCAL RE	STO TANK	2 03 3		
29. 2/18/70	DEER PRK, TX	CAUS-SODA	CL	18E4K	0	0	8	0E0	RP-TK	SHRP OBJ	EXPLOSION	CHMCAL RE	STO TANK	1 03 3		
30. 2/18/70	DEER PRK, TX	SALT	UN	19E4K	0	0	8	0E0	RP-TK	SHRP OBJ	EXPLOSION	CHMCAL RE	STO TANK	1 03 3		
31. 2/23/70	ALBERTA , VA	INDUS-WASTE	UN	18E3K	0	0	99	0E9	RP-TK	DRLMENT				TK CR RR	0 02 6	
32. 2/25/70	BERLIN , WI	MOLTEN-METL	UN	0E0U	0	0	99	0E9	OVRFW	MECH FAIL	BODY FLRE				0 04 3	
33. 3/ 6/70	BORON , CA	BORAX	UN	0E0U	0	0	99	0E0	RP-NT	CONTR FLRE	MTRL DFCT			CKG/MX T	0 04 3	
34. 3/24/70	PT HURON, MI	BRASS MOLTEN	UN	0E0U	0	0	99	0E0	RP-NT	CONTR FLRE					0 04 3	
35. 3/24/70	FOSTORIA, OH	QUENCH OIL	FL	0E0U	0	0	99	0E0	OVRFW	MECH FAIL				DIP TANK	0 04 3	
36. 3/25/70	PHILADEL, PA	PAINT	FL	21E1L	0	0	99	0E0	TS FL	RPTRD PIPE				PIPES	0 04 3	
37. 3/29/70	WARREN , MI	QUENCH OIL	FL	15E2L	0	0	99	0E0	OVRFW	MECH FAIL	FIRE			DIP TANK	0 04 3	
38. 4/28/70	JOPLIN , MO	QUENCH OIL	FL	0E0U	0	0	99	0E0	OVRFW	CHMCAL RE	SPKLRS DSC	FIRE		DIP TANK	0 04 3	
39. 5/ 1/70	CL CREEK, WV	AMM-NITRATE	OX	0E0U	0	0	99	0E0	RP-NT	FIRE				TK TRLR	0 02 3	
40. 5/ 4/70	MARKSVLE, VA	ANH-AMMONIA	UN	0E0U	0	0	99	10E2	OVRFW	VALVE BKN				PIPES	0 02 7	

41.	5/15/70	RACINE	WI	HYDRAUL-OIL	UN	0E0U	0	0	99	0E9	OVRFW	HSE,CPL FA					0	04	3
42.	5/26/70	HARVEY	LA	MULTIPLE	UN	42E4L	0	0	99	0E0	RP-TK	EXPLOSION	EXCESS TMP	FIRE		STO TANK	2	03	3
43.	5/26/70	HARVEY	LA	ASPHALT	UN	38E4L	0	0	99	0E0	RP-TK	EXPLOSION	EXCESS TMP	FIRE		STO TANK	1	03	3
44.	5/26/70	HARVEY	LA	CHEMICALS	UN	4E7L	0	0	99	0E0	RP-TK	EXPLOSION	EXCESS TMP	FIRE		STO TANK	1	03	3
45.	5/30/70	CNCNNATI	OH	FATTY ACIDS	FL	76E1L	0	0	99	0E0	OVRFW	CHMCAL RE				STO TANK	0	04	3
46.	6/ 9/70	CHICOPEE	MA	SULFURIC-AC	CL	0E0U	0	0	99	0E9	OVRFW	SPKLRS DSC	FIRE			IND MACH	0	04	3
47.	6/12/70	SANFNAND	CA	RESIN-ACRYL	FL	21E1L	0	0	99	0E9	RP-NT	CONTR FLRE	MTRL DFCT	PRNSLL ERR		STL DRUM	0	04	2
48.	7/ 9/70	LONG-ISL	NY	ALC-ISOPROP	FL	0E0U	0	0	99	0E9	OVRFW	DRGPPED	PRNSLL ERR				0	04	3
49.	7/15/70	DETROIT	MI	MOLTEN-METL	UN	91E3K	0	0	99	0E9	CVRFW	NMRL GP	MECH FAIL				0	04	3
50.	7/19/70	CNCNNATI	OH	DOW-THEPM	BP	0E0U	0	0	99	0E0	CNRFR	OVRPRES	EXCESS TMP			BOILER	0	04	3
51.	7/24/70	SAUNDERS	NB	ANH-AMMONIA	UN	76ECL	2	0	1	0E9	OVRFW	PRNSLL ERR				PIPES	0	02	7
52.	8/13/70	ERIE	PA	ASPHALT	LN	13E3L	0	0	99	0E0	OVRFW	CHMCAL RE	SPKLRS DSC	FIRE		CKG/MX T	0	04	3
53.	8/26/70	HASTINGS	MI	METH-ETYL-K	FL	95EOL	2	0	1	0E0	TS FL	HSE,CPL FA	MTRL DFCT			IND MACH	0	04	3
54.	9/11/70	OWNSBORD	KY	ASPHALT	UN	13E3L	0	0	99	0E0	OVRFW	EXCESS TMP	GAU MS/DFC	PRNSLL ERR		CKG/MX T	0	04	3
55.	9/17/70	BROOKLYN	NY	HYDRAUL-OIL	UN	11E1L	0	0	99	0E9	TS FL	HSE,CPL FA					0	04	3
56.	9/18/70	DETROIT	MI	QUENCH OIL	FL	0E0U	0	0	99	0E0	OVRFW	GAU MS/DFC				DIP TANK	0	04	3
57.	9/30/70	NEWARK	NJ	QUENCH OIL	FL	0E0U	0	0	99	0E0	OVRFW	SPKLRS DSC	FIRE			CKG/MX T	0	04	3
58.	9/30/70	NEWARK	NJ	QUENCH OIL	FL	0E0U	0	0	99	0E0	OVRFW	FORGN SUBS				DIP TANK	0	04	3
59.	9/30/70	NEWARK	NJ	QUENCH OIL	FL	0E0U	0	0	99	0E0	OVRFW	CHMCAL RE	FORGN SUBS			CKG/MX T	0254	3	
60.	10/ 2/70	GLEN FAL	NY	SULFUR-MOLT	CL	0E0U	0	0	99	0E0	OVRFW	MECH FAIL				PIPES	0	04	3
61.	10/ 3/70	PLATTE-C	MO	ANH-AMMONIA	UN	10E5L	0	0	10	0E9	OVRFW	RPTRO PIPE	STRK BY V			PIPES	0	02	7
62.	10/13/70	APPLETON	WI	MULTIPLE	CL	0E0U	0	0	99	0E0	OVRFW	CHMCAL RE	FORGN SUBS			CKG/MX T	2	04	3
63.	10/13/70	CHICAGO	IL	FATTY-ASIDS	UN	19EOL	0	0	1	0E9	OVRFW	EXCESS TMP	CNTRL INOP			STL PAIL	0	04	3
64.	10/13/70	APPLETON	WI	SODIUM HYDX	CL	0E0U	0	0	99	0E0	OVRFW	CHMCAL RE	FORGN SUBS			CKG/MX T	1	04	3
65.	10/13/70	APPLETON	WI	ALUMINUM PD	FS	0E0U	0	0	99	0E0	OVRFW	CHMCAL RE	FORGN SUBS			CKG/MX T	1	04	3
66.	10/26/70		OH	PENTACHLORO	BP	29E3L	0	0	10	20E3	RP-TK	MTRL DFCT	LKG CVR			STO TANK	0	03	1
67.	10/27/70		OH	PENTACHLORO	BP	76E1L	0	0	5	20E3	OTHER	INTNL REL	PRNSLL ERR			PRTBL TK	0	03	1
68.	10/29/70		OH	PENTACHLORO	BP	15E2L	0	0	6	20E3	TS FL	HSE,CPL FA	OVRPRES			STO TANK	0	03	1
69.	11/16/70	WINDSOR	CT	MULTIPLE	UN	0E0	0	0	99	0E9	OVRFW	EXPLOSION	FORGN SUBS				2	04	3
70.	11/16/70	WINDSOR	CT	HYDRAUL-OIL	LN	0E0	0	0	99	0E9	TS FL	HSE,CPL FA					0	04	3
71.	11/16/70	WINDSOR	CT	MOLTEN-METL	UN	0E0	0	0	99	0E9	OVRFW	EXPLOSION	FORGN SUBS				1	04	3
72.	11/16/70	WINDSOR	CT	HYDRAUL-OI	UN	0E0	0	0	99	0E9	TS FL	HSE,CPL FA					1	04	3
73.	11/26/70	FRANKLIN	IL	SULFURIC-AC	CL	0E0U	0	0	99	0E0	OTHER	FIRE				STO TANK	0	03	3
74.	12/ 4/70	BR-COLUM		WOOD-PULP	UN	27E2L	0	0	99	0E9	TS FL	RPTRO PIPE	OVRPRES			PIPES	0	04	3
75.	12/17/70	NORFOLK	VA	NAPTHA	FL	57E1L	0	0	2	38E3	OTHER	INTNL REL	NMRL OP			BARGE TK	0	01	3
76.	12/31/70	CHARLSTN	SC	REGAL PLR O	UN	0E0U	0	0	99	0E0	RP-TK	RPTRO PIPE	MECH FAIL			PIPES	0	04	3
77.	1/ 4/71	VERNON	CA	SOD CHLORIDE	UN	0E0U	0	0	9	0E0	RP-TK	CONTR FLRE	MTRL DFCT			DIP TANK	0	04	3
78.	1/ 5/71	VERNON	CA	ASPHALT	UN	12E3L	0	0	99	0E0	OVRFW	FORGN SUBS	SPKLRS DSC	FIRE		CKG/MX T	0	04	3
79.	1/ 8/71	NEW-CAMB	MO	ANH-AMMONIA	UN	11E4L	0	0	9	50E4	RP-TK	DRLMENT				TK CR RR	0	02	1
80.	1/10/71	AURORA	NB	ANH-AMMONIA	UN	16E2L	1	0	3	0E9	OVRFW	HSE,CPL FA	PRNSLL ERR			PIPES	0	02	7
81.	1/11/71	BERKLEY	CA	SULFURIC-AC	CL	0E0U	0	0	99	0E9	OVRFW	HSE,CPL FA	UNKNOWN			PIPES	0	02	6
82.	1/13/71	CHESTER	WV	ASPHALT	UN	15E3L	0	0	99	0E0	OVRFW	FORGN SUBS	SPKLRS DSC	FIRE		CKG/MX T	0	04	3
83.	1/14/71	GLOBE	AZ	SULFURIC-AC	CL	21E3K	1	0	4	13E3	RP-TK	OVRTURN	BRAKE FLRE			TK TRLR	0	01	1
84.	1/14/71	ESTUARY	CA	INDUS-WASTE	UN	0E0U	0	0	99	0E9	CVRFW	UNKNOWN					0	00	6
85.	1/15/71	HAYWARD	CA	FOOD-WASTES	UN	23E2L	0	0	99	0E9	OTHER	UNKNOWN					0	00	6
86.	1/18/71	PHILADEL	PA	METH-ETYL-K	FL	68E2L	0	0	3	21E2	TS FL	CONTR FLRE	COLLSN	PRNSLL ERR		PIPES	0	01	1
87.	1/18/71	COLUMBUS	CH	ANILINE-OIL	BP	15E3L	0	0	6	38E2	RP-TK	BODY FLRE	UNKNOWN			TK CR RR	0	02	1
88.	1/19/71	DEMOPOLS	AL	CARBOLIC-AC	BP	62E1L	0	0	5	50E0	RP-TK	OPN VALVE	PRNSLL ERR			TK TRLR	0	51	1
89.	1/21/71	JOLIET	IL	TOLUENE	FL	38E3L	0	0	10	10E3	RP-TK	BODY FLRE	COLLSN			TK CR RR	0	02	1
90.	1/29/71	WESTFILD	MA	TOLUENE	FL	79E1L	0	0	5	27E1	TS FL	HSE,CPL FA				TK TRLR	0	41	1
91.	1/29/71	TECUEMSH	IN	ANH-AMMONIA	UN	48E4L	0	0	10	0E9	OVRFW	RPTRO PIPE	STRK BY V			PIPES	0	02	7
92.	1/31/71	FAIRFILD	AL	BENZENE	FL	19E2L	0	0	1	0E9	RP-TK	DRLMENT	UNKNOWN			TK CR RR	0	02	1

93.	2/ 1/71	SAN-FRIS, CA	WEED-KILLER	BP	48E1L	0	0	99	0E9	OVRFW	UNKNOWN				0	00	6	
94.	2/ 1/71	MILLIS ,MA	MUR TATIC-AC	CL	57E0L	0	0	1	20E0	RP-NT	BODY FLRE			DELDROM	0	02	1	
95.	2/ 3/71	LOS-ANGL, CA	FORMIC-ACID	CL	0EC	0	0	99	18E0	RP-NT	UNKNOWN			STL DRUM	0	02	1	
96.	2/ 3/71	VLLA PRK, IL	XYLENE	FL	0E0U	0	0	9	0E0	RP-NT	CONTR FLRE	FIRE		STL PAIL	0	04	3	
97.	2/ 4/71	SIBLEY ,IA	CLEANG-COMP	UN	11E3L	0	0	99	0E9	RP-TK	OVRTURN	JACKNIFE	RDWY CONDS	TK TRLR	0	02	1	
98.	2/ 5/71	MOBILE ,AL	ISOPROPY-LA	FL	19E1L	0	0	1	20E0	RP-TK	LSE CP,CVR			TK CR RR	0	02	1	
99.	2/ 5/71	PLAINVIW, TX	ANH-AMMONIA	UN	78E2L	1	0	5	70E2	RP-TK	SHRP OBJ	OVRTURN		TK TRLR	0	02	1	
100.	2/ 5/71	MASON-CI, IA	ANH-AMMONIA	UN	21E1L	0	0	1	0E9	OVRFW	OPN VALVE	PRNSLL ERR		TK CR RR	0	01	1	
101.	2/ 7/71	UML I ,OR	ALCOHOL-UNS	FL	15E3L	0	0	4	14E3	RP-TK	LKG CVR	DRLMENT		TK TRLR	0	02	1	
102.	2/10/71	CHICAGO ,IL	MULTIPLE	FL	27E4L	0	0	8	20E3	RP-TK	CONTR FLRE	CRLMENT		TK CR RR	2	02	1	
103.	2/10/71	ATLANTA ,GA	SODIUM-METH	FS	23ECK	0	0	1	0E9	RP-NT	FORKLIFT			STL DRUM	0	51	1	
104.	2/10/71	CHICAGO ,IL	VINYL-CHLOR	FL	27E4L	0	0	8	20E3	RP-TK	CONTR FLRE	DRLMENT		TK CR RR	1	02	1	
105.	2/10/71	CHICAGO ,IL	ALC-METHYL	FL	27E4L	0	0	8	20E3	RP-TK	CONTR FLRE	DRLMENT		TK CR RP	1	02	1	
106.	2/10/71	SAN-FRIS, CA	CHEM-NOI	UN	0ECU	0	0	99	0E9	OTHER	UNKNOWN					0	00	6
107.	2/11/71	SACRMENT, CA	LEAD-ARSENA	BP	1E0K	0	0	1	0E9	RP-NT	SHRP OBJ	IMP LDG		PA BAG	0	02	1	
108.	2/11/71	MARION ,IL	DIETH-SULFA	CL	15E3L	0	0	6	0E9	OTHER	UNKNOWN			TK TRLR	0	00	2	
109.	2/12/71	LAUREL ,MD	SULFURIC-AC	CL	15E0L	0	0	1	0E9	RP-NT	DROPPED			PBTL/CTN	0	01	1	
110.	2/15/71	BEAUMONT, TX	LEAD-ARSENA	BP	1E0U	0	0	99	0E9	RP-NT	IMP LDG			FBRE BOX	0	02	1	
111.	2/15/71	MOBILE ,AL	DI-ISO-BUTL	FL	76E0L	0	0	1	20E0	RP-TK	LKG CVR			TK CR RR	0	02	1	
112.	2/17/71	CHESTER ,PA	SODIUM-CLAT	OX	18E1K	0	0	1	42E0	RP-NT	IMPR HNDLG			STL DRUM	0	02	1	
113.	2/18/71	ETNA ,PA	PHOS-OXYCHL	CL	38E1L	2	0	1	0E9	RP-NT	MTRL DFCT			STL DRUM	0	02	1	
114.	2/19/71	WATRBURY, CN	SOD NITRATE	OX	0E0U	0	0	9	0E0	CNRFR	EXPLOSION	MECH FAIL		DIP TANK	0	04	3	
115.	2/20/71	BOISE ,ID	ARS-TRICHLO	BP	23E0L	0	0	1	80E0	RP-NT	MTRL DFCT			STL PAIL	0	02	1	
116.	2/22/71	WATERVIL, OH	HYDRAUL-OIL	UN	38E1L	0	0	99	0E9	TS FL	HSE,CPL FA	MECH FAIL				0	04	3
117.	2/22/71	,MD	SULFUR-MOLT	CL	90E4K	0	0	8	0E9	RP-TK	BODY FLRE	UNKNOWN		STO TANK	0	03	5	
118.	2/23/71	ATLANTA ,GA	ORGAN-PHOSP	BP	9E0K	0	0	1	30E1	RP-NT	CONTR FLRE	IMP LDG		PA BAG	0	02	1	
119.	2/23/71	DALLAS ,TX	HYDROCHLORI	CL	13E3L	0	0	6	55E1	TS FL				TK CR RR	0	01	1	
120.	2/24/71	OAKLAND ,CA	ARS-MIXTURE	BP	11E1K	0	0	2	12E1	RP-NT	SHRP OBJ	IMP LDG		PA BAG	0	02	1	
121.	2/25/71	KANS-CTY, KA	ORGAN-PHOSP	BP	3E0K	0	0	1	18E0	RP-NT	SHRP OBJ			PA BAG	0	02	1	
122.	2/25/71	HASTINGS, NB	ORGAN-PHOSP	BP	11E1K	0	0	2	90E0	RP-NT	SHRP OBJ			PA BAG	0	02	1	
123.	2/25/71	LUBBOCK ,TX	COOKING OIL	UN	0E0U	0	0	99	0E0	OVRFW	MTRL DFCT			CKG/MX T	0	04	3	
124.	2/26/71	FT-WORTH, TX	METH-ETYL-K	FL	38E1L	0	0	1	10E1	RP-TK	LKG CVR	DRLM&CVRTN	PRNSLL ERR	TK CR RR	0	00	1	
125.	2/28/71	PRVDENCE, RI	NITRIC-ACID	CL	0E0U	0	0	9	0E0	OTHER	UNKNOWN			DIP TANK	0	04	3	
126.	3/ 1/71	BDFRD HG, OH	QUENCH OIL	FL	57E2L	0	0	9	0E0	RP-NT	CONTR FLRE	EXPLOSION		STO TANK	0	04	3	
127.	3/ 2/71	ATLANTA ,GA	ISOPROPY-LA	FL	76E0L	0	0	1	20E1	RP-TK	LSE CP,CVR				0	02	1	
128.	3/ 2/71	KLAMATHF, OR	ORGAN-PHOSP	BP	32E1K	0	0	4	20E1	RP-NT	CONTR FLRE	WET PACKNG	PRNSLL ERR	PA BAG	0	02	1	
129.	3/ 2/71	, AR	DINITRO-PHE	BP	1EGL	0	0	1	0E9	RP-NT	MTRL DFCT			STL DRUM	0	01	1	
130.	3/ 3/71	HAZEN ,AR	ALC-ISGPROP	FL	12E3L	0	0	2	25E3	RP-TK	SHRP OBJ	COLLSN	RDWY CONDS	TK TRLR	0	02	1	
131.	3/ 4/71	CHARLOTT, NC	SODIUM-HYDO	FS	16E2K	0	0	3	12E2	RP-NT	BODY FLRE	IMP LDG		STL DRUM	0	02	1	
132.	3/ 4/71	MARLY-CR, MD	VEG-FISH-OI	UN	19E1L	0	0	99	0E9	OVRFW	GAU MS/DFC			STO TANK	0	05	5	
133.	3/ 4/71	TENNILE ,GA	SULFURIC-AC	CL	13E2K	0	0	1	15E0	RP-TK	MTRL DFCT			TK CR RR	0	02	1	
134.	3/ 4/71	COLUMBUS, GA	SULFURIC-AC	CL	45E2L	0	0	2	60E1	RP-TK	MTRL DFCT			TK CR RR	0	02	1	
135.	3/ 7/71	GRDNHTTN, OH	STOODARD	FL	57E0L	0	0	1	0E0	OVRFW	VALVE BKN	MECH FAIL		STO TANK	0	364	3	
136.	3/ 9/71	WOBBURN ,MA	TRICHLORETH	BP	11E0L	0	0	1	0E9	RP-NT	UNKNOWN			STL DRUM	0	02	1	
137.	3/10/71	OMAHA ,NB	DI-SYSTON	BP	17ECL	0	0	3	0E9	RP-NT	MTRL DFCT			STL PAIL	0	02	1	
138.	3/10/71	YORKVILL, OH	PHENOL-SULF	CM	0E0U	0	0	99	0E0	OTHER	UNKNOWN					0	06	2
139.	3/10/71	POTOMACR, MD	BLACK-LIQUO	UN	0E0U	0	0	99	0E0	OTHER	UNKNOWN					0	04	5
140.	3/11/71	SPRINK T, PA	MOLTEN BRASS	UN	0E0U	0	0	99	0E0	RP-NT	CONTR FLRE	MTRL DFCT		IND MACH	0	04	3	
141.	3/13/71	MECHANCS, PA	CHEM-NOI	UN	70E1K	0	0	99	56E1	RP-NT	IMP LDG			PLSTC BT	0	02	1	
142.	3/14/71	JAKSNVIL, FL	NITROBENZEN	BP	56E0L	0	0	5	50E0	RP-NT	SHRP OBJ			STL DRUM	0	01	1	
143.	3/15/71	BOISE ,ID	SODIUM-ARSI	BP	1E0L	0	0	1	0E9	RP-NT	CONTR FLRE	IMPR CNTNR		STL DRUM	0	00	1	

144.	3/15/71	NEW-ORLN, LA	ACROLEIN-IN	CL	21E1L	20	0	3	0E9	RP-NT	CONTR FLRE	DROPPED		STL DRUM	G411	1	
145.	3/17/71	SUNSET ,LA	AMM-NITRATE	OX	95E1K	0	0	99	28E0	RP-NT	SHRP OBJ		PA BAG	0	02	1	
146.	3/17/71	BETLEHM, NY	RESIN-SOLUT	FL	0EGU	0	0	99	0E9	RP-TK	LKG CVR	EXPLOSION	IND MACH	0	04	3	
147.	3/18/71	DENVER ,CO	TELONE-CHLO	BP	19ECL	0	0	3	0E9	RP-NT	SHRP OBJ	IMP LDG		0	02	1	
148.	3/18/71	OPELOUSA, LA	AMM-NITRATE	OX	11E3K	0	0	99	35E0	RP-NT	SHRP OBJ		PA BAG	0	02	1	
149.	3/19/71	PHOENIX ,AZ	PHOSDRIN	BP	1EOK	0	0	1	0E9	RP-NT	CONTR FLRE			0	01	1	
150.	3/19/71	BROAD-CR, MD	CFEM-NOI	UN	0EGU	0	0	99	0E9	CTHER	UNKNOWN	UNKNOWN		0	00	5	
151.	3/22/71	TAMPA ,FL	ORGAN-PHOSP	BP	1EOL	0	0	1	0E9	RP-NT	LSE CP, CVR	DROPPED	PRNSLL ERR	GLS BTLS	0	01	1
152.	3/22/71	THIBODUX, LA	AMM-NITRATE	OX	13E2K	0	0	99	12E1	RP-NT	SHRP OBJ		PA BAG	0	02	1	
153.	3/23/71	HASTINGS, NB	ORGAN-PHOSP	BP	23ECK	0	0	1	18E0	RP-NT	CONTR FLRE	UNKNOWN	PA BAG	0	02	1	
154.	3/23/71	INSTITUT, WV	TOLUENE-DIS	CL	34E1K	0	0	4	0E9	OVRFW	UNKNOWN		STO TANK	0	03	2	
155.	3/23/71	RICHMOND, CA	INDWST-ACID	UN	0EGU	0	0	99	0E9	CTHER	UNKNOWN			0	00	6	
156.	3/26/71	PORTLAND, OR	ORGAN-PHOSP	BP	0EGU	0	0	99	0E9	CTHER	UNKNOWN		STL PAIL	0	02	1	
157.	3/26/71	MONESSEN, PA	VINYL-CHLOR	FL	1CE2L	0	0	1	0E9	RP-TK	VALVE BKN	DRLMENT	TK CR RR	0	02	1	
158.	3/26/71	HOUSTON ,TX	CAUS-SODA	CL	74E3K	2	0	5	10E2	RP-TK	CONTR FLRE	MTRL DFCT	OVRPRES	TK TRLR	0	01	1
159.	3/28/71	MRCUS HK, PA	LAQUER	FL	0EGU	0	0	9	0E0	OVRFW	EXPLOSION	FIRE	DIP TANK	0	04	3	
160.	3/30/71	COMERC-C, CO	CINITRO-PHE	BP	1ECL	0	0	1	45E1	RP-NT	UNKNOWN	IMP LDG	STL PAIL	0	02	1	
161.	3/30/71	SWEETWTR, TN	LATEX	UN	64E2K	0	0	99	45E2	RP-TK	EXPLOSION	OVRPRES	STO TANK	0	03	3	
162.	3/31/71	GLASSPT, PA	HYDRAUL-OIL	UN	0EGU	0	0	99	0E9	OVRFW	HSE, CPL FA			0	04	3	
163.	4/ 1/71	MOSES-LK, WA	ORGAN-PHOSP	BP	94EOL	0	0	2	0E9	RP-NT	SHRP OBJ		STL DRUM	0	02	1	
164.	4/ 2/71	BILLINGS, MT	DIELDRIN	BP	1EOK	0	0	1	10E1	RP-NT	SHRP OBJ		PA BAG	G391	1		
165.	4/ 4/71	KANSAS-C, KS	PARATHION-L	BP	8ECL	0	0	2	30E1	RP-NT	BODY FLRE		STL DRUM	0	02	1	
166.	4/ 6/71	SAN-JOSE, CA	PHOSDRIN	BP	4ECL	0	0	1	10E1	RP-NT	MTRL DFCT	IMP LDG	STL PAIL	0	02	1	
167.	4/ 9/71	PHOENIX ,AZ	ORGAN-PHOSP	BP	1EOL	0	0	1	0E9	RP-NT	DROPPED	CLS&OVRTN	STL PAIL	0	01	1	
168.	4/ 9/71	DALLAS ,TX	PHENOL	BP	1ECL	0	0	1	10E1	RP-NT	DFCTV WELD		STL DRUM	0	02	1	
169.	4/10/71	ST-LOUIS, MO	INSECTICIDE	BP	0EGU	0	0	99	50E0	RP-NT	SHRP OBJ	UNKNOWN		0	02	1	
170.	4/10/71	HECTOR ,MN	ANH-AMMONIA	UN	40E3L	0	0	7	80E1	TS FL	HSE, CPL FA		TK TRLR	0	01	1	
171.	4/11/71	YORKTOWN, VA	TOLUENE	FL	0EGU	0	0	99	0E9	TS FL	UNKNOWN			0411	2		
172.	4/12/71	STERLING, IL	MULTIPLE	UN	0EGU	0	0	99	0E9	OVRFW	MECH FAIL			2	04	3	
173.	4/12/71	STERLING, IL	MOLTEN-METL	UN	0EGU	0	0	99	0E9	OVRFW	MECH FAIL			1	04	3	
174.	4/12/71	STERLING, IL	HYDRAULI-OI	UN	0EGU	0	0	99	0E9	TS FL	HSE, CPL FA			1	04	3	
175.	4/13/71	DEMOINES, IA	SULFURIC-AC	CL	8EOL	0	0	1	0E9	TS FL	HSE, CPL FA		TK TRLR	0	41	1	
176.	4/14/71	ST-LUS-O, CA	DI-SYSTON	BP	5EOK	0	0	1	80E1	RP-NT	SHRP OBJ		PA BAG	0	02	1	
177.	4/14/71	NY-SLOUG, CA	CHLORINE	UN	0EGU	0	0	99	0E9	CTHER	UNKNOWN			0	06	6	
178.	4/15/71	ESTUARY ,CA	MOLASSES	UN	0EGU	0	0	99	0E9	OVRFW	UNKNOWN	SHIP SANK	BARGE TK	0	02	6	
179.	4/17/71	E RTHRFD, NJ	SODIUM-HYDO	FS	64E3L	0	0	8	0E0	RP-NT	CONTR FLRE	FIRE	SPON COMB	STL DRUM	1	03	3
180.	4/17/71	E RTHRFD, NJ	MULTIPLE	FS	64E3L	0	0	8	0E0	RP-NT	CONTR FLRE	FIRE	SPON COMB	STL DRUM	2	03	3
181.	4/17/71	E RTHRFD, NJ	ZINC DUST	FS	14E2K	0	0	8	0E0	RP-NT	CONTR FLRE	FIRE	SPON COMB	STL DRUM	1	03	3
182.	4/18/71	COLGTE-C, MD	LACQUER-THI	FL	0EGU	0	0	99	0E9	CTHER	INTNL REL			0	00	5	
183.	4/19/71	MEMPHIS ,TN	WEED-KILLER	BP	4EOL	0	0	99	10E0	RP-NT	CONTR FLRE	OVRPRES	UNKNOWN	PBTL/CTN	0	01	1
184.	4/20/71	FAYETTVL, NC	POISON-NOI	BP	0EC	0	0	99	0E9	RP-NT	CONTR FLRE	DROPPED		PLS PAIL	0	02	1
185.	4/20/71	RICHMOND, VA	WEED-KILLER	BP	1ECL	0	0	99	0E9	RP-NT	CONTR FLRE	MTRL DFCT		STL PAIL	0	02	1
186.	4/20/71	PORT-NEW, NJ	DIMAZINE	FL	32EOK	0	0	1	20E1	RP-NT	SHRP OBJ		STL DRUM	0	02	1	
187.	4/20/71	ST-PAUL ,MN	MERCURY	BP	9EOK	0	0	2	11E1	RP-NT	CONTR FLRE		GLS BTLS	0	02	1	
188.	4/21/71	LOUISVIL, KY	TRIETHYLAMI	FL	0E9L	3	0	99	0E9	RP-NT	CONTR FLRE	MTRL DFCT		STL DRUM	0	01	1
189.	4/21/71	ANOPLS-H, MD	PAINT	FL	0EGU	0	0	99	0E9	CTHER	INTNL REL			0	00	5	
190.	4/22/71	MILWAUKEE, WI	FORMIC-ACID	CL	25ECL	0	0	1	20E0	RP-NT			GLS BTLS	0	02	1	
191.	4/24/71	ATLANTA ,GA	ANILINE-OIL	BP	8EOL	0	0	1	3E0	RP-NT	CONTR FLRE	IMP LDG	STL DRUM	0	02	1	
192.	4/26/71	ST-LOUIS, MO	AMYL-PHENOL	BP	4EOL	1	0	1	0E9	RP-NT	FORKLIFT		STL DRUM	0	01	1	
193.	4/28/71	GRANIT-C, IL	FERTILIZER	UN	57E3L	0	0	99	0E9	OVRFW	UNKNOWN			0	06	2	
194.	4/29/71	SPOKANE ,WA	ORGAN-PHOSP	BP	7EOK	0	0	1	30E0	RP-NT	SHRP OBJ	IMP LDG	PA BAG	0	02	1	

195.	4/30/71	LOS-ANGL, CA	ZINC-CYANID	BP	38E2L	0	0	4	0E9	RP-TK	CONTR FLRE	MTRL CFCT			PRTBL TK	C	02	6
196.	5/ 3/71	AMARILLO, TX	SODIUM-ARSI	BP	1E0L	0	0	1	15E0	RP-NT	CONTR FLRE	UNKNOWN			STL PAIL	0	02	1
197.	5/ 3/71	AMARILLO, TX	HERBICIDE	BP	1ECL	0	0	99	0E9	RP-NT	UNKNOWN			STL PAIL	C	02	1	
198.	5/ 4/71	CINCINAT, OH	DINITRO-PHE	BP	3ECL	0	0	1	0E9	RP-NT	DROPPED			GBTL/CTN	C	91	1	
199.	5/ 5/71	OKLAHO-C, OK	GUTHION	BP	2EGL	0	0	1	0E9	RP-NT	LSE CP, CVR			STL PAIL	C	02	1	
200.	5/ 5/71	FIR , OR	DINITRO-PHE	BP	1ECL	0	0	1	0E9	RP-NT	SHRP OBJ			STL PAIL	0	01	1	
201.	5/ 5/71	INDUSTRY, CA	STYRENE-MON	BP	0E0U	0	0	99	0E0	RP-TK	RLF VAL OP	QVRPRES	MECH FAIL	CKG/MX T	1	04	3	
202.	5/ 5/71	INDUSTRY, CA	ETH-BENZENE	FL	0E0U	0	0	99	0E0	RP-TK	RLF VAL CP	QVRPRES	MECH FAIL	CKG/MX T	1	04	3	
203.	5/ 5/71	INDUSTRY, CA	MULTIPLE	BP	0E0U	0	0	99	0E9	RP-TK	RLF VAL OP	U N K N O	MECH FAIL	CKG/MX T	2	04	3	
204.	5/ 6/71	BUFFALO , NY	SULFURIC-AC	CL	49E2L	0	0	2	34E2	OVRFW	UNKNOWN			TK CR RR	0	02	1	
205.	5/ 6/71	MILWAKEE, WI	ETH-DIBROMI	BP	30E0L	0	0	1	0E9	RP-NT	CONTR FLRE	IMP LDG		STL PAIL	C	02	1	
206.	5/ 6/71	GD-RAPID, MI	MULTIPLE	BP	2E3L	0	0	8	0E0	RP-NT	STRK BY V	PRNSLL ERR		STL DRUM	2	05	3	
207.	5/ 6/71	GD RAPID, MI	UNKNOWN	UN	1E3L	0	0	8	0E0	RP-NT	STRK BY V	PRNSLL ERR		STL DRUM	1	05	3	
208.	5/ 6/71	GD RAPID, MI	CHROMIC-ACI	BP	75E0L	0	0	1	0E0	RP-NT	STRK BY V	PRNSLL ERR		STL DRUM	0	05	3	
209.	5/ 6/71	GD RAPID, MI	CYANIDE	BP	1E3L	0	0	8	0E0	RP-NT	STRK BY V	PRNSLL ERR		STL DRUM	1	05	3	
210.	5/ 8/71	LIGONEER, IN	LEAD-ARSENA	BP	86E0K	2	0	1	66E0	RP-NT	SHRP OBJ			STL DRUM	C	02	1	
211.	5/11/71	CEURO , TX	WEED-KILLER	BP	19ECL	0	0	99	0E9	RP-NT	UNKNOWN			PLS PAIL	0	01	1	
212.	5/11/71	PASCO , WA	THIMIT	BP	15ECL	0	0	1	70E0	RP-NT	SHRP OBJ	IMP LDG		STL PAIL	0	52	1	
213.	5/12/71	ST-PAUL , MN	WEED-KILLER	BP	38E0L	0	0	99	30E0	RP-NT	CONTR FLRE	IMP LDG			0	02	1	
214.	5/12/71	BRODRICK, CA	SULFURIC-AC	CL	28E0L	0	0	1	0E9	RP-NT	IMP LDG			PLSTC DR	0	02	1	
215.	5/12/71	SELMA , CA	ARS-MIXTURE	BP	36E1K	0	0	4	30E1	RP-NT	SHRP OBJ	IMP LDG		PA BAG	0	02	1	
216.	5/17/71	ATLANTA , GA	ORGAN-PHOSP	BP	2E0L	0	0	1	0E9	RP-NT	SHRP OBJ			STL DRUM	0	01	1	
217.	5/19/71	OHIO-RIV,	EPICHLOROHY	BP	23E2L	0	0	6	0E9	OTHER	UNKNOWN				0	04	2	
218.	5/19/71	ESTUARY , CA	METH-ETYL-K	FL	0E0U	0	0	99	0E9	OVRFW	UNKNOWN				0	04	6	
219.	5/20/71	LUBBOCK , TX	METH-PARTHI	BP	8E0L	0	0	2	20E1	RP-NT	CONTR FLRE	UNKNOWN		STL DRUM	0	00	1	
220.	5/21/71	KEARNY , NJ	PEROXIDES-O	FL	11E0L	0	0	1	0E9	RP-NT	SHRP OBJ	UNKNOWN		PLS PAIL	C	02	1	
221.	5/21/71	YORK , PA	DINITRO-PHE	BP	4ECL	0	0	1	0E9	RP-NT	BODY FLRE	IMP LDG		STL DRUM	0	02	1	
222.	5/24/71	SALT-LK , UT	ORGAN-PHOSP	BP	4E0L	0	0	1	25E1	RP-NT	CONTR FLRE	UNKNOWN		STL PAIL	0	02	1	
223.	5/24/71	COSGROVE, MO	ACETALDEHYD	FL	17E3L	0	0	9	17E2	RP-TK	RLF VAL OP	UNKNOWN		TK CR RR	C	02	1	
224.	5/24/71	HARISBURG, PA	DINITRO-PHE	BP	6ECL	0	0	1	30E0	RP-NT	WET PACKNG			FBRE DRM	0	02	1	
225.	5/24/71	ST-LOUIS, MO	PHENOL	BP	0E0U	1	0	99	0E9	RP-NT	CONTR FLRE	DROPPED		GLS BTLS	0	01	1	
226.	5/24/71	LONG ISL, NY	SOD SILICATE	CL	19E3L	0	0	4	0E0	RP-TK	EXPLOSION	VALVE SHUT		STO TANK	0	01	3	
227.	5/25/71	KANSAS-C, MO	ORGAN-PHOSP	BP	6ECL	0	0	1	75E1	RP-NT	CONTR FLRE			STL DRUM	0	02	1	
228.	5/27/71	PORTLAND, OR	PENTACHLORO	BP	1E0L	0	0	1	0E9	OVRFW	LSE CP, CVR			STL PAIL	0	02	1	
229.	5/28/71	WAKEFORS, NC	MULTIPLE	CL	76E1L	0	0	5	0E9	RP-NT	CONTR FLRE	SHRP OBJ	CONTR FLRE	STL DRUM	2	02	1	
230.	5/28/71	WAKEFORS, NC	SODIUM-HYPO	CL	76E1L	0	0	5	0E9	RP-NT	CONTR FLRE	SHRP OBJ	CONTR FLRE	STL DRUM	1	02	1	
231.	5/28/71	WAKEFORS, NC	SULFURIC-AC	CL	76E1L	0	0	5	0E9	RP-NT	CONTR FLRE	SHRP OBJ	CONTR FLRE	STL DRUM	1	02	1	
232.	5/29/71	LACROSSE, WI	HEXCHLOR-CY	BP	2E0L	0	0	1	50E0	RP-NT	BODY FLRE	DROPPED			0	01	1	
233.	6/ 1/71	PHOENIX , AZ	ORGAN-PHOSP	BP	2E0L	0	0	1	50E0	RP-NT	SHRP OBJ	IMP LDG		STL DRUM	0	02	1	
234.	6/ 2/71	DENVER , CO	CYTHION-INS	BP	7E0L	0	0	1	12E1	RP-NT	LSE CP, CVR			STL DRUM	0	02	1	
235.	6/ 2/71	PORTSMOU, OH	ENDORIN	BP	4E0L	0	0	1	0E9	OTHER	INTNL REL	VANDALISM			0	06	2	
236.	6/ 3/71	OKLAHOMA, OK	ALDACIDE	BP	36E0K	0	0	99	0E9	OTHER	UNKNOWN			PA BAG	0	02	1	
237.	6/ 4/71	W-SLT-LK, UT	METH-PARTHI	BP	8E0L	0	0	2	0E9	RP-NT	SHRP OBJ			STL PAIL	0	02	1	
238.	6/ 5/71	YUBA-CTY, CA	PARATHION-L	BP	1E0K	0	0	1	40E1	RP-NT	CONTR FLRE	IMP LDG		STL DRUM	0	02	1	
239.	6/ 5/71	CLEVELAND, OH	LEAD-ARSENA	BP	1E0K	0	0	1	0E9	RP-NT	SHRP OBJ	UNKNOWN		PA BAG	0	02	1	
240.	6/ 5/71	CHICAGO, IL	SODIUM-ARSI	BP	76EGL	0	0	5	75E0	RP-NT	SHRP OBJ	UNKNOWN		STL DRUM	0	01	1	
241.	6/ 5/71	FLORAL , AR	ANH-AMMONIA	UN	0E0U	0	0	99	0E9	OVRFW	STRK BY V			PIPES	0	02	7	
242.	6/ 6/71	XENIA , OH	TOLUENE	FL	20E4L	0	0	10	0E0	RP-TK	EXPLOSION	LIGHTNING		STO TANK	0	03	3	
243.	6/ 7/71	PORTLAND, CR	POISON-NOI	BP	1E0L	0	0	1	0E9	RP-NT	LSE CP, CVR				0	02	1	
244.	6/ 8/71	OKLAH-CI, OK	NILVERM	BP	57E0L	0	0	1	0E9	RP-NT	MTRL DFCT			STL DRUM	0	02	1	
245.	6/10/71	LAUREL , MD	DINITRO-PHE	BP	0E9U	2	0	99	50E1	RP-NT	WET PACKNG			FBRE DRM	0	01	1	

246.	6/10/71	TREVOSE ,PA	EP ICHLOROXY	BP	4EQL	0	0	1	0E9	RP-NT	SHRP OBJ		STL DRUM	0	02	1
247.	6/10/71	MOBILE ,AL	SODIUM-ARSN	BP	76EQL	0	0	2	0E9	RP-NT	CONTR FLRE MTRL DFCT		STL DRUM	0	02	1
248.	6/10/71	SBARTONV, IL	HYDRAULI-OI	UN	0ECU	0	0	99	0E9	TS FL	HSE,CPL FA			1	C4	3
249.	6/10/71	SBARTONV, IL	MOLTEN-METL	UN	0EQU	0	0	99	0E9	OVRFW	MECH FAIL			1	C4	3
250.	6/10/71	SBARTONV, IL	MULTIPLE	UN	0ECU	0	0	99	0E9	OVRFW	MECH FAIL			2	04	3
251.	6/12/71	SPRTNBRG, SC	NITROCHLOTO	UN	19E2L	0	0	99	0E0	RP-TK	EXPLCSION CHMCL RE	VALVE SHUT	CKG/MX T	0	03	3
252.	6/14/71	FT SMITH, AR	PAINT	FL	7GE2L	0	0	99	0E0	OVRFW	SPKLSR OSC FIRE	ELCT ARCNG	DIP TANK	0	04	3
253.	6/16/71	OAKLAND ,CA	SULFUR-MOLT	CL	0ECU	0	0	99	0E9	CTHER	UNKNOWN			0	00	6
254.	6/21/71	KENNEWIK, WI	INSECTICIDE	BP	1EOK	0	0	99	0E9	RP-NT	CONTR FLRE MTRL CFCT		STL DRUM	0	02	1
255.	6/20/71	MTN VIEW, CA	PLATING COM	BP	0EQU	0	0	99	0E0	RP-TK	CONTR FLRE FIRE	CNTRL INDP	STO TANK	0	C4	3
256.	6/20/71	EXTON ,PA	ZIRCONIUM	FS	0ECU	0	0	99	0E0	RP-TK	CONTR FLRE FIRE	SPON COMB	STL PAIL	0	03	3
257.	6/21/71	MEMPHIS ,TN	WEED-KILLER	BP	2EOL	0	0	99	25E0	RP-NT	CONTR FLRE MTRL CFCT		STL DRUM	0	02	1
258.	6/21/71	CHICAGO ,IL	TECHNISTRIIP	BP	2EOK	0	0	99	50E0	RP-NT	SHRP OBJ UNKNOWN		CDBD DRM	0	02	1
259.	6/23/71	KANSAS-C, KS	ETH-PARATHI	BP	1EOL	1	0	1	30E0	RP-NT	MTRL DFCT		STL DRUM	0	71	1
260.	6/28/71	S-KEARNY, NJ	ALC-ALLYL	BP	18E1K	0	0	3	0E9	RP-NT	MTRL DFCT		STL DRUM	0	02	1
261.	6/28/71	DALLAS ,TX	INSECTICIDE	BP	4EOL	0	0	99	0E9	RP-NT	SHRP OBJ UNKNOWN		STL PAIL	0	02	1
262.	6/29/71	CINCINTI, OH	SODIUM-ARSI	BP	19ECL	0	0	3	0E9	RP-NT	CONTR FLRE UNKNOWN		STL PAIL	0	02	1
263.	6/29/71	KINGSPRT, TN	AQ-HYDR-ACD	CL	68EOK	0	0	1	10E1	RP-NT	CONTR FLRE MTRL CFCT		STL DRUM	0	02	1
264.	6/30/71	OMAHA ,NB	PARATHION-L	BP	37ECL	2	0	5	25E3	RP-NT	LSE CP,CVR IMP LDG		STL DRUM	0	02	1
265.	6/30/71	CHARLOTT, NC	SODIUM-ARSI	BP	38ECL	0	0	4	0E9	RP-NT	SHRP OBJ		STL DRUM	0	02	1
266.	7/ 2/71	SLT-CK-C, UT	PARATHION-L	BP	1EOL	0	0	1	0E9	RP-NT	UNKNOWN		STL PAIL	0	02	1
267.	7/ 2/71	YAKIMA ,WA	TET-ETH-PYR	BP	1ECL	0	0	1	15E1	RP-NT	CONTR FLRE DFCTV WELD		STL PAIL	0	02	1
268.	7/ 6/71	SAN-FRIS, CA	LITHIUM-HYP	OX	68E1K	0	0	1	28E1	RP-NT	UNKNOWN		CDBD DRM	0	02	1
269.	7/ 6/71	LUBBOCK ,TX	ORGAN-PHOSP	BP	19ECL	1	0	1	50E0	RP-NT	BODY FLRE IMP LDG		STL DRUM	0	02	1
270.	7/ 6/71	LUBBOCK ,TX	ORGAN-PHOSP	BP	0EC	0	0	99	0E9	RP-NT	CONTR FLRE UNKNOWN		PA BAG	0	02	1
271.	7/ 7/71	FRESNO ,CA	TRICALC-ARS	BP	34E1K	0	0	1	40E1	RP-NT	SHRP OBJ IMP LDG		PA BAG	0	02	1
272.	7/ 8/71	PORTLAND, OR	POISON-NOI	BP	1ECL	0	0	1	30E1	RP-NT	CONTR FLRE UNKNOWN		STL DRUM	0	02	1
273.	7/ 8/71	NEW-ORLN, LA	PARATHION-L	BP	14E3L	0	0	10	0E9	RP-NT	CONTR FLRE DROPPED		STL DRUM	0	01	1
274.	7/ 8/71	W-BORO ,MA	ORGAN-PHOSP	BP	1EOL	0	0	1	77E2	RP-NT	SHRP OBJ IMP LDG		STL PAIL	0	02	1
275.	7/ 9/71	99 ,SS	METH-PARTHI	BP	0EQU	4	0	99	0E9	RP-NT	CONTR FLRE DROPPED			0	01	2
276.	7/10/71	POCATELO, ID	MALATHION	BP	1EOL	0	0	1	18E0	RP-NT	LSE CP,CVR		STL DRUM	0	02	1
277.	7/12/71	FRESNO ,CA	INSECTICIDE	BP	1ECK	0	0	99	31E0	RP-NT	SHRP OBJ IMP LDG		PA BAG	0	02	1
278.	7/14/71	LESTER ,PA	ARS-TRICHL	BP	25ECL	0	0	1	20E1	RP-NT	CONTR FLRE OVRTURN	IMP LDG	GLS BTLS	0	02	1
279.	7/15/71	CINCINAT, OH	PLATING-COM	BP	0EQU	0	0	99	0E9	RP-NT	CONTR FLRE MTRL DFCT		STL DRUM	0	02	1
280.	7/15/71	PHOENIX ,AZ	HYDROCHLORI	CL	10E0	0	0	1	0E9	RP-NT	CONTR FLRE IMP LDG			1	02	1
281.	7/15/71	PHOENIX ,AZ	MULTIPLE	CL	11ECL	0	0	1	0E9	RP-NT	CONTR FLRE IMP LDG		PBTL /CTN	2	02	1
282.	7/15/71	PHOENIX ,AZ	SODIUM-HYPO	CL	10EC	0	0	1	0E9	RP-NT	CONTR FLRE IMP LDG			1	02	1
283.	7/15/71	KENEWICK, WA	ORGAN-PHOSP	BP	1E2	0	0	1	0E9	RP-NT	CONTR FLRE UNKNOWN		PA BAG	0	02	1
284.	7/19/71	SIGANAW ,MI	NITRO-PHENO	BP	14E1L	0	0	3	10E2	RP-NT	CONTR FLRE MTRL CFCT		STL DRUM	0	02	1
285.	7/20/71	AUBURN ,NY	AMOR POLYPR	UN	0ECU	0	0	99	0E0	RP-NT	CONTR FLRE EXPLOSION	OVRPRES	STO TANK	0	01	3
286.	7/20/71	PATOM-RI, MD	SODA-ASH	UN	0EQU	0	0	99	0E9	OVRFW	UNKNOWN		SETLG PD	0	05	5
287.	7/21/71	ARUNDL-B, MD	PERMANGANAT	OX	0EQU	0	0	99	0E9	OTHER	UNKNOWN		SETLG PD	0	05	5
288.	7/22/71	BARIA ,OH	SODIUM-HYDO	FS	37E2K	0	0	4	25E3	RP-NT	CONTR FLRE OVRTURN	PRNSLL ERR	STL DRUM	0	00	1
289.	7/22/71	BEACON ,NY	TOLUENE	FL	19E1L	0	0	3	15E0	OVRFW	PRNSLL ERR		STO TANK	0	41	1
290.	7/23/71	CRESTWOOD, MO	SULFURIC-AC	CL	65E2	0	0	3	10E2	OVRFW	OPN VALVE PRNSLL ERR		TK TRLR	0	00	1
291.	7/26/71	SAN-ANGL, TX	CYANIDE-SOL	BP	8EOL	0	0	1	15E1	RP-NT	CONTR FLRE OVRPRES		STL DRUM	0	02	1
292.	7/28/71	ORANGE ,CT	AMYL-PHENOL	BP	21E1L	0	0	1	0E9	RP-NT	CONTR FLRE IMP LDG		STL DRUM	0	02	1
293.	7/28/71	LOS-ANGL, CA	CARBOLIC-AC	BP	7EOL	0	0	1	0E9	RP-NT	CONTR FLRE LSE CP,CVR		STL DRUM	0	02	1
294.	7/30/71	GIBSONIA, PA	PHENYL-MERC	BP	19EOL	1	0	1	50E0	RP-NT	FORKLIFT		STL DRUM	0	01	1
295.	8/ 4/71	SELDEN ,KA	ANH-AMMONIA	UN	45E2	0	0	99	20E1	RP-TK	VALVE BKN CLS&OVRTN		TK TRLR	0	362	1
296.	8/ 4/71	DENVER ,CO	URANIUM-ORE	OT	90E1K	0	0	99	14E2	RP-NT	CONTR FLRE OVRTURN		STL DRUM	0	02	1

348.	9/14/71	DORSEY ,MD	VINYL-CHLOR	FL	38E3L	0	0	5	10E3	RP-TK	SHRP OBJ	DRLEMENT	UNKNOWN	TK	TRLR	0	02	1
349.	9/17/71	RICHWOOD,KY	EMUL-NEMAT	BP	11E1L	0	0	99	0E9	RP-NT	SHRP OBJ	IMP LDG		STL	DRUM	0	02	1
350.	9/17/71	VERNON ,CA	PARATHION-L	BP	19E0L	0	0	3	15E1	RP-NT	FGKRLIFT	PRNSLL ERR		STL	DRUM	0	52	1
351.	9/18/71	CHATTANO,TN	SULFURIC-AC	CL	19E3L	0	0	4	75E1	RP-TK	LKG CVR			TK	CR RR	0	02	1
352.	9/19/71	EFFINGHAM,IL	DICHLOROETH	BP	21E1L	5	0	1	30E2	RP-NT	CONTR FLRE	UNKNOWN		STL	DRUM	0	02	1
353.	9/20/71	HAVERHIL,MA	INK	FL	95E0L	0	0	99	10E1	RP-NT	FORKLIFT	PRNSLL ERR		STL	DRUM	0	51	1
354.	9/20/71	OAKLAND ,CA	ARS-MIXTURE	BP	0E0U	0	0	99	0E9	RP-NT	SHRP OBJ	UNKNOWN		PA	BAG	0	02	1
355.	9/20/71	LAMBURLS,VA	TALLOW	UN	1CE2L	0	1	99	0E9	TS FL	HSE,CPL FA	OVRPRES					0411	2
356.	9/20/71	CORPUS-C,TX	INDUS-WASTE	UN	16E4L	0	0	99	0E9	CTHER	CONTR FLRE			SETLG	PD	0	05	2
357.	9/21/71	BRISBANE,CA	WET-CEL-ALC	FL	30E2K	0	0	99	50E1	RP-NT	SHRP OBJ	IMP LDG		STL	DRUM	0	02	1
358.	9/22/71	TOLDO ,OH	WEED-KILLER	BP	8E0L	0	0	99	0E9	RP-NT	CONTR FLRE	DROPPED		PBTL/CTN	0	02	1	
359.	9/24/71	KANSAS ,MO	ARS-TRICHO	BP	1E0K	0	0	1	0E9	RP-NT	MTRL CFCT			SS	CRBY	0	01	1
360.	9/26/71	WNST-SLM,NC	INK	FL	21E1L	0	0	99	0E9	RP-NT	FORKLIFT			STL	DRUM	0	51	1
361.	9/28/71	99 ,99	ANH-AMMONIA	UN	0E0U	0	0	99	0E9	RP-TK	LSE CP,CVR			STO	TANK	0	01	2
362.	9/29/71	NEWBURGH,NY	POISON-222E	BP	19ECL	0	0	99	0E9	RP-NT	CONTR FLRE	IMP LDG		STL	DRUM	0	02	1
363.	9/29/71	GREENVIL,TX	SULFURIC-AC	CL	57E2L	2	0	2	80E1	RP-TK	VALVE BKN	CLS&OVRTN		TK	TRLR	0	02	1
364.	9/29/71	BERNIC ,LA	ANH-AMMONIA	UN	64E2L	0	0	5	60E2	OVRFW	VALVE BKN			PIPES		0	02	7
365.	9/30/71	NEW-ORLN,LA	PARATHION-L	BP	2E0L	0	0	1	67E1	RP-NT	SHRP OBJ	IMP LDG		STL	DRUM	0	02	1
366.	9/80/71	TUSCON ,AZ	THIOPHENOL	BP	10E2K	0	0	5	40E2	RP-NT	CONTR FLRE	IMP LDG		STL	DRUM	0	02	1
367.10/	1/71	CHATANO,G,TN	SULFURIC-AC	CL	38E1L	0	0	1	50E0	RP-TK	BODY FLRE	UNKNOWN		TK	CR RR	0	02	1
368.10/	1/71	CHATFIEL,MN	SULFURIC-AC	CL	16E2L	0	0	1	65E0	RP-TK	HSE,CPL FA	OVRTURN		TK	TRLR	0	02	1
369.10/	1/71	JACKSON ,MS	CAUS-SODA	CL	36E2K	0	0	4	0E9	RP-TK	CONTR FLRE	COLLSN		TK	TRLR	0	02	1
370.10/	6/71	BALTIMOR,MD	CHEM-NOI	UN	0E0U	0	0	99	0E9	CTHER	UNKNOWN	UNKNOWN				0	00	5
371.10/	6/71	BALTIMOR,MD	TOLUENE	FL	0E0U	1	0	99	0E9	OVRFW	UNKNOWN	FIRE		PIPES		013611		
372.10/	8/71	BRENT-HA,MI	ETH-DICHLOR	FL	75E2L	0	0	5	85E1	RP-TK	LKG CVR			TK	TRLR	0362	1	
373.10/	8/71	HOUSTON ,TX	DESTRUXOL	BP	4ECL	0	0	1	0E9	OTHER	UNKNOWN			STL	PAIL	0	01	1
374.10/	9/71	SEATTLE ,WA	ETH-DIBROMI	BP	1E0L	0	0	1	0E9	RP-NT	MTRL CFCT			STL	PAIL	0	01	1
375.10/	14/71	CHEMUNG ,NY	THIONYL-CHL	CL	10ECK	0	0	1	10E1	RP-NT	SHRP OBJ			STL	DRUM	0	02	1
376.10/	14/71	SBARTONV,IL	MULTIPLE	UN	15E2L	0	0	99	0E9	OVRFW	MECH FAIL					2	04	3
377.10/	14/71	SBARTONV,IL	HYDRAULI-OI	UN	54E1K	0	0	92	0E9	TS FL	HSE,CPL FA					1	04	3
378.10/	14/71	SBARTONV,IL	MOLTEN-METL	LN	4E0	0	0	99	0E9	OVRFW	MECH FAIL			IND	MACH	1	04	3
379.10/	15/71	ELMIRA ,NY	INDUS-WASTE	UN	19ECL	0	0	99	0E9	RP-NT	CONTR FLRE	IMP LDG	PRNSLL ERR	CDBD	DRM	0	02	1
380.10/	15/71	RICHFIEL,OH	PHOS-TRICHL	CL	5E0K	0	0	1	0E9	RP-NT	LSE CP,CVR			STL	DRUM	0	01	1
381.10/	19/71	99 ,CO	PROP-GLYCOL	BP	68E0K	0	0	2	27E1	RP-NT	UNKNOWN			STL	DRUM	1	02	1
382.10/	19/71	99 ,CO	TRIPHENYL-S	UN	68E0K	0	0	92	27E1	RP-NT	UNKNOWN			STL	DRUM	1	02	1
383.10/	19/71	99 ,CO	MULTIPLE	BP	68E0K	0	0	2	27E1	RP-NT	UNKNOWN			STL	DRUM	2	02	1
384.10/	19/71	HOUSTON ,TX	VINYL-CHLOR	FL	13E4L	50	1	7	0E9	RP-TK	SHRP OBJ	DRLEMENT		TK	CR RR	1	0211	
385.10/	19/71	HOUSTON ,TX	MULTIPLE	FL	13E4L	50	1	7	0E9	RP-TK	SHRP OBJ	DRLEMENT		TK	CR RR	2	0211	
386.10/	19/71	HOUSTON ,TX	ACETONE	FL	0E0U	50	1	7	0E9	RP-TK	SHRP OBJ	DRLEMENT		TK	CR RR	1	0211	
387.10/	22/71	MONUMENT,NM	HYDROCHLORI	CL	38E2L	0	2	4	0E9	RP-TK	CONTR FLRE	OVRTURN		TK	TRLR	0	02	1
388.10/	24/71	TUCSON ,AZ	LITHIUM BRO	UN	0E0U	0	0	99	0E0	RP-TK	OVRPRES			IND	MACH	0	04	3
389.10/	26/71	BROWNSVL,TX	HERBICIDE	BP	57E0L	0	0	99	27E1	RP-NT	FORKLIFT	PRNSLL ERR		STL	DRUM	0	11	1
390.10/	26/71	PHOENIX ,AZ	ORGAN-PHOSP	BP	7E0K	0	0	1	75E0	RP-NT	SHRP OBJ	DROPPED		PA	BAG	0	01	1
391.10/	27/71	SEATTLE ,WA	CUPRIC-HYDR	BP	16ECL	0	0	99	24E0	RP-NT	SHRP OBJ	UNKNOWN				0	02	1
392.10/	27/71	SLT-LK-C,UT	ISOBORENE-D	BP	38E0L	0	0	4	20E1	RP-NT	MTRL CFCT			STL	DRUM	0	01	1
393.10/	28/71	YORK ,PA	CHRO-ACI-SL	BP	11ECL	0	0	1	0E9	RP-NT	DROPPED			PLSTC	BT	0	01	1
394.10/	29/71	WILAM-R,OR	CAUS-SODA	CL	91E2L	0	0	5	0E9	OVRFW	OPN VALVE	PRNSLL ERR				0	04	2
395.10/	29/71	HOLLAND ,MI	CHEM-NOI	UN	0E0U	0	0	99	0E9	RP-TK	CONTR FLRE	EXPLOSION	CHMICAL RE	CDBD	DRM	0	04	3
396.11/	1/71	ALBURQU, NM	CBN-TETRACH	UN	4E0L	0	0	1	15E0	RP-NT	CONTR FLRE	IMP LDG		GLS	BTLS	0	02	1
397.11/	2/71	DETROIT ,MI	TRICHLORACE	BP	15E1L	0	0	1	0E9	RP-NT	FORKLIFT	PRNSLL ERR		STL	DRUM	0	02	1
398.11/	4/71	BALTIMOR,MD	ARS-ACD-TEC	BP	32E1L	0	0	7	0E9	RP-TK	LKG CVR	OVRTURN		TK	TRLR	0	02	1

399.11/	4/71	99		NUODEX-PMA	BP	1ECL	0	0	1	0E9	RP-NT	UNKNOWN		STL DRUM	0	01	3	
400.11/	4/71		BALTIMOR, MD	ARS-ACD-TEC	BP	11E1L	0	0	6	0E9	RP-TK	CONTR FLRE	OVRTURN	TK TRLR	0	02	5	
401.11/	8/71		RICHMOND, VA	SODIUM-ARSI	BP	23EOL	0	0	3	0E9	RP-NT	FORKLIFT	PRNSLL ERR	STL DRUM	0	51	1	
402.11/	9/71		KANAWHAR, WV	NAVANE	UN	38E2L	0	0	4	0E9	TS FL	UNKNOWN		PIPES	0	02	2	
403.11/	12/71		AVON, IN	SULFUR-MONO	CL	13E4L	1	0	10	70E2	RP-TK	SHRP OBJ	DRLEMENT	TK CR RR	0	02	1	
404.11/	13/71		N-PLATTE, NB	PHEN-MRC-LC	BP	25EOL	0	0	1	13E2	RP-NT	SHRP CBJ	IMPR HNCGLG	55 G DRM	0	01	1	
405.11/	13/71		E ST LUS, IL	MULTIPLE	FL	3E4L	0	0	99	0E0	OVRFW	OPN VALVE	INTNL REL	VANDALISM	STO TANK	2	03	3
406.11/	13/71		E ST LUS, IL	SOYBEAN OIL	FL	23E3L	0	0	99	0E0	OVRFW	OPN VALVE	INTNL REL	VANDALISM	STO TANK	1	03	3
407.11/	13/71		E ST LUS, IL	PAINT	FL	71E2L	0	0	99	0E0	OVRFW	OPN VALVE	INTNL REL	VANDALISM	STO TANK	1	03	3
408.11/	15/71		CHERYVIL, NC	POT-CYANIDE	BP	19ECL	0	0	3	30E0	RP-NT	SHRP CBJ	DROPPED	IMPR HNDLG	STL PAIL	0	01	1
409.11/	15/71		LG BEACH, CA	POLYSTY MON	BP	11E3L	0	0	3	0E0	RP-TK	CVRPRES	EXCESS TMP	CNTRL INOP	CKG/MX T	0	04	3
410.11/	19/71		LOS-ANGL, CA	INSECTICIDE	BP	1EOL	0	0	99	0E9	RP-NT	CONTR FLRE	MTRL DFCT	STL PAIL	0	02	1	
411.11/	20/71		FULLERTN, CA	FLAM-LIQ-UN	FL	42E1L	0	0	99	0E9	OTHER	INTNL REL	VANDALISM	STL DRUM	0	03	3	
412.11/	24/71		SHARON, PA	CRESYLIC-AC	BP	19ECL	0	0	1	25E0	RP-NT	BODY FLRE	IMP LDG	STL DRUM	0	02	1	
413.11/	25/71		KINGSVIL, SC	CAUS-SODA	CL	38EOL	0	0	1	10E0	RP-TK	VALVE BKN	DRLEMENT	TK CR RR	0	02	1	
414.11/	26/71		RIVERTON, KY	SULFURIC-AC	CL	10E1L	0	0	1	25E0	OTHER	UNKNOWN			0	02	1	
415.11/	26/71		OPELOUSA, LA	AMM-NITRATE	QX	14E2K	0	0	99	85E0	RP-NT	SHRP OBJ		PA BAG	0	02	1	
416.12/	2/71		BUFFALO, NY	ARS-MIXTURE	BP	11EOL	0	0	1	50E0	RP-NT	SHRP CBJ	IMP LDG	STL DRUM	0	02	1	
417.12/	3/71		THOMASVL, AL	SULFURIC-AC	CL	58E3L	0	0	6	16E2	RP-TK	LSE CP, CVR	DRLEMENT	TK CR RR	0	02	1	
418.12/	3/71		CHICAGO, IL	CAUS-POT-LI	CL	24E3K	0	0	4	12E2	RP-TK	CONTR FLRE	UNKNOWN	TK CR RR	0	02	1	
419.12/	3/71		PLNFIELD, CN	METH-ETYL K	FL	0EGU	0	0	99	0E0	RP-TK	FIRE	ELCT ARCNG	IMPR EQ OP	CKG/MX T	0	04	3
420.12/	6/71		ATHENS, NY	NITRIC-ACID	CL	8EOL	0	0	1	15E3	RP-TK	UNKNOWN	CLS&OVRTN	RDWY CONDS	TK TRLR	0	02	1
421.12/	8/71		LAFAYETE, LA	METH-ETYL-K	FL	12E2L	0	0	1	10E1	TS FL	LKG CVR		TK TRLR	0	02	1	
422.12/	11/71		CORBIN, LA	VINYL-ACETA	FL	70E3L	0	0	6	13E3	RP-TK	SHRP OBJ	DRLEMENT	VANDALISM	TK CR RR	0	02	1
423.12/	11/71		CHICAGO, IL	CAUS-POT-LI	CL	21E3L	0	0	4	38E3	RP-TK	CCNTR FLRE		TK CR RR	0	02	1	
424.12/	11/71		OHIO-RIV, OH	BIMETFLY-AL	FL	65E2K	0	0	5	0E9	OTHER	UNKNOWN			0	02	2	
425.12/	11/71		N BERGEN, NJ	SULFURIC-AC	CL	68E4L	0	0	9	0E0	RP-TK	FIRE		STO TANK	0	03	3	
426.12/	13/71		KANSAS-C, KS	METHACRYLON	FL	26EOL	3	0	1	18E1	RP-NT	FORKLIFT	PRNSLL ERR	STL DRUM	0	01	1	
427.12/	13/71		OPELOUSA, LA	AMM-NITRATE	QX	89E1K	0	0	99	0E9	RP-NT	SHRP OBJ		PA BAG	0	02	1	
428.12/	16/71		DALLAS, TX	ORGAN-PHOSP	BP	23E1K	0	0	3	60E1	RP-NT	LKG CVR		STL PAIL	0	02	1	
429.12/	16/71		CUMBRAND, MD	CHLORDANE	BP	8ECL	0	0	1	0E9	RP-NT	CONTR FLRE	MTRL DFCT	STL DRUM	0	01	5	
430.12/	17/71		BENTON-H, MI	CHLOR-CHLOR	CL	15E3K	0	0	6	62E2	RP-TK	CONTR FLRE	OVRTURN	RDWY CONDS	TK TRLR	0	02	1
431.12/	20/71		OPELOUSA, LA	AMM-NITRATE	QX	15E2K	0	0	99	86E0	RP-NT	SHRP OBJ		PLSTC BG	0	02	1	
432.12/	22/71		HOUSTON, TX	SULFURIC-AC	CL	13E3L	0	0	4	46E1	RP-TK	CONTR FLRE	COLLSN	TK CR RR	0	02	1	
433.12/	22/71		SAN-FRIS, CA	AMM-NITRATE	QX	45E1K	0	0	99	40E0	RP-NT	SHRP OBJ	IMP LDG	PLSTC BG	0	02	1	
434.12/	22/71		NEWARK, OH	PHN-FRM-RSN	FL	76E2L	0	0	99	0E9	TS FL	HSE, CPL FA	PRNSLL ERR		0	03	6	
435.12/	28/71		OR CITY, OR	MAGNESIUM A	CL	0EOL	0	0	99	0E0	RP-TK	OVRPRES	CHMCAL RE	CKG/MX T	0	04	3	
436.12/	30/71		EL-CNTR, CA	INSECTICIDE	BP	11EOL	0	0	9	23E0	RP-NT	BODY FLRE	UNKNOWN	STL DRUM	0	02	1	
437.12/	31/71		BROOKPRT, IL	BENZENE	FL	57E2L	0	0	2	13E3	RP-TK	LKG CVR	OVRTURN	UNKNOWN	TK TRLR	0	02	1
438.12/	70/71		BUFFALO, NY	CBN-BISULFI	FL	38E3L	0	0	7	30E2	RP-TK	SHRP OBJ	COLLSN	DRLEMENT	TK CR RR	0	00	1
439.0/	0/72			CHEM-NOI	UN	38E2L	0	0	99	0E9	OVRFW	PRNSLL ERR		STO TANK	0	03	5	
440.0/	0/72		TALOR, MI	HYDROCHLORI	CL	19E2L	0	0	3	0E9	RP-TK	CONTR FLRE	UNKNOWN	STO TANK	0	03	6	
441.1/	3/72		HANCOCK, MI	SULFURIC-AC	CL	75EOL	0	0	1	10E0	RP-NT	CONTR FLRE	DROPPED	PL CARBY	0	01	1	
442.1/	4/72		CHICAGO, IL	CAUS-SODA	CL	8EOL	0	0	1	0E9	RP-TK	VALVE BKN	DRLEMENT	TK CR RR	0	01	1	
443.1/	4/72		AT-SEA,	CYANIDE-SOD	BP	0EGU	0	0	99	40E1	RP-NT	CONTR FLRE	IMP LDG	STL DRUM	0	02	1	
444.1/	4/72		BERKLEY, CA	SULFURIC-AC	CL	19EOL	0	0	1	0E9	OVRFW	UNKNOWN		TK TRLR	0	01	6	
445.1/	7/72		CLINTON, IA	SULFURIC-AC	CL	23E1K	1	0	1	0E9	TS FL	HSE, CPL FA	MECH FAIL	STO TANK	0	20	1	
446.1/	9/72		TENN-RIV, TN	ACRYLONITRI	FL	13E1L	0	0	3	0E9	OTHER	UNKNOWN		BARGE TK	0	02	2	
447.1/	9/72		SURGOINS, TN	MULTIPLE	BP	0EGU	0	0	99	0E9	TS FL	HSE, CPL FA			3	04	3	
448.1/	9/72		SURGOINS, TN	POLYSTYRENE	BP	0EGU	0	0	99	0E9	OTHER	SPKLRS DSC	NMRL OP	FIRE		2	04	3
449.1/	9/72		SURGOINS, TN	DYES-PIGMEN	UN	0EOL	0	0	99	0E9	OTHER	SPKLRS DSC	NMRL OP	FIRE		2	04	3

450.	1/ 9/72	HOHENWLD,TN	PROCESS-OIL	FL 98E1L	0	0	1	0E9	OVRFW	VALVE BKN	FIRE		STO TANK	0	04	3	
451.	1/ 9/72	SURGOINS,TN	HYDRAUL-OIL	UN 95E1L	0	0	99	0E9	TS FL	HSE,CPL FA					2	04	3
452.	1/10/72	PHOENIX ,AZ	TET-HYDR-FU	FL 1E0L	0	0	1	10E0	RP-NT	DROPPED	PRNSLL ERR		GBTL /CTN	0	01	1	
453.	1/10/72	CHICAGO ,IL	INSECTICIDE	BP 19ECL	0	0	99	20E0	RP-NT	SHRP OBJ	DROPPED		STL DRUM	0	01	1	
454.	1/10/72	GREATFAL,MT	ARS-TRIOXID	BP 2ECK	0	0	1	25E0	RP-NT	SHRP OBJ	IMP LDG		CDBD DRM	C	02	1	
455.	1/10/72	LASALJCT,UT	AMM-NITRATE	OX 24E3	0	1	99	25E3	RP-TK	CLS&OVRTN			TK TRLR	0	02	1	
456.	1/11/72	ATLANTA ,GA	ORGAN-PHOSP	BP 1ECL	0	1	1	0E9	RP-NT	CONTR FLRE	DROPPED		GBTL /CTN	C	02	1	
457.	1/13/72	ROCHSTER,NY	BROMINE	CL 18E2K	1	0	9	75E0	TS FL	HSE,CPL FA	PRNSLL ERR		TK TRLR	0	01	1	
458.	1/13/72	COLUMBUS,TX	AMM-NITRATE	OX 11E2K	0	0	99	10E1	RP-NT	SHRP OBJ	IMP LDG		PLSTC BG	C	02	1	
459.	1/13/72	THIBODAX,LA	AMM-NITRATE	OX 91E1K	0	0	99	80E0	RP-NT	SHRP OBJ	IMP LDG		PA BAG	0	02	1	
460.	1/13/72	JACKSONV,FL	HYDROCHLORI	CL 18ECL	0	0	1	20E0	RP-TK	LKG CVR	UNKNOWN		TK CR RR	0	01	1	
461.	1/14/72	CINCINAT,OH	NITRIC-ACID	CL 30E3L	0	0	10	0E9	RP-TK	UNKNOWN			TK CR RR	C	02	1	
462.	1/14/72	SAFFORD ,AZ	SULFURIC-AC	CL 54E2K	0	0	2	12E1	RP-TK	VALVE BKN	CLS&OVRTN		TK TRLR	0	02	1	
463.	1/14/72	LEMONT ,IL	ALLYL-CHLOR	FL 10E1K	0	0	1	18E0	RP-TK	CONTR FLRE	ECY FLRE	UNKNOWN	TK TRLR	C	02	1	
464.	1/14/72	THIBODAX,LA	AMM-NITRATE	OX 13E3K	0	0	99	11E1	RP-NT	SHRP OBJ	IMP LDG		PA BAG	0	02	1	
465.	1/14/72	BERKLEY ,CA	INSECTICIDE	BP CECU	0	0	9	0E9	CTHER	PRNSLL ERR					C	02	6
466.	1/16/72	HICKSVLE,NY	SALT WATER	UN 0ECU	0	0	99	0E0	RP-NT	CONTR FLRE	WET PACKNG		PA BAG	0	C3	3	
467.	1/17/72	ST-PAUL ,MN	CLEANG-COMP	UN 30ECL	0	0	99	0E9	RP-NT	CONTR FLRE	IMP LDG		PLSTC BT	C	02	1	
468.	1/17/72	SAVANNAH,GA	RESONATE SO	UN 18E4L	0	0	6	0E0	OVRFW	MECH FAIL					0	04	3
469.	1/18/72	SUNSET ,LA	AMM-NITRATE	OX 95E1K	0	0	99	27E0	RP-NT	SHRP OBJ	IMP LDG		PA BAG	0	02	1	
470.	1/18/72	WICHTTA ,KA	ISOTROL	BP 6ECL	0	0	9	0E9	RP-NT	CONTR FLRE	UNKNCWN		STL DRUM	0	02	3	
471.	1/20/72	INSTITUT,WV	METH-ISOBUT	FL 0E0U	0	0	99	35E3	CVRFW	PRNSLL ERR					0	01	2
472.	1/20/72	KANAWHAR,WV	METH-ISOBUT	FL 38E3L	0	0	5	0E9	OVRFW	UNKNOWN					0	03	2
473.	1/20/72	AVERY ,OH	ASPHALT	UN 11E4K	0	0	99	0E0	OVRFW	EXPLOSION	OVRPRES	FORGN SUBS	CKG/MX T	0	04	3	
474.	1/21/72	SAN-LERN,CA	WEED-KILLER	BP 19E0L	0	0	99	0E9	RP-NT	CONTR FLRE	MTRL CFCT		STL DRUM	0	02	1	
475.	1/21/72	MIDLAND ,MI	ALPHA-MONOC	CL 34E2L	2	0	4	12E2	OVRFW	GSKT FAIL	OPN VALVE	PRNSLL ERR	TK TRLR	C	51	1	
476.	1/23/72	CLARKSVL,OH	MURTATIC-AC	CL 0E9	0	0	99	0E9	RP-TK	RDWY CCNDS			TK CR RR	C	02	1	
477.	1/24/72	CINCINAT,OH	INK	FL 21E1L	0	0	99	34E1	RP-NT	CONTR FLRE	MTRL CFCT		STL DRUM	C	02	1	
478.	1/24/72	99 ,99	INSECTICIDE	BP 1E0L	0	0	99	25E0	OTHER	UNKNOWN			PA BAG	C	02	1	
479.	1/24/72	OPELOUSA,LA	AMM-NITRATE	OX 45E1K	0	0	99	30E0	RP-NT	SHRP OBJ	IMP LDG		PA BAG	0	02	1	
480.	1/25/72	ORLANDO ,FL	PHOSDRIN	BP 1ECL	0	0	1	0E9	RP-NT	SHRP OBJ	IMP LDG		STL DRUM	0	02	1	
481.	1/25/72	PHILADEL,PA	ACETONITRIL	FL 10E1L	0	0	1	15E1	RP-NT	CONTR FLRE	IMP LDG		STL DRUM	C	01	1	
482.	1/27/72	CARTERET,NJ	MINERAL-SPR	FL 95E4L	0	0	10	0E9	OVRFW	UNKNOWN			PIPES	0	02	2	
483.	1/28/72	NEW-OLNS,LA	ETH-DIBROMI	BP 0E0	0	0	99	0E9	RP-NT	FORKLIFT	PRNSLL ERR		STL DRUM	0	50	1	
484.	1/30/72	NEWTOWN ,PA	MULTIPLE	CL 0E0U	0	0	99	0E9	CTHER	PRNSLL ERR	FIRE				5	03	3
485.	1/30/72	NEWTOWN ,PA	NAPHTALEN-F	BP 0E0U	0	0	99	0E9	OTHER	PRNSLL ERR					4	03	3
486.	1/30/72	NEWTOWN ,PA	NITRIC-ACID	CL 0E0U	0	0	99	0E9	CTHER	PRNSLL ERR	FIRE				4	03	3
487.	1/30/72	NEWTOWN ,PA	ZINC-DUST	FS 0E0U	0	0	99	0E9	CTHER	PRNSLL ERR	FIRE				4	03	3
488.	1/30/72	NEWTOWN ,PA	ACETIC-ACID	CL 0E0U	0	0	99	0E9	CTHER	PRNSLL ERR	FIRE				4	03	3
489.	1/30/72	NEWTOWN ,PA	POT-HYDROXI	CL 0E0U	0	0	99	0E9	CTHER	PRNSLL ERR	FIRE				4	03	3
490.	1/31/72	STAPLES ,LA	ANILINE-OIL	BP 80E3K	0	0	8	12E3	RP-TK	SHRP OBJ	DRLMENT	RDWY CONDS	TK CR RR	0	02	1	
491.	1/31/72	ROSEDALE,MD	CHEM-NOI	UN 0ECU	0	0	99	0E9	OTHER	INTNL REL	UNKNOWN				0	04	5
492.	1/31/72	CROCKETT,CA	INDUS-WASTE	UN 0E0U	0	0	99	0E9	CVRFW	UNKNCWN					0	00	6
493.	1/31/72	WAYNSVIL,NC	SULFURIC-AC	CL 19E1L	0	0	1	0E9	RP-TK	VALVE BKN	UNKNOWN		TK TRLR	0	02	6	
494.	1/31/72	WOBURN ,MA	HYDROGEN-PE	CL 21E1L	0	0	3	0E9	RP-NT	CONTR FLRE	IMPR HNDLG	PRNSLL ERR	STL DRUM	C	01	1	
495.	2/ 1/72	VENICE ,LA	URANA-FERTL	UN 76E5L	0	0	99	0E9	RP-TK	CONTR FLRE	COLLSN		BARGE BK	C	02	6	
496.	2/ 2/72	ALBURQRQ,NM	ANILINE-OIL	BP 4ECL	C	0	1	3E0	RP-NT	CONTR FLRE	UNKNOWN		STL DRUM	0	02	1	
497.	2/ 2/72	MISSISSI,LA	XYLENE	FL 0E0U	0	0	99	0E9	RP-TK	COLLSN			BARGE BK	0	02	6	
498.	2/ 2/72	MISSIS-R,99	XYLENE	FL 0E0U	0	0	99	0E9	OVRFW	SHIP SANK	UNKNOWN		BARGE TK	0	02	6	
499.	2/ 3/72	ARROYO ,TX	AMM-NITRATE	OX 30E1K	0	0	99	25E0	RP-NT	SHRP OBJ	IMP LDG		PA BAG	0	02	1	
500.	2/ 3/72	CHICAGO ,IL	XYLOL	FL 38E3L	0	0	5	55E2	RP-TK	CONTR FLRE	UNKNOWN		TK CR RR	C	02	1	

501.	2/ 4/72	WILMGTON, CA	CAUS-SODA	CL 30E1L	0	0	1	62E1	RP-TK	SHRP OBJ	COLLSN	PRNSLL ERR	TK TRLR	0	01	1
502.	2/ 5/72	SA-FR-BA, CA	ALKANE-56	FL 32E2L	0	0	99	0E9	OVRFW	UNKNOWN				0	02	6
503.	2/ 6/72	ALEXANDR, LA	AMM-NITRATE	OX 79E1K	0	0	99	70E0	RP-NT	SHRP OBJ	IMP LDC		PLSTC BG	C	C2	1
504.	2/ 8/72	SPOKANE, WA	ETHER	FL 21E1L	0	0	1	10E2	RP-NT	CONTR FLRE	MTRL DFCT		STL DRUM	0	02	1
505.	2/10/72	SUNSET, LA	AMM-NITRATE	OX 70E1K	0	0	99	45E0	RP-NT	SHRP OBJ	IMP LDC		PA BAG	0	02	1
506.	2/10/72	MELROSE, IL	PAINT	FL 11E2L	0	0	99	0E9	OVRFW	UNKNOWN			STO TANK	C	C4	6
507.	2/10/72	PORTLAND, OR	PAINT	FL 0E0U	0	0	99	0E9	CTHER	UNKNOWN				C	C4	6
508.	2/11/72	PADUCAH, KY	VINYL-ACETA	FL 23E0K	0	0	1	50E0	RP-NT	FORKLIFT			STL DRUM	0	01	1
509.	2/11/72	PADUCAH, KY	VINYL-ACETA	FL 23E0K	0	0	1	50E0	RP-NT	FORKLIFT	PRNSLL ERR		STL DRUM	0	01	1
510.	2/12/72	AKRON, OH	NITROBENZEN	BP 15E3L	0	0	9	20E3	RP-TK	CONTR FLRE	UNKNOWN		TK CR RR	C	C2	1
511.	2/13/72	MT-VRNON, IN	SALT-WATER	UN 53E3L	0	0	4	0E9	OVRFW	MECH FAIL				0	00	6
512.	2/14/72	CARTERET, NJ	RESIN-SOLUT	FL 11E3L	0	0	99	37E2	RP-TK	SHRP OBJ	CCLLSN		TK TRLR	C	C2	1
513.	2/14/72	ST LOUIS, MO	THERMINOL 66	FL 0E0U	0	0	99	0E0	OVRFW	MECH FAIL	GSKT FAIL		IND MACH	0	04	3
514.	2/15/72	99, 99	SULFURIC-AC	CL 19E1L	0	0	1	10E1	TS FL	UNKNOWN			TK TRLR	0	21	1
515.	2/15/72	ST-LOUIS, MO	INSECTICIDE	BP 19E0L	0	0	99	20E0	RP-NT	CONTR FLRE	UNKNOWN		GBTL/C TN	C	C2	1
516.	2/16/72	OPELOUSA, LA	AMM-NITRATE	OX 15E2K	0	0	99	13E1	RP-NT	SHRP OBJ	IMP LDC		PLSTC BG	0	02	1
517.	2/16/72	HERNANDO, FL	SULFURIC-AC	CL 51E3L	1	0	6	40E2	RP-TK	CONTR FLRE	DRLEMENT		TK CR RR	C	C2	1
518.	2/17/72	SIMCO, ID	PHOSPHATE-C	BP 21E1L	0	0	3	13E2	RP-NT	CONTR FLRE	UNKNOWN		STL DRUM	C	C2	1
519.	2/18/72	OPELOUSA, LA	AMM-NITRATE	OX 96E1K	0	0	99	84E0	RP-NT	SHRP OBJ	IMP LDC		PLSTC BG	0	02	1
520.	2/18/72	HARLNGTN, TX	AMM-NITRATE	OX 64E1K	0	0	99	60E0	RP-NT	SHRP OBJ	IMP LDC		PA BAG	0	02	1
521.	2/18/72	TOL EDO, OH	SULFURIC-AC	CL 8E0L	0	0	1	80E1	RP-TK	LSE CP, CVR	PRNSLL ERR		TK TRLR	C	C2	1
522.	2/22/72	SALINAS, CA	PARATHION-L	BP 8ECL	0	0	2	38E0	RP-NT	CONTR FLRE	CONTR FLRE	PRNSLL ERR	STL PAIL	0	01	1
523.	2/22/72	PINSON, GA	HEXAMETHYLE	CL 30E3L	0	0	3	30E2	RP-TK	SHRP OBJ	DRLEMENT		TK CR RR	C	C2	1
524.	2/22/72	HOUSTON, TX	SODIUM-HYDO	FS 0ECK	0	0	99	15E2	RP-NT	CONTR FLRE			STL DRUM	C	C2	1
525.	2/22/72	ALBANY, GA	INSECTICIDE	BP 17E1L	0	0	99	0E9	RP-NT	UNKNOWN			STL PAIL	C	C2	1
526.	2/22/72	ESTUARY, CA	INDUS-WASTE	UN 0E0U	0	0	99	0E9	OVRFW	UNKNOWN				C	00	6
527.	2/23/72	POCATELO, ID	PENTACHLORG	BP 1ECL	0	0	1	14E1	RP-NT	CONTR FLRE	G V R F W		STL PAIL	C	C2	1
528.	2/23/72	BACK-RIV, MD	METH-ETYL-K	FL 23E3L	0	0	4	0E9	RP-TK	CONTR FLRE	OVRTURN		TK TRLR	0	02	5
529.	2/23/72	PITTSBURG, PA	XYLENE	FL 0E0U	0	0	99	0E9	OVRFW	UNKNOWN				0	03	6
530.	2/24/72	STRUTHRS, OH	SULFURIC-AC	CL 37E3L	0	0	5	0E9	RP-TK	SHRP OBJ	COLLSN	PRNSLL ERR	TK CR RR	0	02	1
531.	2/24/72	99, MD	METH-ETYL-K	FL 23E3L	0	0	4	0E9	RP-TK	CONTR FLRE	OVRTURN		TK TRLR	0	02	5
532.	2/24/72	DBALTIMO, MD	MULTIPLE	FL 25E3L	0	0	6	0E9	RP-TK	UNKNOWN	CCLLSN		TK TRLR	2	C2	6
533.	2/24/72	KREMLIN, CK	METHANOL	FL 75E3L	0	0	6	0E9	RP-TK	UNKNOWN	DRLEMENT		TK CR RR	C	C2	6
534.	2/24/72	BALTIMOR, MD	METH-ISOBUT	FL 12E3	0	0	6	0E9	RP-TK	UNKNOWN	COLLSN		TK TRLR	1	02	6
535.	2/24/72	BALTIMOR, MD	METH-ETHL-K	FL 12E3	0	0	6	0E9	RP-TK	UNKNOWN	CCLLSN		TK TRLR	1	02	6
536.	2/25/72	CRESTON, GA	ORGAN-PHOSP	BP 28E1L	0	0	4	30E2	RP-NT	CONTR FLRE	MTRL DFCT		STL DRUM	0	C2	1
537.	2/25/72	OPELOUSA, LA	AMM-NITRATE	OX 23E2K	0	0	99	0E9	RP-NT	SHRP OBJ	IMP LDC		PLSTC BG	0	02	1
538.	2/26/72	WHITE-HL, PA	PLASTICIZER	FL 19E0L	0	0	1	0E9	OVRFW	UNKNOWN			STO TANK	C	01	6
539.	2/28/72	LOUISVLE, KY	ORGAN-PHOSP	BP 19ECL	0	0	1	0E9	RP-NT	CONTR FLRE	MTRL DFCT		STL PAIL	C	00	1
540.	2/28/72	SEATTLE, WA	ORGAN-PHOSP	BP 1E0K	0	0	1	10E1	RP-NT	SHRP OBJ			PA BAG	0	52	1
541.	2/29/72	MELVNDLE, MI	METH-ETYL-K	FL 95E2L	0	0	3	0E9	RP-TK	OPN VALVE	PRNSLL ERR		TK CR RR	0	C2	1
542.	2/29/72	LONGUIEW, TX	INDUS-WASTE	UN 0E0U	0	0	99	0E9	OVRFW	UNKNOWN				0	00	6
543.	3/ 1/72	WARRENTY, CH	DRAULI-IO	UN 60E7L	0	0	99	0E9	TS FL	HSE, CPL FA				1	04	3
544.	3/ 1/72	WARRENMU, OH	LTIPLE	UN 60E7L	0	0	99	0E9	OVRFW	MECH FAIL				2	04	3
545.	3/ 1/72	WARRENMU, OH	LTEN-METL	UN 0E0	0	0	99	0E9	OVRFW	MECH FAIL				1	04	3
546.	3/ 2/72	INDINPLS, IN	ORGAN-PHOSP	BP 4ECL	0	0	1	0E9	RP-NT	CONTR FLRE	DROPPED			0	01	1
547.	3/ 2/72	MOSES-LK, WA	ORGAN-PHOSP	BP 8E0L	0	0	1	0E0	RP-NT	SHRP OBJ	IMP LDC		STL DRUM	0	02	1
548.	3/ 3/72	GOLDSBRO, NC	INSECTICIDE	BP 4E0L	0	0	99	0E9	RP-NT	CONTR FLRE	UNKNOWN		STL DRUM	C	02	1
549.	3/ 4/72	CHICAGO, IL	CAUS-POT-LI	CL 19E1L	0	0	1	0E9	RP-TK	LSE CP, CVR			TK CR RR	C	02	1
550.	3/ 4/72	GEISMER, LA	BENZENE	FL 10E4L	0	0	6	0E9	OVRFW	HSE, CPL FA			STO TANK	0	04	2
551.	3/ 4/72	GEISMER, LA	AROMATIC-O	FL 10E4L	0	0	6	0E9	RP-TK	HSE, CPL FA			TK TRLR	0	01	2

552.	3/ 5/72	BETHEL ,CT	SULFUR-MONO	CL 45ECK	0 0 1	30E1	RP-NT	MTRL DFCT	DRLM&OVRTN	STL DRUM	0 C2 1
553.	3/ 6/72	EXETER ,CA	AMM-NITRATE	OX 0EO	0 0 99	40E0	RP-NT	WET PACKNG		PA BAG	0 02 1
554.	3/ 8/72	MIDDLTWN,NY	WEED-KILLER	BP 4EOL	0 0 99	25E0	RP-NT	UNKNOWN		PBTL/CTN	0 C2 1
555.	3/ 9/72	ATLANTA ,CA	CRESYLIC-AC	BP 11EOL	0 0 1	0E9	RP-NT	UNKNOWN		STL DRUM	0 C2 1
556.	3/10/72	WESTRACO,MO	BLACK-LIQUO	UN 0ECU	0 0 99	0E9	OVRFW	MECH FAIL	UNKNOWN		0 04 5
557.	3/13/72	ABERDEEN,MO	ORGAN-PHOSP	BP 19EOL	0 0 3	0E9	RP-NT	CONTR FLRE	MTRL CFCT	STL DRUM	0 02 1
558.	3/13/72	OPELOUSA,LA	AMM-NITRATE	OX 64E1K	0 0 99	0E0	RP-NT	SHRP OBJ	IMP LDG	PLSTC BG	0 02 1
559.	3/14/72	BRYAN ,OH	NITRIC-ACID	CL 45ECK	0 0 1	0E9	OVRFW	GAU MS/DFC		STO TANK	0 C1 1
560.	3/15/72	CARENCO ,LA	AMM-NITRATE	OX 32E1K	0 0 99	0E0	RP-NT	SHRP OBJ	IMP LDG	PLSTC BG	0 C2 1
561.	3/17/72	MISSISSIPPI,S9	STYRENE	BP 0EOU	0 0 99	0E9	RP-TK	CLS&OVRTN		BARGE TK	0 C2 2
562.	3/19/72	KINGSTON,TN	UNKNOWN	UN 53E2L	0 0 99	0E9	OTHER	UNKNOWN			0 C3 2
563.	3/20/72	SEATTLE ,WA	THIMIT	BP 1ECK	0 0 1	20E0	RP-NT	SHRP OBJ	IMP LDG		0 C2 1
564.	3/20/72	MILLCCR,GA	SODIUM-HYDO	FS 23E1K	0 0 1	15E1	RP-NT	CONTR FLRE	IMP LDG	STL DRUM	0 02 1
565.	3/20/72	SPOKANE ,WA	DYNAFUME	BP 76ECL	0 0 99	10E1	RP-NT	SHRP OBJ	UNKNOWN	STL DRUM	0 51 1
566.	3/21/72	MTVERNON,KY	SULFURIC-AC	CL 38E3L	0 0 5	13E2	RP-TK	SHRP OBJ	DRLMNT	TK CR RR	0 02 1
567.	3/21/72	LUBBOCK,TX	PARATHION-L	BP 21E1L	0 0 6	0E9	RP-NT	CONTR FLRE	MTRL CFCT	STL DRUM	0 02 1
568.	3/21/72	99	CHLOROSULFO	CL 57ECL	0 0 1	0E9	RP-NT	SHRP OBJ	IMP LDG	STL DRUM	0 02 1
569.	3/23/72	CLEVELAN,OH	SULFURIC-AC	CL 38E2L	0 0 2	45E1	TS FL	HSE,CPL FA	UNKNOWN	TK TRLR	0 51 1
570.	3/23/72	FRESNO ,CA	ORGAN-PHOSP	BP 1EOK	0 0 1	0E9	RP-NT	LKG CVR	OVRPRES	STL PAIL	0 C2 1
571.	3/23/72	MANASSAS,VA	CHEM-NOI	UN 0ECU	0 0 99	0E9	OVRFW	UNKNOWN			0 C0 6
572.	3/23/72	LEBANON ,KY	HYDROCHLORI	CL 38E1L	0 0 1	20E1	OVRFW	PRNSLL ERR	UNKNOWN	STO TANK	0 01 1
573.	3/24/72	NILESJCT,OH	SODIUM-CLAT	OX 41EOK	0 0 1	10E1	RP-TK	DRLMNT	UNKNOWN	BK CR RR	0 C2 1
574.	3/24/72	PHILADEL,PA	PAINT-THINR	FL 21E1L	0 0 1	0E0	OVRFW	OPN VALVE	PRNSLL ERR	STL DRUM	0 03 3
575.	3/26/72	EDGEWOOD,DE	MURIATIC-AC	CL 44E3K	0 0 5	14E2	OTHER	UNKNOWN		TK CR RR	0 02 1
576.	3/26/72	SEADRIFT,TX	TOLUENE	FL 0EOL	0 0 99	5E0	TS FL	HSE,CPL FA		BARGE TK	0 C1 2
577.	3/27/72	NEWARK ,NJ	CYANIDE-SOD	BP 10E1K	0 0 2	20E1	RP-TK	CONTR FLRE	DFCTV WELD	PRTBL TK	0 02 1
578.	3/27/72	ELSEGUN,CA	CAUS-SODA	CL 11E3L	0 0 6	10E2	RP-TK	SHRP OBJ	OVRTURN	BOILER	0 02 1
579.	3/28/72	RICHFIELD,OH	NICOTINE-L	BP 4EOL	0 0 1	10E1	OTHER	UNKNOWN		STL PAIL	0 C2 1
580.	3/28/72	FLOYD ,VA	INDUS-WASTE	UN 10E3K	0 0 99	0E9	RP-TK	COLLSN		TK TRLR	0 02 6
581.	3/29/72	MILWAKEE,WI	CLEANG-COMP	UN 4EOL	0 0 99	0E9	RP-NT	MTRL DFCT	UNKNOWN		0 02 1
582.	3/31/72	EVENING,OH	METH-PARTHI	BP 15EOL	0 0 3	0E9	RP-NT	CONTR FLRE	MTRL CFCT	STL DRUM	0 02 1
583.	4/ 0/72	NEW-ORLN,LA	URANA-FERTL	UN 64E5L	1 0 99	0E9	RP-NT	SHIP SANK		BARGE TK	0 C01 2
584.	4/ 1/72	EVANDAL,OH	METH-PARTHI	BP 19EOL	14 0 3	0E9	RP-NT	CONTR FLRE			0 02 6
585.	4/ 3/72	SLT-LK-C,UT	CHLOROPICRI	BP 2ECL	0 0 1	35E0	RP-NT	CONTR FLRE	MTRL CFCT	STL DRUM	0 02 1
586.	4/ 3/72	FARMNGTN,CT	SODIUM-ARSN	BP 19ECL	0 0 1	0E9	RP-NT	SHRP OBJ	UNKNOWN	STL PAIL	0 12 1
587.	4/ 6/72	NACOGDOCH,TX	AMM-NITRATE	OX 21E2K	0 0 99	19E1	RP-NT	SHRP OBJ	IMP LDG	PLSTC BG	0 02 1
588.	4/ 7/72	BUSHBRK,SC	SULFURIC-AC	CL 19EOL	1 0 1	0E9	RP-TK	CONTR FLRE	DFCTV WELD	TK TRLR	0 C01 1
589.	4/ 7/72	KANAWHAR,WV	ETH-BUTYRAL	FL 11E3L	0 0 2	0E9	OVRFW	PRNSLL ERR		BARGE TK	0 01 2
590.	4/ 8/72	KANAWHAR,WV	ETH-GLYCOL	FL 25E4L	0 0 10	0E9	OTHER	UNKNOWN			0 C01 2
591.	4/ 8/72	PORTLAND,OR	AQUA-AMMONI	CL 45E1K	0 0 1	0E9	TS FL	HSE,CPL FA			0 C00 3
592.	4/ 8/72	BELLE ,WV	ETH-GLYCOL	FL 0EQU	0 0 99	0E9	OTHER	UNKNOWN			0 C00 6
593.	4/11/72	PHOENIX ,AZ	WEED-KILLER	BP 15EOL	0 0 99	10E0	RP-NT	CONTR FLRE	DROPPED	STL PAIL	0 C01 1
594.	4/11/72	CLEVELAND,OH	INDWST-FEO	UN 0EQU	0 0 99	0E9	OVRFW	MECH FAIL		IND MACH	0 C04 6
595.	4/11/72	DIXMOOR ,IL	INDWST-ACID	UN 0EQU	0 0 99	0E9	RP-TK	EXPLOSION	FIRE	STO TANK	0 C05 6
596.	4/13/72	PARIS ,TX	CARBOLIC-AC	BP 45EOK	0 0 1	7E0	RP-TK	CONTR FLRE	DFCTV WELD	TK CR RR	0 C02 1
597.	4/13/72	NACOGDOCH,TX	AMM-NITRATE	OX 29E2K	0 0 99	25E1	RP-NT	SHRP OBJ	IMP LDG	PLSTC BG	0 C02 1
598.	4/14/72	CANTON ,OH	SULFURIC-AC	CL 79E1L	0 0 1	25E0	TS FL	HSE,CPL FA	UNKNOWN	TK TRLR	0 C51 1
599.	4/14/72	COMERCE ,CO	ARS-TRICHLO	BP 19ECL	1 0 1	0E9	RP-NT	SHRP OBJ	IMP LDG	STL DRUM	0 C02 1
600.	4/14/72	AZUSA ,CA	INK	FL 59E1L	0 0 99	60E1	RP-NT	SHRP OBJ	IMP LDG	STL PAIL	0 C02 1
601.	4/17/72	HOUSTON ,TX	ANILINE-OIL	BP 14E1L	0 0 1	0E9	RP-NT	CONTR FLRE	DFCTV WELD	STL DRUM	0 C02 1
602.	4/18/72	JACKSNVL,FL	INSECTICIDE	BP 8ECL	0 0 99	20E0	RP-NT	CONTR FLRE	UNKNOWN	GBTL/CTN	0 C02 1

603.	4/18/72	STEILACM,WA	CAUS-SODA	CL 48E3K	0	0	7	0E9	RP-TK	DRLMENT	RDWY CONCS FLOOD	TK CR RR	0	02	1
604.	4/18/72	CARENCRO,LA	AMM-NITRATE	OX 41E1K	0	0	99	36E0	RP-NT	SHRP OBJ	IMP LDG	PA BAG	0	02	1
605.	4/18/72	STEILACM,WA	SODIUM-HYDX	CM 0EQU	0	0	99	0E9	RP-TK	UNKNOWN	CRLMENT	TK CR RR	0	02	6
606.	4/19/72	POCATELO, ID	INSECTICIDE	BP 19EOL	0	0	99	85E0	RP-NT	MTRL DFCT		STL DRUM	0	02	1
607.	4/19/72	IRVING, TX	ORGAN-PHOSP	BP 19ECL	0	0	1	11E0	RP-NT	SHRP OBJ	CROPPED	STL PAIL	0	01	1
608.	4/19/72	NACOGDCH, TX	AMM-NITRATE	OX 90E1K	0	0	99	0E0	RP-NT	SHRP OBJ	IMP LDG	PLSTC BG	0	02	1
609.	4/20/72	AKRON, OH	CAUS-SODA	CL 76E2L	0	0	5	10E1	TS FL	HSE, CPL FA	UNKNOWN	TK TRLR	0	01	1
610.	4/20/72	SLADEN, MS	HYDROGEN-PE	CL 13E3K	0	0	9	64E2	RP-TK	CLS&CVRTN		TK TRLR	0	02	1
611.	4/21/72	NACOGDCH, TX	AMM-NITRATE	OX 80E1K	0	0	99	72E0	RP-NT	SHRP OBJ	IMP LDG	PLSTC BG	0	02	1
612.	4/22/72	99, MS	HYDROGEN-PE	CL 82E1K	1	0	5	35E3	RP-NT	CONTR FLRE	OVRTURN	STL DRUM	0	02	1
613.	4/23/72	HARRISBG, PA	INSECTICIDE	BP 1EOL	0	0	99	0E9	RP-NT	SHRP OBJ			0	01	1
614.	4/24/72	MEMPHIS, TN	ANTI-FREEZE	FL 30E2L	0	0	7	0E9	RP-TK	SHRP OBJ	UNKNOWN	TK CR RR	0	02	6
615.	4/26/72	DOONTON, NJ	SOD-NITRITE	OX 95EOL	0	0	1	10E0	TS FL	HSE, CPL FA	PRNSLL ERR	TK TRLR	0	21	1
616.	4/26/72	DALLAS, TX	PERACETIC-A	OX 57ECL	0	0	1	50E2	RP-NT	LSE CP, CVR		STL DRUM	0	02	1
617.	4/26/72	LOUISVLE, KY	MURIATIC-AC	CL 14E3L	0	0	4	39E1	RP-TK	CONTR FLRE	MTRL DFCT	TK TRLR	0	02	1
618.	4/27/72	ROSEVILL, MN	ORGAN-PHOSP	BP 1EOL	0	0	1	20E1	OTHER	UNKNOWN		PA BAG	0	02	1
619.	4/27/72	HAZLCRST, IL	VINYL-ACETA	FL 11E2L	0	0	1	0E9	RP-TK	LSE CP, CVR	GSKT FAIL	TK CR RR	0	02	1
620.	4/27/72	99, MD	KEPONE-TECH	BP 7ECK	0	0	1	0E9	OTHER	UNKNOWN			0	00	5
621.	4/28/72	BELLVIEW, MO	SULFURIC-AC	CL 20E2L	0	0	1	10E1	RP-TK	LKG CVR	OVRTURN	TK TRLR	0	02	1
622.	4/29/72	CORINTH, KY	CHRO-ACI-SL	BP 49ECL	0	0	1	60E0	RP-NT	CONTR FLRE	IMP LDG	GLS CRBY	0	02	1
623.	4/30/72	QUINCY, MA	INDUS-WASTE	UN 0EQU	0	0	99	0E9	OVRFW	UNKNOWN			0	00	6
624.	5/ 1/72	W-MIDLSX, PA	SODIUM-ARSI	BP 1EOL	0	0	1	0E9	RP-NT	SHRP OBJ		STL PAIL	0	51	1
625.	5/ 1/72	SNTA-CLA, CA	ETH-PARATHI	BP 11ECL	0	0	2	26E1	RP-NT	CONTR FLRE	UNKNOWN	STL DRUM	0	02	1
626.	5/ 1/72	STONEWAL, TX	SALT-WATER	UN 24E3L	0	0	3	0E9	OVRFW	HSE, CPL FA	MTRL DFCT	PIPES	0	00	6
627.	5/ 2/72	GREENSB, NC	SULFURIC-AC	CL 76E1L	0	0	1	78E0	RP-TK	LSE CP, CVR	PRNSLL ERR	TK TRLR	0	01	1
628.	5/ 2/72	CARLSTDT, NJ	CARBOLIC-AC	BP 15E1L	0	0	3	32E0	OVRFW	MECH FAIL		TK TRLR	0	01	1
629.	5/ 2/72	NACOGDCH, TX	AMM-NITRATE	OX 72E2K	0	0	99	76E0	RP-NT	SHRP OBJ	IMP LDG	PLSTC BG	0	02	1
630.	5/ 2/72	NACOGDCH, TX	AMM-NITRATE	OX 57E1K	0	0	99	50E0	RP-NT	SHRP OBJ	IMP LDG	PLSTC BG	0	02	1
631.	5/ 3/72	GREENVIL, MS	METH-PARTHI	BP 1ECL	0	0	1	10E1	RP-NT	CONTR FLRE	DFCTV WELD	STL DRUM	0	02	1
632.	5/ 3/72	SANDUSKY, OH	MULTIPLE	BP 0EQU	0	0	99	0E9	OTHER	UNKNOWN		DUMP	2	03	6
633.	5/ 3/72	ENNIS, TX	MULTIPLE	OX 76E1L	0	0	1	0E9	OTHER	PRNSLL ERR		TK CR RR	2	06	6
634.	5/ 3/72	ENNIS, TX	SODIUM-CLAT	OX 38EOL	0	0	1	0E9	OTHER	PRNSLL ERR		TK CR RR	1	06	6
635.	5/ 3/72	ENNIS, TX	CALCIUM-CHL	BP 38E1L	0	0	1	0E9	OTHER	PRNSLL ERR		TK CR RR	1	06	6
636.	5/ 3/72	SANDUSKY, OH	COPPER-SULF	BP 0EQU	0	0	99	0E9	OTHER	UNKNOWN		DUMP	1	03	6
637.	5/ 3/72	SANDUSKY, OH	SODIUM-CLID	UN 0EQU	0	0	99	0E9	OTHER	UNKNOWN		DUMP	1	03	6
638.	5/ 4/72	SHREVPRT, LA	METH-PARTHI	BP 4EOL	0	0	1	20E1	RP-NT	CONTR FLRE	DFCTV WELD	STL DRUM	0	02	1
639.	5/ 4/72	CHICAGO, IL	MURIATIC-AC	CL 59E2L	0	0	2	23E1	RP-TK	CONTR FLRE	MTRL DFCT	TK TRLR	0	00	1
640.	5/ 4/72	NACOGDCH, TX	AMM-NITRATE	OX 16E2K	0	0	99	14E1	RP-NT	SHRP OBJ	IMP LDG	PLSTC BG	0	02	1
641.	5/ 4/72	CHICAGO, IL	LIME-SLAKED	CL 68E4L	0	0	6	0E9	RP-TK	SHIP SANK		BARGE TK	0	02	6
642.	5/ 4/72	SEATTLE, WA	CAUS-SODA	CL 0EQU	0	0	99	0E9	OVRFW	INTNL REL	PRNSLL ERR	BARGE TK	0	01	6
643.	5/ 4/72	IRONTON, OH	INDUS-WASTE	UN 0EQU	0	0	99	0E9	OVRFW	FLCCD		SETLG PD	0	05	6
644.	5/ 5/72	CINCINTI, OH	ANILINE-OIL	BP 7ECK	0	0	1	0E9	RP-NT	CONTR FLRE	MTRL DFCT	STL DRUM	0	02	1
645.	5/ 5/72	NEW-ORLN, LA	SULFUR-MOLT	CL 0EQU	0	1	99	0E9	TS FL	UNKNOWN			0	09	2
646.	5/ 5/72	MEMPHIS, TN	SULFURIC-AC	CL 0EQU	0	0	99	0E9	TS FL	UNKNOWN			0	01	6
647.	5/ 5/72	ANTIOCH, CA	HYDROCHLORI	CL 36E4L	0	0	10	0E9	OVRFW	UNKNOWN	UNKNOWN		0	00	6
648.	5/ 5/72	PHILADEL, PA	HYDROGEN-PE	CL 17E1K	0	0	3	52E0	OVRFW	PRNSLL ERR	UNKNOWN	TK TRLR	0	01	1
649.	5/ 7/72	99, MD	CHEM-NOI	UN 0EQU	0	0	99	0E9	OVRFW	UNKNOWN			0	04	6
650.	5/ 8/72	CORAPOLS, PA	ACETONE	FL 11E1L	0	0	1	12E0	RP-TK	VALVE BKN		TK TRLR	0	01	1
651.	5/ 8/72	OAKLAND, CA	DINITRO-PHE	BP 1EOL	0	0	1	15E1	RP-NT	FORKLIFT	PRNSLL ERR	STL DRUM	0	52	1
652.	5/ 8/72	MEMPHIS, TN	SULFURIC-AC	CL 76E1L	0	0	1	0E9	TS FL	UNKNOWN			0	01	2
653.	5/ 8/72	PORTLAND, OR	MOLASSES	UN 2EOL	0	0	1	0E9	TS FL	HSE, CPL FA			0	01	6

654.	5/ 9/72	NEW-ORLN, LA	PARATHION-L	BP	11E0L	0	0	2	0E9	RP-NT	CONTR FLRE	MTRL DFCT	STL DRUM	C	C2	1
655.	5/ 9/72	99	,S9 PARATHION-L	BP	1E0K	0	0	1	0E9	RP-NT	CONTR FLRE	UNKNOWN	STL PAIL	0	02	1
656.	5/ 9/72	SUNSET	,LA AMM-NITRATE	OX	11E2K	0	0	99	70E0	RP-NT	SHRP OBJ	IMP LDG	PLSTC BG	0	C2	1
657.	5/ 9/72	NACOGDCH, TX	AMM-NITRATE	OX	91E1K	0	0	99	80E0	RP-NT	SHRP OBJ	IMP LDG	PLSTC BG	0	02	1
658.	5/ 9/72	COOKE	,TX SALT-WATER	UN	18E4L	0	0	6	0E9	OVRFW	HSE,CPL FA	DFCTV WELD	PIPES	0	02	6
659.	5/10/72	S-BARTNV, IL	MULTIPLE	UN	0E0U	0	0	99	0E9	TS FL	HSE,CPL FA			2	04	3
660.	5/10/72	S-BARTNV, IL	MOLTEN-METL	UN	0E0U	0	0	99	0E9	OVRFW	BCDY FLRE			1	C4	3
661.	5/10/72	S-BARTNV, IL	HYDRAUL-OIL	UN	0ECL	0	0	99	0E9	TS FL	HSE,CPL FA			1	04	3
662.	5/10/72	BALTIMOR, MD	SOD-SULFIDE	BP	47E2L	0	0	7	0E9	OVRFW	MTRL CFCT		PIPES	0	C3	5
663.	5/10/72	BALTIMOR, MD	SOD-SULFIDE	BP	38E2L	0	0	7	0E9	RP-TK	VALVE BKN		STO TANK	C	03	6
664.	5/10/72	BAKERSFI, CA	HYDROCHLORI	CL	76ECL	0	0	1	13E1	RP-NT	CGNTR FLRE	UNKNOWN	STL DRUM	0	C1	1
665.	5/11/72	SKOKIE	,IL CAUS-SODA	CL	19E1L	0	0	1	13E2	OVRFW	VALVE BKN	UNKNOWN	TK TRLR	03E1	1	
666.	5/11/72	GALES-FR, CT	STYRENE	BP	11E1L	0	0	1	0E9	RP-TK	CONTR FLRE	UNKNCWN	BARGE TK	C	02	6
667.	5/11/72	WARREN	,OH METAL-HYDRO	CL	87E4L	0	0	9	0E9	OVRFW	UNKNCWN			0	04	6
668.	5/11/72	WARREN	,OH INDUS-CHEM	UN	87E4L	0	0	99	0E9	OVRFW	MECH FAIL			0	04	6
669.	5/12/72	MASON	,WV PHENOLIC	2 FL	0ECU	0	0	99	0E9	OTHER	UNKNCWN			0	C0	6
670.	5/12/72	OAKLAND	,CA INDUS-WASTE	UN	0ECU	0	0	99	0E9	OVRFW	HSE,CPL FA			0	04	6
671.	5/12/72	MIDLAND	,TX SALT-WATER	UN	41E2L	0	0	2	0E9	OVRFW	HSE,CPL FA		PIPES	0	02	6
672.	5/13/72	CAMP-HIL, PA	POISON-NOI	BP	18E0L	0	0	99	0E9	RP-NT	CONTR FLRE	UNKNCWN	STL PAIL	C	02	1
673.	5/14/72	STOCKHLM, WI	RESIN-SGLUT	FL	38E3L	0	0	99	0E9	RP-TK	DRLMNT		TK CR RR	0	02	6
674.	5/14/72	AUSTIN	,MN SULFURIC-AC	CL	14E3L	0	0	4	0E9	OVRFW	OPN VALVE	PRNSLL ERR		C	C3	6
675.	5/14/72	GRAMERCY, LA	ANT-PENTACH	CL	23E2K	0	0	3	0E9	OVRFW	CONTR FLRE	MTRL DFCT	STO TANK	C	03	6
676.	5/15/72	CLIMAX	,CO SULFURIC-AC	CL	38E2L	0	0	2	12E2	RP-TK	OPN VALVE	PRNSLL ERR	TK TRLR	C	01	1
677.	5/15/72	HENDRSON, NV	HEAT XFR OIL	UN	76E1L	0	0	99	0E0	RP-TK	MTRL CFCT		SLUDGE D	0	C4	3
678.	5/15/72	URAVAN	,CO SULFUR-MOLT	CL	18E3K	0	0	2	0E9	RP-TK	CONTR FLRE	OVRTURN	TK TRLR	0	C2	6
679.	5/15/72	CLIMAX	,CO SULFURIC-AC	CL	11E3L	0	0	3	0E9	RP-TK	CONTR FLRE	UNKNOWN	STO TANK	C	00	6
680.	5/15/72	CLEVLAND, OH	INDUS-WASTE	UN	0E0U	0	0	99	0E9	OVRFW	UNKNCWN			C	04	6
681.	5/15/72	LEFORE	,ND WFEY-IND-WS	UN	0E0L	0	0	99	0E9	OVRFW	UNKNOWN		SETLG PD	C	05	6
682.	5/15/72	EUCLID	,OH INDUS-WASTE	UN	0E0U	0	0	99	0E9	OVRFW	UNKNCWN			0	04	6
683.	5/16/72	FAIRLESH, PA	MURIATIC-AC	CL	38E1L	0	0	1	25E0	RP-TK	VALVE BKN		TK TRLR	C	01	1
684.	5/16/72	ATLANTA	,GA METH-PARTHI	BP	1E0L	0	0	1	46E0	RP-NT	CONTR FLRE	DFCTV WELD	STL DRUM	0	02	1
685.	5/16/72	MINGO-JC, OH	IND-WST-FEO	UN	76E1K	0	0	99	0E9	OVRFW	HSE,CPL FA	UNKNOWN	PIPES	0	C3	6
686.	5/16/72	99	,PA INDUS-WASTE	UN	21E1L	0	0	99	0E9	OVRFW	PRNSLL ERR	UNKNOWN		C	C0	6
687.	5/16/72	W-LAFAYT, OH	PHOS-PENTAS	FS	51E3K	0	0	10	0E9	RP-TK	FIRE	UNKNOWN	BK CR RR	C	02	6
688.	5/16/72	CARBON	,PN SULFURIC-AC	CL	27E2L	0	0	2	0E9	RP-NT	CONTR FLRE	DRLM&OVRTN	ST BATT	C	02	6
689.	5/17/72	SOUTHGAT, CA	PARATHION-L	BP	1E0L	0	0	1	23E1	RP-NT	SHRP OBJ	UNKNOWN	STL PAIL	0	02	1
690.	5/17/72	AZUSA	,CA INK	FL	57E0L	0	0	99	11E1	RP-NT	SHRP OBJ	IMP LDG	STL PAIL	0	02	1
691.	5/17/72	EXTON	,PA ZIRCONIUM	FS	91E1K	10	0	1	0E0	OVRFW	MECH FAIL		CKG/MX T	0	04	3
692.	5/17/72	MARION	,OH DRYING-COMP	UN	11E2L	0	0	99	0E9	RP-NT	CONTR FLRE	DROPPED		0	03	6
693.	5/17/72	99	,MD INDUS-WASTE	UN	16E1L	0	0	99	0E9	OVRFW	UNKNOWN			0	02	6
694.	5/17/72	N-FLORNC, PA	IND-CHEMNOI	UN	0E0U	0	0	99	0E9	OVRFW	UNKNOWN			0	00	6
695.	5/17/72	KANAWA-R, WV	INDUS-WASTE	UN	38E2L	0	0	99	0E9	OVRFW	OPN VALVE			C	C4	6
696.	5/17/72	SLT-LK-C, UT	SODIUM-HYPO	CL	11E2L	0	0	6	0E9	OVRFW	VALVE BKN		STO TANK	0	03	6
697.	5/17/72	99	,MD XYLENE	FL	19E1L	0	0	1	0E9	OVRFW	UNKNOWN		STO TANK	0	C1	6
698.	5/18/72	NACOGDCH, TX	AMM-NITRATE	OX	54E1K	0	0	99	48E0	RP-NT	SHRP OBJ	IMP LDG	PLSTC BG	0	02	1
699.	5/18/72	CHICAGO	,IL TOLUENE	FL	21E1L	0	0	3	22E1	RP-NT	SHRP OBJ		STL DRUM	0	11	1
700.	5/18/72	BEDFORD	,MI FERRIC-CHLO	OX	15E3L	0	0	6	0E9	OVRFW	RPTRD PIPE	UNKNOWN	STO TANK	C	03	6
701.	5/19/72	MOBILE	,AL ARS-MIXTURE	BP	8E0L	0	0	1	0E9	RP-NT	CONTR FLRE	MTRL DFCT	STL PAIL	C	02	1
702.	5/19/72	N-PLATTE, NB	WEED-KILLER	BP	38E0L	0	0	99	95E0	RP-NT	CONTR FLRE	MTRL DFCT	STL DRUM	0	02	1
703.	5/19/72	PLNTYWOD, MT	SALT-WATER	UN	16E3L	0	0	2	0E9	OVRFW	HSE,CPL FA	UNKNOWN	PIPES	0	02	6
704.	5/20/72	RICHMOND, IN	INSECTICIDE	BP	1E0L	0	0	99	10E0	RP-NT	CONTR FLRE	UNKNCWN	STL DRUM	C	02	1

705.	5/20/72	FAIR-PLY, SC	CARBOLIC-AC	BP	38E2K	0	0	7	80E0	RP-TK	LSE CP,CVR	CLS&OVRTN	TK	TRLR	0	C2	1			
706.	5/20/72	PITTSBRG, PA	ALCOHOL-UNS	FL	8E0L	0	0	1	0E9	TS	FL	UNKNOWN			0	01	6			
707.	5/21/72	RIDGECRS, CA	ISOBORENE-D	BP	1ECK	0	0	1	25E0	RP-NT	CONTR FLRE	MTRL DFCT	STL	PAIL	C	02	1			
708.	5/21/72	CARROLTN, GA	HYDRAUL-OIL	UN	0ECU	0	0	99	0E9	TS	FL	HSE,CPL FA	MLTN	METAL	1	04	3			
709.	5/21/72	CARROLTN, GA	COPPER-MLTN	UN	0E0U	0	0	99	0E9	OVRFW	MECH	FAIL			1	04	3			
710.	5/21/72	CARROLTN, GA	MULTIPLE	UN	0E0U	0	0	99	0E9	OVRFW					2	04	3			
711.	5/22/72	99	,NJ	INDUS-WASTE	UN	0ECU	0	0	99	0E9	CVRFW	UNKNCW			0	C0	6			
712.	5/22/72	PAWTUXET, RI	INDUS-WASTE	UN	0E0U	0	0	99	0E9	CVRFW	UNKNOWN		PIPES		0	00	6			
713.	5/22/72	STUBNVIL, OH	IND-WST-FEO	UN	76E2L	0	0	99	0E9	OVRFW	MECH	FAIL	UNKNCW		0	04	6			
714.	5/23/72	HOME	,PA	METH-ETYL-K	FL	11E3L	1	0	3	53E2	RP-TK	LSE CP,CVR	OVRTURN	TK	TRLR	C	02	1		
715.	5/23/72	KENOVA	,WV	HEPTANE	FL	19E2L	0	0	1	0E9	OVRFW	VALVE BKN	MECH	FAIL	PIPES	0	02	6		
716.	5/23/72	MARTNS-F, OH	IND-WST-IRN	UN	0E0U	0	0	99	0E9	OVRFW	UNKNCW		PIPES		0	C4	6			
717.	5/23/72	MINGO-JC, OH	IND-WST-FEO	UN	0E0U	0	0	99	0E9	CVRFW	INTNL	REL	PIPES		0	04	6			
718.	5/23/72	PITTSBRG, PA	INDUS-WASTE	UN	0E0U	0	0	99	0E9	OVRFW	MECH	FAIL			0	04	6			
719.	5/23/72	MONTAGUE, TX	SALT-WATER	UN	23E3L	0	0	3	0E9	OVRFW	HSE,CPL FA	MTRL DFCT	PIPES		0	02	6			
720.	5/24/72	COLUMBIA, SC	CAUS-SODA	CL	38E1L	0	0	1	50E0	RP-TK	UNKNOWN		TK	CR	RR	0	01	1		
721.	5/24/72	SHARNVIL, OH	SODIUM-ARSI	BP	1ECK	0	0	1	0E9	RP-NT	LSE CP,CVR		STL	DRUM	C	02	1			
722.	5/24/72	OMAHA	,NB	ORGAN-PHOSP	BP	8E0L	0	0	1	0E9	RP-NT	LSE CP,CVR			STL	DRUM	0	02	1	
723.	5/24/72	FRST VEW, IL	INK	FL	22E3L	0	0	4	0E0	RP-NT	EXPLOSION	FIRE	ELCT	ARCNG	STL	DRUM	2	03	3	
724.	5/24/72	FRST VEW, IL	PLASTICIZER	FL	22E3L	0	0	4	0E0	RP-NT	EXPLOSION	FIRE	ELCT	ARCNG	STL	DRUM	2	03	3	
725.	5/24/72	FRST VEW, IL	NITROCELULO	FL	22E3L	0	0	4	0E0	RP-NT	EXPLCSION	FIRE	ELCT	ARCNG	STL	DRUM	2	03	3	
726.	5/24/72	FRST VEW, IL	MULTIPLE	FL	66E3L	0	0	4	0E0	RP-NT	EXPLCSION	FIRE	ELCT	ARCNG	STL	DRUM	3	C3	3	
727.	5/24/72	BOSTON	,MA	INDUS-WASTE	UN	0E0U	0	0	99	0E9	OVRFW	UNKNOWN			PIPES	0	02	6		
728.	5/24/72	99	,NJ	INDUS-WASTE	UN	0E0U	0	0	99	0E9	CTHER	UNKNOWN			0	04	6			
729.	5/25/72	POCATELO, ID	CYANIMD-POI	CL	14E0K	0	0	1	10E1	RP-NT	MTRL	DFCT	PA	BAG	0	02	1			
730.	5/25/72	SILVAS	,IL	MOLTEN-METL	UN	0E0U	0	0	99	0E9	CVRFW	BODY FLRE			1	C4	3			
731.	5/25/72	SILVAS	,IL	HYDRAUL-OIL	UN	0E0U	0	0	99	0E9	TS	FL	HSE,CPL FA	MLTN	METAL	1	04	3		
732.	5/25/72	SILVAS	,IL	MULTIPLE	UN	0E0U	0	0	99	0E9	TS	FL	HSE,CPL FA	MLTN	METAL	2	04	3		
733.	5/25/72	ORLANDO	,FL	HYDROCHLORI	CL	4ECK	0	0	1	54E0	RP-NT	UNKNOWN	UNKNOWN	GLS	BTLS	0	01	1		
734.	5/26/72	FREMONT	,CA	CARBOLIC-AC	BP	80E2K	0	0	8	40E3	RP-TK	UNKNOWN	COLLSN	PRNSLL	ERR	TK	TRLR	0	02	1
735.	5/26/72	99	,99	SODIUM-HYDX	CM	34E1K	0	0	1	27E1	RP-NT	UNKNOWN			STL	DRUM	0	01	1	
736.	5/27/72	RIDGEVIL, IN	AMM-NITRATE	OX	76E2K	0	0	99	0E9	RP-TK	DRLMENT	UNKNCW			BK	CR	RR	0	02	1
737.	5/27/72	TULSA	,OK	CYANIDE	BP	0E0U	0	0	99	0E9	CTHER	UNKNOWN			0	02	6			
738.	5/29/72	PHILADEL, PA	AMM-NITRATE	OX	68E3K	0	0	10	18E3	RP-TK	LSE CP,CVR	DRLM&OVRTN	UNKNOWN		BK	CR	RR	1	02	1
739.	5/29/72	PHILADEL, PA	MULTIPLE	CL	12E4K	0	0	10	18E3	RP-TK					TK	CR	RR	2	02	1
740.	5/29/72	PHILADEL, PA	NITRIC-ACID	CL	52E3K	0	0	10	80E1	RP-TK	SHRP OBJ	DRLMENT	UNKNOWN		1	02	1			
741.	5/29/72	ASHMORE	,IL	NITRIC-ACID	CL	19E3L	11	0	9	0E9	RP-TK	UNKNCW	DRLMENT		TK	CR	RR	0	02	6
742.	5/30/72	CHATANGA, TN	CAUS-SODA	CL	11E2K	0	0	2	15E1	RP-TK	UNKNOWN				TK	CR	RR	0	02	1
743.	5/30/72	EDGEWOOD, IL	ETH-DIBROMI	BP	0E0U	0	0	99	0E9	RP-TK	UNKNCW	DRLMENT			TK	CR	RR	C	02	6
744.	5/31/72	NEVIL-IS, PA	SULFURIC-AC	CL	57E2L	0	0	1	36E0	CVRFW	PRNSLL	ERR			STO	TANK	C	51	1	
745.	5/31/72	TACOMA	,WA	HERBICIDE	BP	4E0L	0	0	9	0E9	OVRFW	PRNSLL	ERR	GAU	MS/DFC	STO	TANK	0	03	6
746.	5/31/72	STEUBENV, OH	INDWST-FEO	UN	76E2L	0	0	99	0E9	RP-NT	OPN	VALVE			PIPES	0	04	6		
747.	5/31/72	EVERETT	,WA	K72-POT-PE	BP	57E2L	0	0	5	0E9	CVRFW	UNKNOWN			SETLG	PD	0	05	6	
748.	6/ 1/72	MAMOTH-J, NJ	SODIUM-ARSI	BP	76E0L	0	0	5	0E9	RP-NT	CONTR FLRE	MTRL DFCT			STL	DRUM	0	02	1	
749.	6/ 1/72	SAVANNAH, GA	SULFURIC-AC	CL	15E1L	0	0	1	30E2	ITLRL	UNKNOWN				TK	TRLR	0	02	1	
750.	6/ 3/72	OPEDALE, MA	MOLTEN-METL	UN	0E0U	0	0	99	0E9	OVRFW	BODY	FLRE						0	04	3
751.	6/ 3/72	NEW-BRUN,	SUGAR-LIQUI	UN	59E3K	0	0	99	16E3	OVRFW	HSE,CPL FA	DFCTV WELD	PRNSLL	ERR	STO	TANK	C	04	3	
752.	6/ 5/72	PHOENIX	,AZ	INSECTICIDE	BP	8E0L	0	0	99	19E0	CTHER	UNKNOWN			GBTL	/CTN	0	02	1	
753.	6/ 5/72	TWIN-FLS, ID	INSECTICIDE	BP	76E0L	0	0	99	40E1	RP-NT	SHRP OBJ	IMP	LCG		STL	DRUM	C	02	1	
754.	6/ 5/72	BOISE	,ID	WEED-KILLER	BP	2E0L	0	0	99	50E0	RP-NT	CONTR FLRE	DFCTV WELD		STL	DRUM	0	C2	1	
755.	6/ 5/72	BELCAMP	,MD	NEOSOL	FL	0E0U	0	0	99	0E0	OVRFW	MECH	FAIL		DIP	TANK	0	04	3	

756.	6/ 5/72	BALTIMOR,MD	CHEM-NOI	UN	0ECU	0	0	99	0E9	GVRFW	PRNSLL ERR	UNKNCW					0	C1	5	
757.	6/ 7/72	SWEETH2O,WY	RESIN-SOLUT	FL	13E3L	0	0	99	0E9	RP-TK	VALVE BKN		TK	TRLR			0	02	6	
758.	6/ 8/72	CHATNOGA,TN	CAUS-SODA	CL	23E2L	0	0	3	27E1	GVRFW	VALVE BKN		TK	TRLR			C361	1		
759.	6/ 8/72	STUNS-PT,WI	PARATHION-L	BP	8EOL	3	0	2	10E2	RP-NT	FORKLIFT	PRNSLL ERR					0	01	1	
760.	6/ 8/72	RICHMOND,VA	ORGAN-PHOSP	BP	9ECK	0	0	1	0E9	RP-NT	CONTR FLRE	UNKNOWN	PA	BAG			0	02	1	
761.	6/ 9/72	DUSON ,LA	AMM-NITRATE	OX	36E1K	0	0	99	30E0	RP-NT	SHRP OBJ	IMP LDG	PA	BAG			0	02	1	
762.	6/ 9/72	DUSON ,LA	AMM-NITRATE	OX	32E1K	0	0	99	28E0	RP-NT	SHRP OBJ	IMP LDG	PA	BAG			0	02	1	
763.	6/ 9/72	CINCINAT,OH	DINITRO-PHE	BP	34E1L	0	0	4	10E1	RP-NT	CONTR FLRE		STL	DRUM			0	02	1	
764.	6/ 9/72	CEDARCTY,CT	PHOS-ANHYDR	UN	21E2L	0	0	1	51E2	RP-NT	CONTR FLRE	COLLSN	STL	DRUM			C	00	1	
765.	6/ 9/72	MEMPHIS ,TN	METH-PARTHI	BP	0EO	0	0	99	0E9	RP-NT	CONTR FLRE	MTRL DFCT	STL	DRUM			C	02	1	
766.	6/ 9/72	99 ,99	METH-PARTHI	BP	8EOL	0	0	2	0E9	RP-NT	CONTR FLRE	DFCTV WELD	STL	DRUM			0	02	1	
767.	6/ 9/72	SAN-PABL,CA	INDUS-WASTE	UN	0EOU	0	0	99	0E9	GVRFW	HSE,CPL FA		PIPES				0	02	6	
768.	6/10/72	CHARLTON,TN	CAUS-SODA	CL	75EOL	0	0	1	63E1	GVRFW	LSE CP,CVR	PRNSLL ERR	TK	TRLR			C	02	1	
769.	6/10/72	ST-CLOUD,MN	HYDRAUL-OIL	UN	38E1L	0	0	99	0E9	TS FL	HSE,CPL FA	EXPLOSION					1	C4	3	
770.	6/10/72	ST-CLOUD,MN	MULTIPLE	UN	76E1L	0	0	99	0E9	TS FL	HSE,CPL FA	EXPLOSION					2	C4	3	
771.	6/10/72	ST-CLOUD,MN	RESIN-SOLUT	FL	38E1L	0	0	99	0E9	RP-TK	CONTR FLRE	EXPLOSION					1	04	3	
772.	6/13/72	KINGS-MT,KY	DINITRO-PHE	BP	30EOL	0	0	4	20E0	RP-NT	SHRP OBJ	IMP LDG	STL	DRUM			0	01	1	
773.	6/13/72	JOLIET ,IL	SULFURIC-AC	CL	30E1L	0	0	1	14E0	TS FL	MTRL DFCT	UNKNOWN	TK	TRLR			0	50	1	
774.	6/13/72	ULESLACO,TX	METH-PARTHI	BP	4EOL	0	0	1	0E9	RP-NT	CONTR FLRE	DFCTV WELD	STL	DRUM			0	02	1	
775.	6/13/72	CHESAPKE,VA	MNOCYCLOHEX	FL	42E1L	0	0	1	0E9	RP-NT	CONTR FLRE	DROPPED	STL	DRUM			0	01	1	
776.	6/14/72	SLT-LK-C,CT	CHLORDANE	BP	4EOL	0	0	1	0E9	RP-NT	CONTR FLRE	IMP LDG	GBTL	/CTN			0	02	1	
777.	6/14/72	PUERTO-R,	FLAM-LIQ-UN	FL	0EOU	0	1	99	0E9	GVRFW	UNKNOWN		STO	TANK			0	05	3	
778.	6/15/72	ST-FRNCs,AR	ETH-DICHLOR	FL	83E1K	0	0	2	20E2	RP-NT	SHRP OBJ	COLLSN	UNKNOWN	STL	DRUM			0	02	1
779.	6/15/72	ENGLWOOD,NJ	CHLOROSULFO	CL	19E1L	0	0	1	50E0	RP-TK	CONTR FLRE	DFCTV WELD	TK	TRLR			C	02	1	
780.	6/15/72	HOUSTON ,TX	METHANOL	FL	11E2L	2	0	1	0E0	RP-NT	EXPLOSION	CHMCAL RE	FORGN	SUBS	STL	DRUM	2	C4	3	
781.	6/15/72	HOUSTON ,TX	FORMALDEHYD	FL	11E2L	2	0	1	0E0	RP-NT	EXPLOSION	CHMCAL RE	FORGN	SUBS	STL	DRUM	2	04	3	
782.	6/15/72	HOUSTON ,TX	CAUS-SODA	CL	0EOU	2	0	1	0E0	RP-NT	EXPLOSION	CHMCAL RE	FORGN	SUBS	STL	DRUM	2	04	3	
783.	6/15/72	HOUSTON ,TX	MULTIPLE	FL	21E1L	2	0	1	0E0	RP-NT	EXPLOSION	CHMCAL RE	FORGN	SUBS	STL	DRUM	3	04	3	
784.	6/15/72	BALTIMOR,MD	PAINT-THINR	FL	76E2L	0	0	99	0E9	RP-TK	UNKNOWN		STO	TANK			0	C1	6	
785.	6/15/72	BALTIMOR,MD	PAINT-THINR	FL	76E2L	0	0	3	0E9	RP-TK	UNKNOWN		STO	TANK			C	C3	6	
786.	6/16/72	READING ,PA	PARATHION-L	BP	8EOL	0	0	2	35E2	RP-NT	SHRP OBJ	IMP LDG	STL	PAIL			0	02	1	
787.	6/16/72	PINE-BLF,AR	CAUS-SODA	CL	90E1L	0	0	2	50E0	GVRFW	OPN VALVE	PRNSLL ERR	TK	TRLR			0	C1	1	
788.	6/16/72	S-CHRLST,OH	HYDROCHLORI	CL	19EOL	0	0	1	65E1	RP-NT	LSE CP,CVR		PBTL	/CTN			0	02	1	
789.	6/19/72	DOWNIGTN,PA	SILICON-CHL	CL	38E1L	0	0	1	25E1	GVRFW	PRNSLL ERR		STO	TANK			0	01	1	
790.	6/19/72	BATORUGE,LA	SULFURIC-AC	CL	79E1L	0	0	1	28E1	ITLRL	PRNSLL ERR		TK	TRLR			0	01	1	
791.	6/19/72	BALTIMOR,MD	CHEM-NOI	UN	0EOU	0	0	99	0E9	GVRFW	UNKNOWN						0	C4	6	
792.	6/20/72	DEERFLD ,MA	PARATHION-L	BP	1EOL	0	0	1	0E9	RP-NT	LSE CP,CVR		STL	PAIL			0	02	1	
793.	6/20/72	ULESLACO,TX	PARATHION-L	BP	4EOL	0	0	1	10E2	RP-NT	CONTR FLRE		STL	DRUM			0	01	1	
794.	6/20/72	ROANOKE ,VA	INSECTICIDE	BP	3EOL	0	0	99	15E0	RP-NT	CONTR FLRE	DROPPED	GBTL	/CTN			0	C2	1	
795.	6/21/72	N-LAKE ,IL	CAUS-SODA	CL	19E1L	0	0	1	5E0	GVRFW	PRNSLL ERR	GAU MS/DFC	STO	TANK			0	01	1	
796.	6/22/72	BALTIMOR,MD	CALCIUM-HYD	CL	45E1K	0	0	1	0E9	OTHER	FLGCD						0	03	3	
797.	6/23/72	LAKE-CHA,LA	CHLOROSULFO	CL	1EOL	3	0	1	35E1	RP-NT	CONTR FLRE	UNKNOWN	GBTL	/CTN			0	C1	1	
798.	6/24/72	WHITE SPG,FL	SULFURIC-AC	CL	11E5L	0	0	9	50E3	RP-TK	MTRL DFCT	O V R F W	CKG/MX	T			0	04	3	
799.	6/24/72	IMPERIAL,CA	MULTIPLE	BP	54E2K	0	0	8	0E9	GVRFW	EXPLOSION	FIRE					3	01	6	
800.	6/24/72	IMPERIAL,CA	THIMET	BP	18E2K	0	0	1	0E9	GVRFW	EXPLOSION	FIRE					2	C1	6	
801.	6/24/72	IMPERIAL,CA	HERBICIDE	BP	18E2K	0	0	99	0E9	GVRFW	EXPLOSION	FIRE					2	01	6	
802.	6/24/72	IMPERIAL,CA	PARATHION-L	BP	18E2K	0	0	9	0E9	GVRFW	EXPLOSION	FIRE					2	01	6	
803.	6/26/72	BROOKFLC,WI	WEED-KILLER	BP	95EOL	0	0	99	90E1	GVRFW	INTNL REL	PRNSLL ERR	STO	TANK			0	51	1	
804.	6/26/72	KOURTZ ,TX	AMM-NITRATE	OX	28E2K	0	0	99	18E1	RP-NT	SHRP OBJ	IMP LDG	PLSTC	BG			0	02	1	
805.	6/26/72	SLABTOWN,MD	MULTIPLE	BP	83E3L	0	0	10	0E9	RP-TK	SHRP OBJ	CRLMENT	TK	CR	RR		2	02	5	
806.	6/26/72	SLABTOWN,MD	SODA-ASH	UN	0EOU	0	0	10	0E9	RP-TK	SHRP OBJ	DRLMENT	TK	CR	RR		1	02	5	

807.	6/26/72	SLABTOWN, MD	PHENOL	BP	83E3L	0	0	10	0E9	RP-TK	SHRP OBJ	DRLMENT	TK CR RR	1	02	5
808.	6/26/72	DENVER , CO	HYDROCHLORI	CL	76E1L	0	0	1	0E9	OVRFW	INTNL REL	NMRL OP		0	04	6
809.	6/26/72	GREELEY , CO	ANH-AMMONIA	UN	0E0U	0	0	99	0E9	CTHER	INTNL REL	NMRL OP	TRENCH	0	00	6
810.	6/27/72	MEMPHIS , TN	WEED-KILLER	BP	12E1L	0	0	99	15E0	RP-NT	CONTR FLRE	MTRL CFCT	STL DRUM	0	02	1
811.	6/27/72	CAMDEN , NJ	ISOPENTANE	FL	15E2L	0	0	1	0E9	RP-TK	MTRL CFCT		TK CR RR	0	02	1
812.	6/28/72	SAVANNAH, GA	CAUS-SODA	CL	38E0L	1	0	1	25E0	TS FL	HSE, CPL FA	OVRPRES	VALVE SHUT	TK TRLR	0	0361
813.	6/28/72	LAKEWOOD, CO	INDUS-WASTE	UN	0E0U	0	0	99	0E9	CVRFW	UNKNOWN				0	05
814.	6/29/72	INTRACST, LA	SULFURIC-AC	CL	21E2L	0	0	1	14E1	OTHER	UNKNOWN		TK TRLR	0	51	1
815.	6/29/72	PHOENIX , AZ	ORGAN-PHOSP	BP	4E0L	0	0	1	10E0	RP-NT	FORKLIFT	PRNSLL ERR	STL DRUM	0	51	1
816.	6/29/72	BALTIMOR, MC	INDUS-WASTE	UN	0E0U	0	0	99	0E9	CTHER	UNKNOWN				0	06
817.	6/29/72	WESTLEY , MT	SALT-WATER	UN	20E2L	0	0	1	0E9	OVRFW	HSE, CPL FA	MTRL CFCT	PIPES	0	00	6
818.	6/30/72	TUSCON , AZ	TIT-TETRACH	CL	9E0L	0	0	1	0E9	RP-TK	VALVE BKN	OVRPRES	PRTBL TK	0	02	1
819.	6/30/72	MCALL EN , TX	METH-PARTHI	BP	15E1L	0	0	6	0E9	RP-NT	CONTR FLRE	CONTR FLRE	STL DRUM	0	02	1
820.	6/30/72	BILLINGS, MT	CALCIUM-HYP	UN	14E0K	0	0	1	20E0	RP-NT	SHRP OBJ	IMP LDG	CDBD DRM	0	02	1
821.	6/30/72	WEIMAR , TX	AMM-NITRATE	OX	14E2K	0	0	99	12E1	RP-NT	SHRP OBJ	IMP LDG	PA BAG	0	02	1
822.	6/30/72	GASTONIA, NC	SOD PEROXIDE	CL	34E0K	0	0	1	0E0	RP-NT	EXPLOSION	FORGN SUBS	LSE CP, CVR	STL DRUM	0	03
823.	7/ 1/72	99 , NC	SULFURIC-AC	CL	38E0L	0	0	1	0E9	RP-TK	COLLSN	UNKNOWN	TK TRLR	0	02	2
824.	7/ 3/72	SLT-LK-C, UT	WEED-KILLER	BP	1E0L	0	0	99	0E9	RP-NT	SHRP OBJ	UNKNOWN	PLSTC DR	0	02	1
825.	7/ 3/72	FRESNO , CA	ORGAN-PHOSP	BP	4E0L	0	0	1	15E1	RP-NT	CONTR FLRE	UNKNOWN	STL DRUM	0	02	1
826.	7/ 3/72	WOLCOTT , IN	ALCOHOL-UNS	FL	76E3L	0	0	6	20E3	RP-TK	DRLMENT	SHRP OBJ	RDWY CONDS	TK CR RR	0	02
827.	7/ 5/72	S-CHRLST, OH	SULFURYL-CH	CL	38E0L	0	0	4	12E2	RP-NT	CONTR FLRE	MTRL CFCT	STL DRUM	0	02	1
828.	7/ 6/72	LOS-ANGL, CA	MERCURY	BP	1E0L	0	0	1	25E1	CTHER	UNKNOWN		GLS CRBY	0	02	1
829.	7/ 9/72	NILES , OH	SULFURIC-AC	CL	21E1L	0	0	1	50E0	RP-NT	CONTR FLRE	UNKNOWN	STL DRUM	0	02	1
830.	7/10/72	SYRACUSE, NY	WASTE-PICKL	CL	76E2L	0	0	3	20E1	RP-TK	BODY FLRE	MTRL CFCT	TK TRLR	0	01	1
831.	7/10/72	N-ORLENS, LA	WEED-KILLER	BP	10E1L	0	0	99	75E0	RP-NT	CONTR FLRE	DROPPED	STL DRUM	0	02	1
832.	7/10/72	LINDEN , NJ	SULFURIC-AC	CL	39E3K	0	0	2	14E1	RP-TK	SHRP OBJ	MECH FAIL	TK TRLR	0	02	1
833.	7/10/72	SLT-LK-C, UT	INSECTICIDE	BP	4E0L	0	0	99	12E0	RP-NT	CONTR FLRE	DROPPED	GLS BTLS	0	01	1
834.	7/10/72	TOLEDO , OH	INSECTICIDE	BP	19E0L	0	0	99	40E0	RP-NT	SHRP OBJ		STL PAIL	0	91	1
835.	7/10/72	WRIGHTS , IL	METHANOL	FL	20E3K	0	0	4	0E9	RP-TK	DRLMENT		TK CR RR	0	02	1
836.	7/11/72	PHOENIX , AZ	ORGAN-PHOSP	BP	1E0K	0	0	1	59E0	RP-NT	SHRP OBJ	UNKNOWN	PA BAG	0	02	1
837.	7/11/72	STAUNTON, VA	CLEANG-COMP	UN	15E1L	0	0	99	0E9	RP-NT	CONTR FLRE	UNKNOWN	STL DRUM	0	01	1
838.	7/12/72	HARTFOR C, CT	PARATHION-L	BP	19ECL	0	0	3	1E3	RP-NT	SHRP OBJ	IMP LDG	STL PAIL	0	02	1
839.	7/13/72	WNSTN-SL, NC	WEED-KILLER	BP	1E0L	0	0	99	0E9	RP-NT	CONTR FLRE	MTRL CFCT	STL PAIL	0	02	1
840.	7/13/72	GREENBRO, NC	DICHLOROETH	BP	19E0L	0	0	1	0E9	RP-NT	SHRP OBJ	UNKNOWN	STL DRUM	0	02	1
841.	7/13/72	CONWAY , PA	FLUOSULFONI	CL	45E1K	0	0	1	50E1	RP-TK	LSE CP, CVR		TK CR RR	0	02	1
842.	7/13/72	TORONTO ,	POLY-V-PYRO	UN	0E0U	0	0	99	0E9	RP-NT	CONTR FLRE	FIRE	VANDALISM	CDBD DRM	3	03
843.	7/13/72	TORONTO ,	SULFURAT-PO	CM	0E0U	0	0	99	0E9	RP-NT	CONTR FLRE	FIRE	VANDALISM	CDBD DRM	3	03
844.	7/13/72	TORONTO ,	MULTIPLE	UN	0E0U	0	0	99	0E9	RP-NT	CONTR FLRE	FIRE	VANDALISM	CDBD DRM	4	03
845.	7/13/72	TORONTO ,	SOD-CAREGET	UN	0E0U	0	0	99	0E9	RP-NT	CONTR FLRE	FIRE	VANDALISM	CDBD DRM	3	03
846.	7/13/72	TORONTO ,	ZINC-SULFAT	UN	0E0U	0	0	99	0E9	RP-NT	CONTR FLRE	FIRE	VANDALISM	CDBD DRM	3	03
847.	7/14/72	N-KANSAS, 99	WEED-KILLER	BP	19E0L	0	0	99	0E9	RP-NT	SHRP OBJ	UNKNOWN	STL PAIL	0	02	1
848.	7/14/72	KNOXVILLE, TN	ALC-DENATUR	FL	38E3L	0	0	5	1E3	OVRFW	UNKNOWN	UNKNOWN	TK CR RR	0	01	1
849.	7/16/72	NAHOOLA , AL	BLACK-LIQUO	UN	57E4L	0	0	99	12E4	RP-TK	MECH FAIL	IMPR CNTNR	STO TANK	0	03	3
850.	7/16/72	DENVER , CO	VINEGAR	CL	0E0U	0	0	99	0E9	OVRFW	CONTR FLRE	BODY FLRE	STO TANK	0	03	6
851.	7/17/72	MCALL EN , TX	METH-PARTHI	BP	4E0L	0	0	1	25E2	RP-NT	CONTR FLRE	UNKNOWN	STL DRUM	0	02	1
852.	7/17/72	AURORA , IL	LAQUER	FL	19E1L	0	0	1	0E9	RP-NT	MTRL CFCT	UNKNOWN	STL DRUM	0	01	1
853.	7/18/72	MONTGOMR, AL	TOXAPENE	BP	38E1L	0	0	1	30E1	TS FL	HSE, CPL FA	UNKNOWN	TK TRLR	0	05	1
854.	7/18/72	BALTIMOR, MD	CHEM-NOI	UN	0E0U	0	0	99	0E9	TS FL	HSE, CPL FA	UNKNOWN		0	02	5
855.	7/19/72	OPELOUSA, LA	AMM-NITRATE	OX	70E1K	0	0	99	60E0	RP-NT	SHRP OBJ	IMP LDG	PA BAG	0	02	1
856.	7/19/72	FT-MORGN, CO	INK	FL	23E1L	0	0	99	10E2	RP-NT	CONTR FLRE	MTRL CFCT	TK TRLR	0	02	1
857.	7/19/72	NEWORLNS, LA	METH-PARTHI	BP	4ECL	2	0	1	15E0	RP-NT	SHRP OBJ	DROPPED	STL DRUM	0	991	1

858.	7/19/72	TEXAS-CI, TX	INDUS-WASTE	UN	95ECL	0	0	99	0E9	QVRFW	UNKNOWN		SHIP	0	00	6	
859.	7/19/72	FT MORGAN, CO	INK	FL	23E1L	0	0	99	10E2	RP-NT	MTRL DFCT		STL DRUM	0	01	1	
860.	7/21/72	BALTIMOR, MD	SULFURIC-AC	CL	0ECU	0	0	99	0E9	RP-TK	UNKNCWN		TK TRLR	C	02	5	
861.	7/21/72	STONEWAL, TX	SALT-WATER	UN	32E3L	0	0	3	0E9	QVRFW	CONTR FLRE	MTRL DFCT	PIPES		0	02	6
862.	7/24/72	MEMPHIS, TN	INSECTICIDE	BP	4ECL	0	0	99	0E9	RP-NT	CONTR FLRE	DROPPED	GBTL/CTN	C	01	1	
863.	7/24/72	MIAMI, OK	SOD-CHLOR-S	CL	23E0L	0	0	99	15E1	RP-NT	LSE CP, CVR	IMPR HNDLG	GLS BTLS	C	02	1	
864.	7/24/72	WILDWOOD, FL	NITRIC-ACID	CL	27E2L	0	0	2	20E1	TS FL	VALVE BKN		TK TRLR	0	51	1	
865.	7/25/72	CATAWBA, SC	CAUS-SODA	CL	38ECL	0	0	1	10E0	RP-TK	LKG CVR	MECH FAIL	TK CR RR	C	02	1	
866.	7/25/72	BILLINGS, MT	TET-ETH-PYR	BP	4ECL	0	0	1	60E0	RP-NT	LSE CP, CVR		GBTL/CTN	C	02	1	
867.	7/26/72	MALCOLM, IA	INK	FL	44E1L	0	0	99	12E2	QVRFW	MTRL DFCT	IMPR CNTNR	STL DRUM	0	02	1	
868.	7/26/72	CAMPBELL, PA	ORGAN-PHOSP	BP	7ECL	0	0	1	0E9	RP-NT	CONTR FLRE	IMP LCG	STL PAIL	0	02	1	
869.	7/26/72	RIVER-SC, CA	MESITYL-OXI	FL	15E1L	3	0	1	0E9	QVRFW	LKG CVR	MECH FAIL	TK CR RR	C	02	6	
870.	7/27/72	POCATELO, ID	WEED-KILLER	BP	19ECL	0	0	99	0E9	RP-NT	CONTR FLRE	IMP LCG	STL PAIL	0	02	1	
871.	7/27/72	CHICAGO, IL	SULFURIC-AC	CL	15E1L	0	0	1	50E0	TS FL	HSE, CPL FA	OVRPRES	TK TRLR	C311	1	1	
872.	7/27/72	RICHMOND, CA	WET NI-CELO	FL	21E1L	0	0	99	22E1	RP-NT	SHRP OBJ	IMP LCG	STL DRUM	0	02	1	
873.	7/27/72	CLEVELND, OH	SULFURIC-AC	CL	11E1L	0	0	1	60E0	RP-NT	CONTR FLRE	DROPPED	STL DRUM	C	01	1	
874.	7/27/72	CINCINNATI, OH	CAUS-SODA	CL	95E0L	0	0	1	0E9	QVRFW	MECH FAIL	UNKNOWN	BARGE TK	C	02	6	
875.	7/28/72	OIL-CITY, PA	AQUA-AMMONI	CL	0E0U	0	0	99	0E9	QVRFW	INTNL REL	PRNSLL ERR	STL DRUM	0	04	6	
876.	7/29/72	RUSTON, LA	SULFURIC-AC	CL	16E2L	2	0	1	14E3	RP-TK	VALVE BKN	CLS&CVRTN	TK TRLR	0	02	1	
877.	7/31/72	GLOBE, AZ	SULFURIC-AC	CL	11E3K	0	0	3	18E1	RP-TK	SHRP OBJ	CGLLSN	TK TRLR	C	02	1	
878.	7/31/72	JEFFERSON, CO	METHYLEN-BR	BP	76E1L	0	0	1	0E9	RP-TK	UNKNOWN	OVRTURN	TK TRLR	0	02	6	
879.	8/ 1/72	LONGVIEW, WA	HYDROGEN-PE	CL	63E1L	0	0	5	0E0	RP-NT	SHRP OBJ	IMPR HNDLG	INTNL REL	STL DRUM	C	71	1
880.	8/ 1/72	TAMPA, FL	ORGAN-PHOSP	BP	4ECL	0	0	1	0E0	RP-NT	CONTR FLRE	IMP LCG	GBTL/CTN	0	02	1	
881.	8/ 3/72	MARIANNA, FL	ACRY WD SLR	FL	0ECU	0	0	99	0E0	QVRFW	FORGN SUBS	SPKLRS DSC	FIRE	DIP TANK	0	04	3
882.	8/ 4/72	N-LTL-RK, AR	PARATHION-L	BP	17E0L	0	0	3	0E9	RP-NT	SHRP OBJ	PRNSLL ERR	STL PAIL	0	01	1	
883.	8/ 4/72	LOUIS-UL, KY	POISON-NOI	BP	1ECL	0	0	1	0E9	RP-NT	SHRP OBJ	UNKNOWN	STL DRUM	0	02	1	
884.	8/ 4/72	99	99	CL	79E1L	0	0	1	50E0	RP-TK	CONTR FLRE	MTRL DFCT	STO TANK	0	41	1	
885.	8/ 5/72	MIDLAND, TX	SALT-WATER	UN	16E3L	0	0	2	0E9	QVRFW	HSE, CPL FA	MTRL DFCT	PIPES		0	02	6
886.	8/ 7/72	IVORYRCK, PA	MURIATIC-AC	CL	19E1L	0	0	1	10E0	TS FL	HSE, CPL FA		TK TRLR	0	51	1	
887.	8/ 7/72	TOLDO, OH	INSECTICIDE	BP	19E0L	0	0	99	20E0	RP-NT	CONTR FLRE	IMPR HNDLG	PRNSLL ERR	GBTL/CTN	0	01	1
888.	8/ 7/72	MOBILE, AL	SULFURIC-AC	CL	23ECL	0	0	1	50E1	RP-TK	SHRP OBJ	IMP LCG	BK TRLR	0	02	1	
889.	8/ 7/72	KANAWHAR, WV	ETH-BUTYRAL	FL	11E3L	0	0	2	0E9	QVRFW	UNKNOWN		BARGE TK	C	01	2	
890.	8/ 7/72	KANAWHAR, WV	ETH-BUTYRAL	FL	0E0U	0	0	99	15E3	QVRFW	GAU MS/DFC	PRNSLL ERR			0	01	2
891.	8/ 7/72	KANAWHA, WV	ETH-BUTYRAL	FL	11E3L	0	0	2	0E9	QVRFW	PRNSLL ERR	UNKNOWN	BARGE TK	0	01	6	
892.	8/ 8/72	YAKIMA, WA	TET-ETH-PYR	BP	11E0L	0	0	2	10E1	RP-NT	SHRP OBJ	IMP LCG	STL PAIL	0	02	1	
893.	8/ 9/72	CHARLOTE, NC	CAUS-SODA	CL	19E0L	0	0	1	10E0	RP-TK	CONTR FLRE	UNKNGWN	TK CR RR	0	02	1	
894.	8/ 9/72	CROSBY, TX	BUTYRIC-ACI	UN	50E1L	0	0	1	0E9	QVRFW	CONTR FLRE	EXPLOSION	CNTRL INOP	COBD DRM	0	04	3
895.	8/ 9/72	HYTSVILLE, MD	INK	FL	15E2L	0	0	99	0E9	RP-NT	CONTR FLRE	UNKNCWN	STL DRUM	C	02	1	
896.	8/ 9/72	DANVILLE, IL	PAINT	FL	21E1L	0	0	99	0E9	RP-NT	FGKRLIFT		STL DRUM	0	01	1	
897.	8/11/72	FIREBOUG, CA	DINITRO-PHE	BP	1ECL	0	0	1	0E9	RP-NT	CONTR FLRE	UNKNOWN	STL DRUM	0	02	1	
898.	8/11/72	CLRKSJCT, WY	SULFURIC-AC	CL	17E3L	0	0	4	12E2	RP-TK	SHRP OBJ	OVRTURN	TK TRLR	0	02	1	
899.	8/11/72	CAMP HIL, IL	PAINT-THINR	FL	21E1L	0	0	1	0E9	RP-NT	FORKLIFT		STL DRUM	0	01	1	
900.	8/12/72	PRKSBUARY, PA	FLARE MIX	UN	0E0U	0	0	99	0E0	RP-NT	WET PACKNG	SPKLRS DSC	FIRE	PA BAG	1	03	3
901.	8/12/72	PRKSBUARY, PA	DELAYING MIX	UN	0E0U	0	0	99	0E0	RP-NT	WET PACKNG	SPKLRS DSC	FIRE	PA BAG	1	03	3
902.	8/12/72	PRKSBUARY, PA	MULTIPLE	UN	0E0U	0	0	99	0E0	RP-NT	WET PACKNG	SPKLRS DSC	FIRE	PA BAG	2	03	3
903.	8/13/72	GEISMAR, LA	SULFURIC-AC	CL	57ECL	0	0	1	50E0	TS FL	HSE, CPL FA	UNKNOWN	TK TRLR	0	21	1	
904.	8/14/72	BAYONE, NJ	MURIATIC-AC	CL	57E2L	0	0	2	19E2	RP-TK	CONTR FLRE	UNKNOWN	TK TRLR	0	01	1	
905.	8/14/72	S-CHICGO, IL	HYDROCHLORI	CL	76E0L	0	0	1	30E0	TS FL	MECH FAIL		TK TRLR	0	01	1	
906.	8/14/72	KINGS-MT, NC	SULFURIC-AC	CL	18ECL	0	0	1	10E0	RP-TK	LKG CVR	GSKT FAIL	TK CR RR	0	02	1	
907.	8/14/72	S-BEND, IN	ORGAN-PHOSP	BP	4E0L	0	0	1	0E0	RP-NT	CONTR FLRE	MTRL DFCT	STL PAIL	0	02	1	
908.	8/16/72	BURLINGT, WI	SULFURIC-AC	CL	57ECL	0	0	1	10E1	RP-NT	CONTR FLRE	MTRL DFCT	RUBBR CN	0	01	1	

909.	8/18/72	GD RAPID,MI	CYANIDE	BP	1E0K	0	0	1	10E0	RP-NT	IMPR HNDLG	PRNSLL ERR		GBTL/CTN	0	01	1	
910.	8/21/72	MOCCASIN,MT	MURIATIC-AC	CL	79E1L	0	0	1	0E9	RP-TK	OVRTURN	UNKNOWN		TK TRLR	0	02	1	
911.	8/21/72	HEEKWAGA,NY	ARSENIC ACI	BP	75ECL	0	0	5	0E0	RP-NT	SHRP OBJ	IMP LDG		FBRE DRM	C	02	1	
912.	8/21/72	PHOENIX ,AZ	METH-PARTHI	BP	2E0L	0	0	1	43E1	RP-NT	CONTR FLRE	IMP LDG		STL PAIL	C	02	1	
913.	8/22/72	CHICAGO ,IL	HYDROCHLORI	CL	89E1L	0	0	2	85E1	OVRFW	PRNSLL ERR	GAU MS/DFC		STO TANK	C	51	1	
914.	8/23/72	VICTOR ,FL	HYDRAUL-OIL	UN	0E0U	0	0	99	0E9	TS FL	HSE,CPL FA	FIRE				1	04	3
915.	8/23/72	VICTOR ,FL	MULTIPLE	FS	0E0U	0	0	99	0E9	TS FL	HSE,CPL FA	FIRE				2	04	3
916.	8/23/72	VICTOR ,FL	PHOSPHORUS	FS	0E0U	0	0	99	0E9	TS FL	HSE,CPL FA	FIRE				1	04	3
917.	8/25/72	DANVILLE,KY	PHOS-TRICHL	CL	38E0L	0	0	1	0E5	RP-NT	SHRP CBJ	IMP LDG		STL DRUM	0	01	1	
918.	8/25/72	LG BEACH,CA	QUENCH OIL	FL	0E0U	0	0	99	0E0	OVRFW	IMPR EQ OP	PRNSLL ERR		DIP TANK	0	04	3	
919.	8/26/72	CAMP HIL,PA	PAINT	FL	95E0L	0	0	99	0E9	RP-NT	SHRP CBJ			STL DRUM	0	02	1	
920.	8/27/72	CNCNNATI,OH	RESIN-SOLUT	FL	28E2L	0	0	99	80E0	RP-NT	SHRP CBJ	UNKNCWN		STL DRUM	C	02	1	
921.	8/28/72	HUDSON ,WI	CHLORINE	UN	18E1K	0	0	3	0E9	RP-TK	CONTR FLRE	UNKNCWN		GA CYLDR	C	03	6	
922.	8/29/72	OPELOUSA,LA	AMM-NITRATE	OX	54E1K	0	0	99	48E0	RP-NT	SHRP OBJ	IMP LDG		PA BAG	0	02	1	
923.	8/29/72	CORP-CHR,TX	NAPTHA	FL	1E0L	0	0	1	0E9	TS FL	LSE CP,CVR	PRNSLL ERR				0	01	2
924.	8/30/72	ALEXANDR,LA	AMM-NITRATE	OX	15E2K	0	0	99	35E0	RP-NT	SHRP OBJ	IMP LDG		PLSTC BG	0	02	1	
925.	8/30/72	PORTLANC,OR	ORGAN-PHOSP	BP	1E0L	0	0	1	10E1	RP-NT	CONTR FLRE	MTRL DFCT		STL DRUM	C	02	1	
926.	8/31/72	KILGORE ,TX	HYDROCHLORI	CL	19E2L	0	0	3	75E0	TS FL	HSE,CPL FA	VHCL MVD	PRNSLL ERR	TK TRLR	C	21	1	
927.	9/ 1/72	CACTUS J,CA	METH-PARATH	BP	8E0L	0	0	2	20E3	RP-NT	MTRL DFCT			STL PAIL	0	02	1	
928.	9/ 1/72	DOWNGTON,PA	SULFURIC-AC	CL	19E1L	0	0	1	15E0	OVRFW	LSE CP,CVR	PRNSLL ERR		TK TRLR	0	51	1	
929.	9/ 2/72	REFUGIO ,TX	FORMALDEHYD	FL	91E2K	0	0	5	0E9	RP-TK	CONTR FLRE	OVRTURN		BK TRLR	0	02	6	
930.	9/ 4/72	,PA	GASOLINE AD	UN	57E3L	0	0	99	0E0	RP-NT	EXPLOSION	FIRE	VANDALISM	STL PAIL	0	03	3	
931.	9/ 5/72	NACODOCH,TX	AMM-NITRATE	OX	66E1K	0	0	99	60E0	RP-NT	SHRP OBJ	IMP LDG		PLSTC BG	0	02	1	
932.	9/ 5/72	JOLIET ,IL	ASPHALT	UN	15E2L	0	0	99	0E0	OVRFW	PRNSLL ERR			CKG/MX T	C493	3		
933.	9/ 5/72	FARMVILL,NC	FORMALDEHYD	FL	32E1K	0	0	5	0E9	CVRFW	PRNSLL ERR			STO TANK	1	03	6	
934.	9/ 5/72	FARMVILL,NC	PHENOL	BP	32E1K	0	0	5	0E9	OVRFW	PRNSLL ERR			STO TANK	1	03	6	
935.	9/ 5/72	FARMVILL,NC	MULTIPLEMIX	BP	64E1K	0	0	5	0E9	CVRFW	PRNSLL ERR			STO TANK	2	03	6	
936.	9/ 6/72	CLEVELND,OH	CHRO-ACI-SL	BP	23E1K	0	0	1	50E1	RP-NT	CONTR FLRE	MTRL DFCT		FBRE DRM	0	02	1	
937.	9/ 7/72	LEXNGTON,TN	MURIATIC-AC	CL	21E1L	0	0	2	14E0	OVRFW	UNKNOWN			STO TANK	0	51	1	
938.	9/ 8/72	ATLANTA ,GA	SODIUM-HYDO	FS	10E0K	0	0	1	45E3	RP-NT	CONTR FLRE	OVRTURN	BRAKE FLRE	CDBO DRM	0	02	1	
939.	9/ 8/72	ST-LOUIS,MO	SOD-NITRATE	OX	45E0K	0	0	1	50E0	RP-NT	SHRP OBJ			PA BAG	0	01	1	
940.	9/ 8/72	MIDLAND ,MI	ISOPROPANOL	FL	19E1L	0	0	1	2E0	TS FL	HSE,CPL FA	BRAKE FLRE		TK TRLR	C	01	1	
941.	9/10/72	HENDERSON,KY	HYDROCHLORI	CL	50E2L	0	0	4	10E2	RP-TK	CONTR FLRE	MTRL DFCT		TK CR RR	0	02	1	
942.	9/11/72	PHOENIX ,AZ	METH-PARTHI	BP	1E0L	0	0	1	0E9	RP-NT	LSE CP,CVR			STL DRUM	0	02	1	
943.	9/12/72	BAKERSFL,CA	MURIATIC-AC	CL	95E2L	0	0	3	50E1	RP-TK	VALVE BKN	PRNSLL ERR		TK TRLR	0	50	1	
944.	9/12/72	LAREDO ,TX	THIONYL-CHL	CL	38E0L	0	0	1	50E2	RP-NT	CONTR FLRE	MTRL DFCT		STL DRUM	0	02	1	
945.	9/13/72	WAVERLY ,PA	ISOPRG-ACET	FL	20E1L	0	0	1	0E9	RP-TK	VALVE BKN	UNKNOWN		TK TRLR	0362	1		
946.	9/13/72	ST-LOUIS,MO	INSECTICIDE	BP	4E0L	0	0	99	50E1	RP-NT	CONTR FLRE	UNKNCWN		GBTL/CTN	0	02	1	
947.	9/13/72	BALTMORE,MD	ASPHALT	UN	15E3L	0	0	99	0E0	CVRFW	FORGN SUBS	SPKLRS DSC FIRE		DIP TANK	0	04	3	
948.	9/14/72	CHEEK ,TX	CAUS-SODA	CL	19E1L	0	0	1	13E1	TS FL	HSE,CPL FA	MECH FAIL		TK TRLR	0	51	1	
949.	9/14/72	BRIMFILD,MA	THIONYL-CHL	CL	57ECL	0	0	2	45E1	RP-NT	CONTR FLRE	DFCTV WELD		STL DRUM	0	02	1	
950.	9/14/72	LAUREL ,MD	CALCIUM-CAR	UN	0E0U	0	0	99	0E9	OTHER	FIRE					0	06	6
951.	9/14/72	CLEVELAND,OH	XYLOL	FL	57E3L	0	0	6	0E9	CVRFW	PRNSLL ERR			STO TANK	0	03	6	
952.	9/14/72	HOUSTON ,TX	LACQUER	FL	38E1L	0	0	1	20E1	TS FL	HSE,CPL FA	MTRL DFCT		TK TRLR	0	01	1	
953.	9/15/72	BALTIMOR,MD	CHEM-NOI	UN	0E0U	0	0	99	0E9	OVRFW	UNKNCWN	DFCTV WELD				0	00	6
954.	9/16/72	BIRMINGH,AL	CAUS-POT-LI	CL	5E0K	0	0	1	20E0	RP-NT	DROPPED					0	01	1
955.	9/16/72	BATNRUGE,LA	SULFURIC-AC	CL	19E1L	0	0	2	25E3	RP-TK	OPN VALVE	PRNSLL ERR		TK TRLR	0362	1		
956.	9/17/72	CHICAGO ,IL	HYDROCHLORI	CL	95E2L	0	0	5	0E9	RP-TK	MTRL DFCT			TK CR RR	C	02	1	
957.	9/17/72	DELANO ,PE	SILVER-NITR	OX	38E2L	0	0	10	0E9	CVRFW	UNKNOWN					0	04	6
958.	9/19/72	PRVDENCE,RI	CYANIDE-SOL	BP	0E0U	0	0	99	0E0	OVRFW	FORGN SUBS	SPKLRS DSC FIRE		DIP TANK	C	04	3	
959.	9/20/72	CHICAGO ,IL	SODIUM-HYPO	CL	19E1L	0	0	3	50E0	OVRFW	GAU MS/DFC			STO TANK	0	41	1	

960.	9/20/72	JCT-CITY, AR	NITRIC-ACID	CL	19E3L	0	0	4	30E2	RP-TK	CONTR FLRE	MTRL DFCT		TK	TLR	C	52	1	
961.	9/20/72	SCHNCTOY, NY	ANTI-FREEZE	FL	15E2L	0	0	6	30E1	TS FL	OPN VALVE	VALVE BKN	MECH FAIL	TK	TLR	0	01	1	
962.	9/21/72	PHOENIX, AZ	PARATHION-L	BP	1E0L	0	0	1	10E1	RP-NT	CONTR FLRE	IMP LDC		STL	PAIL	0	02	1	
963.	9/21/72	S-SPENCR, MA	CAUS-SODA	CL	38E1L	0	0	1	30E0	RP-TK	SHRP OBJ	DRLMNT		TK	CR	RR	0	02	1
964.	9/21/72	RIALTO, TN	SULFURIC-AC	CL	70E2L	0	0	3	80E0	RP-TK	SHRP OBJ	DRLM&OVPTN		TK	CR	RR	0	02	1
965.	9/21/72	SAND SPR, CK	SOLVENT-470	FL	13E3L	1	0	99	18E3	RP-TK	OVRTURN	RCWY CONCS	PRNSLL ERR	TK	TLR	0	02	1	
966.	9/21/72	, NJ	PROP-GLYCOL	BP	27E3L	1	2	10	31E3	RP-TK	CLS&OVRTN			TK	TLR	0	02	1	
967.	9/21/72	RIALTO, TN	SULFURIC-AC	CL	38E2L	0	0	2	40E0	RP-TK	VALVE BKN	COLLSN	DRLM&OVRTN	TK	CR	RR	0	02	1
968.	9/22/72	HODGKINS, IL	INSECTICIDE	BP	8ECL	0	0	99	0E9	RP-NT	CONTR FLRE	DROPPED		GBTL/CTN	0	01	1		
969.	9/22/72	99, 99	ZINC-CYANID	BP	11E1L	0	0	1	0E9	RP-NT	SHRP OBJ	UNKNCW		CDBD	DRM	0	02	1	
970.	9/22/72	VIRGINIA, WA	LATEX	UN	19E3L	0	0	99	0E9	CVRFW	HSE, CPL FA	UNKNCW		STO	TANK	0	03	6	
971.	9/23/72	KRANNERT, CA	CAUS-SODA	CL	38ECL	0	0	1	10E1	RP-TK	LSE CP, CVR			TK	CR	RR	0	02	1
972.	9/23/72	WLMNGTON, DE	ACETONE	FL	0ECU	0	0	99	0E0	RP-NT	EXPLOSION	FIRE	VANDALISM	STL	DRUM	0	03	3	
973.	9/25/72	DALLAS, TX	INSECTICIDE	BP	19E0L	0	0	99	0E9	RP-NT	SHRP OBJ	UNKNOWN		STL	PAIL	0	02	1	
974.	9/25/72	NEWARK, NJ	ACRYLONITRI	FL	38E1L	0	0	99	0E9	TS FL	HSE, CPL FA	MTRL DFCT		TK	TLR	0	01	1	
975.	9/26/72	ODESSA, TX	HYDROCHLORI	CL	57E2L	0	0	5	10E3	RP-TK	SHRP OBJ	OVRTURN	RDWY CONDS	TK	TLR	0	02	1	
976.	9/26/72	CIVERNON, IL	INSECTICIDE	BP	3ECL	0	0	99	0E9	RP-NT	CONTR FLRE	CROPPED		GBTL/CTN	C	02	1		
977.	9/26/72	BALTIMOR, MD	PHENOL	BP	0ECU	0	0	99	0E9	OVRFW	SPKLRS	DSC		TRENCH	1195	5			
978.	9/26/72	BALTIMOR, MD	MULTIPLE	BP	0ECU	0	0	99	0E9	CVRFW	SPKLRS	DSC	HZRD ML	TRENCH	2195	5			
979.	9/26/72	BALTIMOR, MD	NITRO-PHENO	BP	0E0U	0	0	99	0E9	OVRFW	SPKLRS	DSC		TRENCH	1195	5			
980.	9/26/72	SLT-LK-C, UT	HYDROCHLORI	CL	0ECU	0	0	99	0E9	RP-TK	GSKT FAIL			TK	CR	RR	0	01	6
981.	9/27/72	CHOCOLAT, TX	PHENOL	BP	0ECU	0	0	99	0E0	OVRFW	UNKNCW						0	01	2
982.	9/27/72	CL-SPRNG, MD	HYDROXY	UN	14E3L	0	0	99	0E9	RP-TK	CONTR FLRE	CLS&OVRTN		TK	TLR	C	00	5	
983.	9/28/72	PLANT-CT, FL	INSECTICIDE	BP	1ECK	0	0	99	25E0	RP-NT	SHRP OBJ	UNKNCW		CDBD	DRM	0	02	1	
984.	9/29/72	ATHENS, AL	TOXAPHENE	BP	15E0L	0	0	1	13E0	OVRFW	PRNSLL ERR						0	01	1
985.	9/30/72	WESTOVER, CA	CAUS-SODA	CL	20E3L	0	0	6	98E1	TS FL	HSE, CPL FA	MECH FAIL	PRNSLL ERR	TK	TLR	0	51	1	
986.	10/ 1/72	RADFORD, VA	SOD-SULFATE	UN	0E0U	0	0	99	0E9	OTHER	RPTRD PIPE	MTRL DFCT		PIPES	C	04	6		
987.	10/ 2/72	HOUSTON, TX	LEAD-ARSENA	BP	1E0K	0	0	1	0E0	RP-NT	SHRP OBJ	IMP LDC		PA	BAG	0	02	1	
988.	10/ 3/72	N-ALICE, TX	SULFURIC-AC	CL	11E2L	0	0	3	47E1	RP-NT	CONTR FLRE	OVRTURN		PLSTC	BG	0	02	1	
989.	10/ 4/72	BUFFALO, NY	ACETONE	FL	2E0K	0	0	1	0E9	CVRFW	CONTR FLRE	CHMCAL RE		GLS	BTLS	0	04	3	
990.	10/ 5/72	LAFAYETTE, LA	AMM-NITRATE	OX	16E2K	0	0	99	0E9	RP-NT	SHRP OBJ	IMP LDC		PLSTC	BG	0	02	1	
991.	10/ 5/72	RADFORD, VA	SOD-SULFATE	UN	0ECU	0	0	99	0E9	OTHER	RPTRD PIPE	MTRL DFCT		PIPES	C	04	6		
992.	10/ 6/72	MORRIS, IL	LASSO-PESTI	BP	47E1L	0	0	1	0E9	RP-TK	UNKNOWN	OVRTURN	UNKNOWN	TK	TLR	C	02	6	
993.	10/ 7/72	RICHMOND, CA	PHENOL	BP	11E3L	0	0	9	25E2	RP-TK	OPN VALVE	PRNSLL ERR		TK	TLR	0361	1		
994.	10/ 7/72	CNCNNATI, OH	MERCURIC OX-	BP	7CE0K	0	0	1	0E0	RP-NT	SHRP OBJ	IMP LDC		FBRE	DRM	0	02	1	
995.	10/ 8/72	BRMNGHAM, AL	MULTIPLE	FL	0E0U	0	0	99	0E0	RP-NT	EXPLOSION	FIRE	VANDALISM	STL	PAIL	2	03	3	
996.	10/ 8/72	BRMNGHAM, AL	PAINT-THINR	FL	0E0U	0	0	99	0E0	RP-NT	EXPLOSION	FIRE	VANDALISM	STL	PAIL	1	03	3	
997.	10/ 8/72	BRMNGHAM, AL	PAINT	FL	0E0U	0	0	99	0E0	RP-NT	EXPLOSION	FIRE	VANDALISM	STL	PAIL	1	03	3	
998.	10/ 8/72	NASHVILLE, TN	ACRYLONITRI	FL	13E1L	0	0	2	0E9	RP-TK	CONTR FLRE	COLLSN		BARGE	TK	C	02	6	
999.	10/ 9/72	GRNSBORO, NC	POT-HYDROXI	CL	0E0U	0	0	99	0E0	RP-NT	SPKLRS	DSC FIRE	SPON COMB	STL	DRUM	3	03	3	
1000.	10/ 9/72	GRNSBORO, NC	MULTIPLE	BP	0E0U	0	0	99	0E0	RP-NT	SPKLRS	DSC FIRE	SPON COMB	STL	DRUM	4	03	3	
1001.	10/ 9/72	GRNSBORO, NC	AMM PHOSPHA	FS	0ECU	0	0	99	0E0	RP-NT	SPKLRS	DSC FIRE	SPON COMB	STL	DRUM	3	03	3	
1002.	10/ 9/72	GRNSBORO, NC	COPPER-SULF	BP	0ECU	0	0	99	0E0	RP-NT	SPKLRS	DSC FIRE	SPON COMB	STL	DRUM	4	03	3	
1003.	10/ 9/72	GRNSBORO, NC	PAINT-THINR	FL	0ECU	0	0	99	0E0	RP-NT	SPKLRS	DSC FIRE	SPON COMB	STL	DRUM	3	03	3	
1004.	10/ 9/72	GRNSBORO, NC	PHOSPHACIO	CL	0ECU	0	0	99	0E0	RP-NT	SPKLRS	DSC FIRE	SPON COMB	STL	DRUM	3	03	3	
1005.	10/10/72	OAKLAND, CA	INDUS-WASTE	UN	0E0U	0	0	99	0E9	CVRFW	UNKNCW						0	00	6
1006.	10/10/72	RADFORD, VA	SOD-SULFATE	UN	0E0U	0	0	99	0E9	OTHER	RPTRD PIPE	MTRL DFCT		PIPES	C	04	6		
1007.	10/11/72	W PM BCH, FL	AQUA AMMONI	BP	2CE1L	0	0	1	10E1	RP-NT	SHRP OBJ			CDBD	DRM	0	01	1	
1008.	10/12/72	COLUMBUS, OH	HYDR-ACD-AQ	CL	4E0L	0	0	1	4E0	RP-NT	UNKNCW			55	G	DRM	0	01	1
1009.	10/13/72	LAFAYETTE, LA	AMM-NITRATE	OX	52E1K	0	0	99	69E0	RP-NT	SHRP OBJ	IMP LDC		PA	BAG	0	02	1	
1010.	10/13/72	TULSA, OK	TOLUENE	FL	38E1L	0	0	4	0E0	TS FL	HSE, CPL FA	MTRL DFCT		TK	TLR	0	01	1	

1011.10/14/72	COLUMBUS, OH	POISON NOI	BP	0E0U	0	0	99	0E9	RP-NT	MTRL CFCT				STL DRUM	0	02	1
1012.10/16/72	PAIGE, TX	AMM-NITRATE	OX	34E2K	0	0	99	19E1	RP-NT	SHRP OBJ	IMP LDG			PLSTC BG	0	02	1
1013.10/17/72	ROCK-ISL, IL	INSECTICIDE	BP	4ECL	0	0	99	10E0	RP-NT	CONTR FLRE	MTRL CFCT				0	02	1
1014.10/17/72	NEWTON-F, OH	CHROMIC-ACI	BP	49E3L	0	0	7	0E9	OVRFW	MECH FAIL				STO TANK	0	03	6
1015.10/18/72	FULTON, GH	SOLVENT	FL	38E1L	0	0	1	0E9	RP-TK	SHRP OBJ	NMRL OP			DIP TANK	0	04	3
1016.10/19/72	SLT-LAKE, UT	INSECTICIDE	BP	4ECL	0	0	99	15E0	RP-NT	CONTR FLRE	DROPPED			GBTL/CTN	0	01	1
1017.10/20/72	FAYETVIL, NC	XYLENE	FL	76E2L	0	0	3	0E9	OVRFW	PRNSLL ERR				STO TANK	0	03	6
1018.10/26/72	BRAINTRE, MA	METHMTHACRL	FL	14E0K	0	0	2	38E0	RP-NT	SHRP OBJ				STL DRUM	0	02	1
1019.10/27/72	TAMPA, FL	ASPHALT	UN	53E3L	0	0	99	0E0	OVRFW	FORGN SUBS	SPKLRS DSC FIRE			DIP TANK	0	04	3
1020.10/29/72	STERLING, IL	HYDRAULIC-OI	LN	0E0U	0	0	99	0E9	TS FL	HSE, CPL FA					1	04	3
1021.10/29/72	STERLING, IL	MOLTEN-METL	LN	0E0U	0	0	99	0E9	OVRFW	MECH FAIL					1	04	3
1022.10/29/72	STERLING, IL	MULTIPLE	UN	0E0U	0	0	99	0E9	OVRFW	MECH FAIL					2	04	3
1023.10/31/72	PRTR CTR, NY	MULTIPLE	FL	94E1L	0	0	7	0E0	RP-TK	EXPLOSION	CHMCAL RE	FORGN SUBS	STO TANK	2	05	3	
1024.10/31/72	PRTR CTR, NY	METHYLHDRZN	FL	47E1L	0	0	7	0E0	RP-TK	EXPLOSION	CHMCAL RE	FORGN SUBS	STO TANK	1	05	3	
1025.10/31/72	PRTR CTR, NY	UNSYM DIMET	FL	47E1L	0	0	7	0E0	RP-TK	EXPLOSION	CHMCAL RE	FORGN SUBS	STO TANK	1	05	3	
1026.10/31/72	99, NJ	INDUS-WASTE	UN	19E3L	0	0	99	0E9	OVRFW	MECH FAIL					0	04	6
1027.10/31/72	NEWARK, NJ	SULFURIC-AC	CL	19E3L	0	0	4	0E9	OVRFW	MECH FAIL	UNKNOWN			TK CR RR	0	01	6
1028.11/ 1/72	HAMMOND, IN	SULFURIC-AC	CL	27E3L	0	0	5	0E9	OTHER	CONTR FLRE	UNKNOWN			TK CR RR	0	02	1
1029.11/ 1/72	WAYNESVL, NC	SULFURIC-AC	CL	19E0L	0	0	1	0E9	RP-TK	OPN VALVE				TK TRLR	0	02	2
1030.11/ 1/72	HAMMOND, IN	SULFURIC-AC	CL	0E0U	0	0	99	0E9	RP-TK	CONTR FLRE	UNKNOWN			TK CR RR	0	02	6
1031.11/ 2/72	WINTON, NC	MINERAL-SPR	FL	38E3L	0	0	4	0E9	OVRFW	PRNSLL ERR				STO TANK	0	03	2
1032.11/ 2/72	WANESVL, NC	SULFURIC-AC	CL	19E1L	0	0	1	0E9	RP-TK	UNKNOWN				TK TRLR	0	02	2
1033.11/ 3/72	CHICAGO, IL	MERCURY	BP	16E1K	0	0	6	14E2	RP-NT	DROPPED				GLS BTLS	0	01	1
1034.11/ 3/72	BRDFRDPK, IL	SULFURIC-AC	CL	19E1L	0	0	1	7E0	TS FL	UNKNOWN				TK TRLR	0	51	1
1035.11/ 3/72	PHILADEL, PA	FUEL-OIL	FL	0E0U	0	0	99	0E9	TS FL	FORKLIFT	PRNSLL ERR			PIPES	0	06	3
1036.11/ 6/72	COLUMBIA, PA	MULTIPLE	FL	0E0U	0	0	99	0E9	OVRFW	MECH FAIL	BODY FLRE				2	04	3
1037.11/ 6/72	COLUMBIA, PA	FUEL-OIL	FL	0E0U	0	0	99	0E9	CTHER	UNKNOWN					1	04	3
1038.11/ 6/72	COLUMBIA, PA	MOLTEN-ZINC	UN	0E0U	0	0	99	0E9	CTHER	UNKNOWN					1	04	3
1039.11/ 7/72	BRUNSWIK, GA	RESIN-S1	UN	28EC	0	0	99	0E9	RP-TK	CONTR FLRE	SHIP SANK			SHIP	0	00	6
1040.11/ 8/72	WESTLAKE, LA	SULFURIC-AC	CL	26E2L	0	0	2	25E1	TS FL	UNKNOWN				TK TRLR	0	51	1
1041.11/ 8/72	TYSNS CR, VA	TRANSF OIL	FL	11E2L	0	0	1	0E0	RP-NT	ELCT ARCNG				TRNSFRMR	0	03	3
1042.11/ 9/72	FARMVILL, NC	UREA-FORMAL	BP	28E2L	0	0	7	0E9	OVRFW	UNKNOWN					0	00	6
1043.11/10/72	FARMVILL, NC	UREA-FORMAL	BP	28E2L	0	0	7	0E9	CTHER	UNKNOWN					0	00	2
1044.11/11/72	DALLAS, TX	ARSENIC ACI	BP	11E1L	0	0	6	0E0	RP-NT	SHRP OBJ	IMPR HNDLG	PRNSLL ERR	FBRE DRM	0	01	1	
1045.11/11/72	GREELEY, CO	MOLASSES	UN	60E2L	0	0	99	0E9	RP-TK	VALVE BKN	UNKNOWN			TK CR RR	0	01	6
1046.11/13/72	SEATTLE, WA	HERBICIDE	BP	1E0L	0	0	99	10E0	RP-NT	CONTR FLRE	MTRL DFCT			STL DRUM	0	02	1
1047.11/13/72	CHERYVIL, NC	XYLENE	FL	11E1L	0	0	1	40E0	RP-NT	CONTR FLRE	IMP LDG			GLS BTLS	0	02	1
1048.11/13/72	BIRMINGH, AL	SODIUM-HYDO	FS	48E2K	0	0	4	67E2	CTHER	LSE CP, CVR	UNKNOWN				0	02	1
1049.11/13/72	99, MD	INDUS-WASTE	UN	0E0U	0	0	99	0E9	OVRFW	INTNL REL					0	04	6
1050.11/13/72	99, MD	INDUS-WASTE	UN	38E1L	0	0	99	0E9	OVRFW	PRNSLL ERR	INTNL REL				0	04	6
1051.11/14/72	HICKORY, NC	GLYOXAL	FS	38E2L	0	0	1	0E9	RP-TK	OVRTURN				TK TRLR	0	02	2
1052.11/14/72	LEXNGTON, KY	TOLUENE	FL	76E2L	0	0	8	0E9	RP-TK	COLLSN	UNKNOWN			TK TRLR	0	02	2
1053.11/14/72	HICKORY, NC	GLYOXAL	FS	38E1L	0	0	1	0E9	RP-TK	CONTR FLRE	COLLSN			TK TRLR	0	02	6
1054.11/15/72	LOS-ANGL, CA	RESIN-SOLUT	FL	21E1L	0	0	99	20E1	RP-NT	SHRP OBJ	IMP LDG			STL DRUM	0	02	1
1055.11/15/72	SA FE SP, CA	CHROMIC-ACI	BP	45E0K	0	0	1	0E0	RP-NT	MTRL DFCT	IMPR CNTNR			PLSTC DR	0	02	1
1056.11/16/72	HOUSTON, TX	SULFURYI-CH	CL	91E0K	0	0	5	0E9	RP-NT	SHRP OBJ	UNKNOWN			STL DRUM	0	02	1
1057.11/16/72	TALORSUL, IL	POT-CHLORID	UN	0E0U	0	0	99	0E9	RP-NT	CONTR FLRE	DRUMENT			TK CR RR	0	02	6
1058.11/18/72	HOUSTON, TX	SODIUM-HYDO	FS	17E1K	0	0	1	15E1	RP-NT	CONTR FLRE	IMP LDG			STL DRUM	0	02	1
1059.11/20/72	BRNSVILE, TX	TURPENTINE	FL	66E3L	0	0	10	0E9	OVRFW	HSE, CPL FA	UNKNOWN			STO TANK	0	02	6
1060.11/20/72	LEFLORE, OK	AMM-NITRATE	OX	0E0U	0	0	99	0E9	OVRFW	UNKNOWN				BARGE BK	0	02	6
1061.11/20/72	INSTITUT, WV	BENZENE	FL	76E1L	0	0	1	0E9	RP-TK	CONTR FLRE	MTRL CFCT			BARGE TK	0	02	6

1062.11/20/72	STOCKHAM, AZ	METHANOL	FL 8CE3L	0	0	6	36E2	RP-TK	SHRP CBJ	DRLMENT	MTRL DFCT	TK CR RR	C	C2	1	
1063.11/21/72	BRNSVILE, TX	TURPENTINE	FL 66E3L	0	0	10	0E9	TS FL	RPTRD PIPE	UNKNOWN				0	01	2
1064.11/21/72	LEXINGTON, KY	TOLUENE	FL 76E2L	0	0	8	0E9	RP-TK	CONTR FLRE	COLLSN		TK TRLR	C	02	6	
1065.11/22/72	CHICAGO, IL	TOLUENE	FL 0E0U	0	0	99	0E9	RP-TK	CONTR FLRE	UNKNCWN		BARGE BK	C	02	6	
1066.11/22/72	SHELTON, CN	MULTIPLE	FL 91E1K	0	0	2	0E9	OVRFW	UNKNCWN	UNKNCWN		IND MACH	2	04	6	
1067.11/22/72	SHELTON, CN	DIMETHYLAMI	FL 68E1K	0	0	2	0E9	OVRFW	UNKNOWN	UNKNCWN		IND MACH	1	04	6	
1068.11/22/72	SHELTON, CN	CBN-DISULFI	FL 23E1K	0	0	2	0E9	OVRFW	UNKNCWN	UNKNCWN		IND MACH	1	04	6	
1069.11/25/72	99	SODIUM-HYDX	CM 30E3L	0	0	7	13E3	RP-TK	SHRP CBJ	UNKNCWN		TK CR RR	0	02	1	
1070.11/25/72	CHARLSTN, WV	LACQUR-SOLV	FL 57E1L	0	0	4	0E9	OVRFW	DRLMENT			TK CR RR	2	02	2	
1071.11/25/72	CHARLSTN, WV	MULTIPLE	40E3L	0	0	4	0E9	OVRFW	DRLMENT			TK CR RR	3	02	2	
1072.11/25/72	CHARLSTN, WV	CAUS-SODA	CL 23E2L	0	0	4	0E9	OVRFW	DRLMENT			TK CR RR	2	02	2	
1073.11/25/72	CHARLSTN, WV	CBN-TETRACH	UN 11E2L	0	0	4	0E9	OVRFW	DRLMENT			TK CR RR	2	02	2	
1074.11/25/72	KANAWHA, WV	MULTIPLE	UN 0E0U	0	0	99	0E9	RP-TK	UNKNCWN	DRLMENT		TK CR RR	3	02	6	
1075.11/25/72	KANAWHA, WV	CBN-TETRACH	UN 0E0U	0	0	99	0E9	RP-TK	UNKNCWN	DRLMENT		TK CR RR	2	02	6	
1076.11/25/72	KANAWHA, WV	METH-AMY-AC	FL 0E0U	0	0	99	0E9	RP-TK	UNKNCWN	DRLMENT		TK CR RR	2	02	6	
1077.11/25/72	KANAWHA, WV	SODIUM-HYDX	CM 0E0U	0	0	99	0E9	RP-TK	UNKNCWN	DRLMENT		TK CR RR	2	02	6	
1078.11/26/72	URAVAN, CO	INDUS-WASTE	UN 0E0U	0	0	99	0E9	OVRFW	PRNSLL ERR	UNKNCWN		STO TANK	0	03	6	
1079.11/27/72	NEW-ORLN, LA	INSECTICIDE	BP 19ECL	0	0	99	0E9	RP-NT	CONTR FLRE	IMP LDC		STL DRUM	0	02	1	
1080.11/28/72	ALBANY, CA	WEED-KILLER	BP 19ECL	0	0	99	20E0	RP-NT	CONTR FLRE	MTRL DFCT				0	02	1
1081.11/28/72	CHICAGO, IL	HYDRAUL-OIL	UN 28E1L	0	0	99	0E9	TS FL	HSE, CPL FA	UNKNCWN				0	04	3
1082.11/28/72	TRUMBULL, OH	PHOSPHORUS	FS 0E0U	0	0	99	0E9	RP-TK	CONTR FLRE	DRLMENT		BK CR RR	C	02	6	
1083.11/28/72	WASHNGTN, WV	LATEX	UN 38E2L	0	0	99	0E9	OVRFW	MECH FAIL	UNKNOWN		IND MACH	0	04	6	
1084.11/28/72	DURHAM, NC	METH-CHLORI	UN 38E2L	0	0	2	0E9	RP-TK	CONTR FLRE	OVRTURN		TK TRLR	0	02	6	
1085.11/29/72	OHIO-RIV, SS	LATEX	UN 38E2L	0	0	99	0E9	OVRFW	UNKNCWN					0	01	2
1086.12/ 0/72	99	PLASTICIZER	FL 19E2L	0	0	1	0E9	OVRFW	OPN VALVE	PRNSLL ERR				0	04	6
1087.12/ 1/72	PARRISH, AL	AMM-NITRATE	OX 23E3K	0	0	99	50E1	RP-TK	SHRP CBJ	COLLSN		BK CR RR	0	02	1	
1088.12/ 1/72	SEA-DRFT, TX	STYRENE-MON	BP 15E1L	0	0	1	0E0	OTHER	UNKNOWN			BARGE TK	0	01	2	
1089.12/ 1/72	99	SULFURIC-AC	CL 0E0U	0	0	99	0E9	RP-TK	CONTR FLRE			TK TRLR	0	02	6	
1090.12/ 1/72	ROANOKE, VA	AMYL ACETAT	FL 57E2L	0	0	1	0E9	RP-TK	DRLM&OVRTN	LKG CVR	MECH FAIL	TK CR RR	0	02	1	
1091.12/ 2/72	SALT-L-C, UT	HYDROCHLORI	CL 30E3L	0	0	7	0E9	RP-TK	CONTR FLRE	OVRTURN	MECH FAIL	TK TRLR	C	02	6	
1092.12/ 2/72	LOWLAND, TN	METHANOL	FL 57E2L	0	0	3	20E1	RP-TK	LSE CP, CVR	MTRL DFCT		TK TRLR	0	02	1	
1093.12/ 3/72	ROXANA, IL	DODECYL-PHE	CL 68E3K	0	0	6	18E3	RP-TK	COLLSN	UNKNOWN		TK CR RR	0	02	1	
1094.12/ 3/72	SEA-DRFT, TX	STYRENE-MON	BP 38E0L	0	0	1	0E9	TS FL	OPN VALVE	PRNSLL ERR				0	01	2
1095.12/ 3/72	FT-MEADE, FL	PHOSPHATE-C	BP 76E8L	0	0	10	0E9	OVRFW	CONTR FLRE			SETLG PD	0	05	6	
1096.12/ 4/72	MEMPHIS, TN	DINITRO-PHE	BP 11E1L	0	0	2	40E1	RP-NT	BODY FLRE	MTRL DFCT		STL DRUM	0	02	1	
1097.12/ 4/72	TALAHASE, FL	ETH-GLYCOL	FL 76E3L	0	0	10	0E9	RP-TK	DRLMENT			TK CR RR	0	02	6	
1098.12/ 4/72	TALAHASE, FL	ETH-GLYCOL	FL 76E3L	0	0	10	0E9	RP-TK	CONTR FLRE	DRLMENT		TK CR RR	C	02	6	
1099.12/ 5/72	JOLIET, IL	XYLENE	FL 38E1L	0	0	1	0E9	OVRFW	PRNSLL ERR			BARGE TK	0	01	6	
1100.12/ 8/72	99	MURIATIC-AC	CL 23E3L	0	0	4	60E1	RP-TK	CONTR FLRE	CVRPRES	MTRL DFCT	STO TANK	0	01	1	
1101.12/ 8/72	COLUMBIA, SC	XYLENE	FL 25E3L	0	0	4	0E9	RP-TK	UNKNOWN	OVRTURN	UNKNOWN	TK TRLR	0	02	6	
1102.12/ 9/72	MODESTO, CA	STRNT CARBO	FS 0E0U	0	0	99	0E0	RP-NT	WET PACKNG	SPKLRS CSC		PA BAG	1	03	3	
1103.12/ 9/72	MODESTO, CA	BARIIUM CARB	BP 0E0U	0	0	99	0E0	RP-NT	WET PACKNG	SPKLRS CSC		PA BAG	1	03	3	
1104.12/ 9/72	MODESTO, CA	MULTIPLE	UN 0E0U	0	0	99	0E0	RP-NT	WET PACKNG	SPKLRS CSC		PA BAG	2	03	3	
1105.12/ 9/72	KENTON, OH	PHENOL	BP 0E0U	0	0	99	0E9	OVRFW	INTNL REL	NMRL OP		SETLG PD	0	05	6	
1106.12/10/72	ST-PAUL, MN	SULFURIC-AC	CL 95E1L	0	0	1	0E9	RP-TK	CONTR FLRE	MTRL DFCT		STO TANK	1	03	6	
1107.12/10/72	ST-PAUL, MN	MULTIPLEMIX	BP 19E2L	0	0	1	0E9	RP-TK	CONTR FLRE	MTRL DFCT		STO TANK	2	03	6	
1108.12/10/72	ST-PAUL, MN	CHROMIC-ACI	BP 95E1L	0	0	1	0E9	RP-TK	CONTR FLRE	MTRL DFCT		STO TANK	1	03	6	
1109.12/11/72	TONAWNDA, NY	NITROBENZEN	BP 19ECL	0	0	3	5E0	RP-TK	LSE CP, CVR			TK TRLR	0	02	1	
1110.12/11/72	STRUTHRS, OH	CAUS-SODA	CL 38E3L	0	0	7	42E2	RP-TK	CONTR FLRE	MTRL DFCT		TK CR RR	0	02	1	
1111.12/11/72	CHICAGO, IL	ETH-DICHLOR	FL 26E1L	0	0	1	36E1	RP-NT	IMP LDC	MECH FAIL		STL DRUM	0	02	1	
1112.12/12/72	DUFF, TN	TOLUIDENE	BP 19E3L	0	0	9	80E1	RP-TK	SHRP CBJ	DRLMENT		TK CR RR	0	02	1	

1113.12/12/72	POTSTOWN, PA	HYDROCHLORI	CL	90E2L	0	0	5	0E9	RP-TK	CONTR FLRE	CCLLSN	UNKNOWN	TK	TRLR	G	C2	6
1114.12/13/72	DUFF, TN	ORTHOD-TOLUI	FL	76E1L	0	0	2	0E9	RP-TK	CONTR FLRE	DRLMENT	UNKNOWN	TK	CR RR	0	02	2
1115.12/13/72	LEWISTON, ME	NAPTHA	FL	11E1L	0	2	1	0E0	RP-NT	MTRL DFCT			CKG/MX	T	0	04	3
1116.12/13/72	IUKA, IL	PROP-GLYCOL	BP	0E0L	0	0	99	0E9	RP-TK	CONTR FLRE	CRLMENT		TK	CR RR	1	C2	6
1117.12/13/72	BALTIMOR, MD	ACETONE	FL	95E1L	0	0	2	0E9	RP-TK	BODY FLRE	DFCTV WELD		TK	TRLR	0	00	6
1118.12/13/72	IUKA, IL	GLYCERIN	FL	0E0U	0	0	99	0E9	RP-TK	CONTR FLRE	CRLMENT		TK	CR RR	1	C2	6
1119.12/13/72	IUKA, IL	MULTIPLE	BP	0E0U	0	0	99	0E9	RP-TK	CONTR FLRE	CRLMENT		TK	CR RR	2	C2	6
1120.12/14/72	MT-PLESN, PA	MURIATIC-AC	CL	76E1L	0	0	1	0E9	OVRFW	CONTR FLRE	UNKNOWN		STO	TANK	0	01	1
1121.12/15/72	INDIANPL, IN	SODIUM-HYDO	FS	18E2K	0	0	3	25E3	RP-NT	CONTR FLRE	IMP LDG		STL	DRUM	0	02	1
1122.12/15/72	MAPLETON, IL	SALT	UN	0E0U	0	0	99	0E0	RP-NT	WET PACKNG	SPKLRS CSC FIRE		PA	BAG	C	C3	3
1123.12/15/72	PLAINSVL, OH	INDUS-WASTE	UN	76E3L	0	0	99	0E9	OVRFW	PWR FLRE					0	00	6
1124.12/18/72	KNOXVILE, TN	SULFURIC-AC	CL	21E3L	0	0	4	25E2	OTHER	UNKNOWN			TK	TRLR	0	02	1
1125.12/18/72	DUCKTOWN, TN	SULFURIC-AC	CL	60E2L	0	0	4	0E9	RP-TK	OVRTURN	UNKNOWN		TK	TRLR	0	02	2
1126.12/18/72	DUCKTOWN, TN	SULFURIC-AC	CL	23E3L	0	0	4	0E9	OVRFW	UNKNOWN	UNKNOWN		TK	TRLR	0	02	6
1127.12/18/72	INSTITUT, WV	PLASTICIZER	FL	19E2L	0	0	1	0E9	OVRFW	PRNSLL ERR					0	04	6
1128.12/18/72	COOK CTY, IL	NAPTHA	FL	28E3L	0	0	7	76E1	RP-TK	CLS&OVRTN	SHRP OBJ		TK	TRLR	C	02	1
1129.12/19/72	PALMRTWN, PA	SULFURIC-AC	CL	38E1L	0	0	1	61E0	RP-TK	OPN VALVE	PRNSLL ERR		TK	TRLR	0	00	1
1130.12/19/72	DUCKTOWN, TN	SULFURIC-AC	CL	1E0L	0	0	1	0E9	RP-TK	CONTR FLRE	CVRTURN		TK	TRLR	C	02	2
1131.12/19/72	DUCKTOWN, TN	SULFURIC-AC	CL	23E3L	0	0	4	0E9	RP-TK	CONTR FLRE	OVRTURN		TK	TRLR	C	02	2
1132.12/20/72	BENSNVIL, IL	HYDRAULI-OI	UN	0E0U	0	0	99	0E9	TS FL	HSE, CPL FA					1	04	3
1133.12/20/72	BENSNVIL, IL	MOLTEN-METL	UN	0E0U	0	0	99	0E9	OVRFW	MECH FAIL					1	04	3
1134.12/20/72	LUKE, MD	CHLORINE	UN	0E0U	11	0	99	0E9	OVRFW	HSE, CPL FA	VHCL MVC		TK	CR RR	0	01	6
1135.12/21/72	BENSNVIL, IL	MULTIPLE	UN	0E0U	0	0	99	0E9	OVRFW	MECH FAIL					2	04	3
1136.12/21/72	ORLANDO, FL	AMM-NITRATE	OX	54E2L	0	0	99	0E9	OTHER	MECH FAIL					0	02	6
1137.12/22/72	EDGEWOOD, MD	SULFONIC-AC	CL	76E0L	0	0	1	0E9	RP-TK	OVRTURN	UNKNOWN		TK	TRLR	0	02	2
1138.12/22/72	KINGSPRT, TN	ADIPIC-ACID	CL	40E2K	0	0	1	0E9	OTHER	UNKNOWN					0	06	2
1139.12/22/72	ST LOUIS, IL	PROPYLENE	UN	11E4L	0	0	5	25E3	RP-TK	CCLLSN			TK	CR RR	0	01	3
1140.12/22/72	BALTIMOR, MD	SULFONIC-AC	CL	75E0L	0	0	1	0E9	RP-TK	OVRTURN	DFCTV WELD		TK	TRLR	0	C2	6
1141.12/23/72	CINCINAT, OH	SULFURIC-AC	CL	76E1L	0	0	1	0E9	OVRFW	PRNSLL ERR			STO	TANK	0	04	6
1142.12/28/72	FAIRLESS, PA	HYDROCHLORI	CL	19E1L	0	0	1	50E0	OVRFW	PRNSLL ERR			STO	TANK	0	51	1
1143.12/28/72	BAY-CITY, MI	BENZENE	FL	57E0L	0	0	1	0E9	OVRFW	HSE, CPL FA			PIPES		0	04	6
1144.12/28/72	JAMEVILLE, MA	ALC-ETHYL	FL	23E4K	0	0	6	5E3	RP-TK	DRLM&OVRTN	VALVE BKN		TK	CR RR	0	02	1
1145.12/29/72	CLEARING, IL	TOLUENE	FL	33E3L	0	0	10	2E3	RP-TK	DRLMENT	BODY FLRE		TK	CR RR	G	02	1
1146.12/29/72	99, 99	CAUS-SODA	CL	30E3L	0	0	7	18E2	RP-TK	SHRP OBJ	DRLMENT		TK	CR RR	0	02	1
1147.12/29/72	BALTIMOR, MD	SULFONIC-AC	CL	76E0L	0	0	1	0E9	RP-TK	CONTR FLRE	OVRTURN		TK	TRLR	C	02	2
1148.12/30/72	MOBILE, AL	DISHWASH-PO	CM	12E3K	0	0	99	0E9	OTHER	UNKNOWN					0	01	1
1149. 0/ 0/73	KANAWHAR, WV	METHANOL	FL	30E3L	0	0	5	0E9	OTHER	PRNSLL ERR					0	03	2
1150. 1/ 2/73	MCALLEN, TX	AMM-NITRATE	OX	15E2K	0	0	99	13E1	RP-NT	SHRP OBJ	IMP LDG		PLSTC	BG	0	02	1
1151. 1/ 3/73	CORPUS-C, TX	VINYL-ACETA	FL	0E0U	0	0	99	60E2	TS FL	OPN VALVE	PRNSLL ERR		BARGE	TK	0	01	2
1152. 1/ 3/73	S-CHARLS, WV	ISOPROPANEL	FL	11E0L	0	0	1	0E9	RP-TK	LSE CP, CVR	PRNSLL ERR		BARGE	TK	0	01	2
1153. 1/ 4/73	CORP-CHR, TX	VINYL-ACETA	FL	79E3L	0	0	8	0E9	RP-TK	SHIP SANK			BARGE	TK	0	01	2
1154. 1/ 5/73	WAVERLY, NJ	CAUS-SODA	CL	10E1L	0	0	1	10E1	RP-TK	UNKNOWN			TK	CR RR	C	02	1
1155. 1/ 6/73	BROADNAX, VA	SULFURIC-AC	CL	76E1L	0	0	1	15E2	RP-TK	LKG CVR	DRLM&OVRTN		TK	CR RR	G	02	1
1156. 1/ 7/73	DESPL-RI, IL	SULFURIC-AC	CL	14E4L	0	0	17	0E9	RP-TK	MTRL DFCT			STO	TANK	1	03	2
1157. 1/ 7/73	DESPL-RI, IL	NITRIC-ACID	CL	14E4L	0	0	10	0E9	RP-TK	MTRL DFCT			STO	TANK	1	03	2
1158. 1/ 7/73	DESPL-RI, IL	MULTIPLE	CL	14E4L	0	0	19	0E9	RP-TK	MTRL DFCT			STO	TANK	2	03	2
1159. 1/ 8/73	SPARLAND, IL	ALC-ETHYL	FL	19E4L	0	0	6	15E3	RP-TK	CONTR FLRE	DRLM&CVRTN	UNKNOWN	TK	CR RR	0	02	1
1160. 1/ 9/73	WILMNGTN, DE	UNKNOWN	UN	0E0U	0	0	99	0E9	OTHER	INTNL REL			SETLG	PD	0	03	2
1161. 1/ 9/73	FAYETTEV, NC	CHEM-NOI	UN	0E0U	0	0	99	0E9	TS FL	HSE, CPL FA	BLCG CLSP	SNOW/ICE	PA	BAG	0	03	3
1162. 1/12/73	E-WOODBR, NJ	OXYBISPEROL	BP	1E0K	1	0	99	10E1	RP-NT	SHRP OBJ			FBRE	DRM	0	01	1
1163. 1/12/73	ST-LOUIS, MO	INSECTICIDE	BP	1E0L	0	0	99	40E0	RP-NT	CONTR FLRE	MTRL DFCT		STL	PAIL	C	02	1

1164.	1/15/73	HUNTSVIL,AL	HYDROCHLORI	CL	11E2L	0	0	2	80E1	RP-TK	CONTR FLRE	UNKNCW		TK	TLR	C	51	1	
1165.	1/16/73	SISTRSVL,WV	BUTYL CARBI	FL	0E0U	0	0	99	0E0	RP-NT	CONTR FLRE	EXPLOSION	CHMCAL RE	CKG/MX	T	0	04	3	
1166.	1/18/73	FRESNO ,CA	ORGAN-PHOSP	BP	19ECL	0	0	1	10E1	RP-NT	SHRP OBJ	UNKNOWN		STL	PAIL	0	02	1	
1167.	1/18/73	NATCHEZ ,MS	FLAM-LIQ-UN	FL	0E0U	0	0	99	0E9	GVRFW	INTNL REL	PRNSLL ERR				0	04	3	
1168.	1/19/73	BROUSARD,LA	AMM-NITRATE	OX	13E2K	0	0	99	12E1	RP-NT	SHRP OBJ	IMP LDC		PA	BAG	0	02	1	
1169.	1/19/73	LEMONT ,IL	CAUS-SODA	CL	75E1L	1	0	2	10E0	TS FL	HSE,CPL FA	MTRL DFCT		TK	TLR	0	41	1	
1170.	1/19/73	WOODSTOK,IL	CHEM-NOI	UN	19E0L	0	0	99	0E9	GVRFW	PRNSLL ERR			IND	MACH	0	04	3	
1171.	1/19/73	REDWD CY,CA	RESIN-SOLUT	FL	11E2L	0	0	99	0E0	RP-TK	RPTRD PIPE	OVRPRES		CKG/MX	T	0	04	3	
1172.	1/22/73	OHIO-JCT,OH	TOLUENE	FL	38E3L	0	0	10	0E9	RP-TK	CONTR FLRE	UNKNCW		TK	CR	RR	0	02	1
1173.	1/23/73	MARIETTA,CA	SULFURIC-AC	CL	49E0L	0	0	1	20E1	RP-NT	UNKNOWN			DEL	DRUM	0	02	1	
1174.	1/24/73	HICKORY ,NC	SOLVENT	FL	21E1L	1	0	99	0E9	GVRFW	DROPPED	PRNSLL ERR		STL	DRUM	0	04	3	
1175.	1/25/73	SUNSET ,LA	AMM-NITRATE	OX	10E2K	0	0	99	67E0	RP-NT	SHRP OBJ	IMP LDC		PA	BAG	0	02	1	
1176.	1/25/73	STITIS ,KY	ACETONE	FL	52E3L	0	0	8	0E9	RP-TK	DRLMNT	UNKNCW		TK	CR	RR	0	02	1
1177.	1/25/73	NEW YORK,NY	DICHLORO PE	BP	12E1L	2	0	1	0E0	RP-NT	CONTR FLRE	EXPLOSION	CHMCAL RE	FBRE	DRM	0	03	3	
1178.	1/27/73	MT PLSNT,WI	NAPTHA	FL	87E4L	0	0	10	0E0	RP-TK	SHRP OBJ	DRLM&OVRTN		TK	CR	RR	0	02	9
1179.	1/29/73	TOPEKA ,KS	AMM-NITRATE	OX	54E2K	0	0	99	0E9	RP-TK	LKG CVR	DRLMNT		BK	CR	RR	0	02	1
1180.	1/29/73	CLEVELND,OH	CAUS-POT-LI	CL	57E0L	0	0	1	10E0	RP-NT	CONTR FLRE	MTRL DFCT	UNKNOWN	STL	DRUM	0	02	1	
1181.	1/30/73	TULLY ,NY	ALC-ISOPROP	FL	24E3L	0	0	3	30E2	RP-TK	SHRP OBJ	CLS&OVRTN		TK	TLR	0	02	1	
1182.	1/30/73	JACKSON ,MI	HYDROCHLORI	CL	15E2L	1	0	3	60E0	TS FL	HSE,CPL FA	LSE CP,CVR		TK	TLR	0	51	1	
1183.	1/31/73	MEMPHIS ,TN	INSECTICIDE	BP	23E0L	0	0	99	0E9	RP-NT	CONTR FLRE	IMP LDC				0	02	1	
1184.	2/ 0/73	99	MOLASSES	UN	0E0U	1	0	99	0E9	OTHER	UNKNCW			BARGE	TK	0	02	2	
1185.	2/ 1/73	LOVLAND ,CO	INDUS-WASTE	UN	20E4L	0	0	99	0E9	OTHER	MECH FAIL			SETLG	PD	0	06	6	
1186.	2/ 2/73	FRESNO ,CA	DINITRO-PHE	BP	4E0K	0	0	1	10E2	RP-NT	CONTR FLRE	UNKNOWN		STL	DRUM	0	02	1	
1187.	2/ 4/73	LOWLAND ,TN	ALC-METHYL	FL	76E2L	0	0	1	25E0	GVRFW	PRNSLL ERR			STO	TANK	0	41	1	
1188.	2/ 4/73	MOBILE ,AL	SULFURIC-AC	CL	76E1L	0	0	1	20E1	RP-TK	BODY FLRE	MTRL DFCT		TK	CR	RR	0	02	1
1189.	2/ 4/73	ANDERSON,SC	AMM-NITRATE	OX	51E4K	0	0	99	0E0	RP-NT	CONTR FLRE	FIRE	VANDALISM	PA	BAG	0	03	3	
1190.	2/ 5/73	REISTERS,MD	CAUS-SODA	CL	56E0L	1	0	1	15E0	CVRFW	UNKNCW			STO	TANK	0	01	1	
1191.	2/ 7/73	WESTOVER,CA	CAUS-SODA	CL	15E2L	0	0	3	50E0	TS FL	HSE,CPL FA	UNKNCW		TK	TLR	0	41	1	
1192.	2/ 7/73	BROOKLYN,NY	ZINC-CYANID	BP	90E0K	0	0	1	23E1	RP-NT	CONTR FLRE	IMP LDC		CDBD	DRM	0	01	1	
1193.	2/ 8/73	YORK ,PA	HERBICIDE	BP	1E0K	0	0	99	25E0	RP-NT	UNKNCW			STL	PAIL	0	02	1	
1194.	2/ 8/73	CARPENDR,IL	TOLUENE	FL	57ECL	0	0	2	10E0	TS FL	DRCPPEC	RCWY CONDS		TK	TLR	0	01	1	
1195.	2/ 9/73	WILMINGT,MA	ETH-ACRILAT	FL	19E0L	0	0	1	0E9	RP-NT	SHRP OBJ	UNKNOWN		STL	DRUM	0	02	1	
1196.	2/ 9/73	SAN-ANTO,TX	METHANOL	FL	11E3L	0	0	3	50E1	RP-TK	CONTR FLRE	UNKNOWN		TK	CR	RR	0	02	1
1197.	2/ 9/73	COLUMBIN,OH	SULFURIC-AC	CL	14E3L	0	0	4	18E2	RP-TK	SHRP OBJ	CLS&OVRTN		TK	TLR	0	02	1	
1198.	2/13/73	TEXAS-CI,TX	ETH-HEXANOL	FL	76E0L	0	0	1	0E9	OTHER	UNKNCW					0	01	2	
1199.	2/14/73	LOS-ANGL,CA	PARATHION-L	BP	1E0K	0	0	1	50E0	RP-NT	CONTR FLRE	MTRL DFCT		STL	DRUM	0	02	1	
1200.	2/15/73	SUNSET ,LA	AMM-NITRATE	OX	11E2K	0	0	99	10E1	RP-NT	SHRP OBJ	IMP LDC		PA	BAG	0	02	1	
1201.	2/16/73	WNSTNSLM,NC	AMM-NITRATE	OX	45ECK	0	0	99	20E0	RP-NT	CONTR FLRE	DRLMNT	UNKNOWN	PLSTC	BG	0	02	1	
1202.	2/16/73	SIouxCTY,IA	LEAD-ARSENA	BP	5E0K	0	0	1	18E0	RP-NT	SHRP OBJ	UNKNCW		PA	BAG	0	01	1	
1203.	2/16/73	BOSTON ,MA	CYNID-OF-PT	BP	4E0L	0	0	1	50E0	RP-NT	LSE CP,CVR			PLSTC	BT	0	01	1	
1204.	2/17/73	BURLNGTN,NC	WEED-KILLER	BP	4E0L	0	0	99	50E0	RP-NT	CONTR FLRE	MTRL CFCT		STL	DRUM	0	02	1	
1205.	2/19/73	SLT-LK-C,UT	INSECTICIDE	BP	43E0L	0	0	99	16E0	RP-NT	CONTR FLRE	DROPPED		GBTL/CTN	0	02	1		
1206.	2/19/73	S CHARLS,WV	METHOXYDIPR	BP	23E3L	0	0	9	0E0	RP-TK	EXPLOSION	CHMCAL RE		CKG/MX	T	0	04	3	
1207.	2/20/73	LOGAN ,ND	METHANOL	FL	11E4L	0	0	6	40E2	RP-TK	CONTR FLRE	DRLMNT		TK	CR	RR	0	02	1
1208.	2/20/73	LOGAN ,ND	METHANOL	FL	15E2L	0	0	1	50E0	RP-TK	CONTR FLRE	DRLMNT		TK	CR	RR	0	02	1
1209.	2/20/73	PECOS ,TX	PHENOL	BP	0E0U	0	0	99	0E9	RP-TK	CONTR FLRE	DRLMNT		TK	CR	RR	0	02	6
1210.	2/21/73	PRTLAVCA,TX	AMM-NITRATE	OX	73E1K	0	0	99	64E0	RP-NT	SHRP OBJ	UNKNOWN		PLSTC	BG	0	02	1	
1211.	2/21/73	PRTLAVCA,TX	AMM-NITRATE	OX	66E1K	0	0	99	0E9	RP-NT	CONTR FLRE	SHRP OBJ		PLSTC	BG	0	02	1	
1212.	2/21/73	CONCORD ,NC	FORMIC-ACID	CL	38E1L	0	0	1	10E1	TS FL	HSE,CPL FA	UNKNOWN		TK	TLR	0	51	1	
1213.	2/21/73	TAFT ,LA	ADIPIC-ACID	CL	0E0U	0	0	99	0E9	RP-TK	CONTR FLRE	COLLSN		TK	CR	RR	1	02	6
1214.	2/21/73	TAFT ,LA	MULTIPLE	CL	0E0U	0	0	99	0E9	RP-TK	CONTR FLRE	COLLSN		TK	CR	RR	2	02	6

1215.	2/21/73	TAFT ,LA	HEXAMETHYLE	CL	0E0U	0	0	99	0E9	RP-TK	CONTR FLRE	COLLSN		TK CR RR	1	02	6
1216.	2/21/73	SUGAR-GR,PA	MINERAL-OIL	FL	0E0U	0	0	99	0E9	TS FL	HSE,CPL FA		TK TRLR	0	0110		
1217.	2/22/73	MIDLAND ,PA	NITRIC-ACID	CL	19E0L	0	0	4	0E9	CVRFW	GPN VALVE	PRNSLL ERR	TK TRLR	0	01	1	
1218.	2/22/73	POWER ,WV	SULFURIC-AC	CL	19E1L	0	0	1	15E0	OVRFW	GAU MS/DFC	PRNSLL ERR	STO TANK	0	41	1	
1219.	2/23/73	WILTON ,CT	HYDROFLUOSI	CL	10E1L	0	0	2	25E0	OVRFW	GAU MS/DFC		STO TANK	0	41	1	
1220.	2/23/73	WACO ,TX	DINITRO-PHE	BP	1ECK	0	0	1	0E9	RP-NT	CONTR FLRE	CFCTV WELD	STL PAIL	0	02	1	
1221.	2/24/73	KREMLIN ,OK	ALC-METHYL	FL	75E3L	0	0	6	33E3	RP-TK	DRLEMENT	UNKNOWN	TK CR RR	0	02	1	
1222.	2/24/73	COLUMBUS,OH	MURIATIC-AC	CL	45E2L	0	0	2	15E1	RP-TK	COLLSN		TK TRLR	0	422	1	
1223.	2/24/73	PENSACLA,FL	TOLUOL	FL	38E0L	1	0	1	90E0	RP-TK	LKG CVR	OVRTURN	TK TRLR	0	02	1	
1224.	2/26/73	BOISE ,ID	INSECTICIDE	BP	4E0L	0	0	99	20E0	RP-NT	CONTR FLRE	DROPPED	GBTL/CTN	0	01	1	
1225.	2/27/73	FRESNO ,CA	INSECTICIDE	BP	1ECK	0	0	99	0E9	RP-NT	CONTR FLRE	DROPPED	GBTL/CTN	0	01	1	
1226.	2/28/73	S-HOLLND,IL	SOD-NITRITE	OX	45E0K	0	0	1	25E0	RP-NT	SHRP OBJ	UNKNOWN	PA BAG	0	02	1	
1227.	3/ 1/73	BRIDGEPT,NJ	PHENOL	BP	45E0K	0	0	1	15E0	TS FL	VALVE BKN	MECH FAIL	TK TRLR	0	51	1	
1228.	3/ 1/73	ST-GEORG,CT	MURIATIC-AC	CL	76E1L	0	0	1	75E0	RP-TK	BODY FLRE	UNKNOWN	TK TRLR	0	02	1	
1229.	3/ 1/73	KNOXVILL,TN	CAUS- SODA	CL	19E0L	0	0	1	20E0	RP-TK	LSE CP,CVR		TK CR RR	0	02	1	
1230.	3/ 1/73	HARVEY ,LA	PAINT	FL	21E1L	0	0	99	0E9	TS FL	HSE,CPL FA	UNKNOWN	STL DRUM	0	04	3	
1231.	3/ 2/73	BRADDOCK,PA	CYANIDE-SOD	BP	2E0L	0	0	1	5E0	RP-NT	CONTR FLRE	UNKNOWN	STL DRUM	0	02	1	
1232.	3/ 3/73	ONTARIO ,CD	SULFURIC-AC	CL	38E1L	0	0	1	0E9	OVRFW	UNKNOWN		STO TANK	0	01	1	
1233.	3/ 5/73	ALBANY ,NY	SOD-ALUMINA	CL	38ECL	0	0	99	10E1	RP-NT	CONTR FLRE		STL DRUM	0	01	1	
1234.	3/ 5/73	BAYONNE ,NJ	CHLOROFORM	BP	4E0L	0	0	1	0E9	OTHER	UNKNOWN		GBTL/CTN	0	02	1	
1235.	3/ 5/73	OGLESBY ,CA	CAUS- SODA	CL	83E3L	0	0	8	24E2	RP-TK	SHRP OBJ	CRLMENT	TK CR RR	0	02	1	
1236.	3/ 6/73	DENVER ,CO	INSECTICIDE	BP	1ECK	0	0	99	0E9	RP-NT	LSE CP,CVR		STL PAIL	0	02	1	
1237.	3/ 7/73	ENOLA ,PA	ACETONE	FL	28E2L	0	0	4	26E1	RP-TK	VALVE BKN	DRLM&OVRTN	TK CR RR	0	02	1	
1238.	3/ 7/73	MACON ,GA	HYDROCHLORI	CL	76E1L	0	0	2	0E9	RP-TK	CONTR FLRE	UNKNOWN	TK CR RR	0	02	1	
1239.	3/ 7/73	MACON ,GA	HYDROCHLORI	CL	19E1L	0	0	1	30E1	RP-TK	BODY FLRE	UNKNOWN	TK CR RR	0	02	1	
1240.	3/ 7/73	FAIRLAWN,NJ	SOD-NITRITE	OX	45E0K	0	0	1	90E0	RP-NT	SHRP OBJ	IMPR FNCLG	PA BAG	0	02	1	
1241.	3/ 7/73	ROME ,CA	MCS-10-16	UN	83E2L	0	0	99	0E9	OTHER	UNKNOWN		TRNSFRMR	0	03	2	
1242.	3/ 8/73	SHEFIELD,AL	NITRIC-ACID	CL	14E0L	0	0	1	85E0	RP-NT	CONTR FLRE	DROPPED	GBTL/CTN	0	01	1	
1243.	3/ 9/73	INDIO ,CA	DINITRO-PHE	BP	7E0L	0	0	1	0E9	RP-NT	CONTR FLRE	UNKNOWN	STL DRUM	0	02	1	
1244.	3/ 9/73	AVON ,IN	CAUS- SODA	CL	57E3L	0	0	8	46E2	RP-TK	SHRP OBJ	COLLSN	TK CR RR	0	02	1	
1245.	3/10/73	FLINT ,MI	TOLUENE	FL	64E1L	0	0	5	0E9	OVRFW	OPN VALVE	PRNSLL ERR	TK CR RR	0	02	1	
1246.	3/12/73	PITTSBURG,PA	INSECTICIDE	BP	0E0U	0	0	99	0E9	RP-NT	CONTR FLRE	IMP LCG	FBRE BOX	0	00	1	
1247.	3/12/73	TOLEDO ,OH	SOD-CHR-SOL	BP	22E1L	0	0	1	0E9	OVRFW	HSE,CPL FA		BOILER	0	04	2	
1248.	3/12/73	OTTER-CR,OR	SODIUM-CHRM	BP	22E1L	0	0	0	0E9	TS FL	UNKNOWN			0	04	2	
1249.	3/12/73	DEER PRK,TX	BRINE	UN	0E0U	0	0	99	0E0	TS FL	RPTRD PIPE	OPEN	PRNSLL ERR	PIPES	0	03	3
1250.	3/13/73	PRTLAVCA,TX	AMM-NITRATE	OX	84E1K	0	0	99	0E9	RP-NT	SHRP OBJ	IMP LCG	PLSTC BG	0	02	1	
1251.	3/13/73	99 ,99	AMM-NITRATE	OX	28E2K	0	0	99	20E1	RP-NT	SHRP OBJ	IMP LCG	PLSTC BG	0	02	1	
1252.	3/13/73	SALISBRY,NC	METH-ACRYLA	FL	15E2L	0	0	2	10E2	RP-TK	CONTR FLRE	UNKNOWN	TK TRLR	0	02	1	
1253.	3/13/73	PHILLIPS,NJ	HYDR-ACD-AQ	CL	76E0L	0	0	1	10E2	RP-NT	CONTR FLRE	OVRTURN	IMP LCG	STL DRUM	0	92	1
1254.	3/14/73	LAFAYETTE,LA	AMM-NITRATE	OX	75E1K	0	0	99	66E0	RP-NT	SHRP OBJ	IMP LCG	PA BAG	0	02	1	
1255.	3/14/73	MORGNTN ,NC	HEAT XFR OIL	UN	0E0U	0	0	99	0E0	RP-NT	MECH FAIL	MTRL DFCT	PIPES	0	04	3	
1256.	3/15/73	NEWPORT ,DE	SULFURIC-AC	CL	19E1L	0	0	1	25E0	TS FL	HSE,CPL FA	UNKNOWN	TK TRLR	0	41	1	
1257.	3/15/73	PALMERTN,PA	SULFURIC-AC	CL	28E1L	0	0	1	10E1	OVRFW	OPN VALVE	PRNSLL ERR	TK TRLR	0	362	1	
1258.	3/15/73	CINCINAT,OH	TRIFLURDACE	CL	11E0L	0	0	1	25E1	RP-NT	SHRP OBJ	IMP LCG	BGS/CTN	0	02	1	
1259.	3/15/73	OGLESBY ,CA	XYLOL	FL	56E4L	0	0	9	10E3	RP-TK	SHRP OBJ	CRLMENT	RDWY CONDS	TK CR RR	0	02	1
1260.	3/15/73	ONTARIO ,	MULTIPLE	UN	57E1L	0	0	99	0E9	CVRFW	MECH FAIL			2	04	3	
1261.	3/15/73	ONTARIOH,	UDRAULI-IO	UN	57E1L	0	0	99	0E9	TS FL	HSE,CPL FA			1	04	3	
1262.	3/15/73	ONTARIO ,	MOLTEN-METAL	UN	0E0	0	0	99	0E9	OVRFW	MECH FAIL			1	04	3	
1263.	3/16/73	PRTLAVCA,TX	AMM-NITRATE	OX	25E1K	0	0	99	0E9	RP-NT	SHRP OBJ	UNKNOWN	PLSTC BG	0	02	1	
1264.	3/16/73	OHIO-RIV,99	LATEX	UN	38E2L	0	0	99	0E9	TS FL	UNKNOWN			0	04	2	
1265.	3/17/73	GAINSVIL,FL	CREOSOTE	FL	19E2L	0	0	3	0E9	RP-TK	CONTR FLRE	EXPLOSION	BOILER	0	04	2	

1317.	4/16/73	CALDWELL, ID	INSECTICIDE	BP 19ECL	0	0	99	51E0	RP-NT	CONTR FLRE	IMPR HNCLG	STL PAIL	0	01	1	
1318.	4/16/73	NASHVILL, TN	CARBOLIC-AC	BP 11E1L	0	0	2	0E9	RP-NT	FORKLIFT	PRNSLL ERR	STL DRUM	0	51	1	
1319.	4/16/73	ALEXANDA, LA	AMM-NITRATE	OX 45E1K	0	0	99	40E0	RP-NT	SHRP OBJ	IMP LCG	PLSTC BG	0	02	1	
1320.	4/16/73	MOBILE, AL	PHENOL	BP 5E0K	0	0	1	0E9	RP-NT	CONTR FLRE	MTRL CFCT	PBTL/CTN	0	01	1	
1321.	4/16/73	WNST-SLM, NC	CAUS-SODA	CL 21E1L	0	0	1	40E1	RP-NT	CONTR FLRE	MTRL CFCT	STL DRUM	0	02	1	
1322.	4/16/73	MEMPHIS, TN	WEED-KILLER	BP 19E0L	0	0	99	40E0	OTHER	UNKNOWN		STL PAIL	0	02	1	
1323.	4/17/73	99, 99	ORGAN-PHOSP	BP 2ECK	0	0	1	10E0	RP-NT	CONTR FLRE	DROPPED	PA BAG	0	01	1	
1324.	4/17/73	WELCH, TX	ANH-AMMONIA	UN 5CE2K	0	0	4	0E9	RP-TK	RLF VAL OP	UNKNCW	TK TRLR	0	01	1	
1325.	4/18/73	JACKSNBG, WV	FATTY-ACIDS	UN 19E1L	0	0	1	0E9	RP-TK	DRLM&OVRTN		TK CR RR	0	02	2	
1326.	4/19/73	LANSDALE, PA	ASPHALT	UN 11E1L	0	0	99	0E0	RP-NT	DROPPED	PRNSLL ERR	PRTBL TK	0	03	3	
1327.	4/19/73	BEIRNE, AR	TRANSF OIL	FL 0E0U	0	0	99	0E0	RP-NT	CONTR FLRE	LIGHTNING	TRNSFRMR	0	03	3	
1328.	4/22/73	MCNARY, TX	CARBOLIC-AC	BP 80E3L	0	0	10	13E3	RP-TK	SHRP CBJ	DRLM&OVRTN	RCWY CONDS	TK CR RR	0	02	1
1329.	4/23/73	MCNARY, TX	ALC-METHYL	FL 0E0U	0	0	99	0E9	RP-TK	CONTR FLRE	DRLM&OVRTN	TK CR RR	C	02	2	
1330.	4/24/73	NACOGDCS, TX	AMM-NITRATE	OX 12E2K	0	0	99	0E9	RP-NT	SHRP CBJ	IMP LCG	PLSTC BG	0	02	1	
1331.	4/24/73	ASHBURYP, NJ	BENZYL-CHLO	CL 21E1L	0	0	6	18E1	RP-NT	FORKLIFT	PRNSLL ERR	STL DRUM	0	51	1	
1332.	4/24/73	99, MI	ORGAN-PHOSP	BP 4E0L	0	0	1	0E9	RP-NT	SHRP CBJ	UNKNOWN	GLS BTLS	0	02	1	
1333.	4/24/73	RICHMOND, VA	INK	FL 21E1L	0	0	99	0E9	RP-NT	CONTR FLRE	MTRL CFCT	STL DRUM	C	02	1	
1334.	4/25/73	PRTLAVAC, TX	AMM-NITRATE	OX 20E2K	0	0	99	18E1	RP-NT	SHRP CBJ	IMP LCG	PLSTC BG	0	02	1	
1335.	4/25/73	NACOGDCS, TX	AMM-NITRATE	OX 59E1K	0	0	99	0E9	RP-NT	SHRP CBJ	IMP LCG	PLSTC BG	0	02	1	
1336.	4/25/73	ATCHAF-R, LA	ETH-BENZENE	FL 64E4L	0	0	9	0E9	RP-TK	SHRP OBJ	COLLSN	BARGE TK	0	02	2	
1337.	4/25/73	JACKSNBG, WV	FATTY-ACID	UN 50ECL	0	0	1	0E9	RP-TK	CCNTR FLRE	DRLMENT	TK CR RR	0	02	2	
1338.	4/26/73	AMARILLO, TX	WEED-KILLER	BP 4E0L	0	0	99	10E0	RP-NT	CONTR FLRE	IMP LCG	STL PAIL	0	02	1	
1339.	4/26/73	SALT-L-C, UT	PARATHION-L	BP 1E0L	0	0	1	75E0	RP-NT	CONTR FLRE	IMP LCG		0	02	1	
1340.	4/26/73	PULASKI, VA	AMINO-ETHYL	FL 76E2L	0	0	6	0E9	RP-TK	COLLSN		TK TRLR	1	02	2	
1341.	4/26/73	PULASKI, VA	MULTIPLE	FL 13E3L	0	0	6	0E9	RP-TK	COLLSN		TK TRLR	2	02	2	
1342.	4/26/73	PULASKI, VA	TRIETHANOLA	FL 57E2L	0	0	6	0E9	RP-TK	COLLSN		TK TRLR	1	02	2	
1343.	4/27/73	PORTLAND, OR	ORGAN-PHOSP	BP 1ECL	0	0	1	35E1	RP-NT	MTRL CFCT		STL PAIL	0	02	1	
1344.	4/27/73	BALT, MD	ALUMINA-PDR	UN 45E1K	0	0	1	0E9	RP-TK	DRLMENT	PRNSLL ERR	BK CR RR	0	02	2	
1345.	4/30/73	99, 99	WEED-KILLER	BP 12E1K	0	0	99	50E0	RP-NT	CONTR FLRE	UNKNOWN	STL DRUM	0	02	1	
1346.	5/ 1/73	TULSA, OK	ARS-MIXTURE	BP 1ECL	0	0	1	25E0	RP-NT	MTRL CFCT		STL DRUM	0	02	1	
1347.	5/ 1/73	LIMA, OH	METH-PARTHI	BP 4E0L	0	0	1	60E1	RP-NT	LSE CP, CVR		GLS BTLS	0	02	1	
1348.	5/ 1/73	JACKSNBG, WV	FATTY-ACID	UN 38E1L	0	0	1	0E9	RP-TK	CONTR FLRE	DRLMENT	TK CR RR	0	02	2	
1349.	5/ 2/73	CHARLSTN, SC	PARATHION-L	BP 1E0L	0	0	1	0E9	RP-NT	MTRL CFCT		STL PAIL	0	02	1	
1350.	5/ 2/73	GEISMAR, LA	ALC-METHYL	FL 95E1L	0	0	1	33E0	RP-TK	LKG CVR	DRLMENT	RCWY CONDS	TK CR RR	0	02	1
1351.	5/ 2/73	PRTLAVAC, TX	AMM-NITRATE	OX 11E2K	0	0	99	96E0	RP-NT	SHRP OBJ	WET PACKNG	PLSTC BG	0	02	1	
1352.	5/ 2/73	CHERRYVL, NC	HERBICIDE	BP 11E0L	0	0	99	15E0	RP-NT	CONTR FLRE	DROPPED	GBTL/CTN	0	01	1	
1353.	5/ 2/73	OPELOUSA, LA	AMM-NITRATE	OX 52E1K	0	0	99	46E0	RP-NT	SHRP OBJ	IMP LCG	PA BAG	0	02	1	
1354.	5/ 3/73	SEATTLE, WA	INSECTICIDE	BP 8ECL	0	0	99	60E0	RP-NT	CONTR FLRE	DROPPED	GBTL/CTN	C	01	1	
1355.	5/ 3/73	AMARILLO, TX	INSECTICIDE	BP 4E0L	0	0	99	15E0	OTHER	UNKNOWN		GLS BTLS	0	01	1	
1356.	5/ 3/73	CHELSEA, MA	CHEM-NOI	UN 0E0U	0	0	99	0E9	OTHER	SPKLRS DSC	FIRE	PA BAG	0	04	3	
1357.	5/ 4/73	DEERPARK, TX	HYDROCHLORI	CL 19E0L	0	0	1	10E0	RP-TK	OPN VALVE	PRNSLL ERR	TK TRLR	0	51	1	
1358.	5/ 4/73	GOLDSBRO, NC	WOOD-STAIN	UN 12E2K	0	0	99	45E1	TS FL	HSE, CPL FA	PRNSLL ERR	TK TRLR	0	01	1	
1359.	5/ 4/73	ST-LOUIS, MO	WEED-KILLER	BP 4E0L	0	0	99	0E9	RP-NT	SHRP OBJ	UNKNOWN	STL DRUM	0	02	1	
1360.	5/ 4/73	CUMBRIND, MD	PHENOL	BP 87E3L	0	0	10	0E9	OTHER	UNKNOWN		TK CR RR	0	02	2	
1361.	5/ 4/73	CUMBERLN, MD	PHENOL	BP 87E3L	0	0	10	0E9	RP-TK	CONTR FLRE	DRLMENT	TK CR RR	0	01	2	
1362.	5/ 4/73	COOPRHIL, TN	SULFURIC-AC	CL 38E1L	0	0	1	0E9	OTHER	UNKNOWN			0	01	2	
1363.	5/ 4/73	99, TX	VINYL-CHLOR	FL 0E0U	0	0	99	0E9	OTHER	DRLMENT	UNKNOWN	TK CR RR	C	02	2	
1364.	5/ 4/73	COOPRHIL, TN	SULFURIC-AC	CL 38E0L	0	0	1	0E9	OTHER	UNKNOWN			0	01	2	
1365.	5/ 5/73	MEMPHIS, TN	WEED-KILLER	BP 0E0U	0	0	99	0E9	OTHER	UNKNOWN			0	02	1	
1366.	5/ 5/73	PUERTO-R,	HYDRAUL-OIL	UN 23E2L	0	0	99	0E9	RP-NT	BODY FLRE		STL DRUM	1	03	3	
1367.	5/ 5/73	PUERTO-R,	MULTIPLE	FL 0E0L	0	0	1	0E9	RP-NT	BODY FLRE	EXPLCSION FIRE	STL DRUM	2	03	3	

1368.	5/ 5/73	PUERTO-R,	GASOLINE	FL	21E1L	0	0	1	0E9	RP-NT	BGDY FLRE		STL DRUM	1	03	3	
1369.	5/ 6/73	TWO RVRS,WI	PAINT	FL	0E0U	0	0	99	0E0	TS FL	RPTRD PIPE	OVRPRES	FIRE	PIPES	0	04	3
1370.	5/ 8/73	CARENCRO,LA	AMM-NITRATE	OX	45E1K	0	0	99	40E0	RP-NT	SHRP OBJ	IMP LDC		PA BAG	C	02	1
1371.	5/ 8/73	LENDIR-C,NC	ALC-ALDEHYD	FL	34E3L	0	0	10	0E9	OVRFW	OPN VALVE	VANDALISM		STO TANK	G	03	2
1372.	5/ 8/73	MARIETTA,GA	PROTEIN-FOM	UN	13E2L	0	0	99	0E9	OVRFW	SPKLRS CSC			PIPES	0	04	2
1373.	5/12/73	HAMPSTED,MD	NITROGEN-LI	UN	0E0U	0	0	99	0E9	RP-TK	CONTR FLRE	CLS&OVRTN		TK TRLR	0	02	5
1374.	5/13/73	GULFSUMT,NY	ORG-AMON-CO	FL	76E2L	0	0	5	0E9	RP-TK	CONTR FLRE	ORLMENT		TK CR RR	0	02	1
1375.	5/14/73	CHARLOTT,NC	INSECTICIDE	BP	4E0L	0	0	99	0E9	RP-NT	CONTR FLRE	DROPPED		GBTL/CTN	C	01	1
1376.	5/15/73	OMAHA ,NB	ORGAN-PHOSP	BP	2E0K	0	0	1	13E1	RP-NT	CONTR FLRE	WET PACKNG		BGS/CTN	C	02	1
1377.	5/16/73	LUFKIN ,TX	VINYL-CHLOR	FL	12E4L	0	0	6	0E9	RP-TK	DRLM&CVRTN			TK CR RR	0	02	2
1378.	5/17/73	99 ,CA	INSECTICIDE	BP	4ECL	0	0	99	0E9	RP-NT	CONTR FLRE	DROPPED		GBTL/CTN	0	02	1
1379.	5/17/73	BALTIMOR,MD	NITRIC-ACID	CL	27E1L	0	0	4	0E9	RP-NT	CONTR FLRE	DROPPED		STL DRUM	0	01	1
1380.	5/17/73	ETOWAH ,TN	SULFURIC-AC	CL	58E2L	0	0	3	0E9	OTHER	UNKNCWN				0	03	2
1381.	5/18/73	ROCK-MRT,CA	ACRYLONITRI	FL	90E2K	0	0	8	10E3	RP-TK	VALVE BKN	DRLM&OVRTN		TK CR RR	0	02	1
1382.	5/18/73	BRISTOL ,UA	MAGNUS-755	FL	19E2L	0	0	99	0E9	OTHER	UNKNOWN				0	04	2
1383.	5/20/73	POCATELD, ID	INSECTICIDE	BP	30E1L	0	0	99	10E1	RP-NT	BODY FLRE			STL DRUM	0	02	1
1384.	5/21/73	OAKLAND ,CA	ARS-MIXTURE	BP	2E0L	0	0	1	0E9	RP-NT	CONTR FLRE	MTRL DFCT		STL DRUM	0	02	1
1385.	5/22/73	WARWICK ,PA	NITROGEN-LI	UN	6CE2L	0	0	99	0E9	RP-TK	CONTR FLRE	OVRTURN		TK TRLR	C	02	2
1386.	5/22/73	ROCKMART,CA	ACRYLONITRI	FL	0E0U	0	0	99	0E9	OTHER	DRLMENT			TK CR RR	0	02	2
1387.	5/23/73	CALLAS ,TX	BROMINE	CL	24E0K	0	0	1	26E0	RP-NT	CONTR FLRE	DROPPED		GBTL/CTN	0	51	1
1388.	5/23/73	MENTOR ,OH	CHLOROSULFO	CL	85E3K	0	0	6	90E2	RP-TK	LKG CVR	DRLMENT		TK CR RR	0	02	1
1389.	5/25/73	MOBILE ,AL	PHENOL	BP	2E0K	0	0	1	70E0	RP-NT	CONTR FLRE	UNKNCWN		PLSTC BT	0	02	1
1390.	5/25/73	ALIIQUIPA,PA	SULFURIC-AC	CL	76E3L	0	0	6	0E9	RP-TK	CONTR FLRE	UNKNOWN		STO TANK	03E1	2	
1391.	5/27/73	MORGAN-C,LA	BENZENE	FL	57E2L	0	0	2	0E9	RP-TK	SHRP OBJ	COLLSN		BARGE TK	0	02	2
1392.	5/29/73	SYRACUSE,NY	DINITRO-PHE	BP	19E0L	0	0	1	20E0	RP-NT	SHRP OBJ			STL PAIL	0	02	1
1393.	5/29/73	ALIIQUIPA,PA	SULFURIC-AC	CL	38E3L	0	0	5	0E9	RP-TK	CONTR FLRE	UNKNOWN		STO TANK	03E1	2	
1394.	5/29/73	ALIIQUIPA,PA	SULFURIC-AC	CL	38E3L	0	0	5	0E9	RP-TK	CONTR FLRE	UNKNOWN		STO TANK	0	03	2
1395.	5/30/73	99 ,WV	FLAM-LIQ-UN	FL	95E1L	0	0	8	30E1	RP-TK	VALVE BKN	PRNSLL ERR		TK TRLR	0	01	1
1396.	5/30/73	UNION ,CT	OLEUM	CL	11E2L	0	0	1	50E1	TS FL	HSE,CPL FA			TK TRLR	0	21	1
1397.	5/31/73	MISHAWAK,IN	PHENOL	BP	38E0L	0	1	1	0E9	OVRFW	IMP LCG	PRNSLL ERR		TK TRLR	0	51	1
1398.	5/31/73	LITTLFAL,NY	CAUS-SODA	CL	57E0L	1	0	1	50E0	RP-NT	CONTR FLRE	UNKNOWN		STL DRUM	0	02	1
1399.	6/ 1/73	DUMFRIES,VA	AMM-NITRATE	OX	20E3K	0	0	99	20E2	RP-TK	CONTR FLRE	OVRTURN		TK TRLR	0	02	1
1400.	6/ 3/73	MARATHON,TX	CARBOLIC-AC	BP	19E3L	0	0	9	30E2	RP-TK	SHRP OBJ	COLLSN		TK CR RR	0	02	1
1401.	6/ 3/73	E LNSDWN,PA	INK	FL	21E3L	0	0	99	0E0	RP-NT	EXPLOSION	FIRE	VANDALISM	STL DRUM	0	03	3
1402.	6/ 4/73	LOGAN ,NM	PHOSPHENE-O	BP	38E0L	0	0	99	0E9	RP-NT	FORKLIFT	PRNSLL ERR		STL DRUM	0	01	1
1403.	6/ 5/73	BROWLEY ,CA	ORGAN-PHOSP	BP	4E0L	0	0	1	60E1	RP-NT	MTRL DFCT			STL DRUM	0	02	1
1404.	6/ 6/73	POKEGAMA,WI	SOD-NITRATE	OX	55E3K	0	0	8	0E9	RP-TK	SHRP OBJ	DRLMENT		BK CR RR	0	02	1
1405.	6/ 6/73	CHAPEL-H,NC	MULTIPLE	UN	15E3L	0	0	4	0E9	OTHER	UNKNOWN				2	04	2
1406.	6/ 6/73	CHAPEL-H,NC	ALUM	UN	15E3L	0	0	4	0E9	OTHER	UNKNOWN				1	04	2
1407.	6/ 6/73	CHAPEL-F,NC	IRON-SULFAT	UN	15E3L	0	0	4	0E9	OTHER	UNKNOWN				1	04	2
1408.	6/ 8/73	WILMNGTN,DE	METH-ETYL-K	FL	4E0L	0	0	1	0E9	RP-TK	LSE CP,CVR			TK TRLR	0	02	2
1409.	6/11/73	BRISTOL ,UA	MAGNUS-755	FL	19E2L	0	0	3	0E9	OTHER	PRNSLL ERR				0	03	2
1410.	6/11/73	CLEVELND,TN	SULFURIC-AC	CL	1E1L	0	0	1	0E9	RP-TK	LSE CP,CVR			TK TRLR	0	02	2
1411.	6/12/73	SNOWY-CR,VA	STYPOL	UN	19E3L	0	0	99	0E9	RP-TK	CONTR FLRE	OVRTURN		TK TRLR	0	02	2
1412.	6/12/73	IRON-CRE,TX	MULTIPLE	FL	37E3L	0	0	10	0E9	RP-TK	DRLM&OVRTN	UNKNOWN		TK CR RR	2	02	2
1413.	6/12/73	99 ,VA	AMM-NITRATE	OX	1E2K	0	0	99	0E9	RP-TK	CONTR FLRE	COLLSN		BK TRLR	0	02	2
1414.	6/12/73	IRON-CRE,TX	MOLASSES	UN	0E0U	0	0	10	0E9	RP-TK	DRLM&OVRTN	UNKNOWN		TK CR RR	1	02	2
1415.	6/12/73	ORANGE ,TX	CYCLOHEXANE	FL	76E1L	0	0	2	0E9	TS FL	UNKNOWN				0	01	2
1416.	6/12/73	IRON-CRE,TX	TOLUENE	FL	37E3L	0	0	10	0E9	RP-TK	DRLM&OVRTN	UNKNOWN		TK CR RR	1	02	2
1417.	6/13/73	BEDFORD ,CH	SODIUM-HYDX	CM	13E1L	0	0	1	15E0	TS FL	HSE,CPL FA			TK TRLR	0	21	1
1418.	6/13/73	KINGSPRT,TN	DOW-THERM	BP	57E1L	0	0	2	0E9	OTHER	UNKNOWN				0	00	2

1419.	6/13/73	FREEPORT, TX	CYANO-PYRID	CL	57E3L	0	0	99	0E9	RP-TK	VALVE BKN		STO TANK	0	03	2	
1420.	6/13/73	PORTALES, NM	PARA-FORMAL	FL	57E1K	0	0	2	0E9	RP-TK	UNKNOWN	OVRTURN	BK TRLR	0	02	2	
1421.	6/13/73	GEISMER, LA	PHOSPH-ACID	CL	0E0U	0	0	99	0E9	TS FL	UNKNOWN			0	01	2	
1422.	6/13/73	THOMASTN, GA	ASPHALT	UN	0E0U	0	0	99	0E9	OTHER	UNKNOWN			0	02	2	
1423.	6/13/73	LOGAN, NM	PHOSPHENE-O	BP	26E1K	3	0	99	0E9	RP-TK	CONTR FLRE	UNKNOWN	BK TRLR	0	02	2	
1424.	6/14/73	LOS-ANGL, CA	INSECTICIDE	BP	4E0L	0	0	99	0E9	RP-NT	SHRP OBJ	UNKNOWN	STL PAIL	0	01	1	
1425.	6/14/73	HAMPTON, SC	NAPHTHALITE	FL	95ECL	0	0	1	0E9	RP-TK	CCLLSN		TK TRLR	0	02	2	
1426.	6/15/73	TULSA, OK	POT-CYANIDE	BP	38E2L	0	0	10	0E9	RP-TK	MTRL CFCT		STO TANK	0	03	2	
1427.	6/15/73	HENRIETA, OK	CHROMATES	BP	10E5L	0	0	10	0E9	QVRFW	INFL REL	VANDALISM	STO TANK	0	06	2	
1428.	6/17/73	BELVIDER, IL	CAUS-POTASH	CL	3E0K	0	0	1	0E9	RP-NT	CONTR FLRE	OVRTURN	STL DRUM	0	02	1	
1429.	6/18/73	PORTLAND, OR	ORGAN-PHOSP	BP	1ECL	0	0	1	50E1	RP-NT	CONTR FLRE	IMP LCG		0	02	1	
1430.	6/18/73	SECAUCUS, NJ	HYDROGEN-PE	CL	21E1L	0	0	3	80E0	RP-NT	SHRP OBJ	UNKNOWN	55 G DRM	0	01	1	
1431.	6/18/73	COLUMBUS, OH	MURIATIC-AC	CL	3E2L	0	0	3	12E2	OTHER	UNKNOWN		SS CRBY	0	01	1	
1432.	6/18/73	LELAND, NC	METHANOL	FL	60E2L	0	0	2	0E9	RP-TK	VALVE BKN			0	03	2	
1433.	6/19/73	CLEVELAND, OH	SODIUM-CYND	BP	0E0U	0	0	99	0E9	RP-NT	LSE CP, CVR	UNKNOWN	STL DRUM	0	02	1	
1434.	6/19/73	SANGER, CA	INSECTICIDE	BP	1E0K	0	0	99	0E9	RP-NT	FGRKLIFT	PRNSLL ERR	BGS/CTN	0	51	1	
1435.	6/21/73	PORTSMTH, VA	ANH-AMMONIA	UN	0E0U	2	0	99	0E9	TS FL	HSE, CPL FA		GA CYLDR	0451	2		
1436.	6/21/73	99, 99	ANH-AMMONIA	UN	0E0U	20	0	99	0E9	TS FL	HSE, CPL FA			0411	2		
1437.	7/ 6/73	SAVANAH, GA	TALLOW	UN	11E4L	0	0	99	0E9	RP-TK	UNKNOWN		SHIP	0	00	2	
1438.	7/13/73	MARTINEZ, CA	SULFURIC-AC	CL	76E3L	0	0	6	0E9	TS FL	HSE, CPL FA			0	01	2	
1439.	8/14/73	PORTLAND, OR	ANILINE-OIL	BP	3E0K	0	0	1	50E0	RP-NT	CONTR FLRE	UNKNOWN		0	02	1	
1440.	8/14/73	SPRING-R, AR	METH-CHLORI	UN	0E0U	0	0	99	0E9	RP-NT	CONTR FLRE	DRLMENT	PBTL/CTN	0	82	2	
1441.	10/24/73	CHICAGO, IL	GRAPE JUICE	UN	15E4L	0	0	99	52E3	RP-TK	VALVE BKN	OVRTURN	MECH FAIL	TK TRLR	0	03	3

APPENDIX G HAZARDOUS MATERIAL SPILLS BY MATERIAL

EPA SPILL STJDY

DATE	LOCATION	MATERIAL	CLASS	DMG\$	CAUSE	2ND CAUSE	3RD CAUSE	4TH CAUSE	CONTAINER	M

ACETALDEHYDE SPILLS---SYN---ALCOHOL ALDEHYDE

DATE	LOCATION	MATERIAL	CLASS	DMG\$	CAUSE	2ND CAUSE	3RD CAUSE	4TH CAUSE	CONTAINER	M
1. 5/24/71	COSGROVE,MO	ACETALDEHYD	FL 17E3L	0 0 9	17E2	RP-TK	RLF VAL OP	UNKNOWN	TK CR RR	0 02 1
2. 5/ 8/73	LENDIR-C,NC	ALC-ALDEHYD	FL 34E3L	0 0 10	0E9	OVRFW	OPN VALVE	VANDALISM	STO TANK	0 03 2

ACETIC ACID SPILLS

DATE	LOCATION	MATERIAL	CLASS	DMG\$	CAUSE	2ND CAUSE	3RD CAUSE	4TH CAUSE	CONTAINER	M
1. 1/30/72	NEWTOWN ,PA	ACETIC-ACID	CL 0E0U	0 0 99	0E9	OTHER	PRNSLL ERR	FIRE		4 03 3

ACETIC ACID, ISOPROPYL ESTER SPILLS---SYN---ISOPROPYL ACETATE

DATE	LOCATION	MATERIAL	CLASS	DMG\$	CAUSE	2ND CAUSE	3RD CAUSE	4TH CAUSE	CONTAINER	M
1. 9/13/72	WAVERLY ,PA	ISOPRO-ACET	FL 20E1L	0 0 1	0E9	RP-TK	VALVE BKN	UNKNOWN	TK TRLR	0362 1

ACETONE SPILLS

DATE	LOCATION	MATERIAL	CLASS	Q U A N T I T Y	F A T N J U R I E S	I N J U R I E S	A L L I E S	H A Z A R D	P R I M A R Y	DMG\$	CAUSE	2ND CAUSE	3RD CAUSE	4TH CAUSE	CONTAINER	M
1. 1/ 1/68	DUPEITH ,IN	ACETONE	FL	0E0U	5	0	99	0E0	RP-TK	DRLMENT					TK CR RR	0 02 9
2. 10/19/71	HJUSTON ,TX	ACETONE	FL	0E0U	50	1	7	0E9	RP-TK	SHRP OBJ	DRLMENT				TK CR RR	1 0211
3. 5/ 8/72	CORAPOLS,PA	ACETONE	FL	11E1L	0	0	1	12E0	RP-TK	VALVE BKN					TK TRLR	0 01 1
4. 9/23/72	WLMNGTON,DE	ACETONE	FL	0E0U	0	0	99	0E0	RP-NT	EXPLOSION	FIRE	VANDALISM		STL DRUM	0 03 3	
5. 10/ 4/72	BUFFALO ,NY	ACETONE	FL	2E0K	0	0	1	0E9	QVRFW	CONTR FLRE	CHMGAL RE			GLS BTLS	0 04 3	
6. 12/13/72	BALTIMOR,MD	ACETONE	FL	95E1L	0	0	2	0E9	RP-TK	BODY FLRE	DECTV WFLD			TK TRLR	0 00 6	
7. 1/25/73	STITIS ,KY	ACFTONE	FL	52E3L	0	0	8	0E9	RP-TK	DRLMENT	UNKNOWN			TK CR RR	0 02 1	
8. 3/ 7/73	ENOLA ,PA	ACETONE	FL	28E2L	0	0	4	25E1	RP-TK	VALVE BKN	DRLM&OVRTN			TK CR RR	0 02 1	

ACETONITRILE SPILLS

DATE	LOCATION	MATERIAL	CLASS	Q U A N T I T Y	F A T N J U R I E S	I N J U R I E S	A L L I E S	H A Z A R D	P R I M A R Y	DMG\$	CAUSE	2ND CAUSE	3RD CAUSE	4TH CAUSE	CONTAINER	M
1. 1/25/72	PHILADEL,PA	ACETONITRIL	FL	10E1L	0	0	1	15E1	RP-NT	CONTR FLRE	IMP LDG				STL DRUM	0 01 1

ACETYLENE TETRACHLORIDE SPILLS

DATE	LOCATION	MATERIAL	CLASS	Q U A N T I T Y	F A T N J U R I E S	I N J U R I E S	A L L I E S	H A Z A R D	P R I M A R Y	DMG\$	CAUSE	2ND CAUSE	3RD CAUSE	4TH CAUSE	CONTAINER	M
1. 8/ 9/71	WINSTON ,NC	ACFTYLEN-TE	BP	4E0L	0	0	1	0E9	RP-NT	UNKNOWN					GLS BTLS	0 01 1

ACROLEIN INHIB. SPILLS---SYN.--ACROLEIN

				F					
				A					
			I	T		P			
Q		N	A			R			O
U		J	L	H		I			P S
A		U	I	A		M			O
N		R	T	Z		A			EA U
I		I	I	A		R			QR R
T		E	E	R		Y			UE C
Y		S	S	D					PA E

DATE	LOCATION	MATERIAL	CLASS			DWG\$	CAUSE	2ND CAUSE	3RD CAUSE	4TH CAUSE	CONTAINER	M
1. 3/15/71	NEW-ORLN,LA	ACROLEIN-IN	CL 21E1L 20	0	0	3	0E9 RP-NT	CONTR FLRE	OPDPPED		STL DRUM	0411 1

ACRYLONITRILE SPILLS

				F					
				A					
			I	T		P			
Q		N	A			R			O
U		J	L	H		I			P S
A		U	I	A		M			O
N		R	T	Z		A			EA U
I		I	I	A		R			QR R
T		E	E	R		Y			UE C
Y		S	S	D					PA E

DATE	LOCATION	MATERIAL	CLASS			DWG\$	CAUSE	2ND CAUSE	3RD CAUSE	4TH CAUSE	CONTAINER	M
1. 8/20/71	HUNTINGT,OH	ACRYLONITRI	FL 12F4K	0	0	10	45E3 RP-TK	SHRP OBJ	DRLEMENT		TK CR RR	0 02 1
2. 1/ 9/72	TENN-RIV,TN	ACRYLONITRI	FL 13E1L	0	0	3	0E9 OTHER	UNKNOWN			BARGE TK	0 02 2
3. 9/25/72	NEWARK ,NJ	ACRYLONITRI	FL 38F1L	0	0	99	0E9 TS FL	HSE,CPL FA	MTRL DFCT		TK TRLR	0 01 1
4.10/ 8/72	NASHVILLE,TN	ACRYLONITRI	FL 13E1L	0	0	2	0E9 RP-TK	CONTR FLRE	COLLSN		BARGE TK	0 02 6
5. 5/18/73	ROCK-MRT,GA	ACRYLONITRI	FL 90E2K	0	0	9	10E3 RP-TK	VALVE BKN	DRLEM&OVRTN		TK CR RR	0 02 1
6. 5/22/73	ROCKMART,GA	ACRYLONITRI	FL 0F0U	0	0	99	0E9 OTHER	DRLEMENT			TK CR RR	0 02 2

ADIPIC ACID SPILLS

				F					
				A					
			I	T		P			
Q		N	A			R			O
U		J	L	H		I			P S
A		U	I	A		M			O
N		R	T	Z		A			EA U
I		I	I	A		R			QR R
T		E	E	R		Y			UE C
Y		S	S	D					PA E

DATE	LOCATION	MATERIAL	CLASS			DWG\$	CAUSE	2ND CAUSE	3RD CAUSE	4TH CAUSE	CONTAINER	M
1.12/22/72	KINGSPTT,TN	ADIPIC-ACID	CL 40E2K	0	0	1	0E9 OTHER	UNKNOWN				0 06 2
2. 2/21/73	TAFT ,LA	ADIPIC-ACID	CL 0E0U	0	0	99	0E9 RP-TK	CONTR FLRE	COLLSN		TK CR RR	1 02 6

ALCOHOL, ALLYL SPILLS

DATE	LOCATION	MATERIAL	CLASS	Q U A N T I T Y	F A T I N J U R I E S	A L L H A Z A R D S	P R I M A R Y	D M G \$	CAUSE	2ND CAUSE	3RD CAUSE	4TH CAUSE	CONTAINER	M	O P S O E A U Q R R U E C P A E
1. 6/28/71	S-KEARNY, NJ	ALC-ALLYL	BP 18E1K	0	0	3	0E9 RP-NT	MTRL DFCT					STL DRUM	0	02 1

ALCOHOL, DENATURED SPILLS

DATE	LOCATION	MATERIAL	CLASS	Q U A N T I T Y	F A T I N J U R I E S	A L L H A Z A R D S	P R I M A R Y	D M G \$	CAUSE	2ND CAUSE	3RD CAUSE	4TH CAUSE	CONTAINER	M	O P S O E A U Q R R U E C P A E
1. 7/14/72	KNOXVILLE, TN	ALC-DENATUR	FL 38E3L	0	0	5	1E3 OVRFW	UNKNOWN			UNKNOWN		TK CR RR	0	01 1

ALCOHOL, ETHYL SPILLS

DATE	LOCATION	MATERIAL	CLASS	Q U A N T I T Y	F A T I N J U R I E S	A L L H A Z A R D S	P R I M A R Y	D M G \$	CAUSE	2ND CAUSE	3RD CAUSE	4TH CAUSE	CONTAINER	M	O P S O E A U Q R R U E C P A E
1. 12/28/72	JAMEVILLE, MA	ALC-ETHYL	FL 23E4K	0	0	6	5E3 PP-TK	DRLM&OVRTN	VALVE BKN				TK CR RR	0	02 1
2. 1/ 8/73	SPARLAND, IL	ALC-ETHYL	FL 19E4L	0	0	6	15E3 RP-TK	CONTR FLRE	DRLM&OVRTN	UNKNOWN			TK CP RR	0	02 1

ALCOHOL, ISOPROPYL SPILLS---SYN---ISOPROPANOL

DATE	LOCATION	MATERIAL	CLASS	Q U A N T I T Y	F A T A L I T Y	D M G \$	CAUSE	2ND CAUSE	3RD CAUSE	4TH CAUSE	CONTAINER	M
1. 1/ 3/73	S-CHARLS,WV	ISOPROPANOL	FL 11EOL	0 0 1	0E9	RP-TK	LSE CP,CVR	PRNSLL ERR			BARGE TK	0 01 2
2. 9/ 8/72	MIDLAND ,MI	ISOPROPANOL	FL 19E1L	0 0 1	2E0	TS FL	HSE,CPL FA	BRAKE FLRE			TK TRLR	0 01 1
3. 7/ 9/70	LONG-ISL,NY	ALC-ISOPROP	FL 0E0U	0 0 99	0E9	OVRFW	DROPPED	PRNSLL ERR				0 04 3
4. 3/ 3/71	HAZEN ,AP	ALC-ISOPROP	FL 12E3L	0 0 2	25E3	RP-TK	SHRP OBJ	COLLSN		RDWY COND	TK TRLR	0 02 1
5. 1/30/73	TULLY ,NY	ALC-ISOPROP	FL 24E3L	0 0 3	30E2	RP-TK	SHRP OBJ	CLS&OVRTN			TK TRLR	0 02 1

ALCOHOL,METHYL SPILLS---SYN---METHANOL

DATE	LOCATION	MATERIAL	CLASS	Q U A N T I T Y	F A T A L I T Y	D M G \$	CAUSE	2ND CAUSE	3RD CAUSE	4TH CAUSE	CONTAINER	M
1. 2/10/71	CHICAGO ,IL	ALC-METHYL	FL 27E4L	0 0 8	20E3	RP-TK	CONTR FLRE	DRLMENT			TK CR RR	1 02 1
2. 2/ 4/73	LOWLAND ,TN	ALC-METHYL	FL 76E2L	0 0 1	25E0	OVRFW	PRNSLL ERR				STD TANK	0 41 1
3. 2/24/73	KREMLIN ,OK	ALC-METHYL	FL 75E3L	0 0 6	33E3	RP-TK	DRLMENT	UNKNOWN			TK CR RR	0 02 1
4. 3/25/73	HARLEM ,TX	ALC-METHYL	FL 57E2L	0 0 3	19E2	RP-TK	SHRP OBJ	DRLMENT		UNKNOWN	TK CR RR	0 02 1
5. 4/23/73	MCNARY ,TX	ALC-METHYL	FL 0E0U	0 0 99	0E9	RP-TK	CONTR FLRE	DRLM&OVRTN			TK CR RR	0 02 2
6. 5/ 2/73	GEISMAR ,LA	ALC-METHYL	FL 95E1L	0 0 1	33E0	RP-TK	LKG CVR	DRLMENT		RDWY COND	TK CR RR	0 02 1
7. 9/ 2/71	ETONTOWN,NJ	METHANOL	FL 4EOL	0 0 1	0E0	RP-NT	DROPPED	PRNSLL ERR		FIRE	PLSTC DR	0 03 3
9. 2/24/72	KREMLIN ,OK	METHANOL	FL 75E3L	0 0 6	0E9	RP-TK	UNKNOWN	DRLMENT			TK CR RR	0 02 6
9. 6/15/72	HOUSTON ,TX	METHANOL	FL 11E2L	2 0 1	1E0	RP-NT	EXPLOSION	CHMCAL RE		FORGN SUBS	STL DRUM	2 04 3
10. 7/10/72	WRIGHTS ,IL	METHANOL	FL 20E3K	0 0 4	0E9	RP-TK	DRLMENT				TK CR RR	0 02 1
11.11/20/72	STOCKHAM ,AZ	METHANOL	FL 80E3L	0 0 6	36E2	RP-TK	SHRP OBJ	DRLMENT		MTRL DFCT	TK CR RR	0 02 1
12.12/ 2/72	LOWLAND ,TN	METHANOL	FL 57E2L	0 0 3	20E1	RP-TK	LSE CP,CVR	MTRL DFCT			TK TRLR	0 02 1
13. 0/ 0/73	KANAWHAR,WV	METHANOL	FL 30E3L	0 0 5	0E9	OTHER	PRNSLL ERR					0 03 2
14. 2/ 9/73	SAN-ANTO,TX	METHANOL	FL 11E3L	0 0 3	50E1	RP-TK	CONTR FLRE	UNKNOWN			TK CR RR	0 02 1
15. 2/20/73	LOGAN ,ND	METHANOL	FL 15E2L	0 0 1	50E0	RP-TK	CONTR FLRE	DRLMENT			TK CR RR	0 02 1
16. 2/20/73	LOGAN ,ND	METHANOL	FL 11E4L	0 0 6	40E2	RP-TK	CONTR FLRE	DRLMENT			TK CR RR	0 02 1
17. 6/18/73	LELAND ,NC	METHANOL	FL 60E2L	0 0 2	0E9	RP-TK	VALVE BKN					0 03 2

ALCOHOL SPILLS

DATE	LOCATION	MATERIAL	CLASS	Q U A N T I T Y	F A T I N J U R I S S	A L L I E S D	H A Z A R D	P R I M A R Y	D M G \$	C A U S E	2ND CAUSE	3RD CAUSE	4TH CAUSE	CONTAINER	M
1. 7/ 3/72	WOLCOTT ,IN	ALCOHOL-UNS	FL	76E3L	0	0	6	20E3	RP-TK	DRLMENT	SHRP OBJ	RDWY CONDS	TK CR RR	0	02 1
2. 2/ 7/71	UMLI ,OR	ALCOHOL-UNS	FL	15E3L	0	0	4	14E3	RP-TK	LKG CVR	DRLMENT	TK TRLR	0	02 1	
3. 5/20/72	PITTSBGG,PA	ALCOHOL-UNS	FL	8E0L	0	0	1	0E9	TS FL	UNKNOWN				0	01 6

ALDACIDE SPILLS

DATE	LOCATION	MATERIAL	CLASS	Q U A N T I T Y	F A T I N J U R I S S	A L L I E S D	H A Z A R D	P R I M A R Y	D M G \$	C A U S E	2ND CAUSE	3RD CAUSE	4TH CAUSE	CONTAINER	M	
1. 6/ 3/71	OKLAHOMA,OK	ALDACIDE	BP	36EOK	0	0	99	0E9	OTHER	UNKNOWN				PA BAG	0	02 1

ALLYL CHLORIDE SPILLS

DATE	LOCATION	MATERIAL	CLASS	Q U A N T I T Y	F A T I N J U R I S S	A L L I E S D	H A Z A R D	P R I M A R Y	D M G \$	C A U S E	2ND CAUSE	3RD CAUSE	4TH CAUSE	CONTAINER	M
1. 1/14/72	LEMOJT ,IL	ALLYL-CHLOR	FL	10E1K	0	0	1	18E0	RP-TK	CONTR FLRE	BODY FLRF	UNKNOWN	TK TRLR	0	02 1

ALPHA MONOCHLOROPRIONIC ACID SPILLS

DATE	LOCATION	MATERIAL	CLASS	Q U A N T I T Y	F A T I N J U R I E S	H A Z A R D S	P R I M A R Y	O P S O U R C E P A E
1. 1/21/72	MIDLAND ,MI	ALPHA-MONOC	CL 34E2L	2	0	4	DMG\$ CAUSE 2ND CAUSE 3RD CAUSE 4TH CAUSE CONTAINER M	12E2 OVRFW GSKT FAIL OPN VALVE PRNSLL ERR TK TRLR 0 51 1

ALUM SPILLS

DATE	LOCATION	MATERIAL	CLASS	Q U A N T I T Y	F A T I N J U R I E S	H A Z A R D S	P R I M A R Y	O P S O U R C E P A E
1. 6/ 6/73	CHAPEL-H,NC	ALUM	UN 15E3L	0	0	4	DMG\$ CAUSE 2ND CAUSE 3RD CAUSE 4TH CAUSE CONTAINER M	0E9 OTHER UNKNOWN 1 04 2

AMINO ETHYL ETHANOLAMINE SPILLS

DATE	LOCATION	MATERIAL	CLASS	Q U A N T I T Y	F A T I N J U R I E S	H A Z A R D S	P R I M A R Y	O P S O U R C E P A E
1. 4/26/73	PULASKI ,VA	AMINO-ETHYL	FL 76E2L	0	0	6	DMG\$ CAUSE 2ND CAUSE 3RD CAUSE 4TH CAUSE CONTAINER M	0E9 RP-TK COLLN TK TRLR 1 02 2

AMMONIA SPILLS---ANHYDROUS

DATE	LOCATION	MATERIAL	CLASS	Q U A N T I T Y	F A T I N J U R I E S	H A Z A R D S	P R I M A R Y	O P S O U R C E P A E
1. 2/18/69	CRETE ,NB	ANH-AMMONIA	UN 0EOU	5	0	99	DMG\$ CAUSE 2ND CAUSE 3RD CAUSE 4TH CAUSE CONTAINER M	0E0 RP-TK ORLMENT TK CR RR 0302 9
2. 8/ 7/69	SOLOMON ,KA	ANH-AMMONIA	UN 15E4L	0	0	9	25E0 OVRFW RPTD PIPE STRK BY V	PIPES 0 02 7
3. 9/ 7/69	FARNSWTH,TX	ANH-AMMONIA	UN 16E4L	0	0	10	75E0 OVRFW RPTD PIPE STRK BY V	PIPES 0 02 7

4.	5/ 4/70	MARKSVLE,VA	ANH-AMMONIA	UN	OE0U	0	0	99	10E2	OVRFW	VALVE BKN					PIPES	0	02	7
5.	7/24/70	SAUNDERS,NB	ANH-AMMONIA	UN	76E0L	2	0	1	0E9	OVRFW	PRNSLL ERR					PIPES	0	02	7
6.	10/ 3/70	PLATTE-C,MO	ANH-AMMONIA	UN	10E5L	0	0	10	0E9	OVRFW	RPTRD PIPE	STRK BY V				PIPES	0	02	7
7.	1/ 8/71	NEW-CAMB,MO	ANH-AMMONIA	UN	11E4L	0	0	9	50E4	RP-TK	DRLMENT					TK CR RR	0	02	1
8.	1/10/71	AURORA ,NB	ANH-AMMONIA	UN	16E2L	1	0	3	0E9	OVRFW	HSE,CPL FA	PRNSLL ERR				PIPES	0	02	7
9.	1/29/71	TECUMSH,IN	ANH-AMMONIA	UN	48E4L	0	0	10	0E9	OVRFW	RPTRD PIPE	STRK BY V				PIPES	0	02	7
10.	2/ 5/71	PLAINVIW,TX	ANH-AMMONIA	UN	78E2L	1	0	5	70E2	RP-TK	SHRP OBJ	OVRTURN				TK TRLR	0	02	1
11.	2/ 5/71	MASON-CI,IA	ANH-AMMONIA	UN	21E1L	0	0	1	0E9	OVRFW	OPN VALVE	PRNSLL ERR				TK CR RR	0	01	1
12.	4/10/71	HECTOR ,MN	ANH-AMMONIA	UN	40E3L	0	0	7	80E1	TS FL	HSE,CPL FA					TK TRLR	0	01	1
13.	6/ 5/71	FLORAL ,AR	ANH-AMMONIA	UN	OE0U	0	0	99	0E9	OVRFW	STRK BY V					PIPES	0	02	7
14.	8/ 4/71	SELDEN ,KA	ANH-AMMONIA	UN	45E2	0	0	99	20E1	RP-TK	VALVE BKN	CLS&OVRTN				TK TRLR	0362	1	
15.	9/28/71	99	ANH-AMMONIA	UN	OE0U	0	0	99	0E9	RP-TK	LSE CP,CVR					STO TANK	0	01	2
16.	9/29/71	BERNIC ,LA	ANH-AMMONIA	UN	64E2L	0	0	5	60E2	OVRFW	VALVE BKN					PIPES	0	02	7
17.	6/26/72	GR EFLEY ,CO	ANH-AMMONIA	UN	OE0U	0	0	99	0E9	OTHER	INTNL REL	NMRL OP				TRENCH	0	00	6
18.	4/17/73	WELCH ,TX	ANH-AMMONIA	UN	50E2K	0	0	4	0E9	RP-TK	RLF VAL OP	UNKNOWN				TK TRLR	0	01	1
19.	6/21/73	99	ANH-AMMONIA	UN	OE0U	20	0	99	0E9	TS FL	HSE,CPL FA						0411	2	
20.	6/21/73	PORTSMTH,VA	ANH-AMMONIA	UN	OE0U	2	0	99	0E9	TS FL	HSE,CPL FA					GA CYLDR	0451	2	

AMMONIA SPILLS---SYN.-- AQUA AMMONIA

DATE	LOCATION	MATERIAL	CLASS	Q	U	A	N	I	T	F	A	P	R	O	S	D	DMG\$	CAUSE	2ND CAUSE	3RD CAUSE	4TH CAUSE	CONTAINER	M			
1.	4/ 8/72	PORTLAND,OR	AQUA-AMMONI	CL	45E1K	0	0	1	0E9	TS FL	HSE,CPL FA												0	00	3	
2.	10/11/72	W PM BCH,FL	AQUA AMMONI	BP	20E1L	0	0	1	10E1	RP-NT	SHRP OBJ												CDBD DRM	0	01	1
3.	7/28/72	OIL-CITY,PA	AQUA-AMMONI	CL	OE0U	0	0	99	0E9	OVRFW	INTNL REL	PRNSLL ERR											STL DRUM	0	04	6

AMMONIUM NITRATE FERT. SPILLS

DATE	LOCATION	MATERIAL	CLASS	Q	U	A	N	I	T	F	A	P	R	O	S	D	DMG\$	CAUSE	2ND CAUSE	3RD CAUSE	4TH CAUSE	CONTAINER	M			
1.	5/ 1/70	CL CREEK,WV	AMM-NITRATE	OX	OE0U	0	0	99	0E0	RP-NT	FIRE												TK TRLR	0	02	3
2.	3/17/71	SUNSET ,LA	AMM-NITRATE	OX	95E1K	0	0	99	28E0	RP-NT	SHRP OBJ												PA BAG	0	02	1
3.	3/18/71	OPELOUSA,LA	AMM-NITRATE	OX	11E3K	0	0	99	35E0	RP-NT	SHRP OBJ												PA BAG	0	02	1
4.	3/22/71	THIBODUX,LA	AMM-NITRATE	OX	13E2K	0	0	99	12E1	RP-NT	SHRP OBJ												PA BAG	0	02	1
5.	11/26/71	OPELOUSA,LA	AMM-NITRATE	OX	14E2K	0	0	99	85E0	RP-NT	SHRP OBJ												PA BAG	0	02	1
6.	12/13/71	OPELOUSA,LA	AMM-NITRATE	OX	89E1K	0	0	99	0E9	RP-NT	SHRP OBJ												PA BAG	0	02	1
7.	12/20/71	OPELOUSA,LA	AMM-NITRATE	OX	15E2K	0	0	99	86E0	RP-NT	SHRP OBJ												PLSTC BG	0	02	1
8.	12/22/71	SAN-FRIS,CA	AMM-NITRATE	OX	45E1K	0	0	99	40E0	RP-NT	SHRP OBJ												PLSTC BG	0	02	1
9.	1/10/72	LASALJCT,UT	AMM-NITRATE	OX	24E3	0	1	99	25E3	RP-TK	CLS&OVRTN												TK TRLR	0	02	1
10.	1/13/72	COLUMBUS,TX	AMM-NITRATE	OX	11E2K	0	0	99	10E1	RP-NT	SHRP OBJ												PLSTC BG	0	02	1
11.	1/13/72	THIBODAX,LA	AMM-NITRATE	OX	91E1K	0	0	99	80E0	RP-NT	SHRP OBJ												PA BAG	0	02	1
12.	1/14/72	THIBODAX,LA	AMM-NITRATE	OX	13E3K	0	0	99	11E1	RP-NT	SHRP OBJ												PA BAG	0	02	1

13.	1/18/72	SUNSET ,LA	AMM-NITRATE	OX 95E1K	0	0 99	27E0	RP-NT	SHRP OBJ	IMP LDG	PA BAG	0 02 1
14.	1/24/72	OPELOUSA,LA	AMM-NITRATE	OX 45E1K	0	0 99	30E0	RP-NT	SHRP OBJ	IMP LDG	PA BAG	0 02 1
15.	2/ 3/72	APRJOYD ,TX	AMM-NITRATE	OX 30E1K	0	0 99	25E0	RP-NT	SHRP OBJ	IMP LDG	PA BAG	0 02 1
16.	2/ 6/72	ALEXANDR,LA	AMM-NITRATE	OX 79E1K	0	0 99	70E0	RP-NT	SHRP OBJ	IMP LDG	PLSTC BG	0 02 1
17.	2/10/72	SUNSET ,LA	AMM-NITRATE	OX 70E1K	0	0 99	45E0	RP-NT	SHRP OBJ	IMP LDG	PA BAG	0 02 1
18.	2/16/72	OPELOUSA,LA	AMM-NITRATE	OX 15E2K	0	0 99	13E1	RP-NT	SHRP OBJ	IMP LDG	PLSTC BG	0 02 1
19.	2/18/72	OPELOUSA,LA	AMM-NITRATE	OX 96E1K	0	0 99	84E0	RP-NT	SHRP OBJ	IMP LDG	PLSTC BG	0 02 1
20.	2/18/72	HARLNGTV,TX	AMM-NITRATE	OX 64E1K	0	0 99	60E0	RP-NT	SHRP OBJ	IMP LDG	PA BAG	0 02 1
21.	2/25/72	OPELOUSA,LA	AMM-NITRATE	OX 23E2K	0	0 99	0E9	RP-NT	SHRP OBJ	IMP LDG	PLSTC BG	0 02 1
22.	3/ 6/72	EXETER ,CA	AMM-NITRATE	OX 0E0	0	0 99	40E0	RP-NT	WET PACKNG		PA BAG	0 02 1
23.	3/13/72	OPELOUSA,LA	AMM-NITRATE	OX 64E1K	0	0 99	0E0	RP-NT	SHRP OBJ	IMP LDG	PLSTC BG	0 02 1
24.	3/15/72	CARENCO ,LA	AMM-NITRATE	OX 32E1K	0	0 99	0E0	RP-NT	SHRP OBJ	IMP LDG	PLSTC BG	0 02 1
25.	4/ 6/72	NACOGDCH,TX	AMM-NITRATE	OX 21E2K	0	0 99	19E1	RP-NT	SHRP OBJ	IMP LDG	PLSTC BG	0 02 1
26.	4/13/72	NACOGDCH,TX	AMM-NITRATE	OX 29E2K	0	0 99	25E1	RP-NT	SHRP OBJ	IMP LDG	PLSTC BG	0 02 1
27.	4/18/72	CARENCRQ,LA	AMM-NITRATE	OX 41E1K	0	0 99	36E0	RP-NT	SHRP OBJ	IMP LDG	PA BAG	0 02 1
28.	4/19/72	NACOGDCH,TX	AMM-NITRATE	OX 90E1K	0	0 99	0E0	RP-NT	SHRP OBJ	IMP LDG	PLSTC BG	0 02 1
29.	4/21/72	NACOGDCH,TX	AMM-NITRATE	OX 80E1K	0	0 99	72E0	RP-NT	SHRP OBJ	IMP LDG	PLSTC BG	0 02 1
30.	5/ 2/72	NACOGDCH,TX	AMM-NITRATE	OX 72E2K	0	0 99	76E0	RP-NT	SHRP OBJ	IMP LDG	PLSTC BG	0 02 1
31.	5/ 2/72	NACOGDCH,TX	AMM-NITRATE	OX 57E1K	0	0 99	50E0	RP-NT	SHRP OBJ	IMP LDG	PLSTC BG	0 02 1
32.	5/ 4/72	NACOGDCH,TX	AMM-NITRATE	OX 16E2K	0	0 99	14E1	RP-NT	SHRP OBJ	IMP LDG	PLSTC BG	0 02 1
33.	5/ 9/72	SUNSET ,LA	AMM-NITRATE	OX 11E2K	0	0 99	70E0	RP-NT	SHRP OBJ	IMP LDG	PLSTC BG	0 02 1
34.	5/ 9/72	NACOGDCH,TX	AMM-NITRATE	OX 91E1K	0	0 99	80E0	RP-NT	SHRP OBJ	IMP LDG	PLSTC BG	0 02 1
35.	5/18/72	NACOGDCH,TX	AMM-NITRATE	OX 54E1K	0	0 99	48E0	RP-NT	SHRP OBJ	IMP LDG	PLSTC BG	0 02 1
36.	5/27/72	RIDGEVIL,IN	AMM-NITRATE	OX 76E2K	0	0 99	0E9	RP-TK	DRLMENT	UNKNOWN	BK CR RR	0 02 1
37.	5/29/72	PHILADEL,PA	AMM-NITRATE	OX 68E3K	0	0 10	18E3	RP-TK	LSE CP,CVR	ORLME&OVRTN	UNKNOWN	BK CR RR 1 02 1
38.	6/ 9/72	DUSON ,LA	AMM-NITRATE	OX 36E1K	0	0 99	30E0	RP-NT	SHRP OBJ	IMP LDG	PA BAG	0 02 1
39.	6/ 9/72	DUSON ,LA	AMM-NITRATE	OX 32E1K	0	0 99	28E0	RP-NT	SHRP OBJ	IMP LDG	PA BAG	0 02 1
40.	6/26/72	KOURTZ ,TX	AMM-NITRATE	OX 28E2K	0	0 99	18E1	RP-NT	SHRP OBJ	IMP LDG	PLSTC BG	0 02 1
41.	6/30/72	WEIMAR ,TX	AMM-NITRATE	OX 14E2K	0	0 99	12E1	RP-NT	SHRP OBJ	IMP LDG	PA BAG	0 02 1
42.	7/19/72	OPELOUSA,LA	AMM-NITRATE	OX 70E1K	0	0 99	60E0	RP-NT	SHRP OBJ	IMP LDG	PA BAG	0 02 1
43.	8/29/72	OPELOUSA,LA	AMM-NITRATE	OX 54E1K	0	0 99	48E0	RP-NT	SHRP OBJ	IMP LDG	PA BAG	0 02 1
44.	8/30/72	ALEXANDR,LA	AMM-NITRATE	OX 15E2K	0	0 99	35E0	RP-NT	SHRP OBJ	IMP LDG	PLSTC BG	0 02 1
45.	9/ 5/72	NACOGDCH,TX	AMM-NITRATE	OX 66E1K	0	0 99	60E0	RP-NT	SHRP OBJ	IMP LDG	PLSTC BG	0 02 1
46.	10/ 5/72	LAFAYELE,LA	AMM-NITRATE	OX 16E2K	0	0 99	0E9	RP-NT	SHRP OBJ	IMP LDG	PLSTC BG	0 02 1
47.	10/13/72	LAFAYELL,LA	AMM-NITRATE	OX 52E1K	0	0 99	69E0	RP-NT	SHRP OBJ	IMP LDG	PA BAG	0 02 1
48.	10/16/72	PAIGE ,TX	AMM-NITRATE	OX 34E2K	0	0 99	19E1	RP-NT	SHRP OBJ	IMP LDG	PLSTC BG	0 02 1
49.	11/20/72	LEFLORE ,OK	AMM-NITRATE	OX 0E0U	0	0 99	0E9	OVRFW	UNKNOWN		BARGE BK	0 02 6
50.	12/ 1/72	PARRISH ,AL	AMM-NITRATE	OX 23E3K	0	0 99	50E1	RP-TK	SHRP OBJ	COLLSN	BK CR RR	0 02 1
51.	12/21/72	ORLANDO ,FL	AMM-NITRATE	OX 54E2L	0	0 99	0E9	OTHER	MECH FAIL			0 02 6
52.	1/ 2/73	MCALLEN ,TX	AMM-NITRATE	OX 15E2K	0	0 99	13E1	RP-NT	SHRP OBJ	IMP LDG	PLSTC BG	0 02 1
53.	1/19/73	BROUSARD,LA	AMM-NITRATE	OX 13E2K	0	0 99	12E1	RP-NT	SHRP OBJ	IMP LDG	PA BAG	0 02 1
54.	1/25/73	SUNSET ,LA	AMM-NITRATE	OX 10E2K	0	0 99	67E0	RP-NT	SHRP OBJ	IMP LDG	PA BAG	0 02 1
55.	1/29/73	TOPEKA ,KS	AMM-NITRATE	OX 54E2K	0	0 99	0E9	RP-TK	LKG CVR	DRLMENT	BK CR RR	0 02 1
56.	2/ 4/73	ANDERSON,SC	AMM-NITRATE	OX 91E4K	0	0 99	0E0	RP-NT	CONTR FLRE	FIRE	VANDALISM	PA BAG 0 03 3
57.	2/15/73	SUNSET ,LA	AMM-NITRATE	OX 11E2K	0	0 99	10E1	RP-NT	SHRP OBJ	IMP LDG	PA BAG	0 02 1
58.	2/16/73	WNSTNSLY,NC	AMM-NITRATE	OX 45E0K	0	0 99	20E0	RP-NT	CONTR FLRE	DRLMENT	UNKNOWN	PLSTC BG 0 02 1
59.	2/21/73	PRTLAVCA,TX	AMM-NITRATE	OX 73E1K	0	0 99	64E0	RP-NT	SHRP OBJ	UNKNOWN	PLSTC BG	0 02 1
60.	2/21/73	PRTLAVCA,TX	AMM-NITRATE	OX 66E1K	0	0 99	0E9	RP-NT	CONTR FLRE	SHRP OBJ	PLSTC BG	0 02 1
61.	3/13/73	99 ,99	AMM-NITRATE	OX 28E2K	0	0 99	20E1	RP-NT	SHRP OBJ	IMP LDG	PLSTC BG	0 02 1
62.	3/13/73	PRTLAVCA,TX	AMM-NITRATE	OX 84E1K	0	0 99	0E9	RP-NT	SHRP OBJ	IMP LDG	PLSTC BG	0 02 1
63.	3/14/73	LAFAYETE,LA	AMM-NITRATE	OX 75E1K	0	0 99	66E0	RP-NT	SHRP OBJ	IMP LDG	PA BAG	0 02 1
64.	3/16/73	PRTLAVCA,TX	AMM-NITRATE	OX 25E1K	0	0 99	0E9	RP-NT	SHRP OBJ	UNKNOWN	PLSTC BG	0 02 1
65.	3/19/73	PRTLAVCA,TX	AMM-NITRATE	OX 66E1K	0	0 99	0E9	RP-NT	SHRP OBJ	IMP LDG	PLSTC BG	0 02 1
66.	3/28/73	PRTLAVCA,TX	AMM-NITRATE	OX 24E2K	0	0 99	0E9	RP-NT	SHRP OBJ	IMP LDG	PLSTC BG	0 02 1
67.	3/28/73	NACOGDCS,TX	AMM-NITRATE	OX 27E1K	0	0 99	0E9	RP-NT	SHRP OBJ	IMP LDG	PA BAG	0 02 1
68.	4/ 6/73	BOYD ,TX	AMM-NITRATE	OX 20E2K	0	0 99	18E1	RP-NT	CONTR FLRE	UNKNOWN		0 02 1
69.	4/16/73	ALEXANDA,LA	AMM-NITRATE	OX 45E1K	0	0 99	40E0	RP-NT	SHRP OBJ	IMP LDG	PLSTC BG	0 02 1
70.	4/24/73	NACOGDCS,TX	AMM-NITRATE	OX 12E2K	0	0 99	0E9	RP-NT	SHRP OBJ	IMP LDG	PLSTC BG	0 02 1

71.	4/25/73	PRTLAVAC,TX	AMM-NITPATE	OX	20E2K	0	0	99	18E1	RP-NT	SHRP	OBJ	IMP	LDG		PLSTC	BG	0	02	1
72.	4/25/73	NACJGDCS,TX	AMM-NITRATE	OX	59E1K	0	0	99	0E9	RP-NT	SHRP	OBJ	IMP	LDG		PLSTC	BG	0	02	1
73.	5/ 2/73	PRTLAVAC,TX	AMM-NITRATE	OX	11E2K	0	0	99	96E0	RP-NT	SHRP	OBJ	WET	PACKNG		PLSTC	BG	0	02	1
74.	5/ 2/73	OPELOUSA,LA	AMM-NITRATE	OX	52E1K	0	0	99	46E0	RP-NT	SHRP	OBJ	IMP	LDG		PA	BAG	0	02	1
75.	5/ 8/73	CAPENCRO,LA	AMM-NITRATE	OX	45E1K	0	0	99	40E0	RP-NT	SHRP	OBJ	IMP	LDG		PA	BAG	0	02	1
76.	6/ 1/73	DUMFRIES,VA	AMM-NITRATE	OX	20E3K	0	0	99	20E2	RP-TK	CONTR	FLRE	OVRTURN		TK	TRLR	0	02	1	
77.	6/12/73	99 ,VA	AMM-NITRATE	OX	1E2K	0	0	99	0E9	RP-TK	CONTR	FLRE	COLLSN		BK	TRLR	0	02	2	

AMMONIUM PHOSPHATE SPILLS

DATE	LOCATION	MATERIAL	CLASS						DMG\$	CAUSE	2ND CAUSE	3RD CAUSE	4TH CAUSE	CONTAINER	M					
1.10/ 9/72	GRNSBORO,NC	AMM PHOSPHA	FS	0E0U	0	0	99	0E0	RP-NT	SPKLRS	DSC	FIRE	SPON COMB	STL DRUM	3	03	3			

AMYL ACETATE SPILLS

DATE	LOCATION	MATERIAL	CLASS						DMG\$	CAUSE	2ND CAUSE	3RD CAUSE	4TH CAUSE	CONTAINER	M					
1.12/ 1/72	RDANOKE ,VA	AMYL ACETAT	FL	57E2L	0	0	1	0E9	RP-TK	DRLM&OVRTN	LKG	CVR	MECH FAIL	TK CR RR	0	02	1			

AMYL PHENOL SPILLS

DATE	LOCATION	MATERIAL	CLASS						DMG\$	CAUSE	2ND CAUSE	3RD CAUSE	4TH CAUSE	CONTAINER	M					
1.	4/26/71	ST-LOUIS,MO	AMYL-PHENOL	BP	4E0L	1	0	1	0E9	RP-NT	FORKLIFT			STL DRUM	0	01	1			
2.	7/28/71	ORANGE ,CT	AMYL-PHENOL	BP	21E1L	0	0	1	0E9	RP-NT	CONTR FLRE	IMP	LDG		STL DRUM	0	02	1		

ANILINE OIL SPILLS

DATE	LOCATION	MATERIAL	CLASS	Q U A N T I T Y	F A I L U R E S	I N J U R I E S	T A L H A Z A R D S	P R I M A R Y	D M G \$	CAUSE	2ND CAUSE	3RD CAUSE	4TH CAUSE	CONTAINER	M
1. 1/18/71	COLUMBUS, OH	ANILINE-OIL	BP	15E3L	0	0	6	38E2	RP-TK	BODY FLRE	UNKNOWN			TK CR RR	0 02 1
2. 4/24/71	ATLANTA, GA	ANILINE-OIL	BP	8EOL	0	0	1	3E0	RP-NT	CONTR FLRE	IMP LDG			STL DRUM	0 02 1
3. 1/31/72	STAPLES, LA	ANILINE-OIL	BP	80E3K	0	0	8	12E3	RP-TK	SHRP OBJ	DRLMENT	RDWY CONDS		TK CR RR	0 02 1
4. 2/ 2/72	ALBUQUERQUE, NM	ANILINE-OIL	BP	4FOL	0	0	1	3E0	RP-NT	CONTR FLRE	UNKNOWN			STL DRUM	0 02 1
5. 4/17/72	HOUSTON, TX	ANILINE-OIL	BP	14E1L	0	0	1	0E9	RP-NT	CONTR FLRE	DECTV WELD			STL DRUM	0 02 1
6. 5/ 5/72	CINCINNATI, OH	ANILINE-OIL	BP	7EOK	0	0	1	0E9	RP-NT	CONTR FLRE	MTRL DFCT			STL DRUM	0 02 1
7. 8/14/73	PORTLAND, OR	ANILINE-OIL	BP	3EOK	0	0	1	50E0	RP-NT	CONTR FLRE	UNKNOWN				0 02 1

ANTIMONY PENTACHLORIDE SPILLS

DATE	LOCATION	MATERIAL	CLASS	Q U A N T I T Y	F A I L U R E S	I N J U R I E S	T A L H A Z A R D S	P R I M A R Y	D M G \$	CAUSE	2ND CAUSE	3RD CAUSE	4TH CAUSE	CONTAINER	M
1. 5/14/72	GRAMERCY, LA	ANT-PENTACH	CL	23E2K	0	0	3	0E9	OVRFW	CONTR FLRE	MTRL DFCT			STO TANK	0 03 6

ANTI-FREEZE SPILLS---SYN.--ETHYLENE GLYCOL

DATE	LOCATION	MATERIAL	CLASS	Q U A N T I T Y	F A I L U R E S	I N J U R I E S	T A L H A Z A R D S	P R I M A R Y	D M G \$	CAUSE	2ND CAUSE	3RD CAUSE	4TH CAUSE	CONTAINER	M
1. 4/24/72	MEMPHIS, TN	ANTI-FREEZE	FL	30E2L	0	0	7	0E9	RP-TK	SHRP OBJ	UNKNOWN			TK CR RR	0 02 6
2. 9/20/72	SCHENECTADY, NY	ANTI-FREEZE	FL	15E2L	0	0	6	30E1	TS FL	OPN VALVE	VALVE BKN	MECH FAIL		TK TRLR	0 01 1
3. 4/ 8/72	KANAWHAH, WV	ETH-GLYCOL	FL	25E4L	0	0	10	0E9	OTHER	UNKNOWN					0 01 2
4. 4/ 8/72	BELLE, WV	ETH-GLYCOL	FL	0E0U	0	0	99	0E9	OTHER	UNKNOWN					0 00 6
5. 12/ 4/72	TALAHASE, FL	ETH-GLYCOL	FL	76E3L	0	0	10	0E9	RP-TK	DRLMENT				TK CR RR	0 02 6
6. 12/ 4/72	TALAHASE, FL	ETH-GLYCOL	FL	76E3L	0	0	10	0E9	RP-TK	CONTR FLRE	DRLMENT			TK CR RR	0 02 6

AROMATIC OIL AND BENZENE SPILLS

DATE	LOCATION	MATERIAL	CLASS	F A T I T A				P R I M A R Y	D M G \$	CAUSE	2ND CAUSE	3RD CAUSE	4TH CAUSE	CONTAINER	M	O P S O E A Q R U E C P A
				Q U A N T I T Y	N J L H	A I A	S S D									
1. 1/31/71	FAIRFIELD, AL	BENZENE	FL 19E2L	0	0	1	0E9	RP-TK	ORLMENT	UNKNOWN	TK CR RR	0	02	1		
2. 12/31/71	BROOKPORT, IL	BENZENE	FL 57E2L	0	0	2	13E3	RP-TK	LKG CVR	OVERTURN	UNKNOWN	TK TRLR	0	02	1	
3. 3/ 4/72	GEISMER, LA	BENZENE	FL 10E4L	0	0	6	0E9	OVRFW	HSE, CPL FA		STO TANK	0	04	2		
4. 11/20/72	INSTITUT, WV	BENZENE	FL 76E1L	0	0	1	0E9	RP-TK	CONTR FLRE	MTRL DFCT	BARGE TK	0	02	6		
5. 12/28/72	BAY-CITY, MI	BENZENE	FL 57E0L	0	0	1	0E9	OVRFW	HSE, CPL FA		PIPES	0	04	6		
6. 5/27/73	MCPGAN-C, LA	BENZENE	FL 57E2L	0	0	2	0E9	RP-TK	SHRP OBJ	COLLSN	BARGE TK	0	02	2		
7. 3/ 4/72	GEISMER, LA	AROMATIC-O	FL 10E4L	0	0	6	0E9	RP-TK	HSE, CPL FA		TK TRLR	0	01	2		

ASPHALT SPILLS

DATE	LOCATION	MATERIAL	CLASS	F A T I T A				P R I M A R Y	D M G \$	CAUSE	2ND CAUSE	3RD CAUSE	4TH CAUSE	CONTAINER	M	O P S O E A Q R U E C P A
				Q U A N T I T Y	N J L H	A I A	S S D									
1. 1/20/72	AVERY, OH	ASPHALT	UN 11E4K	0	0	99	0E0	OVRFW	EXPLOSION	OVRPRES	FORGN SUBS	CKG/MX T	0	04	3	

ARSENIC ACID, TECHNICAL SPILLS

DATE	LOCATION	MATERIAL	CLASS	F A T I T A				P R I M A R Y	D M G \$	CAUSE	2ND CAUSE	3RD CAUSE	4TH CAUSE	CONTAINER	M	O P S O E A Q R U E C P A
				Q U A N T I T Y	N J L H	A I A	S S D									
1. 8/21/72	HFEKWAGA, NY	ARSENIC ACI	BP 75E0L	0	0	5	0E0	RP-NT	SHRP OBJ	IMP LDG	FBRE DRM	0	02	1		
2. 11/11/72	DALLAS, TX	ARSENIC ACI	BP 11E1L	0	0	6	0E0	RP-NT	SHPP OBJ	IMPR HNDLG	PPVSL L ERR	FBRE DRM	0	01	1	
3. 11/ 4/71	BALTIMOR, MD	ARS-ACD-TEC	BP 32E1L	0	0	7	0E9	RP-TK	LKG CVR	OVERTURN	TK TRLR	0	02	1		
4. 11/ 4/71	BALTIMOR, MD	ARS-ACD-TEC	BP 11E1L	0	0	6	0E9	RP-TK	CONTR FLRE	OVERTURN	TK TRLR	0	02	5		

ARSENICAL MIXTURES SPILLS

DATE	LOCATION	MATERIAL	CLASS	Q U A N T I T Y	I N J U R I E S	F A T A L I T Y	D M G \$	CAUSE	2ND CAUSE	3RD CAUSE	4TH CAUSE	CONTAINER	M
1. 2/24/71	OAKLAND ,CA	ARS-MIXTURE	BP	11E1K	0	0	2	12E1 RP-NT	SHRP OBJ	IMP LDG		PA BAG	0 02 1
2. 5/12/71	SELMA ,CA	ARS-MIXTURE	BP	36E1K	0	0	4	30E1 RP-NT	SHRP OBJ	IMP LDG		PA BAG	0 02 1
3. 9/20/71	OAKLAND ,CA	ARS-MIXTURE	BP	0E0U	0	0	99	0E9 RP-NT	SHRP OBJ	UNKNOWN		PA BAG	0 02 1
4. 12/ 2/71	BUFFALO ,NY	ARS-MIXTURE	BP	11E0L	0	0	1	50E0 RP-NT	SHRP OBJ	IMP LDG		STL DRUM	0 02 1
5. 5/19/72	MOBILE ,AL	ARS-MIXTURE	BP	8E0L	0	0	1	0E9 RP-NT	CONTR FLRE	MTRL DFCT		STL PAIL	0 02 1
6. 5/ 1/73	TULSA ,OK	ARS-MIXTURE	BP	1E0L	0	0	1	25E0 RP-NT	MTRL DFCT			STL DRUM	0 02 1
7. 5/21/73	OAKLAND ,CA	APS-MIXTURE	BP	2E0L	0	0	1	0E9 RP-NT	CONTR FLRE	MTRL DFCT		STL DRUM	0 02 1

ARSENIC TRICHLORIDE SPILLS

DATE	LOCATION	MATERIAL	CLASS	Q U A N T I T Y	I N J U R I E S	F A T A L I T Y	D M G \$	CAUSE	2ND CAUSE	3RD CAUSE	4TH CAUSE	CONTAINER	M
1. 2/20/71	BOISE ,ID	ARS-TRICHLO	BP	23E0L	0	0	1	80E0 RP-NT	MTRL DFCT			STL PAIL	0 02 1
2. 7/14/71	LESTER ,PA	ARS-TRICHLO	BP	25E0L	0	0	1	20E1 RP-NT	CONTR FLRE	OVRTURN	IMP LDG	GLS BTLs	0 02 1
3. 9/24/71	KANSAS ,MO	ARS-TRICHLO	BP	1E0K	0	0	1	0E9 RP-NT	MTRL DFCT			SS CRBY	0 01 1
4. 4/14/72	COMERCE ,CO	ARS-TRICHLO	BP	19E0L	1	0	1	0E9 RP-NT	SHRP OBJ	IMP LDG		STL DRUM	0 02 1

ARSENIC TRIOXIDE SPILLS

DATE	LOCATION	MATERIAL	CLASS	Q U A N T I T Y	I N J U R I E S	F A T A L I T Y	D M G \$	CAUSE	2ND CAUSE	3RD CAUSE	4TH CAUSE	CONTAINER	M
1. 1/10/72	GREATFAL ,MT	ARS-TRIOXID	BP	2E0K	0	0	1	25E0 RP-NT	SHRP OBJ	IMP LDG		CDBD DRM	0 02 1

149

OP SOURCE
EA UR
QR RC
UE CE
PA E

BAR IUM CARBONATE SPI LLS

OP
EA
QR
UE
PA

BENZYL CHLORIDE, INHIBITED SPILLS

OP
EA
QR
UE
PA

BIMETHYL ALKYLAMINE SPILLS---SYN.--DIMETHYLAMINE

O	
P	S
	O
EA	U
QR	R
UE	C
PA	E

DATE	LOCATION	MATERIAL	CLASS	DMG\$	CAUSE	2ND CAUSE	3RD CAUSE	4TH CAUSE	CONTAINER	M
1.12/11/71	OHIO-RIV,99	BIMETHLY-AL	FL 65E2K	0	0	5	0E9	OTHER UNKNOWN		0 02 2
2.11/22/72	SHELTON ,CN	DIMETHYLAMI	FL 68E1K	0	0	2	0E9	OVRFW UNKNOWN	UNKNOWN	IND MACH 1 04 6

BLACK LIQUOR SPILLS

DATE	LOCATION	MATERIAL	CLASS	Q U A N T I T Y	F A T I N J U R I E S	A L L I E S	H I Z A R D	P R I M A R Y	D M G \$	C A U S E	2ND CAUSE	3RD CAUSE	4TH CAUSE	C O N T A I N E R	M
1. 3/10/71	POTOMACR, MD	BLACK-LIQUO	UN	0E0U	0	0	99	0E0	OTHER	UNKNOWN					0 04 5
2. 3/10/72	WFOSTRACO, MD	BLACK-LIQUO	UN	0E0U	0	0	99	0E9	OVRFW	MECH FAIL	UNKNOWN				0 04 5
3. 7/16/72	MAHEOLA, AL	BLACK-LIQUO	UN	97E4L	0	0	99	12E4	RP-TK	MECH FAIL	IMPR CNTNR			STO TANK	0 03 3

BORAX SPILLS

DATE	LOCATION	MATERIAL	CLASS	Q U A N T I T Y	F A T I N J U R I E S	A L L I E S	H I Z A R D	P R I M A R Y	D M G \$	C A U S E	2ND CAUSE	3RD CAUSE	4TH CAUSE	C O N T A I N E R	M
1. 3/ 6/70	BORON, CA	BORAX	UN	0E0U	0	0	99	0E0	RP-NT	CONTR FLRE	MTRL DFCT			CKG/MX T	0 04 3

BROMINE SPILLS

DATE	LOCATION	MATERIAL	CLASS	Q U A N T I T Y	F A T I N J U R I E S	A L L I E S	H I Z A R D	P R I M A R Y	D M G \$	C A U S E	2ND CAUSE	3RD CAUSE	4TH CAUSE	C O N T A I N E R	M
1. 8/ 6/71	WINSLO, AR	BROMINE	CL	0E9U	0	0	99	28F3	RP-TK	VALVE BKN	OVRTURN	PRNSLL ERR	TK TRLR	0 02 1	
2. 1/13/72	ROCHSTER, NY	BROMINE	CL	18E2K	1	0	9	75E0	TS FL	HSE, CPL FA	PRNSLL ERR		TK TRLR	0 01 1	
3. 5/23/73	DALLAS, TX	BROMINE	CL	24E0K	0	0	1	26E0	RP-NT	CONTR FLRE	DROPPED		GBTL/CTN	0 51 1	

BUTYRIC ACID SPILLS

DATE	LOCATION	MATERIAL	CLASS	Q U A N T I T Y	I N J U R I E S	F A T A L I T Y	H A Z A R D	P R I M A R Y	D M G \$	CAUSE	2ND CAUSE	3RD CAUSE	4TH CAUSE	CONTAINER	M
1. 1/16/73	SISTRSVL,WV	BUTYL CAPBI	FL	0E0U	0	0	49	0E0	RP-NT	CONTR FLRE	EXPLOSION	CHMCAL RE	CKG/MX T	0	04 3

BUTYRIC ACID SPILLS

DATE	LOCATION	MATERIAL	CLASS	Q U A N T I T Y	F A T N J U R I E S	H A Z A R D S	P R I M A R Y	DMG\$	CAUSE	2ND CAUSE	3RD CAUSE	4TH CAUSE	CONTAINER	M	
1. 8/ 9/72	CROSBY ,TX	BUTYRIC-ACI	UN 50E11	0	0	1	0E9	OVRFW	CONTR	FLRE	EXPLOSION	CNTRL INDP	CDBD	DRM 0	04 3

CALCIUM CARBIDE SPILLS

[illegible]

CALCIUM CHLORIDE SPILLS

DATE	LOCATION	MATERIAL	CLASS	Q U A N T I T Y	F A T N J U R I E S	H A Z A R D S	P R I M A R Y	DMG\$	CAUSE	2ND CAUSE	3RD CAUSE	4TH CAUSE	CONTAINER	M
1. 5/ 3/72	ENNIS ,TX	CALCIUM-CHL	BP 38E1L	0	0	1		0E9	OTHER	PRNSLL	ERR		TK CR RR	1 06 6

CALCIUM CYANAMIDE SPILLS---SYN.--CYANAMIDE POISON

	F								
	A								
	I	T			P				
Q	N	A			R				O
U	J	L	H		I				P S
A	U	I	A		M				O
N	P	T	Z		A				EA U
I	I	I	A		R				QR R
T	E	E	R		Y				UE C
Y	S	S	D						PA E

DATE	LOCATION	MATERIAL	CLASS	DMG\$	CAUSE	2ND CAUSE	3RD CAUSE	4TH CAUSE	CONTAINER	M
1. 5/25/72	POCATELO, ID	CYANIMD-POI	CL 14ECK	0	0	1	10E1 RP-NT	MTRL DFCT	PA BAG	0 02 1

CALCIUM HYDROXIDE SPILLS---SYN.---SLAKED LIME

	F								
	A								
	I	T			P				
Q	N	A			R				O
U	J	L	H		I				P S
A	U	I	A		M				O
N	R	T	Z		A				EA U
I	I	I	A		R				QR R
T	E	E	R		Y				UE C
Y	S	S	D						PA E

DATE	LOCATION	MATERIAL	CLASS	DMG\$	CAUSE	2ND CAUSE	3RD CAUSE	4TH CAUSE	CONTAINER	M
1. 6/22/72	BALTIMOR, MD	CALCIUM-PYD	CL 45E1K	0	0	1	0E9 OTHER FLOOD			0 03 3
2. 5/ 4/72	CHICAGO , IL	LIME-SLAKED	CL 68E4L	0	0	6	0E9 RP-TK SHIP SANK		BARGE TK	0 02 6
3. 3/26/73	NEW CSTL, DE	LIME-SLAKED	CL 08CU	0	0	99	4E2 RP-NT SPKLRS DSC FIRE	CHMCAL RE	PA BAG	0 03 3

CALCIUM HYPERCHLORIDE SPILLS

	F								
	A								
	I	T			P				
Q	N	A			R				O
U	J	L	H		I				P S
A	U	I	A		M				O
N	R	T	Z		A				EA U
I	I	I	A		R				QR R
T	E	E	R		Y				UE C
Y	S	S	D						PA E

DATE	LOCATION	MATERIAL	CLASS	DMG\$	CAUSE	2ND CAUSE	3RD CAUSE	4TH CAUSE	CONTAINER	M
1. 6/30/72	BILLINGS, MT	CALCIUM-HYP	UN 14ECK	0	0	1	20E0 RP-NT SHRP OBJ	IMP LDG	COBD DRM	0 02 1

CARBOLIC ACID SPILLS---SYN.--PHENOL

DATE	LOCATION	MATERIAL	CLASS	Q U A N T I T Y	F A T N J U R I E S	A L I I E S	H A Z A R D	P R I M A R Y	O P E R A T I O N A L E R R O R S						
1. 1/19/71	DEMOPOLS,AL	CARBOLIC-AC	BP 62E1L	0	0	5	50E0	RP-TK	OPN VALVE	PRNSLL ERR	TK TRLR	0	51	1	
2. 7/28/71	LOS-ANGL,CA	CARBOLIC-AC	BP 7ECL	0	0	1	0E9	RP-NT	CONTR FLRE	LSE CP,CVR	STL DRUM	0	02	1	
3. 4/13/72	PARIS ,TX	CARBOLIC-AC	BP 45EOK	0	0	1	7E0	RP-TK	CONTR FLRE	DFCTV WELD	TK CR RP	0	02	1	
4. 5/ 2/72	CARLSTDY,NJ	CARBOLIC-AC	BP 15E1L	0	0	3	32E0	OVRFW	MECH FAIL		TK TRLR	0	01	1	
5. 5/20/72	FAIR-PLY,SC	CARBOLIC-AC	BP 38E2K	0	0	7	80E0	RP-TK	LSE CP,CVR	CLS&OVRTN	TK TRLR	0	02	1	
6. 5/26/72	FREMONT ,CA	CARBOLIC-AC	BP 80E2K	0	0	8	40E3	RP-TK	UNKNOWN	COLLSN	PRNSLL ERR	TK TRLR	0	02	1
7. 4/16/73	NASHVILL,TN	CARBOLIC-AC	BP 11E1L	0	0	2	0E9	RP-NT	FORKLIFT	PRNSLL ERR	STL DRUM	0	51	1	
8. 4/22/73	MCNARY ,TX	CARBOLIC-AC	BP 80E3L	0	0	10	13E3	RP-TK	SHRP OBJ	DRLM&OVRTN	RDWY CONDS	TK CR RR	0	02	1
9. 6/ 3/73	MARATHON,TX	CARBOLIC-AC	BP 19E3L	0	0	9	30E2	RP-TK	SHRP OBJ	COLLSN	TK CR RR	0	02	1	
10. 4/ 9/71	DALLAS ,TX	PHENOL	BP 1EOL	0	0	1	10E1	RP-NT	DFCTV WELD		STL DRUM	0	02	1	
11. 5/24/71	ST-LOUIS,MO	PHENOL	BP 0E0U	1	0	99	0E9	RP-NT	CONTR FLRE	DROPPED	GLS BTLS	0	01	1	
12. 6/26/72	SLABTOWN,MD	PHENOL	BP 83E3L	0	0	10	0E9	RP-TK	SHRP OBJ	DRLMENT	TK CR RR	1	02	5	
13. 9/ 5/72	FARMVILL,NC	PHENOL	BP 32E1K	0	0	5	0E9	OVRFW	PRNSLL ERR		STO TANK	1	03	6	
14. 9/26/72	BALTIMOR,MD	PHENOL	BP 0E0U	0	0	99	0E9	OVRFW	SPKLRS DSC		TRENCH	1195	5		
15. 9/27/72	CHOCOLAT,TX	PHENOL	BP 0E0U	0	0	99	0E0	OVRFW	UNKNOWN			0	01	2	
16. 10/ 7/72	RICHMOND,CA	PHENOL	BP 11E3L	0	0	9	25E2	RP-TK	OPN VALVE	PRNSLL ERR	TK TRLR	0361	1		
17. 12/ 9/72	KENTON ,OH	PHENOL	BP 0E0U	0	0	99	0E9	OVRFW	INTNL REL	NMRL OP	SETLG PD	0	05	6	
18. 2/20/73	PECOS ,TX	PHENOL	BP 0E0U	0	0	99	0E9	RP-TK	CONTR FLRE	DRLMENT	TK CR RR	0	02	6	
19. 3/ 1/73	BRIDGEPT,NJ	PHENOL	BP 45EOK	0	0	1	15E0	TS FL	VALVE BKN	MECH FAIL	TK TRLR	0	51	1	
20. 4/11/73	PITTSFLO,MA	PHENOL	BP 38EOL	0	0	1	15E0	RP-TK	BODY FLRE		TK TRLR	0	01	1	
21. 4/16/73	MOBILE ,AL	PHENOL	BP 5EOK	0	0	1	0E9	RP-NT	CONTR FLRE	MTRL DFCT	PBTL/CTN	0	01	1	
22. 5/ 4/73	CUMBERLN,MD	PHENOL	BP 87E3L	0	0	10	0E9	RP-TK	CONTR FLRE	DRLMENT	TK CR RR	0	01	2	
23. 5/25/73	MOBILE ,AL	PHENOL	BP 2EOK	0	0	1	70E0	RP-NT	CONTR FLRE	UNKNOWN	PLSTC BT	0	02	1	
24. 5/31/73	MISHAWAK,IN	PHENOL	BP 38EOL	0	1	1	0E9	OVRFW	IMP LDG	PRNSLL ERR	TK TRLR	0	51	1	
25. 5/12/72	MASON -,WV	PHENOLIC	2 FL 0E0U	0	0	99	0E9	OTHER	UNKNOWN			0	00	6	

CARBON BISULFIDE SPILLS---SYN.--CARBON DISULFIDE

DATE	LOCATION	MATERIAL	CLASS	Q U A N T I T Y	F A T N J U R I E S	A L I I E S	H A Z A R D	P R I M A R Y	O P E R A T I O N A L E R R O R S						
1. 12/70/71	BUFFALO ,NY	CBN-BISULFI	FL 38E3L	0	0	7	30E2	RP-TK	SHRP OBJ	COLLSN	DRLMENT	TK CR RR	0	00	1
2. 11/22/72	SHELTON ,CN	CBN-DISULFI	FL 23E1K	0	0	2	0E9	OVRFW	UNKNOWN	UNKNOWN		IND MACH	1	04	6

CARBON TETRACHLORIDE SPILLS

DATE	LOCATION	MATERIAL	CLASS	F A T I N A J L H U I A N R T Z I I A R E E R S S D				DMG\$	CAUSE	2ND CAUSE	3RD CAUSE	4TH CAUSE	CONTAINER	M	O P S D E A U Q R R U E C P A E	
				Y	S	S	D									
1.11/ 1/71	ALBURQUR,NM	CBN-TETRACH	UN	4E0L	0	0	1	15E9	RP-NT	CONTR	FLRE	IMP	LDG	GLS	BTLS	0 02 1
2.11/25/72	CHARLSTN,WV	CBN-TETRACH	UN	11E2L	0	0	4	0E9	OVRFW	DRLMENT				TK	CR	RR 2 02 2
3.11/25/72	KANAWHA ,WV	CBN-TETRACH	UN	0E0U	0	0	99	0E9	RP-TK	UNKNOWN	DRLMENT			TK	CR	RR 2 02 6

CAUSTIC POTASH SPILLS--SYN.--POTASSIUM HYDROXIDE--CAUSTIC POTASH LIQUID

DATE	LOCATION	MATERIAL	CLASS	F A T I N A J L H U I A N R T Z I I A R E E R S S D				DMG\$	CAUSE	2ND CAUSE	3RD CAUSE	4TH CAUSE	CONTAINER	M	O P S D E A U Q R R U E C P A E	
				Y	S	S	D									
1. 6/17/73	BELVIDER,IL	CAUS-POTASH	CL	3E0K	0	0	1	0E9	RP-NT	CONTR	FLRE	OVRTURN		STL	DRUM	0 02 1
2.12/ 3/71	CHICAGO ,IL	CAUS-POT-LI	CL	24E3K	0	0	4	12E2	RP-TK	CONTR	FLRE	UNKNOWN		TK	CR	RR 0 02 1
3.12/11/71	CHICAGO ,IL	CAUS-POT-LI	CL	21E3L	0	0	4	38E3	RP-TK	CONTR	FLRE			TK	CR	RR 0 02 1
4. 3/ 4/72	CHICAGO ,IL	CAUS-POT-LI	CL	19E1L	0	0	1	0E9	RP-TK	LSE	CP,CVR			TK	CR	RR 0 02 1
5. 9/16/72	BIRMINGH,AL	CAUS-POT-LI	CL	5E0K	0	0	1	20E0	RP-NT	DROPPED						0 01 1
6. 3/26/73	99 ,99	CAUS-POT-LI	CL	19E2L	0	0	1	75E1	RP-TK	CONTR	FLRE	UNKNOWN		TK	CR	RR 0 02 1
7. 1/29/73	CLEVELND,OH	CAUS-POT-LI	CL	57E0L	0	0	1	10E0	RP-NT	CONTR	FLRE	MTRL DFCT	UNKNOWN	STL	DRUM	0 02 1
8.10/ 9/72	GRNSBORO,NC	POT-HYDROXI	CL	0E0U	0	0	99	0E0	RP-NT	SPKLRS	DSC	FIRE	SPON COMB	STL	DRUM	3 03 3
9. 1/30/72	NEWTOWN ,PA	POT-HYDROXI	CL	0E0U	0	0	99	0E9	OTHER	PRNSLL	ERR	FIRE				4 03 3

CAUSTIC SODA SPILLS--- SYN.---SODIUM HYDROXIDE

DATE	LOCATION	MATERIAL	CLASS	F A T I N A J L H U I A N R T Z I I A R E E R S S D				DMG\$	CAUSE	2ND CAUSE	3RD CAUSE	4TH CAUSE	CONTAINER	M	O P S D E A U Q R R U E C P A E	
				Y	S	S	D									
1.10/13/70	APPLETON,WI	SODIUM HYDX	CL	0E0U	0	0	99	0E0	OVRFW	CHMCAL	RE	FORGN SUBS		CKG/MX	T 1 04 3	
2. 2/18/70	DEER PRK,TX	CAUS-SODA	CL	18E4K	0	0	8	0E0	RP-TK	SHRP	OBJ	EXPLOSION	CHMCAL	RE	STO TANK 1 03 3	
3. 3/26/71	HOUSTON ,TX	CAUS-SODA	CL	74E3K	2	0	5	10E2	RP-TK	CONTR	FLRE	MTRL DFCT	OVRPRES	TK	TRLR 0 01 1	
4. 9/ 3/71	TPKE ,PA	CAUS-SODA	CL	19E1L	0	0	1	12E3	RP-TK	LKG	CVR	OVRTURN	PRNSLL	ERR	TK	TRLR 0 02 1
5.10/ 1/71	JACKSON ,MS	CAUS-SODA	CL	36E2K	0	0	4	0E9	RP-TK	CONTR	FLRE	COLLSN		TK	TRLR 0 02 1	
6.10/29/71	WILAM-RI,OR	CAUS-SODA	CL	91E2L	0	0	5	0E9	OVRFW	OPN	VALVE	PRNSLL	ERR			0 04 2
7.11/25/71	KINGSVIL,SC	CAUS-SODA	CL	38E0L	0	0	1	10E0	RP-TK	VALVE	BKN	DRLMENT		TK	CR	RR 0 02 1

8.	1/ 4/72	CHICAGO ,IL	CAUS-SODA	CL 8E0L	0 0 1	0E9	RP-TK	VALVE BKN	DRLMENT		TK CR RR	0 01 1
9.	2/ 4/72	WILMINGTON,CA	CAUS-SODA	CL 30E1L	0 0 1	62E1	RP-TK	SHRP OBJ	COLLSN	PRNSLL ERR	TK TRLR	0 01 1
10.	3/27/72	EL SEGUNDO,CA	CAUS-SODA	CL 11E3L	0 0 6	10E2	RP-TK	SHRP OBJ	OVRTURN		BOILER	0 02 1
11.	4/18/72	STEILACM,WA	CAUS-SODA	CL 48E3K	0 0 7	0E9	RP-TK	DRLMENT	ROWY CONDS	FLOOD	TK CR RR	0 02 1
12.	4/20/72	AKRON ,OH	CAUS-SODA	CL 76E2L	0 0 5	10E1	TS FL	HSE,CPL FA	UNKNOWN		TK TRLR	0 01 1
13.	5/ 4/72	SEATTLE ,WA	CAUS-SODA	CL 0E0U	0 0 99	0E9	OVRFW	INTNL REL	PRNSLL ERR		BARGE TK	0 01 6
14.	5/11/72	SKOKIE ,IL	CAUS-SODA	CL 19E1L	0 0 1	13E2	OVRFW	VALVE BKN	UNKNOWN		TK TRLR	0361 1
15.	5/24/72	COLUMBIA,SC	CAUS-SODA	CL 38E1L	0 0 1	50E0	RP-TK	UNKNOWN			TK CR RR	0 01 1
16.	5/30/72	CHATANGA,TN	CAUS-SODA	CL 11E2K	0 0 2	15E1	RP-TK	UNKNOWN			TK CR RR	0 02 1
17.	6/ 8/72	CHATNOGA,TN	CAUS-SODA	CL 23E2L	0 0 3	27E1	OVRFW	VALVE BKN			TK TRLR	0361 1
18.	6/10/72	CHARLTON,TN	CAUS-SODA	CL 75E0L	0 0 1	63E1	OVRFW	LSE CP,CVR	PRNSLL ERR		TK TRLR	0 02 1
19.	6/15/72	HOUSTON ,TX	CAUS-SODA	CL 0E0U	2 0 1	0E0	RP-NT	EXPLOSION	CHMCAL RE	FORGN SUBS	STL DRUM	2 04 3
20.	6/16/72	PINE-BLF,AR	CAUS-SODA	CL 90E1L	0 0 2	50E0	OVRFW	QPN VALVE	PRNSLL ERR		TK TRLR	0 01 1
21.	6/21/72	N-LAKE ,IL	CAUS-SODA	CL 19E1L	0 0 1	5E0	OVRFW	PRNSLL ERR	GAU MS/DFC		STO TANK	0 01 1
22.	6/28/72	SAVANNAH,GA	CAUS-SODA	CL 38E0L	1 0 1	25E0	TS FL	HSE,CPL FA	OVRPRES	VALVE SHUT	TK TRLR	0361 1
23.	7/25/72	CATAWBA ,SC	CAUS-SODA	CL 38E0L	0 0 1	10E0	RP-TK	LKG CVR	MECH FAIL		TK CR RR	0 02 1
24.	7/27/72	CINCINNATI,OH	CAUS-SODA	CL 95E0L	0 0 1	0E9	OVRFW	MECH FAIL	UNKNOWN		BARGE TK	0 02 6
25.	8/ 9/72	CHARLOTE,NC	CAUS-SODA	CL 19E0L	0 0 1	10E0	RP-TK	CONTR FLRE	UNKNOWN		TK CR RR	0 02 1
26.	9/14/72	CHEEK ,TX	CAUS-SODA	CL 19E1L	0 0 1	13E1	TS FL	HSE,CPL FA	MECH FAIL		TK TRLR	0 51 1
27.	9/21/72	S-SPENCER,MA	CAUS-SODA	CL 38F1L	0 0 1	30E0	RP-TK	SHRP OBJ	DRLMENT		TK CR RR	0 02 1
28.	9/23/72	KRANNERT,GA	CAUS-SODA	CL 38E0L	0 0 1	10E1	RP-TK	LSE CP,CVR			TK CR RR	0 02 1
29.	9/30/72	WESTOVER,GA	CAUS-SODA	CL 20E3L	0 0 6	98E1	TS FL	HSE,CPL FA	MECH FAIL	PRNSLL ERR	TK TRLR	0 51 1
30.	11/25/72	CHARLSTN,WV	CAUS-SODA	CL 23E2L	0 0 4	0E9	OVRFW	DRLMENT			TK CR RR	2 02 2
31.	12/11/72	STRUTHRS,OH	CAUS-SODA	CL 38E3L	0 0 7	42E2	RP-TK	CONTR FLRE	MTRL DFCT		TK CR RR	0 02 1
32.	12/29/72	99 ,99	CAUS-SODA	CL 30E3L	0 0 7	18E2	RP-TK	SHRP OBJ	DRLMENT		TK CR RR	0 02 1
33.	1/ 5/73	WAVERLY ,NJ	CAUS-SODA	CL 10E1L	0 0 1	10E1	RP-TK	UNKNOWN			TK CR RR	0 02 1
34.	1/19/73	LFMONT ,IL	CAUS-SODA	CL 75E1L	1 0 2	10E0	TS FL	HSE,CPL FA	MTRL DFCT		TK TRLR	0 41 1
35.	2/ 5/73	REISTERS,MD	CAUS-SODA	CL 56E0L	1 0 1	15E0	OVRFW	UNKNOWN			STO TANK	0 01 1
36.	2/ 7/73	WESTOVER,GA	CAUS-SODA	CL 15E2L	0 0 3	50E0	TS FL	HSE,CPL FA	UNKNOWN		TK TRLR	0 41 1
37.	3/ 1/73	KNOXVILL,TN	CAUS-SODA	CL 19E0L	0 0 1	20E0	RP-TK	LSE CP,CVR			TK CR RR	0 02 1
38.	3/ 5/73	DGLFSBY ,GA	CAUS-SODA	CL 83E3L	0 0 8	24E2	RP-TK	SHRP OBJ	DRLMENT		TK CR RR	0 02 1
39.	3/ 9/73	AVON ,IN	CAUS-SODA	CL 57E3L	0 0 8	46E2	RP-TK	SHRP OBJ	COLLSN		TK CR RR	0 02 1
40.	4/16/73	WNST-SLM,NC	CAUS-SODA	CL 21F1L	0 0 1	40E1	RP-NT	CONTR FLRE	MTRL DFCT		STL DRUM	0 02 1
41.	5/31/73	LITTLFAL,NY	CAUS-SODA	CL 57E0L	1 0 1	50E0	RP-NT	CONTR FLRE	UNKNOWN		STL DRUM	0 02 1
42.	4/ 6/73	MERIDEN ,CT	SOD-HYDX-LI	CL 1E0L	0 0 1	0E9	RP-NT	CONTR FLRE	IMP LGD		PBTL/CTN	0 01 1
43.	4/18/72	STEILACM,WA	SODIUM-HYDX	CM 0E0U	0 0 99	0E9	RP-TK	UNKNOWN	DRLMENT		TK CR RR	0 02 6
44.	5/26/72	99 ,99	SODIUM-HYDX	CM 34E1K	0 0 1	27E1	RP-NT	UNKNOWN			STL DRUM	0 01 1
45.	11/25/72	KANAWHA ,WV	SODIUM-HYDX	CM 0E0U	0 0 99	0E9	RP-TK	UNKNOWN	DRLMENT		TK CR RR	2 02 6
46.	11/25/72	99 ,WV	SODIUM-HYDX	CM 30E3L	0 0 7	13E3	RP-TK	SHRP OBJ	UNKNOWN		TK CR RR	0 02 1
47.	6/13/73	BEDFORD ,OH	SODIUM-HYDX	CM 13E1L	0 0 1	15E0	TS FL	HSE,CPL FA			TK TRLR	0 21 1

CHEMICALS N.O.I. SPILLS (INCLUDES IND. WASTE FEO, ACID, WHEY)

DATE	LOCATION	MATERIAL	CLASS	Q	U	A	N	I	T	F	P	R	I	M	A	R	Y	DMG\$	CAUSE	2ND CAUSE	3RD CAUSE	4TH CAUSE	CONTAINER	M
1.	3/13/71	MECHANCS,PA	CHEM-NOI	UN	70E1K	0	0	99	56E1	RP-NT	IMP LGD				PLSTC BT	0	02 1							
2.	2/10/71	SAN-FR IS,CA	CHEM-NOI	UN	0E0U	0	0	99	0E9	OTHER	UNKNOWN						0 00 6							
3.	3/19/71	BROAD-CR,MD	CHEM-NOI	UN	0E0U	0	0	99	0E9	OTHER	UNKNOWN						0 00 5							
4.	8/13/71	LAUREL ,MD	CHEMICL-NOI	UN	76E0L	0	0	99	75E0	RP-NT	FORKLIFT				PRNSLL ERR		0 51 1							
5.	10/ 6/71	BALTIMOR,MD	CHEM-NOI	UN	0E0U	0	0	99	0E9	OTHER	UNKNOWN						0 00 5							

6.	10/29/71	HOLLAND ,MI	CHEM-NOI	UN	0E0U	0	0	99	0E9	RP-TK	CONTR FLRE	EXPLOSION	CHMCAL RE	COBD DRM	0	04	3	
7.	0/ 0/72	,MD	CHEM-NOI	UN	38E2L	0	0	99	0E9	OVRFW	PRNSLL ERR			STO TANK	0	03	5	
8.	1/31/72	ROSEDALE,MD	CHEM-NOI	UN	0E0U	0	0	99	0E9	OTHER	INTNL REL	UNKNOWN				0	04	5
9.	3/23/72	MANASSAS,VA	CHEM-NOI	UN	0E0U	0	0	99	0E9	OVRFW	UNKNOWN					0	00	6
10.	5/ 7/72	99	,MD	CHEM-NOI	UN	0E0U	0	0	99	0E9	OVRFW	UNKNOWN				0	04	6
11.	6/ 5/72	BALTIMOR,MD	CHEM-NOI	UN	0E0U	0	0	99	0E9	OVRFW	PRNSLL ERR	UNKNOWN				0	01	5
12.	7/18/72	BALTIMOR,MD	CHEM-NOI	UN	0E0U	0	0	99	0E9	TS FL	HSE,CPL FA	UNKNOWN				0	02	5
13.	6/19/72	BALTIMOR,MD	CHEM-NOI	UN	0E0U	0	0	99	0E9	OVRFW	UNKNOWN					0	04	6
14.	9/15/72	BALTIMOR,MD	CHEM-NOI	UN	0E0U	0	0	99	0E9	OVRFW	UNKNOWN	DFCTV WELD				0	00	6
15.	1/ 9/73	FAYETTEV,NC	CHEM-NOI	UN	0E0U	0	0	99	0E9	TS FL	HSE,CPL FA	BLDG CLSP	SNOW/ICE	PA BAG		0	03	3
16.	1/19/73	WOODSTOK,IL	CHEM-NOI	UN	19E0L	0	0	99	0E9	OVRFW	PRNSLL ERR			IND MACH		0	04	3
17.	5/ 3/73	CHELSEA ,MA	CHEM-NOI	UN	0E0U	0	0	99	0E9	OTHER	SPKLRS	DSC FIRE		PA BAG		0	04	3
18.	5/17/72	N-FLOPNC,PA	IND-CHEMNOI	UN	0E0U	0	0	99	0E9	OVRFW	UNKNOWN					0	00	6
19.	5/16/72	MINGO-JC,OH	IND-WST-FEO	UN	76E1K	0	0	99	0E9	OVRFW	HSE,CPL FA	UNKNOWN		PIPES		0	03	6
20.	5/22/72	STUBNVIL,OH	IND-WST-FEO	UN	76E2L	0	0	99	0E9	OVRFW	MECH FAIL	UNKNOWN				0	04	6
21.	5/23/72	MINGO-JC,OH	IND-WST-FEO	UN	0E0U	0	0	99	0E9	OVRFW	INTNL REL			PIPES		0	04	6
22.	5/23/72	MARTNS-F,OH	IND-WST-IRN	UN	0E0U	0	0	99	0E9	OVRFW	UNKNOWN			PIPES		0	04	6
23.	5/15/72	LEFORE ,NC	WHEY-IND-WS	UN	0E0U	0	0	99	0E9	OVRFW	UNKNOWN			SETLG PD		0	05	6
24.	9/ 0/69	JACKSON ,MI	INDUS-CHEM	UN	19E2L	0	0	99	0E0	OVRFW	INTNL REL	PRNSLL ERR		STO TANK		0	0311	
25.	5/11/72	WARREN ,OH	INDUS-CHEM	UN	87E4L	0	0	99	0E9	OVRFW	MECH FAIL					0	04	6
26.	3/27/69	RICHMOND,CA	INDUS-WASTE	UN	0E0U	0	0	99	0E9	OVRFW	INTNL REL	PRNSLL ERR				0	04	6
27.	8/ 8/69	SAN-CARL,CA	INDUS-WASTE	UN	0E0U	0	0	99	0E9	OVRFW	PRNSLL ERR	UNKNOWN				0	00	6
28.	2/23/70	ALBERTA ,VA	INDUS-WASTE	UN	18E3K	0	0	99	0E9	RP-TK	DRLEMENT			TK CR RR		0	02	6
29.	1/14/71	ESTUARY ,CA	INDUS-WASTE	UN	0E0U	0	0	99	0E9	OVRFW	UNKNOWN					0	00	6
30.	8/ 9/71	,MD	INDUS-WASTE	UN	0E0U	0	0	99	0E9	OVRFW	MECH FAIL	FLOOD				0	00	5
31.	9/20/71	CORPUS-C,TX	INDUS-WASTE	UN	16E4L	0	0	99	0E9	OTHER	CONTR FLRE			SETLG PD		0	05	2
32.	10/15/71	ELMIRA ,NY	INDUS-WASTE	UN	19E0L	0	0	99	0E9	RP-NT	CONTR FLRE	IMP LDG	PRNSLL ERR	COBD DRM		0	02	1
33.	1/31/72	CROCKETT,CA	INDUS-WASTE	UN	0E0U	0	0	99	0E9	OVRFW	UNKNOWN					0	00	6
34.	2/22/72	ESTUARY ,CA	INDUS-WASTE	UN	0E0U	0	0	99	0E9	OVRFW	UNKNOWN					0	00	6
35.	2/29/72	LJNGUIEW,TX	INDUS-WASTE	UN	0E0U	0	0	99	0E9	OVRFW	UNKNOWN					0	00	6
36.	3/28/72	FLOYD ,VA	INDUS-WASTE	UN	10E3K	0	0	99	0E9	RP-TK	COLLSN			TK TRLR		0	02	6
37.	4/30/72	QUINCY ,MA	INDUS-WASTE	UN	0E0U	0	0	99	0E9	OVRFW	UNKNOWN					0	00	6
38.	5/ 4/72	IRONTON ,OH	INDUS-WASTE	UN	0E0U	0	0	99	0E9	OVRFW	FLOOD			SETLG PD		0	05	6
39.	5/12/72	OAKLAND ,CA	INDUS-WASTE	UN	0E0U	0	0	99	0E9	OVRFW	HSE,CPL FA					0	04	6
40.	5/15/72	EUCL ID ,OH	INDUS-WASTE	UN	0E0U	0	0	99	0E9	OVRFW	UNKNOWN					0	04	6
41.	5/15/72	CLEVLAND,OH	INDUS-WASTE	UN	0E0U	0	0	99	0E9	OVRFW	UNKNOWN					0	04	6
42.	5/16/72	99	,PA	INDUS-WASTE	UN	21E1L	0	0	99	0E9	OVRFW	PRNSLL ERR	UNKNOWN			0	00	6
43.	5/17/72	99	,MD	INDUS-WASTE	UN	16E1L	0	0	99	0E9	OVRFW	UNKNOWN				0	02	6
44.	5/17/72	KANAWA-R,WV	INDUS-WASTE	UN	38E2L	0	0	99	0E9	OVRFW	OPN VALVE			PIPES		0	04	6
45.	5/22/72	PAWTUXET,R I	INDUS-WASTE	UN	0E0U	0	0	99	0E9	OVRFW	UNKNOWN			PIPES		0	00	6
46.	5/22/72	99	,NJ	INDUS-WASTE	UN	0E0U	0	0	99	0E9	OVRFW	UNKNOWN				0	00	6
47.	5/23/72	PITTSBRG,PA	INDUS-WASTE	UN	0E0U	0	0	99	0E9	OVRFW	MECH FAIL					0	04	6
48.	5/24/72	BOSTON ,MA	INDUS-WASTE	UN	0E0U	0	0	99	0E9	OVRFW	UNKNOWN			PIPES		0	02	6
49.	5/24/72	99	,NJ	INDUS-WASTE	UN	0E0U	0	0	99	0E9	OTHER	UNKNOWN				0	04	6
50.	6/ 9/72	SAN-PABL,CA	INDUS-WASTE	UN	0E0U	0	0	99	0E9	OVRFW	HSE,CPL FA			PIPES		0	02	6
51.	6/28/72	LAKEWOOD,CO	INDUS-WASTE	UN	0E0U	0	0	99	0E9	OVRFW	UNKNOWN					0	05	6
52.	6/29/72	BALTIMOR,MD	INDUS-WASTE	UN	0E0U	0	0	99	0E9	OTHER	UNKNOWN					0	06	5
53.	7/19/72	TEXAS-CI,TX	INDUS-WASTE	UN	95E0L	0	0	99	0E9	OVRFW	UNKNOWN			SHIP		0	00	6
54.	10/10/72	OAKLAND ,CA	INDUS-WASTE	UN	0E0U	0	0	99	0E9	OVRFW	UNKNOWN					0	00	6
55.	10/31/72	99	,NJ	INDUS-WASTE	UN	19E3L	0	0	99	0E9	OVRFW	MECH FAIL				0	04	6
56.	11/26/72	URAVAN ,CO	INDUS-WASTE	UN	0E0U	0	0	99	0E9	OVRFW	PRNSLL ERR	UNKNOWN		STO TANK		0	03	6
57.	11/13/72	99	,MD	INDUS-WASTE	UN	38E1L	0	0	99	0E9	OVRFW	PRNSLL ERR	INTNL REL			0	04	6
58.	11/13/72	99	,MD	INDUS-WASTE	UN	0E0U	0	0	99	0E9	OVRFW	INTNL REL				0	04	6
59.	12/15/72	PLAINSVL,OH	INDUS-WASTE	UN	76E3L	0	0	99	0E9	OVRFW	PWR FLRE					0	00	6
60.	2/ 1/73	LOVLAND ,CO	INDUS-WASTE	UN	20E4L	0	0	99	0E9	OTHER	MECH FAIL			SETLG PD		0	06	6
61.	3/23/71	RICHMOND,CA	INDWST-ACID	UN	0E0U	0	0	99	0E9	OTHER	UNKNOWN					0	00	6
62.	4/11/72	DIXMOOR ,IL	INDWST-ACID	UN	0E0U	0	0	99	0E9	RP-TK	EXPLOSION	FIRE		STO TANK		0	05	6
63.	4/11/72	CLEVELAND,OH	INDWST-FEO	UN	0E0U	0	0	99	0E9	OVRFW	MECH FAIL			IND MACH		0	04	6

CHLOROFORM SPILLS

DATE	LOCATION	MATERIAL	CLASS	Q U A N T I T Y	F A T I N J U R I E S	A L I I E S	H A Z A R D	P R I M A R Y	D M G \$	CAUSE	2ND CAUSE	3RD CAUSE	4TH CAUSE	CONTAINER	M	O P S O EA QR UE PA
1. 3/ 5/73	BAYONNE ,NJ	CHLOROFORM	BP	4E0L	0	0	1	0E9 OTHER		UNKNGWN				GBTL/CTN	0 02 1	

CHLOROSULFONIC ACID SPILLS

DATE	LOCATION	MATERIAL	CLASS	Q U A N T I T Y	F A T I N J U R I E S	A L I I E S	H A Z A R D	P R I M A R Y	D M G \$	CAUSE	2ND CAUSE	3RD CAUSE	4TH CAUSE	CONTAINER	M	O P S O EA QR UE PA
1. 3/21/72	99 ,99	CHLOROSULFO	CL	57E0L	0	0	1	0E9 RP-NT		SHRP OBJ	IMP LDG			STL DRUM	0 02 1	
2. 6/15/72	ENGLWOOD,NJ	CHLOROSULFO	CL	19E1L	0	0	1	50E0 RP-TK		CONTR FLRE	DFCTV WELD			TK TRLR	0 02 1	
3. 6/23/72	LAKE-CHA,LA	CHLOROSULFO	CL	1E0L	3	0	1	35E1 RP-NT		CONTR FLRE	UNKNOWN			GBTL/CTN	0 01 1	
4. 5/23/73	MENTOR ,OH	CHLOROSULFO	CL	85E3K	0	0	6	97E2 RP-TK		LKG CVR	ORLMENT			TK CR RR	0 02 1	

CHROMATES SPILLS---SYN.---SODIUM CHROMATE

DATE	LOCATION	MATERIAL	CLASS	Q U A N T I T Y	F A T I N J U R I E S	A L I I E S	H A Z A R D	P R I M A R Y	D M G \$	CAUSE	2ND CAUSE	3RD CAUSE	4TH CAUSE	CONTAINER	M	O P S O EA QR UE PA
1. 6/15/73	HENRIETA,OK	CHROMATES	BP	10E5L	0	0	10	0E9 OVRFW		INTNL REL	VANDALISM			STO TANK	0 06 2	
2. 7/27/68	GUADALUP,CA	SODIUM-CHRM	BP	0E0U	0	0	0	0E9 OTHER		UNKNOWN					0 06 6	
3. 3/12/73	OTTER-CR,OH	SODIUM-CHRM	BP	22E1L	0	0	0	0E9 TS FL		UNKNOWN					0 04 2	
4. 3/12/73	TOLEDO ,OH	SOD-CHR-SOL	BP	22E1L	0	0	1	0E9 OVRFW		HSE,CPL FA				BOILER	0 04 2	

CHROMIC ACID SPILLS---SYN.--CHROMIC SOLUTION

DATE	LOCATION	MATERIAL	CLASS	Q U A N T I T Y	F A T N J L H U I A R T Z I I A E E R S S D	P R I M A R Y	DMG\$	CAUSE	2ND CAUSE	3RD CAUSE	4TH CAUSE	CONTAINER	M	
1.10/15/69	RICHMOND,CA	CHPOMIC-ACI	BP	0E0U	0	0	99	0E9	OTHER	MECH FAIL			0	04 6
2. 5/ 6/71	GD RAP ID,MI	CHROMIC-ACI	BP	75EOL	0	0	1	0E0	RP-NT	STRK BY V	PRNSLL ERR	STL DRUM	0	05 3
3.11/15/72	SA FE SP,CA	CHROMIC-ACI	BP	45EOK	0	0	1	0E0	RP-NT	MTRL DFCT	IMPR CNTNR	PLSTC DR	0	02 1
4.12/10/72	ST-PAUL ,MN	CHROMIC-ACI	BP	95E1L	0	0	1	0E9	RP-TK	CONTR FLRE	MTRL DFCT	STO TANK	1	03 6
5.10/17/72	NEWTON-F,OH	CHROMIC-ACI	BP	49E3L	0	0	7	0E9	OVRFW	MECH FAIL		STO TANK	0	03 6
6.10/28/71	YORK ,PA	CHRO-ACI-SL	BP	11EOL	0	0	1	0E9	RP-NT	DROPPED		PLSTC BT	0	01 1
7. 4/29/72	CORINTH ,KY	CHRO-ACI-SL	BP	49EOL	0	0	1	60E0	RP-NT	CONTR FLRE	IMP LDG	GLS CRBY	0	02 1
8. 9/ 6/72	CLEVELND,OH	CHRO-ACI-SL	BP	23E1K	0	0	1	50E1	RP-NT	CONTR FLRE	MTRL DFCT	FBRE DRM	0	02 1

COPPER SULFATE SPILLS

DATE	LOCATION	MATERIAL	CLASS	Q U A N T I T Y	F A T N J L H U I A R T Z I I A E E R S S D	P R I M A R Y	DMG\$	CAUSE	2ND CAUSE	3RD CAUSE	4TH CAUSE	CONTAINER	M		
1.10/ 9/72	GRNSBORO,NC	COPPER-SULF	BP	0E0U	0	0	99	0E0	RP-NT	SPKLRS OSC	FIRE	SPON COMB	STL DRUM	4	03 3
2. 5/ 3/72	SANDUSKY,OH	COPPER-SULF	BP	0E0U	0	0	99	0E9	OTHER	UNKNOWN		DUMP	1	03 6	

CREOSOTE SPILLS

DATE	LOCATION	MATERIAL	CLASS	Q U A N T I T Y	F A T N J L H U I A R T Z I I A E E R S S D	P R I M A R Y	DMG\$	CAUSE	2ND CAUSE	3RD CAUSE	4TH CAUSE	CONTAINER	M	
1. 3/17/73	GAINSVIL,FL	CREOSOTE	FL	19E2L	0	0	3	0E9	RP-TK	CONTR FLRE	EXPLOSION	BOILER	0	04 2

CRESYLIC ACID SPILLS

DATE	LOCATION	MATERIAL	CLASS	Q U A N T I T Y	F A T A L I T Y	P R I M A R Y	D M G %	CAUSE	2ND CAUSE	3RD CAUSE	4TH CAUSE	CONTAINER	M
1. 8/12/71	FAPMNGTN,NM	CRESYLIC-AC	BP 2EOL	0 0 1	0 0 1	0E9	RP-NT	CONTR FLRE	MTRL DFCT			STL DRUM	0 00 1
2. 9/ 1/71	SILKIRK ,NY	CRESYLIC-AC	BP 21E1L	1 0 1	0E9	TS FL	HSE,CPL FA					TK TRLR	0 21 1
3. 11/24/71	SHARON ,PA	CRESYLIC-AC	BP 19EOL	0 0 1	25E0	RP-NT	BODY FLRE	IMP LDG				STL DRUM	0 02 1
4. 3/ 9/72	ATLANTA ,GA	CRESYLIC-AC	BP 11EOL	0 0 1	0E9	RP-NT	UNKNOWN					STL DRUM	0 02 1

CUPRIC HYDROXIDE SPILLS

DATE	LOCATION	MATERIAL	CLASS	Q U A N T I T Y	F A T A L I T Y	P R I M A R Y	D M G %	CAUSE	2ND CAUSE	3RD CAUSE	4TH CAUSE	CONTAINER	M
1. 10/27/71	SEATTLE ,WA	CUPRIC-HYDP	BP 16EOL	0 0 99	24E0	RP-NT	SHRP OBJ	UNKNOWN					0 02 1

CYANIDE OF SODIUM SPILLS---SYN.--SODIUM CYANIDE

DATE	LOCATION	MATERIAL	CLASS	Q U A N T I T Y	F A T A L I T Y	P R I M A R Y	D M G %	CAUSE	2ND CAUSE	3RD CAUSE	4TH CAUSE	CONTAINER	M
1. 9/ 9/71	BRISBANE,CA	CYANIDE-SOD	BP 13E1L	0 0 2	25E0	RP-NT	SHRP OBJ	UNKNOWN				STL DRUM	0 02 1
2. 1/ 4/72	AT-SEA ,	CYANIDE-SOD	BP 0E0U	0 0 99	40E1	RP-NT	CONTR FLRE	IMP LDG				STL DRUM	0 02 1
3. 3/27/72	NEWARK ,NJ	CYANIDE-SOD	BP 10E1K	0 0 2	20E1	RP-TK	CONTR FLRE	DFCTV WELD				PRTBL TK	0 02 1
4. 3/ 2/73	BRADDOCK,PA	CYANIDE-SOD	BP 2ECL	0 0 1	5E0	RP-NT	CONTR FLRE	UNKNOWN				STL DRUM	0 02 1
5. 6/19/73	CLEVELAND,OH	SODIUM-CYND	BP 0E0U	0 0 99	0E9	RP-NT	LSE CP,CVR	UNKNOWN				STL DRUM	0 02 1

CYANIDE SPILLS---SYN.--POTASSIUM CYANIDE--CYANIDE SOLUTION-UNSPEC.

DATE	LOCATION	MATERIAL	CLASS	BP	REOL	0	0	1	DMG\$	CAUSE	2ND CAUSE	3RD CAUSE	4TH CAUSE	CONTAINER	M
1. 7/26/71	SAN-ANGL,TX	CYANIDE-SOL	BP	REOL	0	0	1	15E1	RP-NT	CONTR FLRE	OVRPRES		STL DRUM	0	02 1
2. 8/11/71	PITTSBRG,PA	CYNID-OF-PT	BP	4ECK	0	0	1	20E0	RP-NT	CONTR FLRE	IMP LDG		STL DRUM	0	02 1
3. 9/19/72	PRVDENCE,RI	CYANIDE-SOL	BP	OE0U	0	0	99	0E0	OVRFW	FORGN SUBS	SPKLRS DSC	FIRE	DIP TANK	0	04 3
4. 11/15/71	CHERYVIL,NC	POT-CYANIDE	BP	19ECL	0	0	3	30E0	RP-NT	SHRP OBJ	DROPPED	IMP? HNDLG	STL PAIL	0	01 1
5. 6/15/73	TULSA ,OK	POT-CYANIDE	BP	38E2L	0	0	10	0E9	RP-TK	MTRL DFCT			STO TANK	0	03 2
6. 5/ 6/71	GD RAPID,MI	CYANIDE	BP	1E3L	0	0	8	0E0	RP-NT	STRK BY V	PRNSLL ERR		STL DRUM	1	05 3
7. 5/27/72	TULSA ,OK	CYANIDE	BP	OE0U	0	0	99	0E9	OTHER	UNKNOWN				0	02 6
8. 8/18/72	GD RAPID,MI	CYANIDE	BP	1ECK	0	0	1	10E0	RP-NT	IMPR HNDLG	PRNSLL ERR		GBTL/CTN	0	01 1
9. 2/16/73	BOSTON ,MA	CYNID-OF-PT	BP	4ECK	0	0	1	50E0	RP-NT	LSE CP,CVR			PLSTC BT	0	01 1

CYANO PYRIDINE SPILLS

DATE	LOCATION	MATERIAL	CLASS	BP	REOL	0	0	99	DMG\$	CAUSE	2ND CAUSE	3RD CAUSE	4TH CAUSE	CONTAINER	M
1. 6/13/73	FREPORT,TX	CYANO-PYRID	CL	57E3L	0	0	99	0E9	RP-TK	VALVE BKN			STO TANK	0	03 2

CYCLOHEXANE SPILLS

DATE	LOCATION	MATERIAL	CLASS	BP	REOL	0	0	2	DMG\$	CAUSE	2ND CAUSE	3RD CAUSE	4TH CAUSE	CONTAINER	M
1. 6/12/73	ORANGE ,TX	CYCLOHEXANE	FL	76E1L	0	0	2	0E9	TS FL	UNKNOWN					0

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DATE	LOCATION	MATERIAL	CLASS	1	2	3	4	DMG\$	CAUSE	2ND CAUSE	3RD CAUSE	4TH CAUSE	CONTAINER	M
1. 6/ 2/71	DENVER ,CO	CYTHION-INS	BP	7ECL	0	0	1	12E1	RP-NT	LSE	CP,CVR		STL DRUM	0 02 1
2. 7/10/71	PISCATAWAY, ID	MALATHION	BP	1EOL	0	0	1	18E2	RP-NT	LSE	CP,CVR		STL DRUM	0 02 1

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DICHLORO BENZOYL PEROXIDE SPILLS																		
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				Y	E	E	R					Y						
				S	S	S	D											
DATE	LOCATION	MATERIAL	CLASS		DMG	\$	CAUSE	2ND CAUSE	3RD CAUSE	4TH CAUSE	CONTAINER	M						
1. 1/25/73	NEW YORK, NY	DICHLORO PE	BP	12E1L	2	0	1	0EO	RP-NT	CONTR	FLRE	EXPLOSION	CHMCAL	RE FBRE	DRM	0	03	3

DICHLOROETHYL ETHER SPILLS

DATE	LOCATION	MATERIAL	CLASS	Q U A N T I T Y	F A I L U R E S	I N J U R I E S	A L I I E R D	H A Z A R D	P R I M A R Y	DMG\$	CAUSE	2ND CAUSE	3RD CAUSE	4TH CAUSE	CONTAINER	M	O P S O E A U Q R U E C P A E
1. 9/19/71	EFFINGHAM, IL	DICHLOROETH	BP	21E1L	5	0	1	30E2	RP-NT	CONTR	FLRE	UNKNOWN			STL DRUM	0 02 1	
2. 7/13/72	GREENBRO, NC	DICHLOROETH	BP	19E0L	0	0	1	0E9	RP-NT	SHRP	OBJ	UNKNOWN			STL DRUM	0 02 1	

DIELDPIN SPILLS

DATE	LOCATION	MATERIAL	CLASS	Q U A N T I T Y	F A I L U R E S	I N J U R I E S	A L I I E R D	H A Z A R D	P R I M A R Y	DMG\$	CAUSE	2ND CAUSE	3RD CAUSE	4TH CAUSE	CONTAINER	M	O P S O E A U Q R U E C P A E
1. 4/ 2/71	BILLINGS, MT	DIELDPIN	BP	1E0K	0	0	1	10E1	RP-NT	SHRP	OBJ				PA BAG	0391 1	

DIETHYL SULFATE SPILLS

DATE	LOCATION	MATERIAL	CLASS	Q U A N T I T Y	F A I L U R E S	I N J U R I E S	A L I I E R D	H A Z A R D	P R I M A R Y	DMG\$	CAUSE	2ND CAUSE	3RD CAUSE	4TH CAUSE	CONTAINER	M	O P S O E A U Q R U E C P A E
1. 2/11/71	MAPION, IL	DIETH-SULFA	CL	15E3L	0	0	6	0E9	OTHER	UNKNOWN					TK TRLR	0 00 2	

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DODECYL PHENOL SPILLS

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DYNAFUME SPILLS

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DATE	LOCATION	MATERIAL	CLASS	Q	U	Q	U	DMG\$	CAUSE	2ND CAUSE	3RD CAUSE	4TH CAUSE	CONTAINER	M	PK	Q	U
1. 3/20/72	SPOKANE ,WA	DYNAFUME	BP 76EOL	0	0	99		10E1	RP-NT	SHRP OBJ	UNKNOWN		STL DRUM	0	51	1	

ETHYL ACRYLATE SPILLS

DATE	LOCATION	MATERIAL	CLASS	Q U A N T I T Y	F A T A L I T I E S	H A Z A R D	P R I M A R Y	D M G \$	CAUSE	2ND CAUSE	3RD CAUSE	4TH CAUSE	CONTAINER	M
1. 2/ 9/73	WILMINGT,MA	ETH-ACRILAT	FL 19EOL	0 0 1	0 0 1	0 0 1	0 0 1	0 0 1	RP-NT	SHRP OBJ	UNKNOWN		STL DRUM	0 02 1

ETHYL BENZENE SPILLS

DATE	LOCATION	MATERIAL	CLASS	Q U A N T I T Y	F A T A L I T I E S	H A Z A R D	P R I M A R Y	D M G \$	CAUSE	2ND CAUSE	3RD CAUSE	4TH CAUSE	CONTAINER	M
1. 5/ 5/71	INDUSTRY,CA	ETH-BENZENE	FL 0E0U	0 0 99	0 0 99	0 0 99	0 0 99	0 0 99	RP-TK	RLF VAL OP	OVRPRES	MECH FAIL	CKG/MX T	1 04 3
2. 4/25/73	ATCHAF-3,LA	ETH-BENZENE	FL 64E4L	0 0 9	0 0 9	0 0 9	0 0 9	0 0 9	RP-TK	SHRP OBJ	COLLSN		BARGE TK	0 02 2

ETHYL BUTYRALDEHYDE SPILLS

DATE	LOCATION	MATERIAL	CLASS	Q U A N T I T Y	F A T A L I T I E S	H A Z A R D	P R I M A R Y	D M G \$	CAUSE	2ND CAUSE	3RD CAUSE	4TH CAUSE	CONTAINER	M
1. 4/ 7/72	KANAWHAR,WV	ETH-BUTYRAL	FL 11E3L	0 0 2	0 0 2	0 0 2	0 0 2	0 0 2	OVRFW	PRNSLL ERR			BARGE TK	0 01 2
2. 8/ 7/72	KANAWHAR,WV	ETH-BUTYRAL	FL 0E0U	0 0 99	0 0 99	0 0 99	0 0 99	15E3	OVRFW	GAU MS/DFC	PRNSLL ERR			0 01 2
3. 8/ 7/72	KANAWHA ,WV	ETH-BUTYRAL	FL 11E3L	0 0 2	0 0 2	0 0 2	0 0 2	0 0 2	OVRFW	PRNSLL ERR	UNKNOWN		BARGE TK	0 01 6

ETHYLENE DIBROMIDE SPILLS

DATE	LOCATION	MATERIAL	CLASS	Q	U	A	N	I	T	F	A	P	O
				Y	S	S	S	D					
1. 5/ 6/71	MILWAKEE,WI	ETH-DIBROMI	BP 30EOL	0	0	1	0E9	RP-NT	CONTR	FLRE	IMP	LGD	STL PAIL 0 02 1
2. 10/ 9/71	SEATTLE ,WA	ETH-DIBROMI	BP 1EOL	0	0	1	0E9	RP-NT	MTRL	DFCT			STL PAIL 0 01 1
3. 1/28/72	NEW-OLNS,LA	ETH-DIBROMI	BP 0E0	0	0	99	0E9	RP-NT	FORKLIFT		PRNSLL	FRR	STL DRUM 0 50 1
4. 5/30/72	EDGEWOOD,IL	ETH-DIBROMI	BP 0E0U	0	0	99	0E9	RP-TK	UNKNOWN		ORLMENT		TK CR RR 0 02 6

ETHYLENE DICHLORIDE SPILLS

DATE	LOCATION	MATERIAL	CLASS	Q	U	A	N	I	T	F	A	P	O
				Y	S	S	S	D					
1. 10/ 8/71	BRENT-HA,MI	ETH-DICHLOR	FL 75E2L	0	0	5	85E1	RP-TK	LKG	CVR			TK TRLR 0362 1
2. 6/15/72	ST-FRNCS,AR	ETH-DICHLOR	FL 83E1K	0	0	2	20E2	RP-NT	SHRP	OBJ	COLLSN	UNKNOWN	STL DRUM 0 02 1
3. 12/11/72	CHICAGO ,IL	ETH-DICHLOR	FL 26E1L	0	0	1	36E1	RP-NT	IMP	LGD	MECH	FAIL	STL DRUM 0 02 1

ETHYL HEXANOL SPILLS

DATE	LOCATION	MATERIAL	CLASS	Q	U	A	N	I	T	F	A	P	O
				Y	S	S	S	D					
1. 2/13/73	TEXAS-CI,TX	ETH-HEXANOL	FL 76EOL	0	0	1	0E9	OTHER	UNKNOWN				0 01 2

ETHYL PARATHION SPILLS---SYN.--PARATHION LIQUID

DATE	LOCATION	MATERIAL	CLASS	Q U A N T I T Y	F A T I N J U R I I E S	A L H A Z A R D S	D M G \$	C A U S E	2ND CAUSE	3RD CAUSE	4TH CAUSE	C O N T A I N E R	M
1. 4/ 4/71	KANSAS-C,KS	PARATHION-L	BP	8ECL	0	0	2 30E1	RP-NT	BODY FLRE			STL DRUM	0 02 1
2. 6/23/71	KANSAS-C,KS	ETH-PARATHI	BP	1EOL	1	0	1 30E0	RP-NT	MTRL DFCT			STL DRUM	0 71 1
3. 5/ 1/72	SNTA-CLA,CA	ETH-PARATHI	BP	11ECL	0	0	2 26E1	RP-NT	CONTR FLRE	UNKNOWN		STL DRUM	0 02 1
4. 6/ 5/71	YUBA-CTY,CA	PARATHION-L	BP	1EOK	0	0	1 40E1	RP-NT	CONTR FLRE	IMP LDG		STL DRUM	0 02 1
5. 6/30/71	OMAHA ,NB	PARATHION-L	BP	37ECL	2	0	5 25E3	RP-NT	LSE CP,CVR	IMP LDG		STL DRUM	0 02 1
6. 7/ 2/71	SLT-CK-C,UT	PARATHION-L	BP	1EOL	0	0	1 0E9	RP-NT	UNKNOWN			STL PAIL	0 02 1
7. 7/ 8/71	NEW-ORLN,LA	PARATHION-L	BP	14E3L	0	0	10 0E9	RP-NT	CONTR FLRE	DROPPED		STL DRUM	0 01 1
8. 9/17/71	VERNON ,CA	PARATHION-L	BP	19EOL	0	0	3 15E1	RP-NT	FORKLIFT	PRNSLL ERR		STL DRUM	0 52 1
9. 9/30/71	NEW-ORLN,LA	PARATHION-L	BP	2EOL	0	0	1 67E1	RP-NT	SHRP OBJ	IMP LDG		STL DRUM	0 02 1
10. 2/22/72	SALINAS ,CA	PARATHION-L	BP	8ECL	0	0	2 38E0	RP-NT	CONTR FLRE	CONTR FLRE	PRNSLL ERR	STL PAIL	0 01 1
11. 3/21/72	LURBCOCK,TX	PARATHION-L	BP	21E1L	0	0	6 0E9	RP-NT	CONTR FLRE	MTRL DFCT		STL DRUM	0 02 1
12. 5/ 9/72	99 ,99	PARATHION-L	BP	1ECK	0	0	1 0E9	RP-NT	CONTR FLRE	UNKNOWN		STL PAIL	0 02 1
13. 5/ 9/72	NEW-ORLN,LA	PARATHION-L	BP	11ECL	0	0	2 0E9	RP-NT	CONTR FLRE	MTRL DFCT		STL DRUM	0 02 1
14. 5/17/72	SOUTHGAT,CA	PARATHION-L	BP	1ECL	0	0	1 23E1	RP-NT	SHRP OBJ	UNKNOWN		STL PAIL	0 02 1
15. 6/ 8/72	STUNS-PT,WI	PARATHION-L	BP	8EOL	3	0	2 10F2	RP-NT	FORKLIFT	PRNSLL ERR			0 01 1
16. 6/16/72	READING ,PA	PARATHION-L	BP	8EOL	0	0	2 35E2	RP-NT	SHRP OBJ	IMP LDG		STL PAIL	0 02 1
17. 6/20/72	DEERFLD ,MA	PARATHION-L	BP	1EOK	0	0	1 0E9	RP-NT	LSE CP,CVR			STL PAIL	0 02 1
18. 6/20/72	ULESLACO,TX	PARATHION-L	BP	4ECL	0	0	1 10E2	RP-NT	CONTR FLRE			STL DRUM	0 01 1
19. 6/24/72	IMPERIAL,CA	PARATHION-L	BP	18F2K	0	0	9 0E9	QVRFW	EXPLOSION	FIRE			2 01 6
20. 7/12/72	HARTFORD,CT	PARATHION-L	BP	19ECL	0	0	3 1E3	RP-NT	SHRP OBJ	IMP LDG		STL PAIL	0 02 1
21. 8/ 4/72	N-LTL-RK,AR	PARATHION-L	BP	17EOL	0	0	3 0E9	RP-NT	SHRP OBJ	PRNSLL ERR		STL PAIL	0 01 1
22. 9/21/72	PHOENIX ,AZ	PARATHION-L	BP	1EOL	0	0	1 10E1	RP-NT	CONTR FLRE	IMP LDG		STL PAIL	0 02 1
23. 2/14/73	LOS-ANGL,CA	PARATHION-L	BP	1EOK	0	0	1 50E0	RP-NT	CONTR FLRE	MTRL DFCT		STL DRUM	0 02 1
24. 3/21/73	SLT-LK-C,UT	PARATHION-L	BP	1EOL	0	0	1 0E9	RP-NT	CONTR FLRE	UNKNOWN		STL PAIL	0 02 1
25. 4/26/73	SALT-L-C,UT	PARATHION-L	BP	1EOL	0	0	1 75E0	RP-NT	CONTR FLRE	IMP LDG			0 02 1
26. 5/ 2/73	CHARLSTN,SC	PARATHION-L	BP	1EOL	0	0	1 0E9	RP-NT	MTRL DFCT			STL PAIL	0 02 1

ETHYLAMINE, ANHYDROUS SPILLS

DATE	LOCATION	MATERIAL	CLASS	Q U A N T I T Y	F A T I N J U R I I E S	A L H A Z A R D S	D M G \$	C A U S E	2ND CAUSE	3RD CAUSE	4TH CAUSE	C O N T A I N E R	M
1. 4/15/73	PETERSBG,VA	ETHAMIN-ANH	FL	5EOK	0	0	1 0E9	RP-NT	LSE CP,CVR	PRNSLL ERR		STL DRUM	0 02 1

ETHER SPILLS

DATE	LOCATION	MATERIAL	CLASS	Q U A N T I T Y	F A T T E R S	I N J U R I E S	H A Z A R D	P R I M A R Y	D M G\$	CAUSE	2ND CAUSE	3RD CAUSE	4TH CAUSE	CONTAINER	M
1. 2/ 8/72	SPOKANE ,WA	ETHER	FL 21E1L	0	0	1	10E2	RP-NT	CONTR	FLRE	MTRL	DFCT		STL DRUM	0 02 1

FATTY ACIDS SPILLS

DATE	LOCATION	MATERIAL	CLASS	Q U A N T I T Y	F A T T E R S	I N J U R I E S	H A Z A R D	P R I M A R Y	D M G\$	CAUSE	2ND CAUSE	3RD CAUSE	4TH CAUSE	CONTAINER	M
1. 10/13/70	CHICAGO ,IL	FATTY-ASIDS	UN 19E0L	0	0	1	0E9	OVRFW	EXCESS	TMP	CNTRL	INOP		STL PAIL	0 04 3
2. 4/18/73	JACKSNBG,WV	FATTY-ACIDS	UN 19E1L	0	0	1	0E9	RP-TK	DRLM&OVRTN					TK CR RR	0 02 2
3. 4/25/73	JACKSNBG,WV	FATTY-ACID	UN 50E0L	0	0	1	0E9	RP-TK	CONTR	FLRE	DRLMENT			TK CR RR	0 02 2
4. 5/ 1/73	JACKSNBG,WV	FATTY-ACID	UN 38E1L	0	0	1	0E9	RP-TK	CONTR	FLRE	DRLMENT			TK CR RR	0 02 2
5. 0/ 0/70	COMMERCE,CA	FATTY ACIDS	UN 76E2L	0	0	3	0E0	OVRFW	CHMCAL	RE	IMPR	EQ OP	PRNSLL ERR	CKG/MX T	0 04 3
6. 5/30/70	CNCYNATI,OH	FATTY ACIDS	FL 76E1L	0	0	99	0E0	OVRFW	CHMCAL	RE				STO TANK	0 04 3

FERRIC CHLORIDE SPILLS

DATE	LOCATION	MATERIAL	CLASS	Q U A N T I T Y	F A T T E R S	I N J U R I E S	H A Z A R D	P R I M A R Y	D M G\$	CAUSE	2ND CAUSE	3RD CAUSE	4TH CAUSE	CONTAINER	M
1. 5/18/72	BEDFORD ,MI	FERRIC-CHLO	DX 15E3L	0	0	6	0E9	OVRFW	RPTRO	PIPE	UNKNOWN			STO TANK	0 03 6

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DATE	LOCATION	MATERIAL	CLASS	DMG\$	CAUSE	2ND CAUSE	3RD CAUSE	4TH CAUSE	CONTAINER	M
1. 7/13/72	CONWAY ,PA	FLUOSULFONI	CL 45E1K	0 0 1	50E1 RP-TK	LSE CP,CVR			TK CR RR	0 02 1

DATE	LOCATION	MATERIAL	CLASS	DMG\$	CAUSE	2ND CAUSE	3RD CAUSE	4TH CAUSE	CONTAINER	M
1. 9/ 9/71	BRUNSWIC,MD	FORMALDEHYD	FL 15E3L	0 0 6	0E9 RP-TK	BODY FLRE	PRNSLL ERR		TK TRLR	0 02 5
2. 6/15/72	HOUSTON ,TX	FORMALDEHYD	FL 11E2L	2 0 1	0E0 RP-NT	EXPLOSION	CHMCAL RE	FORGN SUBS	STL DRUM	2 04 3
3. 9/ 2/72	REFUGIO ,TX	FORMALDEHYD	FL 91E2K	0 0 5	0E9 RP-TK	CONTR FLRE	OVRTURN		BK TRLR	0 02 6
4. 9/ 5/72	FARMVILL,NC	FORMALDEHYD	FL 32E1K	0 0 5	0E9 OVRFW	PRNSLL ERR			STO TANK	1 03 6

DATE	LOCATION	MATERIAL	CLASS	DMG\$	CAUSE	2ND CAUSE	3RD CAUSE	4TH CAUSE	CONTAINER	M
1. 2/ 3/71	LOS-ANGL,CA	FORMIC-ACID	CL OEO	0 0 99	18EO	RP-NT	UNKNOWN		STL DRUM	0 02 1
2. 4/22/71	MILWAUKEE,WI	FORMIC-ACID	CL 25EOL	0 0 1	20EO	RP-NT			GLS BTLS	0 02 1
3. 2/21/73	CONCORD ,NC	FORMIC-ACID	CL 38E1L	0 0 1	10E1	TS FL	HSE,CPL FA	UNKNOWN	TK TRLR	0 51 1

GASOLINE ADDITIVE-UNSPECIFIED SPILLS

DATE	LOCATION	MATERIAL	CLASS	Q	U	A	N	I	T	F	A	P	O	P	S	O	E	A	U	Q	R	R	U	E	C	P	A	E
1. 9/ 4/72	,PA	GASOLINE	AD UN	57E3L	0	0	99	0E0	RP-NT	EXPLOSION	FIRE	VANDALISM	STL PAIL	0	03	3												

GLYCERIN SPILLS

DATE	LOCATION	MATERIAL	CLASS	Q	U	A	N	I	T	F	A	P	O	P	S	O	E	A	U	Q	R	R	U	E	C	P	A	E
1.12/13/72	IUKA	,IL GLYCERIN	FL	0E0U	0	0	99	0E9	RP-TK	CONTR FLRE	DRLMENT	TK CR RR	1	02	6													

GLYOXAL SPILLS

DATE	LOCATION	MATERIAL	CLASS	Q	U	A	N	I	T	F	A	P	O	P	S	O	E	A	U	Q	R	R	U	E	C	P	A	E
1.11/14/72	HICKORY ,NC	GLYOXAL	FS	38E2L	0	0	1	0E9	RP-TK	OVRTURN		TK TRLR	0	02	2													
2.11/14/72	HICKORY ,NC	GLYOXAL	FS	38E1L	0	0	1	0E9	RP-TK	CONTR FLRE	COLLSN	TK TRLR	0	02	6													

GUTHION SPILLS

DATE	LOCATION	MATERIAL	CLASS	Q U A N T I T Y	F A T I N J U R I E S	A L L I E S	H A Z A R D	P R I M A R Y	D M G \$	C A U S E	2ND CAUSE	3RD CAUSE	4TH CAUSE	C O N T A I N E R	M
1. 5/ 5/71	OKLAHO-C,OK	GUTHION	BP	2EOL	0	0	1	0E9	RP-NT	LSE CP,CVR				STL PAIL	0 02 1
2. 8/ 8/71	DALLAS ,TX	GUTHION	BP	4ECL	0	0	1	50E0	RP-NT	SHRP OBJ	UNKNOWN			STL DRUM	0 02 1

HEAT TRANSFER OIL SPILLS

DATE	LOCATION	MATERIAL	CLASS	Q U A N T I T Y	F A T I N J U R I E S	A L L I E S	H A Z A R D	P R I M A R Y	D M G \$	C A U S E	2ND CAUSE	3RD CAUSE	4TH CAUSE	C O N T A I N E R	M
1. 5/15/72	HENDRSON,NV	HEAT XFR	OIL UN	76E1L	0	0	99	0E0	RP-TK	MTRL DFCT				SLUDGE D	0 04 3
2. 3/14/73	MORGNTN ,NC	HEAT XFR	OIL UN	0E0U	0	0	99	0E0	RP-NT	MECH FAIL	MTRL DFCT			PIPES	0 04 3
3. 4/15/73	PENNSUCO,FL	HEAT XFR	OIL UN	0E0U	0	0	99	0E0	TS FL	RPTRD PIPE	MTRL DFCT			CKG/MX T	0 04 3

HEPTANE SPILLS

DATE	LOCATION	MATERIAL	CLASS	Q U A N T I T Y	F A T I N J U R I E S	A L L I E S	H A Z A R D	P R I M A R Y	D M G \$	C A U S E	2ND CAUSE	3RD CAUSE	4TH CAUSE	C O N T A I N E R	M
1. 5/23/72	KENDVA ,WV	HEPTANE	FL	19E2L	0	0	1	0E9	OVRFW	VALVE BKN	MECH FAIL			PIPES	0 02 6

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HERBICIDE SPILLS

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DATE	LOCATION	MATERIAL	CLASS				DMG\$	CAUSE	2ND CAUSE	3RD CAUSE	4TH CAUSE	CONTAINER	M
1. 3/13/69	NAPA ,CA	HERBICIDE	BP 38E3L	0	0	6	0E9	OVRFW	OPN VALVE			STO TANK	1 03 6
2. 5/ 3/71	AMARILLO,TX	HERBICIDE	BP 1EOL	0	0	99	0E9	RP-NT	UNKNOWN			STL PAIL	0 02 1
3. 8/17/71	WNSTN-SL,NC	HERBICIDE	BP 1EOL	0	0	99	0E9	RP-NT	SHRP OBJ	IMP LDG		STL PAIL	0 02 1
4.10/26/71	BROWNSVL,TX	HERBICIDE	BP 57ECL	0	0	99	27E1	RP-NT	FORKLIFT	PRNSLL ERR		STL DRUM	0 11 1
5. 5/31/72	TACOMA ,WA	HERBICIDE	BP 4ECL	0	0	9	0E9	OVRFW	PRNSLL ERR	GAU MS/DFC		STO TANK	0 03 6
6. 6/24/72	IMPERIAL,CA	HERBICIDE	BP 18E2K	0	0	99	0E9	OVRFW	EXPLOSION	FIRE			2 01 6
7.11/13/72	SEATTLE ,WA	HERBICIDE	BP 1EOL	0	0	99	10E0	RP-NT	CONTR FLRE	MTRL DFCT		STL DRUM	0 02 1
8. 2/ 8/73	YORK ,PA	HERBICIDE	BP 1EOK	0	0	99	25E0	RP-NT	UNKNOWN			STL PAIL	0 02 1
9. 5/ 2/73	CHERRYVL,NC	HERBICIDE	BP 11ECL	0	0	99	15E0	RP-NT	CONTR FLRE	DROPPED		GBTL/CTN	0 01 1

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DATE	LOCATION	MATERIAL	CLASS	DMG\$	CAUSE	2ND CAUSE	3RD CAUSE	4TH CAUSE	CONTAINER	M
1. 2/22/72	PINSON ,GA	HEXAMETHYLE	CL 30E3L	0 0 3	30E2 RP-TK	SHRP OBJ	DRLMENT		TK CR RR	0 02 1
2. 2/21/73	TAFT ,LA	HEXAMETHYLE	CL 0E0U	0 0 99	0E9 RP-TK	CONTR FLRE	COLLSN		TK CR RR	1 02 6

HEXACHLOROCYCLOPENTADINE SPILLS

DATE	LOCATION	MATERIAL	CLASS	Q	U	A	N	I	T	Y	DMG\$	CAUSE	2ND CAUSE	3RD CAUSE	4TH CAUSE	CONTAINER	M
1. 5/29/71	LACROSSE,WI	HEXCHLOR-CY	BP	2EOL	0	0	0	1	50E9	RP-NT	BODY FLRE	DROPPED					0 01 1

HYDROCHLORIC ACID SPILLS---SYN---MURIATIC ACID

DATE	LOCATION	MATERIAL	CLASS	Q	U	A	N	I	T	Y	DMG\$	CAUSE	2ND CAUSE	3RD CAUSE	4TH CAUSE	CONTAINER	M
1. 2/23/71	DALLAS ,TX	HYDROCHLORI	CL 13E3L	0	0	6	55E1	TS FL								TK CR RR	0 01 1
2. 7/15/71	PHOENIX ,AZ	HYDROCHLORI	CL 10E0	0	0	1	0E9	RP-NT	CONTR FLRE	IMP LRG							1 02 1
3.10/22/71	MONUMENT,NM	HYDROCHLORI	CL 38E2L	0	2	4	0E9	RP-TK	CONTR FLRE	OVRTURN						TK TRLR	0 02 1
4. 0/ 0/72	TALOR ,MI	HYDROCHLORI	CL 19E2L	0	0	3	0E9	RP-TK	CONTR FLRE	UNKNOWN						STO TANK	0 03 6
5. 1/13/72	JACKSONV,FL	HYDROCHLORI	CL 18E0L	0	0	1	20E0	RP-TK	LKG CVR	UNKNOWN						TK CR RR	0 01 1
6. 3/23/72	LEBANON ,KY	HYDROCHLORI	CL 38E1L	0	0	1	20E1	OVRFW	PRNSLL ERR	UNKNOWN						STO TANK	0 01 1
7. 5/ 5/72	ANTIOCH ,CA	HYDROCHLORI	CL 36E4L	0	0	10	0E9	OVRFW	UNKNOWN	UNKNOWN							0 00 6
8. 5/10/72	BAKER SFI,CA	HYDROCHLORI	CL 76E0L	0	0	1	13E1	RP-NT	CONTR FLRE	UNKNOWN						STL DRUM	0 01 1
9. 5/25/72	ORLANDO ,FL	HYDROCHLORI	CL 4E0K	0	0	1	54E0	RP-NT	UNKNOWN	UNKNOWN						GLS BTLS	0 01 1
10. 6/16/72	S-CHRLST,OH	HYDROCHLORI	CL 19E0L	0	0	1	65E1	RP-NT	LSE CP,CVR							PBTL/CTN	0 02 1
11. 6/26/72	DENVER ,CO	HYDROCHLORI	CL 76E1L	0	0	1	0E9	OVRFW	INTNL REL	NMRL OP							0 04 6
12. 8/14/72	S-CHICGO,IL	HYDROCHLORI	CL 76ECL	0	0	1	30E0	TS FL	MECH FAIL							TK TRLR	0 01 1
13. 8/22/72	CHICAGO ,IL	HYDROCHLORI	CL 89E1L	0	0	2	85E1	OVRFW	PRNSLL ERR	GAU MS/DFC						STO TANK	0 51 1
14. 8/31/72	KILGORE ,TX	HYDROCHLORI	CL 19E2L	0	0	3	75E0	TS FL	HSE,CPL FA	VHCL MVD				PRNSLL ERR		TK TRLR	0 21 1
15. 9/10/72	HENDRSON,KY	HYDROCHLORI	CL 50E2L	0	0	4	10E2	RP-TK	CONTR FLRE	MTRL DFCT						TK CR RR	0 02 1
16. 9/17/72	CHICAGO ,IL	HYDROCHLORI	CL 95E2L	0	0	5	0E9	RP-TK	MTRL DFCT							TK CR RR	0 02 1
17. 9/26/72	ODESSA ,TX	HYDROCHLORI	CL 57E2L	0	0	5	10E3	RP-TK	SHRP OBJ	OVRTURN				RDWY CONDS		TK TRLR	0 02 1
18. 9/26/72	SLT-LK-C,UT	HYDROCHLORI	CL 0E0U	0	0	99	0E9	RP-TK	GSKT FAIL							TK CR RR	0 01 6
19.12/ 2/72	SALT-L-C,UT	HYDROCHLORI	CL 30E3L	0	0	7	0E9	RP-TK	CONTR FLRE	OVRTURN				MECH FAIL		TK TRLR	0 02 6
20.12/12/72	POTSTOWN,PA	HYDROCHLORI	CL 90E2L	0	0	5	0E9	RP-TK	CONTR FLRE	COLLSN				UNKNOWN		TK TRLR	0 02 6
21.12/28/72	FAIRLESS,PA	HYDROCHLORI	CL 19E1L	0	0	1	50E0	OVRFW	PRNSLL ERR							STO TANK	0 51 1
22. 1/15/73	HUNTSVIL,AL	HYDROCHLORI	CL 11E2L	0	0	2	80E1	RP-TK	CONTR FLRE	UNKNOWN						TK TRLR	0 51 1
23. 1/30/73	JACKSON ,MI	HYDROCHLORI	CL 15E2L	1	0	3	60E0	TS FL	HSE,CPL FA	LSE CP,CVR						TK TRLR	0 51 1
24. 3/ 7/73	MACON ,GA	HYDROCHLORI	CL 76E1L	0	0	2	0E9	RP-TK	CONTR FLRE	UNKNOWN						TK CR RR	0 02 1
25. 3/ 7/73	MACON ,GA	HYDROCHLORI	CL 19E1L	0	0	1	30E1	RP-TK	BODY FLRE	UNKNOWN						TK CR RR	0 02 1
26. 5/ 4/73	DEER PARK,TX	HYDROCHLORI	CL 19E0L	0	0	1	10E0	RP-TK	OPN VALVE	PRNSLL ERR						TK TRLR	0 51 1
27. 2/ 1/71	MILLIS ,MA	MURIATIC-AC	CL 57E0L	0	0	1	20E0	RP-NT	BODY FLRE							DELDRUM	0 02 1
28. 8/29/71	LAFAYELE,IN	MURIATIC-AC	CL 30E2K	0	0	1	37E1	RP-TK	CONTR FLRE	MTRL DFCT						TK CR RR	0 01 1
29. 1/23/72	CLARKSVL,OH	MURIATIC-AC	CL 0E9	0	0	99	0E9	RP-TK	RDWY CONDS							TK CR RR	0 02 1
30. 3/26/72	EDGEWOOD,DE	MURIATIC-AC	CL 44E3K	0	0	5	14E2	OTHER	UNKNOWN							TK CR RR	0 02 1
31. 4/26/72	LOUISVLE,KY	MURIATIC-AC	CL 14E3L	0	0	4	39E1	RP-TK	CONTR FLRE	MTRL DFCT						TK TRLR	0 02 1

32.	5/ 4/72	CHICAGO ,IL	MURIATIC-AC	CL 59E2L	0	0	2	23E1	RP-TK	CONTR FLRE	MTRL DFCT		TK TRLR	0	00	1
33.	5/16/72	FAIRLESH,PA	MURIATIC-AC	CL 38E1L	0	0	1	25E0	RP-TK	VALVE BKN		TK TRLR	0	01	1	
34.	8/ 7/72	IVORYRCK,PA	MURIATIC-AC	CL 19E1L	0	0	1	10E0	TS FL	HSE,CPL FA		TK TRLR	0	51	1	
35.	8/14/72	BAYONE ,NJ	MURIATIC-AC	CL 57E2L	0	0	2	19E2	RP-TK	CONTR FLRE	UNKNOWN	TK TRLR	0	01	1	
36.	8/21/72	MOCCASIN,MT	MURIATIC-AC	CL 79E1L	0	0	1	0E9	RP-TK	OVRTURN	UNKNOWN	TK TRLR	0	02	1	
37.	9/ 7/72	LEXNGTON,TN	MURIATIC-AC	CL 21E1L	0	0	2	14E0	OVRFW	UNKNOWN		STO TANK	0	51	1	
38.	9/12/72	BAKER SFL,CA	MURIATIC-AC	CL 95E2L	0	0	3	50E1	RP-TK	VALVE BKN	PRNSLL ERR	TK TRLR	0	50	1	
39.	12/ 8/72	99 ,99	MURIATIC-AC	CL 23E3L	0	0	4	60E1	RP-TK	CONTR FLRE	OVRPRES	MTRL DFCT	STO TANK	0	01	1
40.	12/14/72	MT-PLESN,PA	MURIATIC-AC	CL 76E1L	0	0	1	0E9	OVRFW	CONTR FLRE	UNKNOWN	STO TANK	0	01	1	
41.	2/24/73	COLUMBUS,OH	MURIATIC-AC	CL 45E2L	0	0	2	15E1	RP-TK	COLLSN		TK TRLR	0	422	1	
42.	3/ 1/73	ST-GEORG,UT	MURIATIC-AC	CL 76E1L	0	0	1	75E0	RP-TK	BODY FLRE	UNKNOWN	TK TRLR	0	02	1	
43.	3/28/73	JACKSON ,MI	MURIATIC-AC	CL 19E1L	0	0	1	5E0	OVRFW	GAU MS/DFC		STO TANK	0	01	1	
44.	6/18/73	COLUMBUS,OH	MURIATIC-AC	CL 3E2L	0	0	3	12E2	OTHER	UNKNOWN		SS CRBY	0	01	1	

HYDROFLUORIC ACID,AQUEOUS SPILLS

DATE	LOCATION	MATERIAL	CLASS	CL	DMG\$	CAUSE	2ND CAUSE	3RD CAUSE	4TH CAUSE	CONTAINER	M					
1.	6/29/71	KINGSPRT,TN	AQ-HYDR-ACD	CL 68ECK	0	0	1	10E1	RP-NT	CONTR FLRE	MTRL DFCT	STL DRUM	0	02	1	
2.	10/12/72	COLUMBUS,OH	HYDR-ACD-AQ	CL 4E0L	0	0	1	4E0	RP-NT	UNKNOWN		55 G DRM	0	01	1	
3.	3/13/73	PHILLIPS,NJ	HYDR-ACD-AQ	CL 76E0L	0	0	1	10E2	RP-NT	CONTR FLRE	OVRTURN	IMP LDG	STL DRUM	0	92	1
4.	4/10/73	NORFOLK ,VA	HYDR-ACD-AQ	CL 11E1L	0	0	1	20E2	RP-NT	CONTR FLRE	MTRL DFCT	55 G DRM	0	01	1	

HYDROFLUOSILICIC ACID SPILLS

DATE	LOCATION	MATERIAL	CLASS	CL	DMG\$	CAUSE	2ND CAUSE	3RD CAUSE	4TH CAUSE	CONTAINER	M			
1.	8/11/71	NEWORLEA,LA	HYDROFLUOSI	CL 11E1L	0	0	2	0E9	RP-NT	SHRP OBJ	C0BD DRM	0	02	1
2.	2/23/73	WILTON ,CT	HYDROFLUOSI	CL 10E1L	0	0	2	25E0	OVRFW	GAU MS/DFC	STO TANK	0	41	1

HYDROGEN PEROXIDE SPILLS

DATE	LOCATION	MATERIAL	CLASS	Q U A N T I T Y	F A T I N J U R I E S	D M G \$	CAUSE	2ND CAUSE	3RD CAUSE	4TH CAUSE	CONTAINER	M
1. 8/ 7/71	BLAINE ,TN	HYDROGEN-PE	CL 37E2L	1 0 7	60E2	RP-NT	CONTR FLRE	CLS&OVRTN			CDBD DRUM	0 02 1
2. 1/31/72	WOBURN ,MA	HYDROGEN-PE	CL 21E1L	0 0 3	0E9	RP-NT	CONTR FLRE	IMPR HNDLG	PRNSLL ERR		STL DRUM	0 01 1
3. 4/20/72	SLADEN ,MS	HYDROGEN-PE	CL 13E3K	0 0 9	64E2	RP-TK	CLS&OVRTN				TK TRLR	0 02 1
4. 4/22/72	99 ,99	HYDROGEN-PE	CL 82E1K	1 0 5	35E3	RP-NT	CONTR FLRE	OVRTURN			STL DRUM	0 02 1
5. 5/ 5/72	PHILADEL,PA	HYDROGEN-PE	CL 17E1K	0 0 3	52E0	OVRFW	PRNSLL ERR	UNKNOWN			TK TRLR	0 01 1
6. 8/ 1/72	LONGVIEW,WA	HYDROGEN-PE	CL 63E1L	0 0 5	0E0	RP-NT	SHRP OBJ	IMPR HNDLG	INTVL REL		STL DRUM	0 71 1
7. 4/ 6/73	MERIDIN ,CT	HYDROGEN-PE	CL 8ECL	0 0 1	0E9	RP-NT	CONTR FLRE	IMP LDG			GBTL/CTN	0 02 1
8. 6/18/73	SECAUCUS,NJ	HYDROGEN-PE	CL 21E1L	0 0 3	80E0	RP-NT	SHRP OBJ	UNKNOWN			55 G DRUM	0 01 1

HYDROXYETHYL ACRYLATE SPILLS---(ACRYLIC ACID, 2-HYDROXYETHYL ESTER)

DATE	LOCATION	MATERIAL	CLASS	Q U A N T I T Y	F A T I N J U R I E S	D M G \$	CAUSE	2ND CAUSE	3RD CAUSE	4TH CAUSE	CONTAINER	M
1. 8/30/71	DETROIT ,MI	HYDROX-ACRE	CL 21E0L	0 0 1	30E1	RP-NT	SHRP OBJ	COLLSN		PRNSLL ERR	STL DRUM	0 91 1

INK SPILLS

DATE	LOCATION	MATERIAL	CLASS	Q U A N T I T Y	F A T I N J U R I E S	D M G \$	CAUSE	2ND CAUSE	3RD CAUSE	4TH CAUSE	CONTAINER	M
1. 8/ 7/71	W-MIDLSX,PA	INK	FL 38E0L	0 0 99	75E0	RP-NT	CONTR FLRE	IMP LDG			PLS PAIL	0 02 1
2. 9/ 8/71	HAYWOOD ,CA	INK	FL 4E0L	0 0 99	10E0	RP-NT	FORKLIFT	PRNSLL ERR			STL DRUM	0 01 1
3. 9/20/71	HAVERHIL,MA	INK	FL 95E0L	0 0 99	10E1	RP-NT	FORKLIFT	PRNSLL ERR			STL DRUM	0 51 1
4. 9/26/71	WNST-SLM,NC	INK	FL 21E1L	0 0 99	0E9	RP-NT	FORKLIFT				STL DRUM	0 51 1
5. 1/24/72	CINCINAT,OH	INK	FL 21E1L	0 0 99	34E1	RP-NT	CONTR FLRE	MTRL DFCT			STL DRUM	0 02 1
6. 4/14/72	AZUSA ,CA	INK	FL 59E1L	0 0 99	60E1	RP-NT	SHRP OBJ	IMP LDG			STL PAIL	0 82 1
7. 5/17/72	AZUSA ,CA	INK	FL 57ECL	0 0 99	11E1	RP-NT	SHRP OBJ	IMP LDG			STL PAIL	0 02 1
8. 5/24/72	FRST VEW,IL	INK	FL 22E3L	0 0 4	0E0	RP-NT	EXPLOSION	FIRE		ELCT ARCNG	STL DRUM	2 03 3
9. 7/19/72	FT-MORGAN,CO	INK	FL 23E1L	0 0 99	10E2	RP-NT	CONTR FLRE	MTRL DFCT			TK TRLR	0 02 1
10. 7/19/72	FT MORGAN,CO	INK	FL 23E1L	0 0 99	10E2	RP-NT	MTRL DFCT				STL DRUM	0 01 1

11. 7/26/72	MALCOLM ,IA	INK	FL 44E1L	0	0	99	12E2	OVRFW	MTRL DFCT	IMPR CNTNR	STL DRUM	0	02	1	
12. 8/ 9/72	HYTSVILLE,MD	INK	FL 15E2L	0	0	99	0E9	RP-NT	CONTR FLRE	UNKNOWN	STL DRUM	0	02	1	
13. 4/24/73	RICHMOND,VA	INK	FL 21E1L	0	0	99	0E9	RP-NT	CONTR FLRE	MTRL DFCT	STL DRUM	0	02	1	
14. 6/ 3/73	E LNSDWN,PA	INK	FL 21E3L	0	0	99	0E9	RP-NT	EXPLOSION	FIRE	VANDALISM	STL DRUM	0	03	3

INSECTICIDE SPILLS (UNSPECIFIED)

DATE	LOCATION	MATERIAL	CLASS	Q	I	F	P							
				U	N	A	R							
				A	J	L	I							
				N	U	I	M							
				I	R	I	A							
				T	E	E	R							
				Y	S	S	D							
								DMG\$	CAUSE	2ND CAUSE	3RD CAUSE	4TH CAUSE	CONTAINER	M
1. 4/10/71	ST-LOUIS,MO	INSECTICIDE	BP	0E0U	0	0	99	50E0	RP-NT	SHRP OBJ	UNKNOWN			0 02 1
2. 6/18/71	KENNEWIK,WI	INSECTICIDE	BP	1E0K	0	0	99	0E9	RP-NT	CONTR FLRE	MTRL DFCT	STL DRUM	0 02 1	
3. 6/28/71	DALLAS ,TX	INSECTICIDE	BP	4E0L	0	0	99	0E9	RP-NT	SHRP OBJ	UNKNOWN	STL PAIL	0 02 1	
4. 7/12/71	FRESNO ,CA	INSECTICIDE	BP	1E0K	0	0	99	31E0	RP-NT	SHRP OBJ	IMP LDG	PA BAG	0 02 1	
5.11/19/71	LOS-ANGL,CA	INSECTICIDE	BP	1E0L	0	0	99	0E9	RP-NT	CONTR FLRE	MTRL DFCT	STL PAIL	0 02 1	
6.12/30/71	EL-CNTRD,CA	INSECTICIDE	BP	11E0L	0	0	9	23E0	RP-NT	BODY FLRE	UNKNOWN	STL DRUM	0 02 1	
7. 1/10/72	CHICAGO ,IL	INSECTICIDE	BP	19E0L	0	0	99	20E0	RP-NT	SHRP OBJ	DROPPED	STL DRUM	0 01 1	
8. 1/14/72	BERKLEY ,CA	INSECTICIDE	BP	0E0U	0	0	9	0E9	OTHER	PRNSLL ERR			0 00 6	
9. 1/24/72	99 ,99	INSECTICIDE	BP	1E0L	0	0	99	25E0	OTHER	UNKNOWN		PA BAG	0 02 1	
10. 2/15/72	ST-LOUIS,MO	INSECTICIDE	BP	19ECL	0	0	99	20E0	RP-NT	CONTR FLRE	UNKNOWN	GBTL/CTN	0 02 1	
11. 2/22/72	ALBANY ,GA	INSECTICIDE	BP	17E1L	0	0	99	0E9	RP-NT	UNKNOWN		STL PAIL	0 02 1	
12. 3/ 3/72	GOLDSBRG,NC	INSECTICIDE	BP	4E0L	0	0	99	0E9	RP-NT	CONTR FLRE	UNKNOWN	STL DRUM	0 02 1	
13. 4/18/72	JACKSONV,FL	INSECTICIDE	BP	8E0L	0	0	99	20E0	RP-NT	CONTR FLRE	UNKNOWN	GBTL/CTN	0 02 1	
14. 4/19/72	PDCATELO,ID	INSECTICIDE	BP	19ECL	0	0	99	85E0	RP-NT	MTRL DFCT		STL DRUM	0 02 1	
15. 4/23/72	HARRISBG,PA	INSECTICIDE	BP	1E0L	0	0	99	0E9	RP-NT	SHRP OBJ			0 01 1	
16. 5/20/72	RICHMOND,IN	INSECTICIDE	BP	1E0L	0	0	99	10E0	RP-NT	CONTR FLRE	UNKNOWN	STL DRUM	0 02 1	
17. 6/ 5/72	PHOENIX ,AZ	INSECTICIDE	BP	8E0L	0	0	99	19E0	OTHER	UNKNOWN		GBTL/CTN	0 02 1	
18. 6/ 5/72	TWIN-FLS,ID	INSECTICIDE	BP	76E0L	0	0	99	40E1	RP-NT	SHRP OBJ	IMP LDG	STL DRUM	0 02 1	
19. 6/20/72	ROANOKE ,VA	INSECTICIDE	BP	3E0L	0	0	99	15E0	RP-NT	CONTR FLRE	DROPPED	GBTL/CTN	0 02 1	
20. 7/10/72	TOLEDO ,OH	INSECTICIDE	BP	19E0L	0	0	99	40E0	RP-NT	SHRP OBJ		STL PAIL	0 01 1	
21. 7/10/72	SLT-LK-C,UT	INSECTICIDE	BP	4ECL	0	0	99	12E0	RP-NT	CONTR FLRE	DROPPED	GLS BTLS	0 01 1	
22. 7/24/72	MEMPHIS ,TN	INSECTICIDE	BP	4E0L	0	0	99	0E9	RP-NT	CONTR FLRE	DROPPED	GBTL/CTN	0 01 1	
23. 8/ 7/72	TOLEDO ,OH	INSECTICIDE	BP	19E0L	0	0	99	20E0	RP-NT	CONTR FLRE	IMPR HNDLG	PRNSLL ERR	GBTL/CTN	0 01 1
24. 9/13/72	ST-LOUIS,MO	INSECTICIDE	BP	4E0L	0	0	99	50E1	RP-NT	CONTR FLRE	UNKNOWN	GBTL/CTN	0 02 1	
25. 9/22/72	HODGKINS,IL	INSECTICIDE	BP	8E0L	0	0	99	0E9	RP-NT	CONTR FLRE	DROPPED	GBTL/CTN	0 01 1	
26. 9/25/72	DALLAS ,TX	INSECTICIDE	BP	19EQL	0	0	99	0E9	RP-NT	SHRP OBJ	UNKNOWN	STL PAIL	0 02 1	
27. 9/26/72	DIVFRNON,IL	INSECTICIDE	BP	3E0L	0	0	99	0E9	RP-NT	CONTR FLRE	DROPPED	GBTL/CTN	0 02 1	
28. 9/28/72	PLANT-CT,FL	INSECTICIDE	BP	1E0K	0	0	99	25E0	RP-NT	SHRP OBJ	UNKNOWN	CDBD DRM	0 02 1	
29.10/17/72	ROCK-ISL,IL	INSECTICIDE	BP	4E0L	0	0	99	10E0	RP-NT	CONTR FLRE	MTRL DFCT		0 02 1	
30.10/19/72	SLT-LAKE,UT	INSECTICIDE	BP	4ECL	0	0	99	15E0	RP-NT	CONTR FLRE	DROPPED	GBTL/CTN	0 01 1	
31.11/27/72	NEW-ORLN,LA	INSECTICIDE	BP	19E0L	0	0	99	0E9	RP-NT	CONTR FLRE	IMP LDG	STL DRUM	0 02 1	
32. 1/12/73	ST-LOUIS,MO	INSECTICIDE	BP	1E0L	0	0	99	40E0	RP-NT	CONTR FLRE	MTRL DFCT	STL PAIL	0 02 1	
33. 1/31/73	MEMPHIS ,TN	INSECTICIDE	BP	23E0L	0	0	99	0E9	RP-NT	CONTR FLRE	IMP LDG		0 02 1	
34. 2/19/73	SLT-LK-C,UT	INSECTICIDE	BP	43E0L	0	0	99	16E0	RP-NT	CONTR FLRE	DROPPED	GBTL/CTN	0 02 1	
35. 2/26/73	BOISE ,ID	INSECTICIDE	BP	4E0L	0	0	99	20E0	RP-NT	CONTR FLRE	DROPPED	GBTL/CTN	0 01 1	
36. 2/27/73	FRESNO ,CA	INSECTICIDE	BP	1E0K	0	0	99	0E9	RP-NT	CONTR FLRE	DROPPED	GBTL/CTN	0 01 1	
37. 3/ 6/73	DENVER ,CO	INSECTICIDE	BP	1E0K	0	0	99	0E9	RP-NT	LSE CP,CVR		STL PAIL	0 02 1	
38. 3/12/73	PITTSBRG,PA	INSECTICIDE	BP	0E0U	0	0	99	0E9	RP-NT	CONTR FLRE	IMP LDG	FBRE BOX	0 00 1	
39. 4/ 2/73	YAKIMA ,WA	INSECTICIDE	BP	5E0K	0	0	99	0E9	RP-NT	LSE CP,CVR		PA BAG	0 02 1	
40. 4/11/73	NAMPA ,ID	INSECTICIDE	BP	2E0L	0	0	99	0E9	RP-NT	SHRP OBJ	UNKNOWN	PBTL/CTN	0 02 1	
41. 4/12/73	SACRAMNT,CA	INSECTICIDE	BP	0E0U	0	0	99	0E9	RP-NT	SHRP OBJ	UNKNOWN	STL PAIL	0 01 1	

42.	4/16/73	CALDWELL, ID	INSECTICIDE	BP	19E0L	0	0	99	51E0	RP-NT	CONTR FLRE	IMPR HNDLG	STL PAIL	0	01	1
43.	5/ 3/73	SEATTLE, WA	INSECTICIDE	BP	8E0L	0	0	99	60E0	RP-NT	CONTR FLRE	DROPPED	GBTL/CTN	0	01	1
44.	5/ 3/73	AMARILLO, TX	INSECTICIDE	BP	4E0L	0	0	99	15E0	OTHER	UNKNOWN		GLS BTLS	0	01	1
45.	5/14/73	CHAPLOTT, NC	INSECTICIDE	BP	4E0L	0	0	99	0E9	RP-NT	CONTR FLRE	DROPPED	GBTL/CTN	0	01	1
46.	5/17/73	99, CA	INSECTICIDE	BP	4E0L	0	0	99	0E9	RP-NT	CONTR FLRE	DROPPED	GBTL/CTN	0	02	1
47.	5/20/73	POCATELO, ID	INSECTICIDE	BP	30E1L	0	0	99	10E1	RP-NT	BODY FLRE		STL DRUM	0	02	1
48.	6/14/73	LOS-ANGL, CA	INSECTICIDE	BP	4E0L	0	0	99	0E9	RP-NT	SHRP OBJ	UNKNOWN	STL PAIL	0	01	1
49.	6/19/73	SANGER, CA	INSECTICIDE	BP	1F0K	0	0	99	0E9	RP-NT	FORKLIFT	PRNSLL ERR	BGS/CTN	0	51	1

IRON SULFATE SPILLS

DATE	LOCATION	MATERIAL	CLASS						DMG\$	CAUSE	2ND CAUSE	3RD CAUSE	4TH CAUSE	CONTAINER	M		
1. 6/ 6/73	CHAPEL-H, NC	IRON-SULFAT	UN	15E3L	0	0	4	0E9	OTHER	UNKNOWN					1	04	2

ISOBOPENE DII SOC YANATE SPILLS

DATE	LOCATION	MATERIAL	CLASS						DMG\$	CAUSE	2ND CAUSE	3RD CAUSE	4TH CAUSE	CONTAINER	M		
1. 10/27/71	SLT-LK-C, UT	ISOBOPENE-D	BP	38E0L	0	0	4	20E1	RP-NT	MTRL DFCT				STL DRUM	0	01	1
2. 5/21/72	RIDGECRS, CA	ISOBOPENE-D	BP	1E0K	0	0	1	25E0	RP-NT	CONTR FLRE	MTRL DFCT			STL PAIL	0	02	1

ISOPENTANE SPILLS

DATE	LOCATION	MATERIAL	CLASS						DMG\$	CAUSE	2ND CAUSE	3RD CAUSE	4TH CAUSE	CONTAINER	M		
1. 6/27/72	CAMDEN, NJ	ISOPENTANE	FL	15E2L	0	0	1	0E9	RP-TK	MTRL DFCT				TK CR RR	0	02	1

ISOPROPYLAMINE SPILLS

				F A I T N A J L H U I A R T Z I I A E E R S S D		P R I M A R Y						O P S O EA U QP R UE C PA E	
DATE	LOCATION	MATERIAL	CLASS	DMG\$	CAUSE	2ND CAUSE	3RD CAUSE	4TH CAUSE	CONTAINER	M			
1. 2/ 5/71	MOBILE ,AL	ISOPROPY-LA	FL 19E1L	0	0	1 20E0	RP-TK	LSE CP,CVR	TK CR RR	0	02	1	
2. 3/ 2/71	ATLANTA ,GA	ISOPROPY-LA	FL 76FCL	0	0	1 20E1	RP-TK	LSE CP,CVR		0	02	1	

ISOTROL SPILLS

				F A I T N A J L H U I A R T Z I I A E E R S S D		P R I M A R Y						O P S O EA U QR R UE C PA E	
DATE	LOCATION	MATERIAL	CLASS	DMG\$	CAUSE	2ND CAUSE	3RD CAUSE	4TH CAUSE	CONTAINER	M			
1. 1/18/72	WICHTTA ,KA	ISOTPOL	BP 6ECL	0	0	9 0E9	RP-NT	CONTR FLRE UNKNOWN	STL DRUM	0	02	3	

K-72 (POTASSIUM PENTACHLOROPHENATE) SPILLS

				F A I T N A J L H U I A R T Z I I A E E R S S D		P R I M A R Y						O P S O EA U QR R UE C PA E	
DATE	LOCATION	MATERIAL	CLASS	DMG\$	CAUSE	2ND CAUSE	3RD CAUSE	4TH CAUSE	CONTAINER	M			
1. 5/31/72	EVERETT ,WA	K72-POT-PE	BP 57E2L	0	0	5 0E9	OVRFW	UNKNOWN	SETLG PD	0	05	6	

KEPONE TECH SPILLS

DATE	LOCATION	MATERIAL	CLASS	Q U A N T I T Y	F A T A L I T Y	H A Z A R D	P R I M A R Y	D M G \$	CAUSE	2ND CAUSE	3RD CAUSE	4TH CAUSE	CONTAINER	M	O P S	E A U	Q R R	U E C	P A E
1. 4/27/72	99	MD KEPONE-TECH	BP	7E0K	0	0	1	0E9	OTHER	UNKNOWN					0	00	5		

LASSO PESTICIDE SPILLS

DATE	LOCATION	MATERIAL	CLASS	Q U A N T I T Y	F A T A L I T Y	H A Z A R D	P R I M A R Y	D M G \$	CAUSE	2ND CAUSE	3RD CAUSE	4TH CAUSE	CONTAINER	M	O P S	E A U	Q R R	U E C	P A E
1.10/ 6/72	MORRIS ,IL	LASSO-PESTI	BP	47E1L	0	0	1	0E9	RP-TK	UNKNOWN	OVRTURN	UNKNOWN	TK TRLR	0	02	6			

LATEX SPILLS

DATE	LOCATION	MATERIAL	CLASS	Q U A N T I T Y	F A T A L I T Y	H A Z A R D	P R I M A R Y	D M G \$	CAUSE	2ND CAUSE	3RD CAUSE	4TH CAUSE	CONTAINER	M	O P S	E A U	Q R R	U E C	P A E
1. 3/30/71	SWEETWTR,TN	LATEX	UN	64E2K	0	0	99	45E2	RP-TK	EXPLOSION	OVRPRES		STO TANK	0	03	3			
2. 9/22/72	VIRGINIA,WA	LATEX	UN	19E3L	0	0	99	0E9	OVRFW	HSE,CPL FA	UNKNOWN		STO TANK	0	03	6			
3.11/28/72	WASHNGTN,WV	LATEX	UN	38E2L	0	0	99	0E9	OVRFW	MECH FAIL	UNKNOWN		IND MACH	0	04	6			
4.11/29/72	OHIO-RIV,99	LATEX	UN	38E2L	0	0	99	0E9	OVRFW	UNKNOWN				0	01	2			
5. 3/16/73	OHIO-RIV,99	LATEX	UN	38E2L	0	0	99	0E9	TS FL	UNKNOWN				0	04	2			
6. 3/17/73	OHIO-RIV,99	LATEX	UN	38E2L	0	0	99	0E9	TS FL	UNKNOWN				0	01	2			

LEAD ARSENATE SPILLS

DATE	LOCATION	MATERIAL	CLASS	Q U A N T I T Y	F A T N E S	A J L U R I E S	H A Z A R D S	P R I M A R Y	DMG\$	CAUSE	2ND CAUSE	3RD CAUSE	4TH CAUSE	CONTAINER	M
1. 2/11/71	SACRMENT, CA	LEAD-ARSENA	BP	1E0K	0	0	1	0E9 RP-NT SHRP OBJ	IMP LDG					PA BAG	0 02 1
2. 2/15/71	BEAUMONT, TX	LEAD-ARSENA	BP	1E0U	0	0	99	0E9 RP-NT IMP LDG						FBRE BOX	0 02 1
3. 5/ 8/71	LIGONEER, IN	LEAD-ARSENA	BP	86E0K	2	0	1	66E0 RP-NT SHRP OBJ						STL DRUM	0 02 1
4. 6/ 5/71	CLEVELAND, OH	LEAD-ARSENA	BP	1E0K	0	0	1	0E9 RP-NT SHRP OBJ	UNKNOWN					PA BAG	0 02 1
5. 10/ 2/72	HOUSTON, TX	LEAD-ARSENA	BP	1E0K	0	0	1	0E0 RP-NT SHRP OBJ	IMP LDG					PA BAG	0 02 1
6. 2/16/73	SIOUXCTY, IA	LEAD-ARSENA	BP	5E0K	0	0	1	18E0 RP-NT SHRP OBJ	UNKNOWN					PA BAG	0 01 1

LITHIUM BROMIDE SPILLS

DATE	LOCATION	MATERIAL	CLASS	Q U A N T I T Y	F A T N E S	A J L U R I E S	H A Z A R D S	P R I M A R Y	DMG\$	CAUSE	2ND CAUSE	3RD CAUSE	4TH CAUSE	CONTAINER	M
1. 10/24/71	TUCSON, AZ	LITHIUM BRO	UN	0E0U	0	0	99	0E0 RP-TK OVRPRES						IND MACH	0 04 3

LITHIUM HYPOCHLORITE SPILLS

DATE	LOCATION	MATERIAL	CLASS	Q U A N T I T Y	F A T N E S	A J L U R I E S	H A Z A R D S	P R I M A R Y	DMG\$	CAUSE	2ND CAUSE	3RD CAUSE	4TH CAUSE	CONTAINER	M
1. 7/ 6/71	SAN-FRIS, CA	LITHIUM-HYP	OX	68E1K	0	0	1	28E1 RP-NT UNKNOWN						CDBD DRM	0 02 1

MAGNESIUM BASE ACID SPILLS

DATE	LOCATION	MATERIAL	CLASS	Q U A N T I T Y	F A T A L I T Y	H A Z A R D	P R I M A R Y	D M G \$	CAUSE	2ND CAUSE	3RD CAUSE	4TH CAUSE	CONTAINER	M
1.12/28/71	OR CITY ,OR	MAGNESIUM	A CL	OE CU	0	0	99	OE0	RP-TK	OVRPRES	CHMCAL	RE	CKG/MX T	0 04 3

MAGNUS 755 SPILLS

DATE	LOCATION	MATERIAL	CLASS	Q U A N T I T Y	F A T A L I T Y	H A Z A R D	P R I M A R Y	D M G \$	CAUSE	2ND CAUSE	3RD CAUSE	4TH CAUSE	CONTAINER	M
1. 5/18/73	BRISTOL ,UA	MAGNUS-755	FL 19E2L	0	0	99	OE9	OTHER	UNKNOWN					0 04 2
2. 6/11/73	BRISTOL ,UA	MAGNUS-755	FL 19E2L	0	0	3	OE9	OTHER	PRNSLL	ERR				0 03 2

MCS 10-16 SPILLS

DATE	LOCATION	MATERIAL	CLASS	Q U A N T I T Y	F A T A L I T Y	H A Z A R D	P R I M A R Y	D M G \$	CAUSE	2ND CAUSE	3RD CAUSE	4TH CAUSE	CONTAINER	M
1. 3/ 7/73	ROME ,GA	MCS-10-16	UN 83E2L	0	0	99	OE9	OTHER	UNKNOWN				TRNSFRMR	0 03 2

MERCURIC OXIDE SPILLS

DATE	LOCATION	MATERIAL	CLASS	Q	U	A	N	I	T	Y	F	A	T	H	P	R	I	M	A	R	Y	O	P	S	D	EA	U	QR	R	UE	C	PA	E	
1.10/ 7/72	CNCNNATI,OH	MERCURIC OX-	BP 70ECK	0	0	1	0E0	RP-NT	SHRP	OBJ	IMP	LDG																						

PHENYL-MERCURIC LACTATE SPILLS

DATE	LOCATION	MATERIAL	CLASS	Q	U	A	N	I	T	Y	F	A	T	H	P	R	I	M	A	R	Y	O	P	S	D	EA	U	QR	R	UE	C	PA	E	
1.11/13/71	N-PLATTE,NB	PHEN-MRC-LC	BP 25EOL	0	0	1	13E2	RP-NT	SHRP	OBJ	IMPR	HNDLG																						

MERCURY SPILLS

DATE	LOCATION	MATERIAL	CLASS	Q	U	A	N	I	T	Y	F	A	T	H	P	R	I	M	A	R	Y	O	P	S	D	EA	U	QR	R	UE	C	PA	E	
1. 4/20/71	ST-PAUL ,MN	MERCURY	BP 9EOK	0	0	2	11E1	RP-NT	CONTR	FLRE																								
2. 7/ 6/72	LDS-ANGL,CA	MERCURY	BP 1EOL	0	0	1	25E1	OTHER	UNKNOWN																									
3.11/ 3/72	CHICAGO ,IL	MERCURY	BP 16E1K	0	0	6	14E2	RP-NT	DROPPED																									

METAL HYDROXIDE SPILLS

DATE	LOCATION	MATERIAL	CLASS	1	2	3	4	DMG\$	CAUSE	2ND CAUSE	3RD CAUSE	4TH CAUSE	CONTAINER	M
1. 5/11/72	WARREN ,OH	METAL-HYDRO	CL 87E4L	0	0	9	0E9	OVRFW	UNKNOWN					0 04 6

METHYL ACRYLATE SPILLS

DATE	LOCATION	MATERIAL	CLASS	DMG\$	CAUSE 1	2ND CAUSE	3RD CAUSE	4TH CAUSE	CONTAINER	M
1. 8/13/71	KANAWHAR, WV	METH-ACRYLA	FL 11E3L	0	0	10	0E9	OTHER	UNKNOWN	0 03 2
2. 3/13/73	SALISBRY, NC	METH-ACRYLA	FL 15E2L	0	0	2	10E2	RP-TK	CONTR FLRE UNKNOWN	TK TRLR 0 02 1

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DATE	LOCATION	MATERIAL	CLASS	1	2	3	4	DMG\$	CAUSE	2ND CAUSE	3RD CAUSE	4TH CAUSE	CONTAINER	M
1.11/25/72	KANAWHA, WV	METH-AMY-4C	FL	OEQU	0	0	99	OE9	RP-TK	UNKNOWN	DRLMENT		TK CR RR	2 02 6

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U	N	A
A	J	T
N	U	L
I	R	I
T	I	I
Y	E	E
	S	S

DATE	LOCATION	MATERIAL	CLASS	DMG\$	CAUSE	2ND CAUSE	3RD CAUSE	4TH CAUSE	CONTAINER	M
1. 7/31/72	JEFFERSON, CO	METHYLEN-BR	BP 76F1L	0 0 1	0E9	RP-TK	UNKNOWN	OVRTURN	TK TRLR	0 02 6
2. 4/ 4/73	TOLEDO , OH	METHYLEN-BR	BP 68EOL	0 0 1	0E9	RP-NT	FORKLIFT	PRNSLL ERR	STL DRUM	0 12 1

Q U A N T I T Y I N J U R I E S F A T A L I T I E S

DATE	LOCATION	MATERIAL	CLASS	DMG\$	CAUSE	2ND CAUSE	3RD CAUSE	4TH CAUSE	CONTAINER	M
1. 11/28/72	DURHAM, NC	METH-CHLORI	UN 38E2L	0 0 2	0E9 RP-TK	CONTR FLRE	OVRTURN		TK TRLR	0 02 6
2. 8/14/73	SPRING-3, AR	METH-CHLORI	UN 0E0U	0 0 99	0E9 RP-NT	CONTR FLRE	DRLMENT		PBTL/CTN	0 82 2

METHYL ETHYL KETONE SPILLS

DATE	LOCATION	MATERIAL	CLASS	F A T				D	DMG\$	CAUSE	2ND CAUSE	3RD CAUSE	4TH CAUSE	CONTAINER	M
				Q	I	N	A								
1. 2/24/72	BALTIMOR, MD	METH-ETHL-K	FL 12F3	0	0	0	6	0E9	RP-TK	UNKNOWN		COLLSN		TK TRLR	1 02 6
2. 1/18/71	PHILADEL, PA	METH-ETYL-K	FL 68E2L	0	0	0	3	21E2	TS FL	CONTR FLRE		COLLSN	PRNSLL ERR	PIPES	0 01 1
3. 2/26/71	FT-WORTH, TX	METH-ETYL-K	FL 38E1L	0	0	0	1	10E1	RP-TK	LKG CVR		ORLMEQVRTN	PRNSLL ERR	TK CR RR	0 00 1
4. 5/19/71	ESTUARY, CA	METH-ETYL-K	FL 0E0U	0	0	99	0E9	OVRFW	UNKNOWN						0 04 6
5. 12/ 8/71	LAFAYETTE, LA	METH-ETYL-K	FL 12E2L	0	0	0	1	10E1	TS FL	LKG CVR				TK TRLR	0 02 1
6. 2/23/72	BACK-R IV, MD	METH-ETYL-K	FL 23E3L	0	0	0	4	0E9	RP-TK	CONTR FLRE	OVRTURN			TK TRLR	0 02 5
7. 2/24/72	99, MD	METH-ETYL-K	FL 23E3L	0	0	0	4	0E9	RP-TK	CONTR FLRE	OVRTURN			TK TRLR	0 02 5
8. 2/29/72	MELVNDLE, MI	METH-ETYL-K	FL 95E2L	0	0	0	3	0E9	RP-TK	OPN VALVE	PRNSLL ERR			TK CR RR	0 02 1
9. 5/23/72	HOME, PA	METH-ETYL-K	FL 11E3L	1	0	0	3	53E2	RP-TK	LSE CP, CVR	OVRTURN			TK TRLR	0 02 1
10. 6/ 8/73	WILMNGTN, DE	METH-ETYL-K	FL 4ECL	0	0	0	1	0E9	RP-TK	LSE CP, CVR				TK TRLR	0 02 2
11. 12/ 3/71	PLNFIELD, CN	METH-ETYL K	FL 0E0U	0	0	99	0E9	RP-TK	FIRE		ELCT ARCNG IMPR	EQ OP	CKG/MX T	0 04 3	
12. 8/26/70	HASTINGS, MI	METH-ETYL-K	FL 95E0L	2	0	0	1	0E0	TS FL	HSE, CPL FA	MTRL DFCT			IND MACH	0 04 3

METHYL ISOBUTAL KETONE SPILLS

DATE	LOCATION	MATERIAL	CLASS	F A T				D	DMG\$	CAUSE	2ND CAUSE	3RD CAUSE	4TH CAUSE	CONTAINER	M
				Q	I	N	A								
1. 1/20/72	INSTITUT, WV	METH-ISOBUT	FL 0E0U	0	0	0	99	35E3	OVRFW	PRNSLL ERR					0 01 2
2. 1/20/72	KANAWHAP, WV	METH-ISOBUT	FL 38E3L	0	0	0	5	0E9	OVRFW	UNKNOWN					0 03 2
3. 2/24/72	BALTIMOR, MD	METH-ISOBUT	FL 12E3	0	0	0	6	0E9	RP-TK	UNKNOWN		COLLSN		TK TRLR	1 02 6

METHYL PARATHION SPILLS

DATE	LOCATION	MATERIAL	CLASS	F A T				D	DMG\$	CAUSE	2ND CAUSE	3RD CAUSE	4TH CAUSE	CONTAINER	M
				Q	I	N	A								
1. 5/20/71	LUBROCK, TX	METH-PARTHI	BP 8F0L	0	0	0	2	20E1	RP-NT	CONTR FLRE	UNKNOWN			STL DRUM	0 00 1
2. 6/ 4/71	W-SLT-LK, UT	METH-PARTHI	BP 8ECL	0	0	0	2	0E9	RP-NT	SHRP OBJ				STL PAIL	0 02 1
3. 7/ 9/71	99, 99	METH-PARTHI	BP 0E0U	4	0	99	0E9	RP-NT	CONTR FLRE	DROPPED					0 01 2
4. 8/10/71	MEMPHIS, TN	METH-PARTHI	BP 21E1L	0	0	0	6	50E1	RP-NT	SHRP OBJ				STL DRUM	0 01 1

5.	8/25/71	ALRANY ,GA	METH-PARTHI	BP	4ECL	0	0	1	10E1	RP-NT	CONTR	FLRE	DFCTV WELD	STL DRUM	0	02	1
6.	9/ 5/71	HOUSTON ,TX	METH-PARTHI	BP	19EOL	0	0	3	15E2	RP-NT	CONTR	FLRE	IMPR HNDLG	STL DRUM	0	11	1
7.	3/31/72	EVENDALE,OH	METH-PARTHI	BP	19ECL	0	0	3	0E9	RP-NT	CONTR	FLRE	MTRL DFCT	STL DRUM	0	02	1
8.	4/ 1/72	EVANDALE,OH	METH-PARTHI	BP	19EOL	14	0	3	0E9	RP-NT	CONTR	FLRE			0	02	6
9.	5/ 3/72	GREENVIL,MS	METH-PARTHI	BP	1EOL	0	0	1	10E1	RP-NT	CONTR	FLRE	DFCTV WELD	STL DRUM	0	02	1
10.	5/ 4/72	SHREVPRT,LA	METH-PARTHI	BP	4EOL	0	0	1	20E1	RP-NT	CONTR	FLRE	DFCTV WELD	STL DRUM	0	02	1
11.	5/16/72	ATLANTA ,GA	METH-PARTHI	BP	1EOL	0	0	1	46E0	RP-NT	CONTR	FLRE	DFCTV WELD	STL DRUM	0	02	1
12.	6/ 9/72	MEMPHIS ,TN	METH-PARTHI	BP	0E0	0	0	99	0E9	RP-NT	CONTR	FLRE	MTRL DFCT	STL DRUM	0	02	1
13.	6/ 9/72	99	METH-PARTHI	BP	8ECL	0	0	2	0E9	RP-NT	CONTR	FLRE	DFCTV WELD	STL DRUM	0	02	1
14.	6/13/72	UL ESLACO,TX	METH-PARTHI	BP	4ECL	0	0	1	0E9	RP-NT	CONTR	FLRE	DFCTV WELD	STL DRUM	0	02	1
15.	6/30/72	MCALLEN ,TX	METH-PARTHI	BP	15E1L	0	0	6	0E9	RP-NT	CONTR	FLRE	CONTR FLRE	STL DRUM	0	02	1
16.	7/17/72	MCALLEN ,TX	METH-PARTHI	BP	4ECL	0	0	1	25E2	RP-NT	CONTR	FLRE	UNKNOWN	STL DRUM	0	02	1
17.	7/19/72	NEWORLNS,LA	METH-PARTHI	BP	4ECL	2	0	1	15E0	RP-NT	SHRP OBJ		DROPPED	STL DRUM	0991	1	
18.	8/21/72	PHOENIX ,AZ	METH-PARTHI	BP	2ECL	0	0	1	43E1	RP-NT	CONTR	FLRE	IMP LG	STL PAIL	0	02	1
19.	9/ 1/72	CACTUS J,CA	METH-PARTHI	BP	8ECL	0	0	2	20E3	RP-NT	MTRL DFCT			STL PAIL	0	02	1
20.	9/11/72	PHOENIX ,AZ	METH-PARTHI	BP	1EOL	0	0	1	0E9	RP-NT	LSE CP,CVR			STL DRUM	0	02	1
21.	5/ 1/73	LIMA ,OH	METH-PARTHI	BP	4ECL	0	0	1	60E1	RP-NT	LSE CP,CVR			GLS BTLS	0	02	1

METHOXY DIPROPYLENE GLYCOL SPILLS

DATE	LOCATION	MATERIAL	CLASS	DMG\$	CAUSE	2ND CAUSE	3RD CAUSE	4TH CAUSE	CONTAINER	M							
1.	2/19/73	S CHARLS,WV	METHOXYDIPR	BP	23E3L	0	0	9	0E0	RP-TK	EXPLOSION	CHMCAL RE		STL DRUM	0	04	3

METHYL METHACRYLATE SPILLS

DATE	LOCATION	MATERIAL	CLASS	DMG\$	CAUSE	2ND CAUSE	3RD CAUSE	4TH CAUSE	CONTAINER	M						
1.	10/26/72	BRAINTRE,MA	METHMTHACRL	FL	14E0K	0	0	2	38E0	RP-NT	SHRP OBJ		STL DRUM	0	02	1

MOLASSES SPILLS

DATE	LOCATION	MATERIAL	CLASS	Q U A N T I T Y	F A T I N J U R I E S	H A Z A R D	P R I M A R Y	D M G \$	CAUSE	2ND CAUSE	3RD CAUSE	4TH CAUSE	CONTAINER	M	O P S O E A U Q R R U E C P A E
1.11/19/68	SANDIAGO,CA	MOLASSES	UN	0ECU	0	0 99	0E9	OVRFW	INTNL REL	NMRL OP				0 00	6
2.12/20/68	PT ALBANY,NY	MOLASSES	UN	76E5L	0	1 99	0E0	RP-TK	CONTR FLRE	DFCTV WELD		CKG/MX T	0 03	9	
3. 8/ 5/69	OKLAND ,CA	MOLASSES	UN	24E3K	0	0 99	0E9	RP-TK	UNKNOWN	UNKNOWN		TK TRLR	0 02	6	
4. 8/11/69	SAN-FRIS,CA	MOLASSES	UN	0E0U	0	0 99	0E9	OVRFW	UNKNOWN	PRNSLL ERR		SHIP	0 00	6	
5. 4/15/71	ESTUARY ,CA	MOLASSES	UN	0E0U	0	0 99	0E9	OVRFW	UNKNOWN	SHIP SANK		BARGE TK	0 02	6	
6. 5/ 8/72	PORTLAND,OR	MOLASSES	UN	2E0L	0	0 1	0E9	TS FL	HSE,CPL FA				0 01	6	
7.11/11/72	GREELEY ,CO	MOLASSES	UN	60E2L	0	0 99	0E9	RP-TK	VALVE BKN	UNKNOWN		TK CR RR	0 01	6	
8. 2/ 0/73	99 ,99	MOLASSES	UN	0E0U	1	0 99	0E9	OTHER	UNKNOWN			BARGE TK	0 02	2	
9. 6/12/73	IRON-CRE,TX	MOLASSES	UN	0ECU	0	0 10	0E9	RP-TK	DRLM&OVRTN	UNKNOWN		TK CR RR	1 02	2	

MONOCYCLOHEXYLAMINE SPILLS

DATE	LOCATION	MATERIAL	CLASS	Q U A N T I T Y	F A T I N J U R I E S	H A Z A R D	P R I M A R Y	D M G \$	CAUSE	2ND CAUSE	3RD CAUSE	4TH CAUSE	CONTAINER	M	O P S O E A U Q R R U E C P A E
1. 6/13/72	CHESAPKE,VA	MONOCYCLOHEX	FL	42E1L	0	0 1	0E9	RP-NT	CONTR FLRE	DROPPED			STL DRUM	0 01	1

MONOMETHYLHYDRAZINE SPILLS

DATE	LOCATION	MATERIAL	CLASS	Q U A N T I T Y	F A T I N J U R I E S	H A Z A R D	P R I M A R Y	D M G \$	CAUSE	2ND CAUSE	3RD CAUSE	4TH CAUSE	CONTAINER	M	O P S O E A U Q R R U E C P A E
1.10/31/72	PRTR CTR,NY	METHYLHDRZN	FL	47E1L	0	0 7	0E0	RP-TK	EXPLOSION	CHEMICAL RE	FORGN SUBS	STO-TANK	1 05	3	

MULTIPLE SPILLS---SPILLS WITH MORE THAN ONE HAZARDOUS MATERIAL

DATE	LOCATION	MATERIAL	CLASS	Q U A N T I T Y	F A T I N J U R I E S	H A Z A R D O U S	P R I M A R Y	O S P O E A U Q R R U E C P A E	
1. 8/23/72	VICTOR ,FL	MULTIPLE	FS 0ECU	0	0	99	0E9 TS FL HSE,CPL FA	FIRE	2 04 3
2. 4/17/71	E RTHR FD,NJ	MULTIPLE	FS 64E3L	0	0	8	0E0 RP-NT CONTR FLRE	FIRE	2 03 3
3.11/ 6/72	COLUMBIA,PA	MULTIPLE	FL 0ECU	0	0	99	0E9 OVRFW MECH FAIL	BODY FLRE	2 04 3
4.12/30/69	TOLEDO ,OH	MULTIPLE	FL 30E1L	0	0	1	20E0 TS FL HSE,CPL FA	DRLM&OVRTN	RDWY CONDS
5. 6/15/72	HOUSTON ,TX	MULTIPLE	FL 21E1L	2	0	1	0E0 RP-NT EXPLOSION	CHMCAL RE	FORGN SUBS
6. 2/24/72	DBALTIMO,MD	MULTIPLE	FL 25E3L	0	0	6	0E9 RP-TK UNKNOWN	COLLSN	TK TRLR
7.10/19/71	99 ,CO	MULTIPLE	BP 68E0K	0	0	2	27E1 RP-NT UNKNOWN		STL DRUM
8.10/19/71	HOUSTON ,TX	MULTIPLE	FL 13E4L	50	1	7	0E9 RP-TK SHRP OBJ	DRLMENT	TK CR RR
9. 3/13/69	NAPA ,CA	MULTIPLE	BP 76E3L	0	0	6	0E9 OVRFW OPN VALVE	INTNL REL	VANDALISM
10. 5/ 5/73	PUERTO-R,	MULTIPLE	FL 0E0L	0	0	1	0E9 RP-NT BODY FLRE	EXPLOSION	FIRE
11. 5/24/72	FRST VEW,IL	MULTIPLE	FL 66E3L	0	0	4	0E0 RP-NT EXPLOSION	FIRE	ELCT ARCNG
12. 2/10/71	CHICAGO ,IL	MULTIPLE	FL 27E4L	0	0	8	20E3 RP-TK CONTR FLRE	DRLMENT	TK CR RR
13. 6/12/73	IRON-CRE,TX	MULTIPLE	FL 37E3L	0	0	10	0E9 RP-TK DRLM&OVRTN	UNKNOWN	TK CR RR
14. 4/26/73	PULASKI ,VA	MULTIPLE	FL 13E3L	0	0	6	0E9 RP-TK COLLN		TK TRLR
15.12/13/72	IUKA ,IL	MULTIPLE	BP 0E0U	0	0	99	0E9 RP-TK CONTR FLRE	DRLMENT	TK CR RR
16.12/10/72	ST-PAUL ,MN	MULTIPLE	BP 19E2L	0	0	1	0E9 RP-TK CONTR FLRE	MTRL DFCT	STO TANK
17. 9/ 5/72	FARMVILL,NC	MULTIPLE	BP 64E1K	0	0	5	0E9 OVRFW PRNSLL ERR		STO TANK
18. 5/ 3/72	SANDUSKY,OH	MULTIPLE	BP 0E0U	0	0	99	0E9 OTHER UNKNOWN		DUMP
19. 5/ 3/72	ENNIS ,TX	MULTIPLE	OX 76E1L	0	0	1	0E9 OTHER PRNSLL ERR		TK CR RR
20. 9/26/72	BALTIMOR,MD	MULTIPLE	BP 0E0U	0	0	99	0E9 OVRFW SPKLRS DSC	HZRD ML	TRENCH
21. 1/ 9/72	SURGOINS,TN	MULTIPLE	BP 0E0U	0	0	99	0E9 TS FL HSE,CPL FA		
22. 6/24/72	IMPERIAL,CA	MULTIPLE	BP 54E2K	0	0	8	0E9 OVRFW EXPLOSION	FIRE	
23. 5/ 5/71	INDUSTRY,CA	MULTIPLE	BP 0E0U	0	0	99	0E9 RP-TK RLF VAL OP	U N K N O	MECH FAIL
24.11/25/72	CHARLSTN,WV	MULTIPLE	40E3L	0	0	4	0E9 OVRFW DRLMENT		TK CR RR
25. 5/21/72	CARROLTN,GA	MULTIPLE	UN 0E0U	0	0	99	0E9 OVRFW		
26. 2/18/70	DEER PRK,TX	MULTIPLE	CL 37E4K	0	0	8	0E0 RP-TK SHRP OBJ	EXPLOSION	CHMCAL RE
27.10/13/70	APPLETON,WI	MULTIPLE	CL 0E0U	0	0	99	0E0 OVRFW CHMCAL RE	FORGN SUBS	
28.11/13/71	E ST LUS,IL	MULTIPLE	FL 3E4L	0	0	99	0E0 OVRFW OPN VALVE	INTNL REL	VANDALISM
29.12/ 9/72	MODESTO ,CA	MULTIPLE	UN 0E0U	0	0	99	0E0 RP-NT WET PACKNG	SPKLRS DSC	
30. 6/26/72	SLABTOWN,MD	MULTIPLE	BP 83E3L	0	0	10	0E9 RP-TK SHRP OBJ	DRLMENT	TK CR RR
31.11/22/72	SHELTON ,CN	MULTIPLE	FL 91E1K	0	0	2	0E9 OVRFW UNKNOWN	UNKNOWN	IND MACH
32. 5/26/70	HARVEY ,LA	MULTIPLE	UN 42E4L	0	0	99	0E0 RP-TK EXPLOSION	EXCESS TMP	FIRE
33.11/16/70	WINDSOR ,CT	MULTIPLE	UN 0E0	0	0	99	0E9 OVRFW EXPLOSION	FORGN SUBS	
34. 4/12/71	STERLING,IL	MULTIPLE	UN 0E0U	0	0	99	0E9 OVRFW MECH FAIL		
35.10/ 9/72	GRNSBORO,NC	MULTIPLE	BP 0E0U	0	0	99	0E0 RP-NT SPKLRS DSC	FIRE	SPON COMB
36. 5/ 6/71	GD-RAPID,MI	MULTIPLE	BP 2E3L	0	0	8	0E0 RP-NT STRK BY V	PRNSLL ERR	
37. 5/28/71	WAKEFORS,NC	MULTIPLE	CL 76E1L	0	0	5	0E9 RP-NT CONTR FLRE	SHRP OBJ	CONTR FLRE
38. 6/10/71	SBARTONV,IL	MULTIPLE	UN 0E0U	0	0	99	0E9 OVRFW MECH FAIL		
39. 7/15/71	PHOENIX ,AZ	MULTIPLE	CL 11E0L	0	0	1	0E9 RP-NT CONTR FLRE	IMP LDG	PBTL/CTN
40.10/14/71	SBARTONV,IL	MULTIPLE	UN 15E2L	0	0	99	0E9 OVRFW MECH FAIL		
41. 1/30/72	NEWTOWN ,PA	MULTIPLE	CL 0E0U	0	0	99	0E9 OTHER PRNSLL ERR	FIRE	
42. 5/10/72	S-BARTNV,IL	MULTIPLE	UN 0E0U	0	0	99	0E9 TS FL HSE,CPL FA		
43. 5/25/72	SILVAS ,IL	MULTIPLE	UN 0E0U	0	0	99	0E9 TS FL HSE,CPL FA	MLTN METAL	
44. 5/29/72	PHILADEL,PA	MULTIPLE	CL 12E4K	0	0	10	18E3 RP-TK		TK CR RR
45. 6/10/72	ST-CLOUD,MN	MULTIPLE	UN 76E1L	0	0	99	0E9 TS FL HSE,CPL FA	EXPLOSION	

46.	7/13/72	TORONTO ,	MULTIPLE	UN	0ECU	0	0	99	0E9	RP-NT	CONT P FLRE	FIRE	VANDALISM	CDBD DRM	4	03	3
47.	8/12/72	PRKS BURY,PA	MULTIPLE	UN	0E0U	0	0	99	0E0	RP-NT	WET PACKNG	SPKLRS DSC	FIRE	PA BAG	2	03	3
48.	10/ 8/72	BRMNGHAM,AL	MULTIPLE	FL	0E0U	0	0	99	0E0	RP-NT	EXPLOSION	FIRE	VANDALISM	STL PAIL	2	03	3
49.	10/29/72	STERLING,IL	MULTIPLE	UN	0E0U	0	0	99	0E9	OVRFW	MECH FAIL				2	04	3
50.	10/31/72	PRTP CTR,NY	MULTIPLE	FL	94E1L	0	0	7	0E0	RP-TK	EXPLOSION	CHMCL RE	FORGN SUBS	STO TANK	2	05	3
51.	11/25/72	KANAWHA ,WV	MULTIPLE	UN	0E0U	0	0	99	0E9	RP-TK	UNKNOWN	DRLMENT		TK CR PR	3	02	6
52.	12/21/72	BENSNVIL,IL	MULTIPLE	UN	0ECU	0	0	99	0E9	OVRFW	MECH FAIL				2	04	3
53.	1/ 7/73	DESPL-RI,IL	MULTIPLE	CL	14E4L	0	0	19	0F9	RP-TK	MTRL DFCT			STO TANK	2	03	2
54.	2/21/73	TAFT ,LA	MULTIPLE	CL	0ECU	0	0	99	0E9	RP-TK	CONTR FLRE	COLLSN		TK CR RR	2	02	6
55.	3/15/73	QNTARIO ,	MULTIPLE	UN	57E1L	0	0	99	0E9	OVRFW	MECH FAIL				2	04	3
56.	4/11/73	BYESVILL,OH	MULTIPLE	UN	0E0U	0	0	99	0E9	OVRFW	MECH FAIL				2	04	3
57.	6/ 6/73	CHAPEL-H,NC	MULTIPLE	UN	15E3L	0	0	4	0E9	OTHER	UNKNOWN				2	04	2

NAPTHA SPILLS---SYN.--NAPTHALITE

DATE	LOCATION	MATERIAL	CLASS	Q	U	A	N	I	T	Y	S	S	D	DMG\$	CAUSE	2ND CAUSE	3RD CAUSE	4TH CAUSE	CONTAINER	M
1.12/17/70	NORFOLK,VA	NAPTHA	FL	57E1L	0	0	2	38E3	OTHER	INTNL REL	NMRL OP			BAPGE TK	0	01	3			
2. 8/29/72	CORP-CHR,TX	NAPTHA	FL	1E0L	0	0	1	0E9	TS FL	LSE CP,CVR	PRNSLL ERR				0	01	2			
3.12/13/72	LEWISTON,ME	NAPTHA	FL	11E1L	0	2	1	0E0	RP-NT	MTRL DFCT			CKG/MX T	0	04	3				
4.12/18/72	COOK CTY,IL	NAPTHA	FL	28E3L	0	0	7	76E1	RP-TK	CLS&OVRTN	SHRP OBJ		TK TRLR	0	02	1				
5. 1/27/73	MT PLSNT,WI	NAPTHA	FL	87E4L	0	0	10	0E0	RP-TK	SHRP OBJ	DRLM&OVRTN		TK CR RR	0	02	9				
6. 3/30/73	AMBROS-T,NY	NAPTHA	FL	0E0U	0	0	99	0E9	RP-TK	BODY FLRE	UNKNOWN		SHIP	0	02	2				
7. 4/11/73	MILWAUKE,WI	NAPTHA	FL	57E2L	0	0	5	38E1	OVRFW	PRNSLL ERR			STO TANK	0	41	1				
8. 6/14/73	HAMPTON ,SC	NAPHTHALITE	FL	95E0L	0	0	1	0E9	RP-TK	COLLSN			TK TRLR	0	02	2				

NAPHTHALENE SPILLS

DATE	LOCATION	MATERIAL	CLASS	Q	U	A	N	I	T	Y	S	S	D	DMG\$	CAUSE	2ND CAUSE	3RD CAUSE	4TH CAUSE	CONTAINER	M		
1. 1/30/72	NEWTOWN ,PA	NAPHTHALENE-F	BP	0E0U	0	0	99	0E9	OTHER	PRNSLL ERR										4	03	3

NAVANE SPILLS

DATE	LOCATION	MATERIAL	CLASS	Q U A N T I T Y	F A T I N J U R I E S	H A Z A R D S	P R I M A R Y	O P S O E A U Q R R U E C P A E
1.11/ 9/71	KANAWHA, WV	NAVANE	UN 38E2L	0	0	4	DMG\$ CAUSE 2ND CAUSE 3RD CAUSE 4TH CAUSE 0E9 TS FL UNKNOWN	CONTAINER M PIPES 0 02 2

NEMATICIDAL CONCENTRATE SPILLS---SYN. --EMULSIFIABLE NEMATICIDAL CONC.

DATE	LOCATION	MATERIAL	CLASS	Q U A N T I T Y	F A T I N J U R I E S	H A Z A R D S	P R I M A R Y	O P S O E A U Q R R U E C P A E
1. 9/17/71	RICHWOOD, KY	EMUL-NEMATI	BP 11E1L	0	0	99	DMG\$ CAUSE 2ND CAUSE 3RD CAUSE 4TH CAUSE 0E9 RP-NT SHRP OBJ IMP LDG	CONTAINER M STL DRUM 0 02 1

NEOSOL SPILLS

DATE	LOCATION	MATERIAL	CLASS	Q U A N T I T Y	F A T I N J U R I E S	H A Z A R D S	P R I M A R Y	O P S O E A U Q R R U E C P A E
1. 6/ 5/72	BELCAMP, MD	NEOSOL	FL 0E0U	0	0	99	DMG\$ CAUSE 2ND CAUSE 3RD CAUSE 4TH CAUSE 0E0 OVRFW MECH FAIL	CONTAINER M DIP TANK 0 04 3

NICOTINE LIQUID SPILLS

DATE	LOCATION	MATERIAL	CLASS	Q U A N T I T Y	F A T I N J U R I E S	H A Z A R D S	P R I M A R Y	O P S O E A U Q R R U E C P A E
1. 3/28/72	RICHFIELD, OH	NICOTINE-L	BP 4E0L	0	0	1	DMG\$ CAUSE 2ND CAUSE 3RD CAUSE 4TH CAUSE 10E1 OTHER UNKNOWN	CONTAINER M STL PAIL 0 02 1

NILVERM SPILLS

DATE	LOCATION	MATERIAL	CLASS	Q U A N T I T Y	F A T A L I T Y	I N J U R I E S	H A Z A R D	P R I M A R Y	D M G	C A U S E	2ND CAUSE	3RD CAUSE	4TH CAUSE	CONTAINER	M
1. 6/ 8/71	OKLAH-CI,OK	NILVERM	BP 57ECL	0	0	1	0E9	RP-NT	MTRL DFCT					STL DRUM	0 02 1

NITRIC ACID SPILLS

DATE	LOCATION	MATERIAL	CLASS	Q U A N T I T Y	F A T A L I T Y	I N J U R I E S	H A Z A R D	P R I M A R Y	D M G	C A U S E	2ND CAUSE	3RD CAUSE	4TH CAUSE	CONTAINER	M
1. 1/30/72	NEWTOWN ,PA	NITRIC-ACID	CL 0E0U	0	0	99	0E9	OTHER	PRNSLL ERR	FIRE					4 03 3
2. 2/28/71	PRVDENCE,RI	NITRIC-ACID	CL 0E0U	0	0	9	0E0	OTHER	UNKNOWN					DIP TANK	0 04 3
3. 8/19/71	DUNBAR ,WV	NITRIC-ACID	CL 19E0L	1	0	1	50E0	RP-NT	DROPPED					GLS CRBY	0 91 1
4. 9/ 9/71	S-HAVEN ,MI	NITRIC-ACID	CL 28E1L	0	0	4	20E2	OVRFW	GAU MS/DFC					PRTBL TK	0 01 1
5.12/ 6/71	ATHENS ,NY	NITRIC-ACID	CL 8E0L	0	0	1	15E3	RP-TK	UNKNOWN			CLS&OVRTN	RDWY CONDS	TK TRLR	0 02 1
6. 1/14/72	CINCINAT,OH	NITRIC-ACID	CL 30E3L	0	0	10	0E9	RP-TK	UNKNOWN					TK CR RR	0 02 1
7. 3/14/72	BRYAN ,OH	NITRIC-ACID	CL 45E0K	0	0	1	0E9	OVRFW	GAU MS/DFC					STO TANK	0 01 1
8. 5/29/72	PHILADEL,PA	NITRIC-ACID	CL 52E3K	0	0	10	80E1	RP-TK	SHRP OBJ	DRLMENT		UNKNOWN			1 02 1
9. 5/29/72	ASHMORE ,IL	NITRIC-ACID	CL 19E3L	11	0	9	0E9	RP-TK	UNKNOWN			DRLMENT		TK CR RR	0 02 6
10. 7/24/72	WILDWOOD,FL	NITRIC-ACID	CL 27E2L	0	0	2	20E1	TS FL	VALVE BKN					TK TRLR	0 51 1
11. 9/20/72	JCT-CITY,AR	NITRIC-ACID	CL 19E3L	0	0	4	30E2	RP-TK	CONTR FLRE	MTRL DFCT				TK TRLR	0 52 1
12. 1/ 7/73	DESPL-RI,IL	NITRIC-ACID	CL 14E4L	0	0	10	0E9	RP-TK	MTRL DFCT					STO TANK	1 03 2
13. 2/22/73	MIDLAND ,PA	NITRIC-ACID	CL 19E0L	0	0	4	0E9	OVRFW	OPN VALVE	PRNSLL ERR				TK TRLR	0 01 1
14. 3/ 8/73	SHEFIELD,AL	NITRIC-ACID	CL 14E0L	0	0	1	85E0	RP-NT	CONTR FLRE	DROPPED				GBTL/CTN	0 01 1
15. 3/26/73	RIVERSID,AL	NITRIC-ACID	CL 11E2K	0	0	6	25E0	RP-TK	LKG CVR	OVRTURN				TK TRLR	0 02 1
16. 4/13/73	PONTOTOC,MS	NITRIC-ACID	CL 38E1L	0	0	4	50E0	OVRFW	UNKNOWN					STO TANK	0 01 1
17. 5/17/73	BALTIMOR,MD	NITRIC-ACID	CL 27E1L	0	0	4	0E9	RP-NT	CONTR FLRE	DROPPED				STL DRUM	0 01 1

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DATE	LOCATION	MATERIAL	CLASS	DMG\$	CAUSE	2ND CAUSE	3RD CAUSE	4TH CAUSE	CONTAINER	M
1. 3/14/71	JAKSNVIL, FL	NITROBENZEN	BP 56FOL	0 0 5	50E0	RP-NT	SHRP OBJ		STL DRUM	0 01 1
2. 2/12/72	AKRON, OH	NITROBENZEN	BP 15E3L	0 0 9	20E3	RP-TK	CONTR FLRE	UNKNOWN	TK CR RR	0 02 1
3. 12/11/72	TONAWANDA, NY	NITROBENZEN	BP 19EOL	0 0 3	5E0	RP-TK	LSE CP, CVR		TK TRLR	0 02 1

	F		P	O
I	A		R	P
N	T	H	I	S
J	L	A	M	O
U	I	Z	A	E
R	T	A	R	Q
I	E	R	Y	R
E	S	D		UE
S				PA

DATE	LOCATION	MATERIAL	CLASS	DMG\$	CAUSE	2ND CAUSE	3RD CAUSE	4TH CAUSE	CONTAINER	M
1. 5/24/72	FRST VEW, IL	NITROCELULO	FL 22E3L	0 0 4	OEO RP-NT	EXPLCSION	FIRE	ELCT ARCNG	STL DRUM	2 03 3

Q	I	N	J	U	R	I	E	S	F	A	T	A	L	I	T	I	E	S	H	A	Z	A	R	D	P	R	I	M	A	R	Y	O	P	S	O	E	A	U	Q	R	U	E	C	P	A	E
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DATE	LOCATION	MATERIAL	CLASS	DMG\$	CAUSE	2ND CAUSE	3RD CAUSE	4TH CAUSE	CONTAINER	M
1. 6/12/71	SPRTNBRG, SC	NITROCHLOTO	UN 19E2L	0 0 99	0EO	RP-TK	EXPLOSION	CHMCAL	RE	VALVE SHUT CKG/MX T 0 03 3

NITROGEN, LIQUID FERT. SPILLS

DATE	LOCATION	MATERIAL	CLASS	Q	U	A	N	I	T	H	Y	S	D	DMG\$	CAUSE	2ND CAUSE	3RD CAUSE	4TH CAUSE	CONTAINER	M
1. 3/19/73	PENCE, KS	NITROGEN-LI	UN 45E1K	0	0	99	28E1	TS	FL	UNKNOWN								TK TRLR	0 51	1
2. 5/12/73	HAMPSTED, MD	NITROGEN-LI	UN 0E9	0	0	99	0E9	RP-TK	CONTR	FLRE	CLS&OVRTN							TK TRLR	0 02	5
3. 5/22/73	WARWICK, PA	NITROGEN-LI	UN 60E2L	0	0	99	0E9	RP-TK	CONTR	FLRE	OVRTURN							TK TRLR	0 02	2

NITRO PHENOL SPILLS

DATE	LOCATION	MATERIAL	CLASS	Q	U	A	N	I	T	H	Y	S	D	DMG\$	CAUSE	2ND CAUSE	3RD CAUSE	4TH CAUSE	CONTAINER	M
1. 7/19/71	SIGANAW, MI	NITRO-PHENO	BP 14E1L	0	0	3	10E2	RP-NT	CONTR	FLRE	MTRL DFCT							STL DRUM	0 02	1
2. 9/26/72	BALTIMOR, MD	NITRO-PHENO	BP 0E9	0	0	99	0E9	OVRFW	SPKLRS	DSC								TRENCH	1195	5

NUODEX PMA18 SPILLS---SYN---PHENYL-MERCURY ACETATE

DATE	LOCATION	MATERIAL	CLASS	Q	U	A	N	I	T	H	Y	S	D	DMG\$	CAUSE	2ND CAUSE	3RD CAUSE	4TH CAUSE	CONTAINER	M	
1. 11/4/71	99	NUODEX-PMA	BP 1E0L	0	0	1	0E9	RP-NT	UNKNOWN										STL DRUM	0 01	3
2. 7/30/71	GIBSONIA, PA	PHENYL-MERC	BP 19E0L	1	0	1	50E0	RP-NT	FORKLIFT										STL DRUM	0 01	1

ORGANIC AMMONIA COMP. SPILLS

DATE	LOCATION	MATERIAL	CLASS	Q U A N T I T Y	F A T I N A J U I R T I E S	H A Z A R D	D M G \$	CAUSE	2ND CAUSE	3RD CAUSE	4TH CAUSE	CONTAINER	M
1. 5/13/73	GULFSUMT,NY	ORG-AMON-CO	FL	76E2L	0	0	5	0E9 RP-TK	CONTR FLRE	DRLMENT		TK CR RR	0 02 1

ORGANIC PHOSPHATE SPILLS---SYN.--PHOSPHATE COMPCUNG

DATE	LOCATION	MATERIAL	CLASS	Q U A N T I T Y	F A T I N A J U I R T I E S	H A Z A R D	D M G \$	CAUSE	2ND CAUSE	3RD CAUSE	4TH CAUSE	CONTAINER	M
1. 2/23/71	ATLANTA ,GA	ORGAN-PHOSP	BP	9ECK	0	0	1 30E1	RP-NT	CONTR FLRE	IMP LDG		PA BAG	0 82 1
2. 2/25/71	KANS-CTY,KA	ORGAN-PHOSP	BP	3EOK	0	0	1 18E2	RP-NT	SHRP OBJ			PA BAG	0 02 1
3. 2/25/71	HASTINGS,NB	ORGAN-PHOSP	BP	11E1K	0	0	2 90E0	RP-NT	SHRP OBJ			PA BAG	0 02 1
4. 3/ 2/71	KLAMATHF,OR	ORGAN-PHOSP	BP	32E1K	0	0	4 20E1	RP-NT	CONTR FLRE	WET PACKNG	PRNSLL ERR	PA BAG	0 02 1
5. 3/22/71	TAMPA ,FL	ORGAN-PHOSP	BP	1EOL	0	0	1 0E9	RP-NT	LSE CP,CVR	DROPPED	PRNSLL ERR	GLS BTLS	0 01 1
6. 3/23/71	HASTINGS,NB	ORGAN-PHOSP	BP	23EOK	0	0	1 18E0	RP-NT	CONTR FLRE	UNKNOWN		PA BAG	0 02 1
7. 3/26/71	PORTLAND,99	ORGAN-PHOSP	BP	0E0U	0	0	99 0E9	OTHER	UNKNOWN			STL PAIL	0 02 1
8. 4/ 1/71	MOSES-LK,WA	ORGAN-PHOSP	BP	94EOL	0	0	2 0E9	RP-NT	SHRP OBJ			STL DRUM	0 82 1
9. 4/ 9/71	PHOENIX ,AZ	ORGAN-PHOSP	BP	1EOL	0	0	1 0E9	RP-NT	DROPPED	CLS&OVRTN		STL PAIL	0 01 1
10. 4/29/71	SPOKANE ,WA	ORGAN-PHOSP	BP	7EOK	0	0	1 30E0	RP-NT	SHRP OBJ	IMP LDG		PA BAG	0 02 1
11. 5/17/71	ATLANTA ,GA	ORGAN-PHOSP	BP	2EOL	0	0	1 0E9	RP-NT	SHRP OBJ			STL DRUM	0 01 1
12. 5/24/71	SALT-LK ,UT	ORGAN-PHOSP	BP	4EOL	0	0	1 25E1	RP-NT	CONTR FLRE	UNKNOWN		STL PAIL	0 02 1
13. 5/25/71	KANSAS-C,MO	ORGAN-PHOSP	BP	6EOL	0	0	1 75E1	RP-NT	CONTR FLRE			STL DRUM	0 02 1
14. 6/ 1/71	PHOENIX ,AZ	ORGAN-PHOSP	BP	2EOL	0	0	1 50E0	RP-NT	SHRP OBJ	IMP LDG		STL DRUM	0 02 1
15. 7/ 6/71	LUBBOCK ,TX	ORGAN-PHOSP	BP	19EOL	1	0	1 50E0	RP-NT	BODY FLRE	IMP LDG		STL DRUM	0 02 1
16. 7/ 6/71	LUBDOCK ,TX	ORGAN-PHOSP	BP	0E0	0	0	99 0E9	RP-NT	CONTR FLRE	UNKNOWN		PA BAG	0 02 1
17. 7/ 8/71	W-BORO ,MA	ORGAN-PHOSP	BP	1EOL	0	0	1 77E2	RP-NT	SHRP OBJ	IMP LDG		STL PAIL	0 02 1
18. 7/15/71	KENEWICK,WA	ORGAN-PHOSP	BP	1E2	0	0	1 0E9	RP-NT	CONTR FLRE	UNKNOWN		PA BAG	0 02 1
19. 8/ 6/71	VERNON ,CA	ORGAN-PHOSP	BP	3EOL	0	0	1 20E0	RP-NT	CONTR FLRE	MTRL DFCT		STL PAIL	0 02 1
20. 8/ 9/71	DENVER ,CO	ORGAN-PHOSP	BP	10E1L	0	0	2 10E2	RP-NT	SHRP OBJ	DROPPED		STL DRUM	0351 1
21.10/26/71	PHOENIX ,AZ	ORGAN-PHOSP	BP	7EOK	0	0	1 75E0	RP-NT	SHRP OBJ	DROPPED		PA BAG	0 01 1
22.12/16/71	DALLAS ,TX	ORGAN-PHOSP	BP	23E1K	0	0	3 60E1	RP-NT	LKG CVR			STL PAIL	0 02 1
23. 1/11/72	ATLANTA ,GA	ORGAN-PHOSP	BP	1EOL	0	1	1 0E9	RP-NT	CONTR FLRE	DROPPED		GBTL/CITN	0 02 1
24. 2/25/72	CRESTON ,GA	ORGAN-PHOSP	BP	28E1L	0	0	4 30E2	RP-NT	CONTR FLRE	MTRL DFCT		STL DRUM	0 02 1
25. 2/28/72	LOUISVLE,KY	ORGAN-PHOSP	BP	19EOL	0	0	1 0E9	RP-NT	CONTR FLRE	MTRL DFCT		STL PAIL	0 00 1
26. 2/28/72	SEATTLE ,WA	ORGAN-PHOSP	BP	1EOK	0	0	1 10E1	RP-NT	SHRP OBJ			PA BAG	0 92 1
27. 3/ 2/72	INDINPLS,IN	ORGAN-PHOSP	BP	4ECL	0	0	1 0E9	RP-NT	CONTR FLRE	DROPPED			0 01 1
28. 3/ 2/72	MOSES-LK,WA	ORGAN-PHOSP	BP	8EOL	0	0	1 0E9	RP-NT	SHRP OBJ	IMP LDG		STL DRUM	0 02 1
29. 3/13/72	ABERDEEN,MD	ORGAN-PHOSP	BP	19EOL	0	0	3 0E9	RP-NT	CONTR FLRE	MTRL DFCT		STL DRUM	0 02 1
30. 3/23/72	FRESNO ,CA	ORGAN-PHOSP	BP	1EOK	0	0	1 0E9	RP-NT	LKG CVR	OVRPRES		STL PAIL	0 02 1
31. 4/19/72	IRVING ,TX	ORGAN-PHOSP	BP	19EOL	0	0	1 11E0	RP-NT	SHRP OBJ	DROPPED		STL PAIL	0 01 1

	F		P	O
	A		R	P S
	T	H	I	O
	A	A Z	M	E A U
	L	A R	A	Q R R
	I	D	R Y	U E C
	T			P A E
	E S			
Q U A N T I T Y	I N J U R I E S			

DATE	LOCATION	MATERIAL	CLASS	DMG\$	CAUSE	2ND CAUSE	3RD CAUSE	4TH CAUSE	CONTAINER	M				
1.12/13/72	DUFF, TN	ORTHO-TOLUI	FL 76E1L	0	0	2	OE9 RP-TK	CONTR FLRE	DRLMENT	UNKNOWN	TK CR RR	0	02	2

	F			
	A			
	T		P	O
	I	H	R	P
Q	N	A	I	S
U	J	L	M	O
A	U	I	A	E A U
N	R	T	R	QR R
I	I	E		UE C
T	E	S	Y	PA E
Y	S	D		

DATE	LOCATION	MATERIAL	CLASS				DMG\$	CAUSE	2ND CAUSE	3RD CAUSE	4TH CAUSE	CONTAINER	M
1. 1/12/73	E-WOODBR,NJ	OXYBISPEROL	BP	1EOK	1	0	99	10E1	RP-NT	SHRP	OBJ		FBRE DRM 0 01 1

PAINT THINNER SPILLS

DATE	LOCATION	MATERIAL	CLASS	Q U A N T I T Y	F A I L U R E S	I N J U R I E S	T A L H A Z A R D S	P R I M A R Y	DMG\$	CAUSE	2ND CAUSE	3RD CAUSE	4TH CAUSE	CONTAINER	M
1. 3/24/72	PHILADEL, PA	PAINT-THINR	FL 21E1L	0	0	1	0E0	OVRFW	OPN VALVE	PRNSLL ERR	FIRE	STL DRUM	0 03 3		
2. 6/15/72	BALTIMOR, MD	PAINT-THINR	FL 76E2L	0	0	99	0E9	RP-TK	UNKNOWN		STO TANK	0 01 6			
3. 6/15/72	BALTIMOR, MD	PAINT-THINR	FL 76E2L	0	0	3	0E9	RP-TK	UNKNOWN		STO TANK	0 03 6			
4. 10/ 9/72	GRNSBOPO, NC	PAINT-THINR	FL 0E0U	0	0	99	0E0	RP-NT	SPKLRS DSC	FIRE	SPON COMB	STL DRUM	3 03 3		
5. 10/ 8/72	BRMNGHAM, AL	PAINT-THINR	FL 0E0U	0	0	99	0E0	RP-NT	EXPLOSION	FIRE	VANDALISM	STL PAIL	1 03 3		
6. 8/11/72	CAMP HIL, IL	PAINT-THINR	FL 21E1L	0	0	1	0E9	RP-NT	FORKLIFT		STL DRUM	0 01 1			

PAINT, WOOD STAIN, ETC. SPILLS

DATE	LOCATION	MATERIAL	CLASS	Q U A N T I T Y	F A I L U R E S	I N J U R I E S	T A L H A Z A R D S	P R I M A R Y	DMG\$	CAUSE	2ND CAUSE	3RD CAUSE	4TH CAUSE	CONTAINER	M
1. 1/16/69	HAEHL-CR, CA	PAINT	FL 0E0U	0	0	99	0E9	OTHER	UNKNOWN						0 06 6
2. 1/21/70	DAVENPRT, IA	PAINT	FL 0E0U	0	0	99	0E9	OTHER	SPON COMB	SPKLRS DSC					0 04 3
3. 3/25/70	PHILADEL, PA	PAINT	FL 21E1L	0	0	99	0E0	TS FL	RPTRD PIPE				PIPES		0 04 3
4. 4/21/71	ANDPLS-H, MD	PAINT	FL 0E0U	0	0	99	0E9	OTHER	INTNL REL						0 00 5
5. 6/14/71	FT SMITH, AR	PAINT	FL 70E2L	0	0	99	0E0	OVRFW	SPKLRS DSC	FIRE	ELCT ARCNG	DIP TANK		0 04 3	
6. 11/13/71	E ST LUS, IL	PAINT	FL 71E2L	0	0	99	0E0	OVRFW	OPN VALVE	INTNL REL	VANDALISM	STO TANK		1 03 3	
7. 2/10/72	MELROSE, IL	PAINT	FL 11E2L	0	0	99	0E9	OVRFW	UNKNOWN			STO TANK		0 04 6	
8. 2/10/72	PORTLAND, OR	PAINT	FL 0E0U	0	0	99	0E9	OTHER	UNKNOWN					0 04 6	
9. 8/ 9/72	DANVILLE, IL	PAINT	FL 21E1L	0	0	99	0E9	RP-NT	FORKLIFT			STL DRUM		0 01 1	
10. 8/26/72	CAMP HIL, PA	PAINT	FL 95E0L	0	0	99	0E9	RP-NT	SHRP OBJ			STL DRUM		0 02 1	
11. 10/ 8/72	BRMNGHAM, AL	PAINT	FL 0E0U	0	0	99	0E0	RP-NT	EXPLOSION	FIRE	VANDALISM	STL PAIL		1 03 3	
12. 3/ 1/73	HARVEY, LA	PAINT	FL 21E1L	0	0	99	0E9	TS FL	HSE, CPL FA	UNKNOWN		STL DRUM		0 04 3	
13. 5/ 6/73	TWO RVRS, WI	PAINT	FL 0E0U	0	0	99	0E0	TS FL	RPTRD PIPE	OVRPRES	FIRE	PIPES		0 04 3	
14. 5/ 4/73	GOLDSBRO, NC	WOOD-STAIN	UN 12E2K	0	0	99	45E1	TS FL	HSE, CPL FA	PRNSLL ERR		TK TRLR		0 01 1	

PARAFORMALDEHYDE SPILLS

DATE	LOCATION	MATERIAL	CLASS	Q	U	A	N	I	T	F	A	P	O	S	EA	QR	UE	PA
1. 6/13/73	PORTALES,NM	PARA-FORMAL	FL 57E1K	0	0	2	0E9	RP-TK	UNKNOWN	OVERTURN	BK TRLR	0	02	2				

SODIUM PENTACHLOROPHENATE SPILLS---SYN.--PENTACHLOROPHENOL

DATE	LOCATION	MATERIAL	CLASS	Q	U	A	N	I	T	F	A	P	O	S	EA	QR	UE	PA
1.10/26/70		,OH PENTACHLORO	BP 29E3L	0	0	10	20E3	RP-TK	MTRL DFCT	LKG CVR	STO TANK	0	03	1				
2.10/27/70		,OH PENTACHLORO	BP 76E1L	0	0	5	20E3	OTHER	INTNL REL	PRNSLL ERR	PRTBL TK	0	03	1				
3.10/29/70		,OH PENTACHLORO	BP 15E2L	0	0	6	20E3	TS FL	HSE,CPL FA	OVRPRES	STO TANK	0	03	1				
4. 5/27/71	PORTLAND,OR	PENTACHLORO	BP 1ECL	0	0	1	0E9	OVRFW	LSE CP,CVR		STL PAIL	0	02	1				
5. 2/23/72	POCATELO,ID	PENTACHLORO	BP 1ECL	0	0	1	14E1	RP-NT	CONTR FLRE	O V R F W	STL PAIL	0	02	1				

PERACETIC ACID SPILLS

DATE	LOCATION	MATERIAL	CLASS	Q	U	A	N	I	T	F	A	P	O	S	EA	QR	UE	PA
1. 4/26/72	DALLAS ,TX	PERACETIC-A	OX 57ECL	0	0	1	50E2	RP-NT	LSE CP,CVR		STL DRUM	0	02	1				

PHOSDRIN SPILLS

DATE	LOCATION	MATERIAL	CLASS	Q U A N T I T Y	F A T I N J U R I E S	H A Z A R D	P R I M A R Y	D M G %	CAUSE	2ND CAUSE	3RD CAUSE	4TH CAUSE	CONTAINER	M	O	P	S
1. 3/19/71	PHOENIX ,AZ	PHOSDRIN	BP	1ECK	0	0	1	0E9	RP-NT	CONTR FLRE				0	01	1	
2. 4/ 6/71	SAN-JOSE,CA	PHOSDRIN	BP	4ECL	0	0	1	10E1	RP-NT	MTRL DFCT	IMP LDG		STL PAIL	0	02	1	
3. 1/25/72	ORLANDO ,FL	PHOSDRIN	BP	1ECL	0	0	1	0E9	RP-NT	SHRP OBJ	IMP LDG		STL DRUM	0	02	1	

PHOSPHENE OXIDE SPILLS

DATE	LOCATION	MATERIAL	CLASS	Q U A N T I T Y	F A T I N J U R I E S	H A Z A R D	P R I M A R Y	D M G %	CAUSE	2ND CAUSE	3RD CAUSE	4TH CAUSE	CONTAINER	M	O	P	S
1. 6/ 4/73	LOGAN ,NM	PHOSPHENE-O	BP	38EOL	0	0	99	0E9	RP-NT	FORKLIFT	PRNSLL ERR		STL DRUM	0	01	1	
2. 6/13/73	LOGAN ,NM	PHOSPHENE-O	BP	26E1K	3	0	99	0E9	RP-TK	CONTR FLRE	UNKNOWN		BK TRLR	0	02	2	

PHOSPHORIC ACID SPILLS

DATE	LOCATION	MATERIAL	CLASS	Q U A N T I T Y	F A T I N J U R I E S	H A Z A R D	P R I M A R Y	D M G %	CAUSE	2ND CAUSE	3RD CAUSE	4TH CAUSE	CONTAINER	M	O	P	S
1. 6/13/73	GEISMER ,LA	PHOSPH-ACID	CL	0E0U	0	0	99	0E9	TS FL	UNKNOWN				0	01	2	
2.10/ 9/72	GRNSBORO,NC	PHOSPHACID	CL	0E0U	0	0	99	0E0	RP-NT	SPKLRS DSC	FIRE	SPON COMB	STL DRUM	3	03	3	

PHOSPHORUS SPILLS

DATE	LOCATION	MATERIAL	CLASS	Q	U	A	N	I	T	H	P	O	S	EA	QR	UE	PA
1. 8/23/72	VICTOR ,FL	PHOSPHORUS	FS	OE	OU	0	0	99	0E9	TS	FL	HSE,CPL	FA	FIRE			1 04 3
2.11/28/72	TRUMBULL,OP	PHOSPHORUS	FS	OE	CU	0	0	99	0E9	RP-TK	CONTR	FLRE	DRLMENT			BK	CR RR 0 02 6

PHOSPHORUS OXYCHLORIDE SPILLS

DATE	LOCATION	MATERIAL	CLASS	Q	U	A	N	I	T	H	P	O	S	EA	QR	UE	PA
1. 2/18/71	ETNA ,PA	PHOS-OXYCHL	CL	38	E1L	2	0	1	0E9	RP-NT	MTRL	DFCT					STL DRUM 0 02 1

PHOSPHORIC ANHYDRIDE SPILLS

DATE	LOCATION	MATERIAL	CLASS	Q	U	A	N	I	T	H	P	O	S	EA	QR	UE	PA
1. 6/ 9/72	CEDARCTY,UT	PHOS-ANHYDR	UN	21	E2L	0	0	1	51E2	RP-NT	CONTR	FLRE	COLLSN				STL DRUM 0 00 1

PHOSPHORUS PENTA SULFIDE SPILLS

DATE	LOCATION	MATERIAL	CLASS	DMG\$	CAUSE	2ND CAUSE	3RD CAUSE	4TH CAUSE	CONTAINER	M
1. 8/ 9/71	CHICAGO ,IL	PHOS-PENTAS	FS 45EOK	0 0 1	14E1 RP-NT	SHRP OBJ			STL PAIL	0 02 1
2. 5/16/72	W-LAFAYT,OF	PHOS-PENTAS	FS 51E3K	0 0 10	0E9 RP-TK	FIRE	UNKNOWN		BK CR RR	0 02 6

PHOSPHORUS TRICHLORIDE SPILLS

DATE	LOCATION	MATERIAL	CLASS	DMG\$	CAUSE	2ND CAUSE	3RD CAUSE	4TH CAUSE	CONTAINER	M
1.10/15/71	RICHFIELD,OH	PHOS-TRICHL	CL 5ECK	0 0 1	0E9 RP-NT	LSE CP,CVR			STL DRUM	0 01 1
2. 8/25/72	DANVILLE,KY	PHOS-TRICHL	CL 38EOL	0 0 1	0E5 RP-NT	SHRP OBJ	IMP LDG		STL DRUM	0 01 1

PLASTICIZER SPILLS

DATE	LOCATION	MATERIAL	CLASS	DMG\$	CAUSE	2ND CAUSE	3RD CAUSE	4TH CAUSE	CONTAINER	M
1. 2/26/72	WHITE-HL,PA	PLASTICIZER	FL 19EOL	0 0 1	0E9 OVRFW	UNKNOWN			STO TANK	0 01 6
2. 5/24/72	FRST VEW,IL	PLASTICIZER	FL 22E3L	0 0 4	0E0 RP-NT	EXPLOSION	FIRE	ELCT ARCNG	STL DRUM	2 03 3
3.12/ 0/72	99 ,WV	PLASTICIZER	FL 19E2L	0 0 1	0E9 OVRFW	OPN VALVE	PRNSLL ERR			0 04 6
4.12/18/72	INSTITUT,WV	PLASTICIZER	FL 19E2L	0 0 1	0E9 OVRFW	PRNSLL ERR				0 04 6

POISON-N.O.I. SPILLS

DATE	LOCATION	MATERIAL	CLASS	Q U A N T I T Y	I N J U R I E S	F A T A L I T Y	H A Z A R D O U S E S	P R I M A R Y	O P E R A T I O N S P A C E
1. 4/20/71	FAYETTVL, NC	POISON-NQI	BP	0E0	0	0	99	DMG\$ CAUSE 2ND CAUSE 3RD CAUSE 4TH CAUSE	CONTAINER M
2. 6/ 7/71	PORTLAND, OR	POISON-NQI	BP	1E0L	0	0	1	0E9 RP-NT CONTR FLRE DROPPED	PLS PAIL 0 02 1
3. 7/ 8/71	PORTLAND, OR	POISON-NQI	BP	1E0L	0	0	1	0E1 RP-NT CONTR FLRE UNKNOWN	STL DRUM 0 02 1
4. 8/31/71	ALBANY, GA	POISON-NQI	BP	38E0L	0	0	4	10E1 RP-NT CONTR FLRE DROPPED	PRNSLL ERR STL PAIL 0 51 1
5. 9/29/71	NEWBURGH, NY	POISON-222E	BP	19ECL	0	0	99	0E9 RP-NT CONTR FLRE IMP LOG	STL DRUM 0 02 1
6. 5/13/72	CAMP-HIL, PA	POISON-NGI	BP	18EGL	0	0	99	0E9 RP-NT CONTR FLRE UNKNOWN	STL PAIL 0 02 1
7. 8/ 4/72	LOUIS-UL, KY	POISON-NQI	BP	1E0L	0	0	1	0E9 RP-NT SHRP OBJ UNKNOWN	STL DRUM 0 02 1
8. 10/14/72	COLUMBUS, OH	POISON NQI	BP	0E0U	0	0	99	0E9 RP-NT MTRL DFCT	STL DRUM 0 02 1

POLYVINYL PYRROLIDONE SPILLS

DATE	LOCATION	MATERIAL	CLASS	Q U A N T I T Y	I N J U R I E S	F A T A L I T Y	H A Z A R D O U S E S	P R I M A R Y	O P E R A T I O N S P A C E
1. 7/13/72	TORONTO,	POLY-V-PYRO	UN	0E0U	0	0	99	DMG\$ CAUSE 2ND CAUSE 3RD CAUSE 4TH CAUSE	CONTAINER M
								0E9 RP-NT CONTR FLRE FIRE	VANDALISM COBD DRM 3 03 3

POLY-STYRENE SPILLS---SYN---STYRENE---STYRENE MONOMER---POLY-STYRENE MONO

DATE	LOCATION	MATERIAL	CLASS	Q U A N T I T Y	I N J U R I E S	F A T A L I T Y	H A Z A R D O U S E S	P R I M A R Y	O P E R A T I O N S P A C E
1. 5/11/72	GALES-FR, CT	STYRENE	BP	11E1L	0	0	1	0E9 RP-TK CONTR FLRE UNKNOWN	BARGE TK 0 02 6
2. 3/17/72	MISSISSIPPI, 99	STYRENE	BP	0E0U	0	0	99	0E9 RP-TK CLS&OVRTN	BARGE TK 0 02 2
3. 1/ 9/72	SURGOINS, TN	POLYSTYRENE	BP	0E0U	0	0	99	0E9 OTHER SPKLRS DSC NMRL OP FIRE	2 04 3
4. 11/15/71	LG BEACH, CA	POLYSTY MON	BP	11E3L	0	0	3	0E0 RP-TK OVRPRES EXCESS TMP CNTRL INOP	CKG/MX T 0 04 3
5. 5/ 5/71	INDUSTRY, CA	STYRENE-MON	BP	0E0U	0	0	99	0E2 RP-TK RLF VAL OP OVRPRES MECH FAIL	CKG/MX T 1 04 3
6. 12/ 1/72	SEA-DR FT, TX	STYRENE-MON	BP	15E1L	0	0	1	0E0 OTHER UNKNOWN	BARGE TK 0 01 2
7. 12/ 3/72	SEA-DR FT, TX	STYRENE-MON	BP	38E0L	0	0	1	0E9 TS FL OPN VALVE PRNSLL ERR	0 01 2

PROPYLENE GLYCOL SPILLS

DATE	LOCATION	MATERIAL	CLASS	DMG\$	CAUSE	2ND CAUSE	3RD CAUSE	4TH CAUSE	CONTAINER	M
1.10/19/71	99	,CO	PROP-GLYCOL BP 68EOK	0 0 2	27E1	RP-NT	UNKNOWN		STL DRUM	1 02 1
2. 9/21/72		,NJ	PROP-GLYCOL BP 27E3L	1 2 10	31E3	RP-TK	CLS&OVRTN		TK TRLR	0 02 1
3.12/13/72	IUKA	,IL	PROP-GLYCOL BP 0E0U	0 0 99	0E9	RP-TK	CONTR FLRE	DRLMENT	TK CR RR	1 02 6

PROPYLENE SPIILLS

DATE	LOCATION	MATERIAL	CLASS	Q U A N T I T Y	F A T A L I T Y	H A Z A R D S	P R I M A R Y	DMG\$	CAUSE	2ND CAUSE	3RD CAUSE	4TH CAUSE	CONTAINER	M	O P S O U R C E P A E
1.12/22/72	ST LOUIS, IL	PROPYLENE	UN 11E4L	0	0	5		25E3	RP-TK	COLLSN			TK CR RR	0	01 3

PROTEIN FOAM SPILLS

DATE	LOCATION	MATERIAL	CLASS	Q U A N T I T Y	F A T I N J U R I E S	H A Z A R D	P R I M A R Y	D M G \$	CAUSE	2ND CAUSE	3RD CAUSE	4TH CAUSE	CONTAINER	M
1. 5/ 8/73	MARIETTA,GA	PROTEIN-FOAM	UN 13E2L	0	0	99	0E9	OVRFW	SPKLPS	DSC			PIPES	0 04 2

RAFFINATE SPILLS

DATE	LOCATION	MATERIAL	CLASS	Q U A N T I T Y	F A T I N J U R I E S	H A Z A R D	P R I M A R Y	D M G \$	CAUSE	2ND CAUSE	3RD CAUSE	4TH CAUSE	CONTAINER	M
1.12/ 3/69	TALLABOA,PR	RAFFINATE	UN 76E1L	0	0	99	0E0	OVRFW	OPN VALVE		PRNSLL ERR		PIPES	0 04 3

RESIN SPILLS---VARIOUS INCLUDING PHENYL FORMALDEHYDE RESIN

DATE	LOCATION	MATERIAL	CLASS	Q U A N T I T Y	F A T I N J U R I E S	H A Z A R D	P R I M A R Y	D M G \$	CAUSE	2ND CAUSE	3RD CAUSE	4TH CAUSE	CONTAINER	M
1.12/22/71	NEWARK ,OH	PHN-FRM-RSN	FL 76E2L	0	0	99	0E9	TS FL	HSE,CPL FA		PRNSLL ERR			0 03 6
2. 1/ 1/70	PARK-FOS,IL	RESIN-SOLUT	FL 0ECU	0	0	99	0E9	OVRFW	UNKNOWN		FIRE	STL DRUM	0 04 3	
3. 3/17/71	BETHLEHM,NY	RESIN-SOLUT	FL 0E0U	0	0	99	0E9	RP-TK	LKG CVR		EXPLOSION	IND MACH	0 04 3	
4. 2/14/72	CARTERET,NJ	RESIN-SOLUT	FL 11E3L	0	0	99	37E2	RP-TK	SHRP OBJ		COLLSN	TK TRLR	0 02 1	
5. 5/14/72	STOCKHLM,WI	RESIN-SOLUT	FL 38E3L	0	0	99	0E9	RP-TK	DRLMENT			TK CR RR	0 02 6	
6. 6/ 7/72	SWEETH2D,WY	RESIN-SOLUT	FL 13E3L	0	0	99	0E9	RP-TK	VALVE BKN			TK TRLR	0 02 6	
7. 6/10/72	ST-CLOUD,MN	RESIN-SOLUT	FL 38E1L	0	0	99	0E9	RP-TK	CONTR FLRE		EXPLOSION		1 04 3	
8. 8/27/72	CNCNNATI,OH	RESIN-SOLUT	FL 28E2L	0	0	99	80E0	RP-NT	SHRP OBJ		UNKNOWN	STL DRUM	0 02 1	
9.11/15/72	LDS-ANGL,CA	RESIN-SOLUT	FL 21E1L	0	0	99	20E1	RP-NT	SHRP OBJ		IMP LDG	STL DRUM	0 02 1	
10. 1/19/73	REDWD CY,CA	RESIN-SOLUT	FL 11E2L	0	0	99	0E0	RP-TK	RPTRD PIPE		OVRPRES	CKG/MX T	0 04 3	
11.11/ 7/72	BRUNSWIK,GA	RESIN-S1	UN 28E0	0	0	99	0E9	RP-TK	CONTR FLRE		SHIP SANK	SHIP	0 00 6	
12. 6/12/70	SANFNAND,CA	RESIN-ACRYL	FL 21E1L	0	0	99	0E9	RP-NT	CONTR FLRE		MTRL DFCT	PRNSLL ERR	STL DRUM	0 04 2

RESONATE SOLUTION SPILLS

DATE	LOCATION	MATERIAL	CLASS	Q U A N T I T Y	F A T A L I T Y	H A Z A R D	P R I M A R Y	3RD CAUSE	4TH CAUSE	CONTAINER	M
1. 1/17/72	SAVANNAH,GA	RESONATE SO	UN 18E4L	0 0	6	0E0	OVRFW	MECH FAIL			0 04 3

SILICON CHLORIDE SPILLS

DATE	LOCATION	MATERIAL	CLASS	Q U A N T I T Y	F A T A L I T Y	H A Z A R D	P R I M A R Y	3RD CAUSE	4TH CAUSE	CONTAINER	M
1. 6/19/72	DOWNTOWN,PA	SILICON-CHL	CL 38E1L	0 0	1	25E1	OVRFW	PRNSLL ERR		STO TANK	0 01 1

SILVER NITRATE SPILLS

DATE	LOCATION	MATERIAL	CLASS	Q U A N T I T Y	F A T A L I T Y	H A Z A R D	P R I M A R Y	3RD CAUSE	4TH CAUSE	CONTAINER	M
1. 9/17/72	DELANO ,PE	SILVER-NITR	DX 38E2L	0 0	10	0E9	OVRFW	UNKNOWN			0 04 6

SODA ASH SPILLS

DATE	LOCATION	MATERIAL	CLASS	Q U A N T I T Y	F A T A L I T Y	H A Z A R D	P R I M A R Y	3RD CAUSE	4TH CAUSE	CONTAINER	M
1. 7/20/71	PATOM-RI,MD	SODA-ASH	UN 0E0U	0 0	99	0E9	OVRFW	UNKNOWN		SETLG PD	0 05 5
2. 6/26/72	SLABTOWN,MD	SODA-ASH	UN 0E0U	0 0	10	0E9	RP-TK	SHRP OBJ	DRLMENT	TK CR RR	1 02 5

SODIUM ALUMINATE, LIQUID SPILLS

DATE	LOCATION	MATERIAL	CLASS	Q U A N T I T Y	F A T A L I T Y	P R I M A R Y	3RD CAUSE	4TH CAUSE	CONTAINER	M
1. 3/ 5/73	ALBANY ,NY	SOD-ALUMINA	CL 38ECL	0 0 99	10E1	RP-NT	CONTR FLRE		STL DRUM	0 01 1

SODIUM ARSENATE SPILLS

DATE	LOCATION	MATERIAL	CLASS	Q U A N T I T Y	F A T A L I T Y	P R I M A R Y	3RD CAUSE	4TH CAUSE	CONTAINER	M
1. 6/10/71	MOBILE ,AL	SODIUM-ARSN	BP 76EOL	0 0 2	0E9	RP-NT	CONTR FLRE	MTRL DFCT	STL DRUM	0 02 1
2. 4/ 3/72	FARMNGTN,CT	SODIUM-ARSN	BP 19ECL	0 0 1	0E9	RP-NT	SHRP OBJ	UNKNOWN	STL PAIL	0 12 1

SODIUM ARSENITE SPILLS

DATE	LOCATION	MATERIAL	CLASS	Q U A N T I T Y	F A T A L I T Y	P R I M A R Y	3RD CAUSE	4TH CAUSE	CONTAINER	M
1. 3/15/71	BOISE ,ID	SODIUM-ARSI	BP 1ECL	0 0 1	0E9	RP-NT	CONTR FLRE	IMPR CNTNR	STL DRUM	0 00 1
2. 5/ 3/71	AMARILLO,TX	SODIUM-ARSI	BP 1ECL	0 0 1	15E0	RP-NT	CONTR FLRE	UNKNOWN	STL PAIL	0 02 1
3. 6/ 5/71	CHICAGO,IL	SODIUM-ARSI	BP 76EOL	0 0 5	75E0	RP-NT	SHRP OBJ	UNKNOWN	STL DRUM	0 01 1
4. 6/29/71	CINCINTI,OH	SODIUM-ARSI	BP 19EOL	0 0 3	0E9	RP-NT	CONTR FLRE	UNKNOWN	STL PAIL	0 02 1
5. 6/30/71	CHARLOTT,NC	SODIUM-ARSI	BP 38ECL	0 0 4	0E9	RP-NT	SHRP OBJ		STL DRUM	0 02 1
6. 8/ 6/71	PHILADEL,PA	SODIUM-ARSI	BP 1ECL	0 0 1	10EQ	RP-NT	CONTR FLRE	MTRL DFCT	STL DRUM	0 02 1
7. 8/31/71	MERIDEN ,MS	SODIUM-ARSI	BP 38EOL	0 0 4	0E9	RP-NT	SHRP OBJ	UNKNOWN	STL PAIL	0 02 1
8.11/ 8/71	RICHMOND,VA	SODIUM-ARSI	BP 23EOL	0 0 3	0E9	RP-NT	FORKLIFT	PRNSLL ERR	STL DRUM	0 51 1
9. 5/ 1/72	W-MIDLSX,PA	SODIUM-ARSI	BP 1EOK	0 0 1	0E9	RP-NT	SHRP OBJ		STL PAIL	0 51 1
10. 5/24/72	SHARNVIL,OH	SODIUM-ARSI	BP 1EOK	0 0 1	0E9	RP-NT	LSE CP,CVR		STL DRUM	0 02 1
11. 6/ 1/72	MAMOTH-J,NJ	SODIUM-ARSI	BP 76ECL	0 0 5	0E9	RP-NT	CONTR FLRE	MTRL DFCT	STL DRUM	0 02 1
12. 3/29/73	BRUNSWIC,GA	SODIUM-ARSI	BP 1EOL	0 0 1	0E9	RP-NT	SHRP OBJ	IMP LDG	STL DRUM	0 02 1

Q U A N T I T Y I N J U R I E S F A T A L I T I E S

DATE	LOCATION	MATERIAL	CLASS	DMG	CAUSE	2ND CAUSE	3RD CAUSE	4TH CAUSE	CONTAINER	M								
1. 7/13/72	TORONTO,	SOD-CAREGET	UN	OEQU	0	0	99	OE9	RP-NT	CONTR	FLRE	FIRE	VANDALISM	COBD	DRM	3	03	3

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DATE	LOCATION	MATERIAL	CLASS	QTY	QTY	QTY	QTY	DMG\$	CAUSE	2ND CAUSE	3RD CAUSE	4TH CAUSE	CONTAINER	M
1. 2/17/71	CHESTER ,PA	SODIUM-CLAT	OX 18E1K	0	0	1	42E0	RP-NT	IMPR HNDLG				STL DRUM	0 02 1
2. 3/24/72	NILESJCT,OH	SODIUM-CLAT	OX 41ECK	0	0	1	10E1	RP-TK	DRLMENT		UNKNOWN		BK CR RR	0 02 1
3. 5/ 3/72	ENNIS ,TX	SODIUM-CLAT	OX 38EOL	0	0	1	0E9	OTHER	PRNSLL ERR				TK CR RR	1 06 6

Q U A N T I T Y I N J U R I E S F A T A L I T I E S

DATE	LOCATION	MATERIAL	CLASS	DMG\$	CAUSE	2ND CAUSE	3RD CAUSE	4TH CAUSE	CONTAINER	M									
1. 7/24/72	MIAMI	OK	SND-CHLOR-S	CL	23ECL	0	0	99	15E1	RP-NT	LSE	CP,CVR	IMPR	HNDLG	GLS	BTLS	0	02	1

SODIUM HYDROSULFITE SPILLS

DATE	LOCATION	MATERIAL	CLASS	DMG\$	CAUSE	2ND CAUSE	3RD CAUSE	4TH CAUSE	CONTAINER	M
1. 3/ 4/71	CHARLOTT,NC	SODIUM-HYDQ	FS 16E2K	0 0 3	12E2 RP-NT	BODY FLRE	IMP LDG		STL DRUM	0 02 1
2. 4/17/71	E RTHR FD,NJ	SODIUM-HYDQ	FS 64E3L	0 0 8	3E2 RP-NT	CONTR FLRE	FIRE	SPON C3MB	STL DRUM	1 03 3
3. 7/22/71	BARIA ,OH	SODIUM-HYDQ	FS 37E2K	0 0 4	25E3 RP-NT	CONTR FLRE	OVRTURN	PRNSLL ERR	STL DRUM	0 00 1
4. 8/31/71	LOS-ANGL,CA	SODIUM-HYDQ	FS 38EOK	0 0 1	13E1 RP-NT	CONTR FLRE			STL DRUM	0 02 1
5. 2/22/72	HOUSTON ,TX	SODIUM-HYDQ	FS 0ECK	0 0 99	15E2 RP-NT	CONTR FLRE			STL DRUM	0 02 1
6. 3/20/72	MILLDCRV,GA	SODIUM-HYDQ	FS 23E1K	0 0 1	15E1 RP-NT	CONTR FLRE	IMP LDG		STL DRUM	0 02 1
7. 9/ 8/72	ATLANTA ,GA	SODIUM-HYDQ	FS 10EOK	0 0 1	45E3 RP-NT	CONTR FLRE	OVRTURN	BRAKE FLRE	COBD DRM	0 02 1
8.11/13/72	BIRMINGH,AL	SODIUM-HYDQ	FS 48E2K	0 0 4	67E2 OTHER	LSE CP,CVR	UNKNOWN			0 02 1
9.11/18/72	HOUSTON ,TX	SODIUM-HYDQ	FS 17E1K	0 0 1	15E1 RP-NT	CONTR FLRE	IMP LDG		STL DRUM	0 02 1
10.12/15/72	INDIANPL,IN	SODIUM-HYDQ	FS 18E2K	0 0 3	25E3 RP-NT	CONTR FLRE	IMP LDG		STL DRUM	0 02 1
11. 3/31/73	WARREN ,MI	SODIUM-HYDQ	FS 12E1K	0 0 1	25E2 RP-NT	SHRP OBJ	IMP LDG		STL DRUM	0 02 1

SODIUM HYPOCHLORITE SPILLS

DATE	LOCATION	MATERIAL	CLASS	DMG\$	CAUSE	2ND CAUSE	3RD CAUSE	4TH CAUSE	CONTAINER	M
1. 5/28/71	WAKEFORS,NC	SODIUM-HYPO	CL 76E1L	0 0 5	0E9 RP-NT	CONTR FLRE	SHRP OBJ		STL DRUM	1 02 1
2. 7/15/71	PHOENIX ,AZ	SODIUM-HYPO	CL 10E0	0 0 1	0E9 RP-NT	CONTR FLRE	IMP LDG			1 02 1
3. 5/17/72	SLT-LK-C,UT	SODIUM-HYPO	CL 11E2L	0 0 6	0E9 OVRFW	VALVE BKN			STO TANK	0 03 6
4. 9/20/72	CHICAGO ,IL	SODIUM-HYPO	CL 19E1L	0 0 3	50E0 OVRFW	GAU MS/DFC			STO TANK	0 41 1

SODIUM METHYLATE DRY SPILLS

DATE	LOCATION	MATERIAL	CLASS	DMG\$	CAUSE	2ND CAUSE	3RD CAUSE	4TH CAUSE	CONTAINER	M
1. 2/10/71	ATLANTA ,GA	SODIUM-METH	FS 23EOK	0 0 1	0E9 RP-NT	FORKLIFT			STL DRUM	0 51 1

SODIUM NITRATE SPILLS

DATE	LOCATION	MATERIAL	CLASS	Q U A N T I T Y	F A T I N J U R I E S	A T A L H A Z A R D S	P R I M A R Y	D M G \$	C A U S E	2ND CAUSE	3RD CAUSE	4TH CAUSE	C O N T A I N E R	M
1. 2/19/71	WATRBURY,CN	SOD NITRATE	OX 0E0U	0	0	9	0E0	CNRFR	EXPLOSION	MECH FAIL			DIP TANK	0 04 3
2. 9/ 8/72	ST-LJUIS,MO	SOD-NITRATE	OX 45E0K	0	0	1	50E0	RP-NT	SHRP OBJ				PA BAG	0 01 1
3. 6/ 6/73	POKEGAMA,WI	SOD-NITRATE	OX 55E3K	0	0	8	0E9	RP-TK	SHRP OBJ	DRLMENT			BK CR RR	0 02 1

SODIUM NITRITE SPILLS

DATE	LOCATION	MATERIAL	CLASS	Q U A N T I T Y	F A T I N J U R I E S	A T A L H A Z A R D S	P R I M A R Y	D M G \$	C A U S E	2ND CAUSE	3RD CAUSE	4TH CAUSE	C O N T A I N E R	M
1. 4/26/72	DOONTON ,NJ	SOD-NITRITE	OX 95E0L	0	0	1	10E0	TS FL	HSE,CPL FA	PRNSLL ERR			TK TRLR	0 21 1
2. 2/28/73	S-HOLLND,IL	SOD-NITRITE	OX 45E0K	0	0	1	25E0	RP-NT	SHRP OBJ	UNKNOWN			PA BAG	0 02 1
3. 3/ 7/73	FAIRLAWN,NJ	SOD-NITRITE	OX 45E0K	0	0	1	90E0	RP-NT	SHRP OBJ	IMPR HNDLG			PA BAG	0 02 1

SODIUM SULFATE SPILLS

DATE	LOCATION	MATERIAL	CLASS	Q U A N T I T Y	F A T I N J U R I E S	A T A L H A Z A R D S	P R I M A R Y	D M G \$	C A U S E	2ND CAUSE	3RD CAUSE	4TH CAUSE	C O N T A I N E R	M
1.10/ 1/72	RADFORD ,VA	SOD-SULFATE	UN 0E0U	0	0	99	0E9	OTHER	RPTRD PIPE	MTRL DFCT			PIPES	0 04 6
2.10/ 5/72	RADFORD ,VA	SOD-SULFATE	UN 0E0U	0	0	99	0E9	OTHER	RPTRD PIPE	MTRL DFCT			PIPES	0 04 6
3.10/10/72	RADFORD ,VA	SOD-SULFATE	UN 0E0U	0	0	99	0E9	OTHER	RPTRD PIPE	MTRL DFCT			PIPES	0 04 6

SODIUM PEROXIDE SPILLS

DATE	LOCATION	MATERIAL	CLASS	Q	U	A	N	I	T	F	DMG\$	CAUSE	2ND CAUSE	3RD CAUSE	4TH CAUSE	CONTAINER	M
1. 5/10/72	BALTIMOR,MD	SOD-SULFIDE	BP 47E2L	0	0	7	0E9	QVRFW	MTRL DFCT							PIPES	0 03 5
2. 5/10/72	BALTIMOR,MD	SOD-SULFIDE	BP 38E2L	0	0	7	0E9	RP-TK	VALVE BKN							STO TANK	0 03 6

SODIUM PEROXIDE SPILLS

DATE	LOCATION	MATERIAL	CLASS	Q U A N T I T Y	I N J U R I E S	F A T A L I T Y	D M G \$	CAUSE	2ND CAUSE	3RD CAUSE	4TH CAUSE	CONTAINER	M
1. 6/30/72	GASTONIA, NC	SOD PEROXIDE	CL 34EOK	0	0	1	0EO	RP-NT	EXPLCSION	FRGN SUBS	LSE CP, CVR	STL DRUM	0 03 3

SODIUM SILICATE SPILLS

						F A T		P				
						I	N	A	R		O	
						J	L	H	I		P S	
						U	I	A	M		O	
						R	T	Z	A		E A U	
						I	I	A	R		Q R R	
						E	E	R	Y		U E C	
						S	S	D			P A E	
DATE	LOCATION	MATERIAL	CLASS			DMG\$	CAUSE	2ND CAUSE	3RD CAUSE	4TH CAUSE	CONTAINER	M
1. 5/24/71	LONG ISL,NY	SOD SILICATE CL	19E3L	0	0	4	OEO RP-TK	EXPLOSION	VALVE SHUT		STO TANK	0 01 3

SOLVENT SPILLS

DATE	LOCATION	MATERIAL	CLASS	Q U A N T I T Y	F A T I N J U R I E S	A L I I E S	H A Z A R D	P R I M A R Y	O P S E A U Q R R U E C P A E			
1. 9/21/72	SAND SPR, OK	SOLVENT-470	FL 13E3L	1	0	99	DMG\$ 18E3	CAUSE RP-TK OVERTURN	2ND CAUSE ROWY CONDS	3RD CAUSE PRNSLL ERR	4TH CAUSE TK TRLR	CONTAINER M 0 02 1
2. 10/18/72	FULTON , OH	SOLVENT	FL 38E1L	0	0	1	OE9 RP-TK SHRP OBJ	NMRL OP			DIP TANK	0 04 3
3. 1/24/73	HICKORY , NC	SOLVENT	FL 21E1L	1	0	99	OE9 OVRFW DROPPED	PRNSLL ERR			STL DRUM	0 04 3

SOYBEAN OIL SPILLS

DATE	LOCATION	MATERIAL	CLASS	Q U A N T I T Y	F A T I N J U R I E S	A L I I E S	H A Z A R D	P R I M A R Y	O P S E A U Q R R U E C P A E			
1. 11/13/71	E ST LUS, IL	SOYBEAN OIL	FL 23E3L	0	0	99	DMG\$ OE0	CAUSE OVRFW OPN VALVE	2ND CAUSE INTNL REL	3RD CAUSE VANDALISM	4TH CAUSE STO TANK	CONTAINER M 1 03 3

STODDARD SPILLS

DATE	LOCATION	MATERIAL	CLASS	Q U A N T I T Y	F A T I N J U R I E S	A L I I E S	H A Z A R D	P R I M A R Y	O P S E A U Q R R U E C P A E			
1. 3/ 7/71	GRDNHTTN, OH	STODDARD	FL 57E0L	0	0	1	DMG\$ OE0	CAUSE OVRFW VALVE BKN	2ND CAUSE MECH FAIL	3RD CAUSE	4TH CAUSE STO TANK	CONTAINER M 0364 3

STYPOL SPILLS

[illegible]

DATE	LOCATION	MATERIAL	CLASS	1	2	3	4	DMG	CAUSE 1	2ND CAUSE	3RD CAUSE	4TH CAUSE	CONTAINER	M
1.12/ 9/72	MODESTO ,CA	STRNT CARBO	FS	OEQU	0	0	99	OE0	RP-NT WET	PACKNG	SPKLRS DSC		PA BAG	1 03 3

STYPOL SPILLS

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DATE	LOCATION	MATERIAL	CLASS	QTY	UNIT	DMG	CAUSE	2ND CAUSE	3RD CAUSE	4TH CAUSE	CONTAINER	M
1. 6/12/73	SNOWY-CR,VA	STYPOL	UN 19E3L	0	0 99	0E9	RP-TK	CONTR FLRE	OVRTURN		TK TRLR	0 02 2

SULFONIC ACID SPILLS

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I N J U R I E S	T A L H A Z A R D	F R I M A R Y		O
Q U A N T I T Y				E A U
				Q R R
				U E C
				P A E

DATE	LOCATION	MATERIAL	CLASS	QTY	QTY	QTY	QTY	DMG\$	CAUSE	2ND CAUSE	3RD CAUSE	4TH CAUSE	CONTAINER	M
1.12/22/72	EDGEWOOD,MD	SULFONIC-AC	CL 76EOL	0	0	1	0E9	RP-TK	OVRTURN	UNKNOWN			TK TRLR	0 02 2
2.12/22/72	BALTIMOR,MD	SULFONIC-AC	CL 75EOL	0	0	1	0E9	RP-TK	OVRTURN	DFCTV WELD			TK TRLR	0 02 6
3.12/29/72	BALTIMOR,MD	SULFONIC-AC	CL 76ECL	0	0	1	0E9	RP-TK	CONTR FLRE	OVRTURN			TK TRLR	0 02 2

SULFUR, MOLTEN SPILLS

DATE	LOCATION	MATERIAL	CLASS	Q	U	A	N	I	T	H	A	Z	P	Y	DMG\$	CAUSE	2ND CAUSE	3RD CAUSE	4TH CAUSE	CONTAINER	M
1. 10/ 2/70	GLEN FALL, NY	SULFUR-MOLT	CL 0E00	0	0	99	0E0	QVRFW	MECH FAIL										PIPES	0 04 3	
2. 2/22/71	,MD	SULFUR-MOLT	CL 90E4K	0	0	8	0E9	RP-TK	BODY FLRE	UNKNOWN									STD TANK	0 03 5	
3. 6/16/71	OAKLAND, CA	SULFUR-MOLT	CL 0E00	0	0	99	0E9	OTHER	UNKNOWN											0 00 6	
4. 5/ 5/72	NEW-BRIN, LA	SULFUR-MOLT	CL 0E00	0	1	99	0E9	TS FL	UNKNOWN											0 09 2	
5. 5/15/72	URAVAN, CO	SULFUR-MOLT	CL 18E3K	0	0	2	0E9	RP-TK	CONTR FLRE	QVRTURN									TK TRLR	0 02 6	

SULFUR MONO CHLORIDE SPILLS

DATE	LOCATION	MATERIAL	CLASS	Q	U	A	N	I	T	H	A	Z	P	Y	DMG\$	CAUSE	2ND CAUSE	3RD CAUSE	4TH CAUSE	CONTAINER	M
1. 11/12/71	AVON, IN	SULFUR-MONO	CL 13E4L	1	0	10	70E2	RP-TK	SHRP OBJ	DPLMENT									TK CR RR	0 02 1	
2. 3/ 5/72	BETHEL, CT	SULFUR-MONO	CL 45E0K	0	0	1	30E1	RP-NT	MTRL DECT	DRLM&OVPTN									STL DRUM	0 02 1	

SULFURATED POTASH SPILLS

DATE	LOCATION	MATERIAL	CLASS	Q	U	A	N	I	T	H	A	Z	P	Y	DMG\$	CAUSE	2ND CAUSE	3RD CAUSE	4TH CAUSE	CONTAINER	M
1. 7/13/72	TORONTO,	SULFURAT-PO	CM 0E00	0	0	99	0E9	RP-NT	CONTR FLRE	FIRE									VANDALISM	CORD DRM	3 03 3

SULFURIC ACID SPILLS---INCLUDES---MINE ACID SPILLS AND OLEUM SPILLS

DATE	LOCATION	MATERIAL	CLASS	Q U A N T I T Y	F A T I N J U R I E S	I N J U R I E S	H A Z A R D	P R I M A R Y	O S D E A U Q R R U E C P A E
1. 6/ 9/70	CHICOPEE,MA	SULFURIC-AC	CL 0E0U	0	0	99	0E9	OVRFW SPKLR'S DSC FIRE	IND MACH 0 04 3
2.11/26/70	FRANKLIN,IL	SULFURIC-AC	CL 0E0U	0	0	99	0E9	OTHER FIRE	STO TANK 0 03 3
3. 1/11/71	BERKLEY,CA	SULFURIC-AC	CL 0E0U	0	0	99	0E9	OVRFW HSE,CPL FA UNKNOWN	PIPES 0 02 6
4. 1/14/71	GLOBE ,AZ	SULFURIC-AC	CL 21E3K	1	0	4	13E3	RP-TK OVRTURN BRAKE FLRE	TK TRLR 0 01 1
5. 2/12/71	LAUREL ,MO	SULFURIC-AC	CL 15ECL	0	0	1	0E9	RP-NT DROPPED	PBTL/CTN 0 01 1
6. 3/ 4/71	TENNILE ,GA	SULFURIC-AC	CL 13E2K	0	0	1	15E0	RP-TK MTRL DFCT	TK CR RR 0 02 1
7. 3/ 4/71	COLUMBUS,GA	SULFURIC-AC	CL 45E2L	0	0	2	60E1	RP-TK MTRL DFCT	TK CR RR 0 02 1
8. 4/13/71	DEMINGES,IA	SULFURIC-AC	CL 8E0L	0	0	1	0E9	TS FL HSE,CPL FA	TK TRLR 0 41 1
9. 5/ 6/71	BUFFALO ,NY	SULFURIC-AC	CL 49E2L	0	0	2	34E2	OVRFW UNKNOWN	TK CR RR 0 02 1
10. 5/12/71	BRODRICK,CA	SULFURIC-AC	CL 28F0L	0	0	1	0E9	RP-NT IMP LDG	PLSTC DR 0 02 1
11. 5/28/71	WAKEFORS,NC	SULFURIC-AC	CL 76E1L	0	0	5	0E9	RP-NT CONTR FLRE SHRP OBJ CONTR FLRE	STL DRUM 1 02 1
12. 7/23/71	CRESTWOOD,MO	SULFURIC-AC	CL 65E2	0	0	3	10E2	OVRFW OPN VALVE PRNSLL ERR	TK TRLR 0 00 1
13. 9/ 2/71	CHICAGO ,IL	SULFURIC-AC	CL 11E1L	0	0	1	0E9	RP-NT CONTR FLRE IMP LDG	STL 'PAIL 0 02 1
14. 9/ 2/71	BILLINGS,MT	SULFURIC-AC	CL 15E0L	0	0	1	20E1	RP-NT MTRL DFCT	PLSTC BT 0 01 1
15. 9/ 9/71	99 ,LA	SULFURIC-AC	CL 36E2K	0	0	2	0E9	RP-TK LSE CP,CVR GSKT FAIL	TK TRLR 0 01 1
16. 9/10/71	SUMTRUI,FL	SULFURIC-AC	CL 19E4L	0	0	7	19E3	RP-TK SHRP OBJ DRLMENT	TK CR RR 0 02 1
17. 9/10/71	JACKSON,FL	SULFURIC-AC	CL 38E3L	0	0	5	10E3	RP-TK SHRP OBJ DRLMENT	TK CR RR 0 02 1
18. 9/18/71	CHATTANO, TN	SULFURIC-AC	CL 19E3L	0	0	4	75E1	RP-TK LKG CVR	TK CR RR 0 02 1
19. 9/29/71	GREENVIL, TX	SULFURIC-AC	CL 57E2L	2	0	2	80E1	RP-TK VALVE BKN CLS&OVRTN	TK TRLR 0 02 1
20.10/ 1/71	CHATANOG, TN	SULFURIC-AC	CL 38E1L	0	0	1	50E0	RP-TK BODY FLRE UNKNOWN	TK CR RR 0 02 1
21.10/ 1/71	CHATFIEL, MN	SULFURIC-AC	CL 16E2L	0	0	1	65E0	RP-TK HSE,CPL FA OVRTURN	TK TRLR 0 02 1
22.11/26/71	RIVERTON, WY	SULFURIC-AC	CL 10E1L	0	0	1	25E0	OTHER UNKNOWN	0 02 1
23.12/ 3/71	THOMASVL, AL	SULFURIC-AC	CL 58E3L	0	0	6	16E2	RP-TK LSE CP,CVR DRLMENT	TK CR RR 0 02 1
24.12/11/71	N BERGEN, NJ	SULFURIC-AC	CL 68E4L	0	0	9	0E9	RP-TK FIRE	STO TANK 0 03 3
25.12/22/71	HOUSTON ,TX	SULFURIC-AC	CL 13E3L	0	0	4	46E1	RP-TK CONTR FLRE COLLN	TK CR RR 0 02 1
26. 1/ 3/72	HANCOCK ,MI	SULFURIC-AC	CL 75E0L	0	0	1	10E0	RP-NT CONTR FLRE DROPPED	PL CARBY 0 01 1
27. 1/ 4/72	BERKLEY ,CA	SULFURIC-AC	CL 19E0L	0	0	1	0E9	OVRFW UNKNOWN	TK TRLR 0 01 6
28. 1/ 7/72	CLINTON ,IA	SULFURIC-AC	CL 23E1K	1	0	1	0E9	TS FL HSE,CPL FA MECH FAIL	STO TANK 0 20 1
29. 1/14/72	SAFFORD ,AZ	SULFURIC-AC	CL 54E2K	0	0	2	12E1	RP-TK VALVE BKN CLS&OVRTN	TK TRLR 0 02 1
30. 1/31/72	WAYNSVIL, NC	SULFURIC-AC	CL 19E1L	0	0	1	0E9	RP-TK VALVE BKN UNKNOWN	TK TRLR 0 02 6
31. 2/15/72	99 ,99	SULFURIC-AC	CL 19E1L	0	0	1	10E1	TS FL UNKNOWN	TK TRLR 0 21 1
32. 2/16/72	HERNANDO, FL	SULFURIC-AC	CL 51E3L	1	0	6	40E2	RP-TK CONTR FLRE DRLMENT	TK CR RR 0 02 1
33. 2/18/72	TOLEDO ,OH	SULFURIC-AC	CL 8ECL	0	0	1	80E1	RP-TK LSE CP,CVR PRNSLL ERR	TK TRLR 0 02 1
34. 2/24/72	STRUTHRS, OH	SULFURIC-AC	CL 37E3L	0	0	5	0E9	RP-TK SHRP OBJ COLLN PRNSLL ERR	TK CR RR 0 02 1
35. 3/21/72	MTVERNON, KY	SULFURIC-AC	CL 38E3L	0	0	5	13E2	RP-TK SHRP OBJ DRLMENT UNKNOWN	TK CR RR 0 02 1
36. 3/23/72	CLEVELAN, OH	SULFURIC-AC	CL 38E2L	0	0	2	45E1	TS' FL HSE,CPL FA UNKNOWN	TK TRLR 0 51 1
37. 4/ 7/72	BUSHBPRK, SC	SULFURIC-AC	CL 19E0L	1	0	1	0E9	RP-TK CONTR FLRE DFCTV WELD	TK TRLR 0 01 1
38. 4/14/72	CANTON ,OH	SULFURIC-AC	CL 79E1L	0	0	1	25E0	TS FL HSE,CPL FA UNKNOWN	TK TRLR 0 51 1
39. 4/28/72	BELLVIEW, MO	SULFURIC-AC	CL 20E2L	0	0	1	10E1	RP-TK LKG CVR OVRTURN	TK TRLR 0 02 1
40. 5/ 2/72	GREENSBR, NC	SULFURIC-AC	CL 76E1L	0	0	1	78E0	RP-TK LSE CP,CVR PRNSLL ERR	TK TRLR 0 01 1
41. 5/ 5/72	MEMPHIS ,TN	SULFURIC-AC	CL 0E0U	0	0	99	0E9	TS FL UNKNOWN	0 01 6
42. 5/ 8/72	MEMPHIS ,TN	SULFURIC-AC	CL 76E1L	0	0	1	0E9	TS FL UNKNOWN	0 01 2
43. 5/14/72	AUSTIN ,MN	SULFURIC-AC	CL 14E3L	0	0	4	0E9	OVRFW OPN VALVE PRNSLL ERR	0 03 6
44. 5/15/72	CLIMAX ,CO	SULFURIC-AC	CL 38E2L	0	0	2	12E2	RP-TK OPN VALVE PRNSLL ERR	TK TRLR 0 01 1
45. 5/15/72	CLIMAX ,CO	SULFURIC-AC	CL 11E3L	0	0	3	0E9	RP-TK CONTR FLRE UNKNOWN	STO TANK 0 00 6

46.	5/16/72	CARBON ,PN	SULFUR IC-AC	CL 27E2L	0 0	2 0E9	RP-NT	CONTR FLRE	DRLM&OVRTN	ST BATT	0 02 6
47.	5/31/72	NEVIL-IS,PA	SULFUR IC-AC	CL 57E2L	0 0	1 36E0	OVRFW	PRNSLL ERR		STD TANK	0 51 1
48.	6/ 1/72	SAVANNAH,GA	SULFUR IC-AC	CL 15E1L	0 0	1 30E2	ITLRL	UNKNOWN		TK TRLR	0 02 1
49.	6/13/72	JOLIET ,IL	SULFUR IC-AC	CL 30E1L	0 0	1 14E0	TS FL	MTRL DFCT	UNKNOWN	TK TRLR	0 50 1
50.	6/19/72	BATORUGE,LA	SULFUR IC-AC	CL 79E1L	0 0	1 28E1	ITLRL	PRNSLL ERR		TK TRLR	0 01 1
51.	6/24/72	WHITE SP,FL	SULFUR IC-AC	CL 11E5L	0 0	9 50E3	RP-TK	MTRL DFCT	O V R F W	CKG/MX T	0 04 3
52.	6/29/72	INTRACST,LA	SULFUR IC-AC	CL 21E2L	0 0	1 14E1	OTHER	UNKNOWN		TK TRLR	0 51 1
53.	7/ 1/72	99 ,NC	SULFUR IC-AC	CL 38E0L	0 0	1 0E9	RP-TK	COLLSN	UNKNOWN	TK TRLR	0 02 2
54.	7/ 9/72	NILES ,OH	SULFUR IC-AC	CL 21E1L	0 0	1 50E0	RP-NT	CONTR FLRE	UNKNOWN	STL DRUM	0 02 1
55.	7/10/72	LINDEN ,NJ	SULFUR IC-AC	CL 39E3K	0 0	2 14E1	RP-TK	SHRP OBJ	MECH FAIL	TK TRLR	0 02 1
56.	7/21/72	BALTIMOR,MD	SULFUR IC-AC	CL 0E0U	0 0	99 0E9	RP-TK	UNKNOWN		TK TRLR	0 02 5
57.	7/27/72	CLEVELND,OH	SULFUR IC-AC	CL 11E1L	0 0	1 60E0	RP-NT	CONTR FLRE	DROPPED	STL DRUM	0 01 1
58.	7/27/72	CHICAGO ,IL	SULFUR IC-AC	CL 19E1L	0 0	1 50E0	TS FL	HSE,CPL FA	OVRPRES	VALVE BKN	TK TRLR 0311 1
59.	7/29/72	RUSTON ,LA	SULFUR IC-AC	CL 16E2L	2 0	1 14E3	RP-TK	VALVE BKN	CLSGOVRTN	TK TRLR	0 02 1
60.	7/31/72	GLOBE ,AZ	SULFUR IC-AC	CL 11E3K	0 0	3 18E1	RP-TK	SHRP OBJ	COLLSN	UNKNOWN	TK TRLR 0 02 1
61.	8/ 4/72	99 ,99	SULFUR IC-AC	CL 79E1L	0 0	1 50E0	RP-TK	CONTR FLRE	MTRL DFCT	STO TANK	0 41 1
62.	8/ 7/72	MOBILE ,AL	SULFUR IC-AC	CL 23E0L	0 0	1 50E1	RP-TK	SHRP OBJ	IMP LDG	BK TRLR	0 02 1
63.	8/11/72	CLRK SJCT,WY	SULFUR IC-AC	CL 17E3L	0 0	4 12E2	RP-TK	SHRP OBJ	OVRTURN	TK TRLR	0 02 1
64.	8/13/72	GEISMAR ,LA	SULFUR IC-AC	CL 57ECL	0 0	1 50E0	TS FL	HSE,CPL FA	UNKNOWN	TK TRLR	0 21 1
65.	8/14/72	KINGS-MT,NC	SULFUR IC-AC	CL 18E0L	0 0	1 10E0	RP-TK	LKG CVR	GSKT FAIL	TK CR RR	0 02 1
66.	8/16/72	BURLINGT,WI	SULFUR IC-AC	CL 57E0L	0 0	1 10E1	RP-NT	CONTR FLRE	MTRL DFCT	RUBBR CN	0 01 1
67.	9/ 1/72	DOWNGTON,PA	SULFUR IC-AC	CL 19E1L	0 0	1 15E0	OVRFW	LSE CP,CVR	PRNSLL ERR	TK TRLR	0 51 1
68.	9/16/72	BATNRUGE,LA	SULFUR IC-AC	CL 19E1L	0 0	2 25E3	RP-TK	OPN VALVE	PRNSLL ERR	TK TRLR	0362 1
69.	9/21/72	RIALTO ,TN	SULFUR IC-AC	CL 38E2L	0 0	2 40E0	RP-TK	VALVE BKN	COLLSN	DRLM&OVRTN	TK CR RR 0 02 1
70.	9/21/72	RIALTO ,TN	SULFUR IC-AC	CL 70E2L	0 0	3 80E0	RP-TK	SHRP OBJ	DRLM&OVRTN	TK CR RR	0 02 1
71.	10/ 3/72	N-ALICE ,TX	SULFUR IC-AC	CL 11E2L	0 0	3 47E1	RP-NT	CONTR FLRE	OVRTURN	PLSTC BG	0 02 1
72.	10/31/72	NEWARK ,NJ	SULFUR IC-AC	CL 19E3L	0 0	4 0E9	OVRFW	MECH FAIL	UNKNOWN	TK CR RR	0 01 6
73.	11/ 1/72	HAMMOND ,IN	SULFUR IC-AC	CL 27E3L	0 0	5 0E9	OTHER	CONTR FLRE	UNKNOWN	TK CR RR	0 02 1
74.	11/ 1/72	WAYNESVL,NC	SULFUR IC-AC	CL 19E0L	0 0	1 0E9	RP-TK	OPN VALVE		TK TRLR	0 02 2
75.	11/ 1/72	HAMMOND ,IN	SULFUR IC-AC	CL 0E0U	0 0	99 0E9	RP-TK	CONTR FLRE	UNKNOWN	TK CR RR	0 02 6
76.	11/ 2/72	WANESVIL,NC	SULFUR IC-AC	CL 19E1L	0 0	1 0E9	RP-TK	UNKNOWN		TK TRLR	0 02 2
77.	11/ 3/72	BRDFRDPK,IL	SULFUR IC-AC	CL 19E1L	0 0	1 7E0	TS FL	UNKNOWN		TK TRLR	0 51 1
78.	11/ 8/72	WESTLAKE,LA	SULFUR IC-AC	CL 26E2L	0 0	2 25E1	TS FL	UNKNOWN		TK TRLR	0 51 1
79.	12/ 1/72	99 ,NC	SULFUR IC-AC	CL 0E0U	0 0	99 0E9	RP-TK	CONTR FLRE		TK TRLR	0 02 6
80.	12/10/72	ST-PAUL ,MN	SULFUR IC-AC	CL 95E1L	0 0	1 0E9	RP-TK	CONTR FLRE	MTRL DFCT	STO TANK	1 03 6
81.	12/18/72	KNOXVILE,TN	SULFUR IC-AC	CL 21E3L	0 0	4 25E2	OTHER	UNKNOWN		TK TRLR	0 02 1
82.	12/18/72	DUCKTOWN,TN	SULFUR IC-AC	CL 60E2L	0 0	4 0E9	RP-TK	OVRTURN	UNKNOWN	TK TRLR	0 02 2
83.	12/18/72	DUCKTOWN,TN	SULFUR IC-AC	CL 23E3L	0 0	4 0E9	OVRFW	UNKNOWN	UNKNOWN	TK TRLR	0 02 6
84.	12/19/72	PALMRTWN,PA	SULFUR IC-AC	CL 38E1L	0 0	1 61E0	RP-TK	OPN VALVE	PRNSLL ERR	TK TRLR	0 00 1
85.	12/19/72	DUCKTOWN,TN	SULFUR IC-AC	CL 23E3L	0 0	4 0E9	RP-TK	CONTR FLRE	OVRTURN	TK TRLR	0 02 2
86.	12/19/72	DUCKTOWN,TN	SULFUR IC-AC	CL 1E0L	0 0	1 0E9	RP-TK	CONTR FLRE	OVRTURN	TK TRLR	0 02 2
87.	12/23/72	CINCINAT,OH	SULFUR IC-AC	CL 76E1L	0 0	1 0E9	OVRFW	PRNSLL ERR		STO TANK	0 04 6
88.	1/ 6/73	BROADNAX,VA	SULFUR IC-AC	CL 76E1L	0 0	1 15E2	RP-TK	LKG CVR	DRLM&OVRTN	TK CR RR	0 02 1
89.	1/ 7/73	DESPL-R,IL	SULFUR IC-AC	CL 14E4L	0 0	17 0E9	RP-TK	MTRL DFCT		STO TANK	1 03 2
90.	1/23/73	MARIETTA,GA	SULFUR IC-AC	CL 49E0L	0 0	1 20E1	RP-NT	UNKNOWN		DELDRUM	0 02 1
91.	2/ 4/73	MOBILE ,AL	SULFUR IC-AC	CL 76E1L	0 0	1 20E1	RP-TK	BODY FLRE	MTRL DFCT	TK CR RR	0 02 1
92.	2/ 9/73	COLUMBIN,OH	SULFUR IC-AC	CL 14E3L	0 0	4 18E2	RP-TK	SHRP OBJ	CLSGOVRTN	TK TRLR	0 02 1
93.	2/22/73	POWER ,WV	SULFUR IC-AC	CL 19E1L	0 0	1 15E0	OVRFW	GAU MS/DFC	PRNSLL ERR	STO TANK	0 41 1
94.	3/ 3/73	ONTARIO ,CD	SULFUR IC-AC	CL 38E1L	0 0	1 0E9	OVRFW	UNKNOWN		STO TANK	0 01 1
95.	3/15/73	PALMERTN,PA	SULFUR IC-AC	CL 28E1L	0 0	1 10E1	OVRFW	OPN VALVE	PRNSLL ERR	TK TRLR	0362 1
96.	3/15/73	NEWPORT ,DE	SULFUR IC-AC	CL 19E1L	0 0	1 25E0	TS FL	HSE,CPL FA	UNKNOWN	TK TRLR	0 41 1
97.	4/12/73	DAWSONVL,GA	SULFUR IC-AC	CL 21E3L	1 0	4 14E3	RP-TK	SHRP OBJ	OVRTURN	PRNSLL ERR	TK TRLR 0 02 1
98.	5/ 4/73	COPPRHIL,TN	SULFUR IC-AC	CL 38E0L	0 0	1 0E9	OTHER	UNKNOWN			0 01 2
99.	5/ 4/73	COPPRHIL,TN	SULFUR IC-AC	CL 38E1L	0 0	1 0E9	OTHER	UNKNOWN			0 01 2
100.	5/17/73	ETOWAH ,TN	SULFUR IC-AC	CL 98E2L	0 0	3 0E9	OTHER	UNKNOWN			0 03 2
101.	5/25/73	ALQUIPA,PA	SULFUR IC-AC	CL 76E3L	0 0	6 0E9	RP-TK	CONTR FLRE	UNKNOWN	STO TANK	0361 2
102.	5/29/73	ALQUIPA,PA	SULFUR IC-AC	CL 38E3L	0 0	5 0E9	RP-TK	CONTR FLRE	UNKNOWN	STO TANK	0 03 2
103.	5/29/73	ALQUIPA,PA	SULFUR IC-AC	CL 38E3L	0 0	5 0E9	RP-TK	CONTR FLRE	UNKNOWN	STO TANK	0361 2

104. 6/11/73 CLEVELAND, TN SULFURIC-AC CL 1F1L 0 0 1 0E2 RP-TK LSE,CP,CVR
 105. 7/13/73 MARTINEZ, CA SULFURIC-AC CL 76F3L 0 0 6 0E9 TS FL HSE,CPL FA
 106. 5/30/72 UNION, CT OLFUM CL 11F2L 0 0 1 50E1 TS FL HSE,CPL FA

TK TPLR 0 02 2
 0 01 2
 TK TRLR 0 21 1

SULFURYL CHLORIDE SPILLS

	F											
	A											
	I	T				P						
Q	N	A				R					O	
U	J	L	H			I					P	S
A	U	I	A			M					O	
N	R	T	Z			A					EA	U
I	I	I	A			R					QR	R
T	E	E	R			Y					UE	C
Y	S	S	D								PA	E

DATE	LOCATION	MATERIAL	CLASS	DWG	CAUSE	2ND CAUSE	3RD CAUSE	4TH CAUSE	CONTAINER	M
1. 7/ 5/72	S-CHOLST, OH	SULFURYL-CH	CL 38F CL	0	0	4 12E2 RP-NT CONTD FLRE	MTFL DECT		STL DRUM	0 02 1
2. 11/16/72	HOUSTON, TX	SULFURYL-CH	CL 01FCK	0	0	5 0E2 RP-NT SHRP OBJ	UNKNOWN		STL DRUM	0 02 1

TALLOW SPILLS

	F											
	A											
	I	T				P						
Q	N	A				R					O	
U	J	L	H			I					P	S
A	U	I	A			M					O	
N	R	T	Z			A					EA	U
I	I	I	A			R					QR	R
T	E	E	R			Y					UE	C
Y	S	S	D								PA	E

DATE	LOCATION	MATERIAL	CLASS	DWG	CAUSE	2ND CAUSE	3RD CAUSE	4TH CAUSE	CONTAINER	M
1. 9/20/71	LAMBURIS, VA	TALLOW	UN 10F2L	0	1 00	0E2 TS FL HSE,CPL FA	OVRPRES			0411 2
2. 7/ 6/73	SAVANNAH, GA	TALLOW	UN 11F4L	0	0 99	0E2 RP-TK UNKNOWN		SHIP		0 00 2

TECHNISTIP N.O.I. SPILLS

	F											
	A											
	I	T				P						
Q	N	A				R					O	
U	J	L	H			I					P	S
A	U	I	A			M					O	
N	R	T	Z			A					EA	U
I	I	I	A			R					QR	R
T	E	E	R			Y					UE	C
Y	S	S	D								PA	E

DATE	LOCATION	MATERIAL	CLASS	DWG	CAUSE	2ND CAUSE	3RD CAUSE	4TH CAUSE	CONTAINER	M
1. 6/21/71	CHICAGO, IL	TECHNISTIP	BP 2ECK	0	0 99	50E0 RP-NT SHRP OBJ	UNKNOWN		CDRD DRM	0 02 1

THERMINOL 66 N.O.I. SPILLS

DATE	LOCATION	MATERIAL	CLASS	Q U A N T I T Y	F A T I G U E S	H A Z A R D O U S	F I R M A R Y	D M G \$	CAUSE	2ND CAUSE	3RD CAUSE	4TH CAUSE	CONTAINER	M
1. 3/30/73	BELLE ,WV	TETRACHLORD	UN 75FCL	0 0 99	0 0 99	0 0 99	0 0 99	0 0 99	RP-NT	CONTR FLRE	IMP LCG		STL DRUM	0 02 1

THERMINOL 66 N.O.I. SPILLS

DATE	LOCATION	MATERIAL	CLASS	Q U A N T I T Y	F A T I G U E	D M G	CAUSE	2ND CAUSE	3RD CAUSE	4TH CAUSE	CONTAINER	M
1. 2/14/72	ST LOUIS,MO	THERMINOL	66 FL	0EOU	0	0	99	0EO	OVFRW	MECH FAIL	GSKT FAIL	IND MACH 0

THIMET SPILLS---SYN---PHORATE

DATE	LOCATION	MATERIAL	CLASS	Q U A N T I T Y	I N J U R I E S	F A L L H A Z A R D S	D M G	\$	C A U S E	2ND CAUSE	3RD CAUSE	4TH CAUSE	CONTAINER	M
1. 6/24/72	IMPERIAL ,CA	THIMET	BP	18E2K	0	0	1	0E9	OVRFW	EXPLOSION	FIRE			2 01 6
2. 5/11/71	PASCO ,WA	THIMIT	BP	15EOL	0	0	1	70E0	RP-NT	SHRP OBJ	IMP LDG		STL PAIL	0 92 1
3. 3/20/72	SEATTLE ,WA	THIMIT	BP	1ECL	0	0	1	20E0	RP-NT	SHRP OBJ	IMP LDG			0 02 1

THIOPHENOL SPILLS

DATE	LOCATION	MATERIAL	CLASS	Q U A N T I T Y	I N J U R I E S	F A T A L I T Y	H A Z A R D O	P R I M A R Y	CAUSE	2ND CAUSE	3RD CAUSE	4TH CAUSE	CONTAINER	M	O P S O E A U Q R U E C P A E
1. 10/14/71	CHEMUNG, NY	THIONYL-CHL	CL 10E0K	0	0	1	10F1	RP-NT	SHRP OBJ				STL DRUM	0	02 1
2. 9/12/72	LAREDO, TX	THIONYL-CHL	CL 38FCL	0	0	1	50E2	RP-NT	CONTR FLRE	MTRL DFCT			STL DRUM	0	02 1
3. 9/14/72	BRIMFIELD, MA	THIONYL-CHL	CL 57ECL	0	0	2	45E1	RP-NT	CONTR FLRE	DFCTV WELD			STL DRUM	0	02 1

[illegible]

TOLUENE SPILLS---SYN---TOLUOL

DATE	LOCATION	MATERIAL	CLASS	Q U A N T I T Y	I N J U R I E S	A T T A C H M E N T S	D M G \$	CAUSE	2ND CAUSE	3RD CAUSE	4TH CAUSE	CONTAINER	M
1. 1/21/71	JOLIET ,IL	TOLUENE	FL 38E3L	0	0	10	10E3	RP-TK	BODY FLRE	COLLSN		TK CR RR	0 02 1
2. 1/29/71	WESTFILD,MA	TOLUENE	FL 79E1L	0	0	5	27E1	TS FL	HSE,CPL FA			TK TRLR	0 41 1
3. 4/11/71	YORKTOWN,VA	TOLUENE	FL 0E0U	0	0	99	0E9	TS FL	UNKNOWN				0411 2
4. 6/ 6/71	XENIA ,OH	TOLUENE	FL 20E4L	0	0	10	0E0	RP-TK	EXPLOSION	LIGHTNING		STO TANK	0 03 3
5. 7/22/71	BEACON ,NY	TOLUENE	FL 19E1L	0	0	3	15E0	OVRFW	PRNSLL ERR			STO TANK	0 41 1
6. 10/ 6/71	BALTIMOR,MD	TOLUENE	FL 0E0U	1	0	99	0E9	OVRFW	UNKNOWN	FIRE		PIPES	013611
7. 3/26/72	SEADRIFT,TX	TOLUENE	FL 0E0U	0	0	99	5E0	TS FL	HSE,CPL FA			BARGE TK	0 01 2
8. 5/18/72	CHICAGO ,IL	TOLUENE	FL 21E1L	0	0	3	22E1	RP-NT	SHRP OBJ			STL DRUM	0 11 1
9. 10/13/72	TULSA ,OK	TOLUENE	FL 38E1L	0	0	4	0E0	TS FL	HSE,CPL FA	MTRL DFCT		TK TRLR	0 01 1
10. 11/14/72	LEXINGTON,KY	TOLUENE	FL 76E2L	0	0	8	0E9	RP-TK	COLLSN	UNKNOWN		TK TRLR	0 02 2
11. 11/21/72	LEXINGTON,KY	TOLUENE	FL 76E2L	0	0	8	0E9	RP-TK	CONTR FLRE	COLLSN		TK TRLR	0 02 6
12. 11/22/72	CHICAGO ,IL	TOLUENE	FL 0E0U	0	0	99	0E9	RP-TK	CONTR FLRE	UNKNOWN		BARGE BK	0 02 6
13. 12/29/72	CLEARING,IL	TOLUENE	FL 33E3L	0	0	10	2E3	RP-TK	DRLMENT	BODY FLRE		TK CR RR	0 02 1
14. 1/22/73	OHIO-JCT,OH	TOLUENE	FL 38E3L	0	0	10	0E9	RP-TK	CONTR FLRE	UNKNOWN		TK CR RR	0 02 1
15. 2/ 8/73	CARPENDR,IL	TOLUENE	FL 57E0L	0	0	2	10E0	TS FL	DROPPED	RDWY CONDS		TK TRLR	0 01 1
16. 3/10/73	FLINT ,MI	TOLUENE	FL 64E1L	0	0	5	0E9	OVRFW	OPN VALVE	PRNSLL ERR		TK CR RR	0 02 1
17. 4/ 3/73	HOUSTON ,TX	TOLUENE	FL 1E0L	0	0	1	0E9	RP-NT	SHRP OBJ	UNKNOWN		STL DRUM	0 02 1
18. 6/12/73	IRON-CRE,TX	TOLUENE	FL 37E3L	0	0	10	0E9	RP-TK	DRLME OVRTN	UNKNOWN		TK CR RR	1 02 2
19. 2/24/73	PENSACLA,FL	TOLUOL	FL 38E0L	1	0	1	90E0	RP-TK	LKG CVR	OVERTURN		TK TRLR	0 02 1

TOLUENE DIISOCYANATE SPILLS

DATE	LOCATION	MATERIAL	CLASS	Q U A N T I T Y	I N J U R I E S	A T T A C H M E N T S	D M G \$	CAUSE	2ND CAUSE	3RD CAUSE	4TH CAUSE	CONTAINER	M
1. 3/23/71	INSTITUT,WV	TOLUENE-DIS	CL 34E1K	0	0	4	0E9	OVRFW	UNKNOWN			STO TANK	0 03 2

TOLUIDENE SPILLS

DATE	LOCATION	MATERIAL	CLASS	Q U A N T I T Y	F A T I N J U R I E S	H A Z A R D	P R I M A R Y	D M G \$	CAUSE	2ND CAUSE	3RD CAUSE	4TH CAUSE	CONTAINER	M	O P S O E A U Q R R U E C P A E
1. 12/12/72	DUFF ,TN	TOLUIDENE	BP	19E3L	0	0	9	80E1	RP-TK	SHRP	OBJ	DRLMENT	TK CR RR	0	02 1

TOXAPHENE SPILLS

DATE	LOCATION	MATERIAL	CLASS	Q U A N T I T Y	F A T I N J U R I E S	H A Z A R D	P R I M A R Y	D M G \$	CAUSE	2ND CAUSE	3RD CAUSE	4TH CAUSE	CONTAINER	M	O P S O E A U Q R R U E C P A E
1. 7/18/72	MONTGOMR,AL	TOXAPHENE	BP	38E1L	0	0	1	30E1	TS FL	HSE,CPL	FA	UNKNOWN	TK TRLR	0	51 1
2. 9/29/72	ATHENS ,AL	TOXAPHENE	BP	15E0L	0	0	1	13E0	OVRFW	PRNSLL	ERR			0	01 1

TRANSFORMER OIL SPILLS

DATE	LOCATION	MATERIAL	CLASS	Q U A N T I T Y	F A T I N J U R I E S	H A Z A R D	P R I M A R Y	D M G \$	CAUSE	2ND CAUSE	3RD CAUSE	4TH CAUSE	CONTAINER	M	O P S O E A U Q R R U E C P A E
1. 11/ 8/72	TYSNS CR,VA	TRANSF OIL	FL	11E2L	0	0	1	0E0	RP-NT	ELCT	ARCNG		TRANSFRMR	0	03 3
2. 4/ 6/73	CORPUS C,TX	TRANSF OIL	FL	42E1L	0	0	1	0E0	RP-TK	FIRE		FIRE	STO TANK	0	04 3
3. 4/19/73	BEIRNE ,AR	TRANSF OIL	FL	0E0U	0	0	99	0E0	RP-NT	CONTR	FLRE	LIGHTNING	TRANSFRMR	0	03 3

TRICHLORACETALDEHYDE SPILLS

	F		P	O
	A		R	S
I	T	H	I	O
N	L	A	M	E
J	I	Z	A	R
U	T	A	R	C
R	E	R	Y	E
I	S	D		
T				
Y				

DATE	LOCATION	MATERIAL	CLASS	DMG	CAUSE 1	2ND CAUSE	3RD CAUSE	4TH CAUSE	CONTAINER	M
1. 7/ 7/71	FRESNO ,CA	TRICALC	ARS BP 34E1K	0	0	1	40E1 RP-NT SHRP OBJ	IMP LDG	PA BAG	0 02 1

TRICHLORACETALDEHYDE SPILLS

	F			O
	A	P		S
I	T	R		D
N	J	I	H	E
A	L	M	Z	A
N	I	A	A	R
I	T	R		C
T	E	Y		U
Y	S			E

DATE	LOCATION	MATERIAL	CLASS	DMG	CAUSE	2ND CAUSE	3RD CAUSE	4TH CAUSE	CONTAINER	M
1.11/ 2/71	DETROIT ,MI	TRICHLORACE	BP 15E1L	0	0	1	0E9 RP-NT FORKLIFT	PRNSLL ERR	STL DRUM	0 02 1

TRICHLORETHYLENE SPILLS

	F				
	A				
	T		P		
Q	I		R		O
U	N		I		P S
A	J	H			O
N	U	A			EA U
I	R	Z			QR R
T	I	A			UE C
Y	E	R	Y		PA E
	S	D			

DATE	LOCATION	MATERIAL	CLASS	QTY	QTY	QTY	QTY	DMG\$	CAUSE	2ND CAUSE	3RD CAUSE	4TH CAUSE	CONTAINER	M
1.12/23/69	W-PHILAD,PA	TRICHLORETH	BP 4ECL	0	0	1	0E9	OVRFW	CNTRL	INOP				0 04 3
2. 3/ 9/71	WOBURN ,MA	TRICHLORETH	BP 11ECL	0	0	1	0E9	RP-NT	UNKNOWN				STL DRUM	0 02 1

TRIETHANOLAMINE SPILLS

DATE	LOCATION	MATERIAL	CLASS	QUANTITY	FATS	HAZARD	PRIMARY	DMG\$	CAUSE	2ND CAUSE	3RD CAUSE	4TH CAUSE	CONTAINER	M
1. 4/26/73	PULASKI, VA	TRIETHANOLA	FL	57E2L	0	0	6	0E9	RP-TK	COLLSN			TK TRLR	1 02 2

TR IETHYLAMINE SPILLS

DATE	LOCATION	MATERIAL	CLASS	Q U A N T I T Y	F A T A L I T I E S	H A Z A R D	F R I M A R Y	DMG \$	CAUSE	2ND CAUSE	3RD CAUSE	4TH CAUSE	CONTAINER	M
1. 4/21/71	LOUISVIL,KY	TRIETHYLAMI	FL	0E9L 3	0	99		0E9	RP-NT	CONTR FLRE	MTRL DFCT		STL DRUM	0

TRIFLUOROACETIC ACID SPILLS

DATE	LOCATION	MATERIAL	CLASS	Q U A N T I T Y	F A T N J U R I E S	H A Z A R D S	P R I M A R Y	DMG\$	CAUSE	2ND CAUSE	3RD CAUSE	4TH CAUSE	CONTAINER	M
1. 3/15/73	CINCINAT,OH	TRIFLURDACE	CL 11EOL	0	0	1	25E1	RP-NT	SHRP OBJ	IMP	LDG		BGS/CTN	0

TRIPHENYL SULFONIUM CHLORIDE N.O.I. SPILLS

DATE	LOCATION	MATERIAL	CLASS	Q U A N T I T Y	F A T N J U R I S S S	H A Z A R D S	F R I M A R Y	DMG\$	CAUSE	2ND CAUSE	3RD CAUSE	4TH CAUSE	CONTAINER	M	
1.10/19/71	99	,CO	TRIPHENYL-S	UN	68EOK	0	0	92	27E1	RP-NT	UNKNOWN			STL DRUM	1 02 1

TURPENTINE SPILLS

DATE	LOCATION	MATERIAL	CLASS	Q	F A I N J U A N I T Y	T N L I T I E S	H A Z A R D	P R I M A R Y	DMG\$	CAUSE	2ND CAUSE	3RD CAUSE	4TH CAUSE	CONTAINER	M	
1.11/20/72	BRNSVILLE,TX	TURPENTINE	FL 66E3L	0	0	10	0E9	OVRFW	HSE,CPL	FA	UNKNOWN		STO TANK	0	02	6
2.11/21/72	BRNSVILLE,TX	TURPENTINE	FL 66E3L	0	0	10	0E9	TS FL	RPTRD	PIPE	UNKNOWN			0	01	2

UNSYMMETRICAL DIMETHYL HYDRAZINE SPILLS

DATE	LOCATION	MATERIAL	CLASS	Q	F A I N J U A N I T Y	T N L I T I E S	H A Z A R D	P R I M A R Y	DMG\$	CAUSE	2ND CAUSE	3RD CAUSE	4TH CAUSE	CONTAINER	M	
1.10/31/72	PRTR CTR,NY	UNSYM DIMET	FL 47E1L	0	0	7	0E0	RP-TK	EXPLOSION	CHMCAL	RE	FORGN SUBS	STO TANK	1	05	3

URANA SPILLS

DATE	LOCATION	MATERIAL	CLASS	Q	F A I N J U A N I T Y	T N L I T I E S	H A Z A R D	P R I M A R Y	DMG\$	CAUSE	2ND CAUSE	3RD CAUSE	4TH CAUSE	CONTAINER	M	
1. 2/ 1/72	VENICE ,LA	URANA-FERTL	UN 76E5L	0	0	99	0E9	RP-TK	CONTR	FLRE	COLLSN		BARGE BK	0	02	6
2. 4/ 0/72	NEW-ORLN,LA	URANA-FERTL	UN 64E5L	1	0	99	0E9	RP-NT	SHIP	SANK			BARGE TK	0	01	2

URANIUM ORE SPILLS

DATE	LOCATION	MATERIAL	CLASS	Q U A N T I T Y	F A T I N J U R I E S	H A Z A R D O U S	P R I M A R Y	D M G \$	CAUSE	2ND CAUSE	3RD CAUSE	4TH CAUSE	CONTAINER	M
1. 8/ 4/71	DENVER ,CO	URANIUM-ORE	OT 90E1K	0	0	99	14E2	RP-NT	CONTR FLRE	OVRTURN			STL DRUM	0 02 1

UREA FORMALDEHYDE SPILLS

DATE	LOCATION	MATERIAL	CLASS	Q U A N T I T Y	F A T I N J U R I E S	H A Z A R D O U S	P R I M A R Y	D M G \$	CAUSE	2ND CAUSE	3RD CAUSE	4TH CAUSE	CONTAINER	M
1.11/ 9/72	FARMVILL,NC	UREA-FORMAL	BP 28E2L	0	0	7	0E9	OVRFW	UNKNOWN					0 00 6
2.11/10/72	FARMVILLE,NC	UREA-FORMAL	BP 28E2L	0	0	7	0E9	OTHER	UNKNOWN					0 00 2

VINYL ACETATE SPILLS

DATE	LOCATION	MATERIAL	CLASS	Q U A N T I T Y	F A T I N J U R I E S	H A Z A R D O U S	P R I M A R Y	D M G \$	CAUSE	2ND CAUSE	3RD CAUSE	4TH CAUSE	CONTAINER	M
1.12/11/71	CORBIN ,LA	VINYL-ACETA	FL 70E3L	0	0	6	13E3	RP-TK	SHRP OBJ	ORLMENT	VANDALISM	TK CR RR	0 02 1	
2. 2/11/72	PADUCAH ,KY	VINYL-ACETA	FL 23E0K	0	0	1	50E0	RP-NT	FORKLIFT			STL DRUM	0 01 1	
3. 2/11/72	PADUCAH ,KY	VINYL-ACETA	FL 23E0K	0	0	1	50E0	RP-NT	FORKLIFT	PRNSLL ERR		STL DRUM	0 01 1	
4. 4/27/72	HAZLCRST,IL	VINYL-ACETA	FL 11E2L	0	0	1	0E9	RP-TK	LSE CP,CVR	GSKT FAIL		TK CR RR	0 02 1	
5. 1/ 3/73	CORPUS-C,TX	VINYL-ACETA	FL 0E0U	0	0	99	60E2	TS FL	OPN VALVE	PRNSLL ERR		BARGE TK	0 01 2	
6. 1/ 4/73	CORP-CHR,TX	VINYL-ACETA	FL 79E3L	0	0	8	0E9	RP-TK	SHIP SANK			BARGE TK	0 01 2	

VINYL CHLORIDE SPILLS

DATE	LOCATION	MATERIAL	CLASS	Q	U	A	N	I	T	F	P	O
				Y	S	S	S	D				
1. 9/11/69	GLENDORA, MS	VINYL-CHLOR	FL 0E0U	1	0	99	0E0	RP-TK	DRLMENT			TK CR RR 0 02 9
2. 2/10/71	CHICAGO, IL	VINYL-CHLOR	FL 27E4L	0	0	8	20E3	RP-TK	CONTR FLRE	DRLMENT		TK CR RR 1 02 1
3. 3/26/71	MONESSEN, PA	VINYL-CHLOR	FL 10E2L	0	0	1	0E9	RP-TK	VALVE BKN	DRLMENT		TK CR RR 0 02 1
4. 9/14/71	DORSEY, MD	VINYL-CHLOR	FL 38E3L	0	0	5	10E3	RP-TK	SHRP OBJ	DRLMENT	UNKNOWN	TK TRLR 0 02 1
5. 10/19/71	HOUSTON, TX	VINYL-CHLOR	FL 13E4L	50	1	7	0E9	RP-TK	SHRP OBJ	DRLMENT		TK CR RR 1 02 1
6. 5/ 4/73	99, TX	VINYL-CHLOR	FL 0E0U	0	0	99	0E9	OTHER	DRLMENT	UNKNOWN		TK CR RR 0 02 2
7. 5/16/73	LUFKIN, TX	VINYL-CHLOR	FL 12E4L	0	0	6	0E9	RP-TK	DRLM&OVRTN			TK CR RR 0 02 2

WASTE PICKLE LIQUOR SPILLS

DATE	LOCATION	MATERIAL	CLASS	Q	U	A	N	I	T	F	P	O
				Y	S	S	S	D				
1. 3/30/68	PACIFIC,	WASTE-PICKL	CL 0ECU	0	0	99	0E9	OVRFW	INTNL REL	NMRL OP		BARGE BK 0 02 6
2. 7/10/72	SYRACUSE, NY	WASTE-PICKL	CL 76E2L	0	0	3	20E1	RP-TK	BODY FLRE	MTRL DFCT		TK TRLR 0 01 1

WEED KILLING COMP. SPILLS

DATE	LOCATION	MATERIAL	CLASS	Q	U	A	N	I	T	F	P	O
				Y	S	S	S	D				
1. 2/ 1/71	SAN-FRIS, CA	WEED-KILLER	BP 48E1L	0	0	99	0E9	OVRFW	UNKNOWN			0 00 6
2. 4/19/71	MEMPHIS, TN	WEED-KILLER	BP 4E0L	0	0	99	10E0	RP-NT	CONTR FLRE	OVRPRES	UNKNOWN	PBTL/CTN 0 01 1
3. 4/20/71	RICHMOND, VA	WEED-KILLER	BP 1ECL	0	0	99	0E9	RP-NT	CONTR FLRE	MTRL DFCT		STL PAIL 0 02 1
4. 5/11/71	CEURO, TX	WEED-KILLER	BP 19E0L	0	0	99	0E9	RP-NT	UNKNOWN			PLS PAIL 0 01 1
5. 5/12/71	ST-PAUL, MN	WEED-KILLER	BP 38E0L	0	0	99	30E0	RP-NT	CONTR FLRE	IMP LDG		0 02 1
6. 6/21/71	MEMPHIS, TN	WEED-KILLER	BP 2E0L	0	0	99	25E0	RP-NT	CONTR FLRE	MTRL DFCT		STL DRUM 0 02 1
7. 8/20/71	PARUN-RU, MD	WEED-KILLER	BP 0E0U	0	0	99	0E9	OTHER	INTNL REL	NMRL OP		0 06 5
8. 9/14/71	CHARLOTE, NC	WEED-KILLER	BP 1E0L	0	0	99	0E9	RP-NT	SHRP OBJ	UNKNOWN		STL PAIL 0 02 1
9. 9/22/71	TOLEDO, OH	WEED-KILLER	BP 8E0L	0	0	99	0E9	RP-NT	CONTR FLRE	DROPPED		PBTL/CTN 0 02 1
10. 1/21/72	SAN-LERN, CA	WEED-KILLER	BP 19E0L	0	0	99	0E9	RP-NT	CONTR FLRE	MTRL DFCT		STL DRUM 0 02 1

11.	3/ 8/72	MIDDLTWN,NY	WEED-KILLER	BP	4EOL	0	0	99	25E0	RP-NT	UNKNOWN	PBTL/CTN	0	02	1
12.	4/11/72	PHOENIX ,AZ	WEED-KILLER	BP	15EOL	0	0	99	10E0	RP-NT	CONTR FLRE DROPPED	STL PAIL	0	01	1
13.	5/19/72	N-PLATTE,NB	WEED-KILLER	BP	38EOL	0	0	99	95E0	RP-NT	CONTR FLRE MTRL DFCT	STL DRUM	0	02	1
14.	6/ 5/72	BOISE ,ID	WEED-KILLER	BP	2EOL	0	0	99	50E0	RP-NT	CONTR FLRE DFCTV WELD	STL DRUM	0	02	1
15.	6/26/72	BROOKFLD,WI	WEED-KILLER	BP	95EOL	0	0	99	90E1	OVRFW	INTNL REL PRNSLL ERR	STO TANK	0	51	1
16.	6/27/72	MEMPHIS ,TN	WEED-KILLER	BP	12E1L	0	0	99	15E0	RP-NT	CONTR FLRE MTRL DFCT	STL DRUM	0	02	1
17.	7/ 3/72	SLT-LK-C,UT	WEED-KILLER	BP	1EOL	0	0	99	0E9	RP-NT	SHRP OBJ UNKNOWN	PLSTC DR	0	02	1
18.	7/10/72	N-ORLENS,LA	WEED-KILLER	BP	10E1L	0	0	99	75E0	RP-NT	CONTR FLRE DROPPED	STL DRUM	0	02	1
19.	7/13/72	WNSTN-SL,NC	WEED-KILLER	BP	1EOL	0	0	99	0E9	RP-NT	CONTR FLRE MTRL DFCT	STL PAIL	0	02	1
20.	7/14/72	N-KANSAS,99	WEED-KILLER	BP	19EOL	0	0	99	0E9	RP-NT	SHRP OBJ UNKNOWN	STL PAIL	0	02	1
21.	7/27/72	POCATELLO, ID	WEED-KILLER	BP	19EOL	0	0	99	0E9	RP-NT	CONTR FLRE IMP LDG	STL PAIL	0	02	1
22.	11/28/72	ALBANY ,GA	WEED-KILLER	BP	19EOL	0	0	99	20E0	RP-NT	CONTR FLRE MTRL DFCT		0	02	1
23.	2/17/73	BURLNGTN,NC	WEED-KILLER	BP	4EOL	0	0	99	50E0	RP-NT	CONTR FLRE MTRL DFCT	STL DRUM	0	02	1
24.	3/22/73	SHAPE-CR,WI	WEED-KILLER	BP	15E1L	0	0	99	75E0	OVRFW	UNKNOWN	STO TANK	0	21	1
25.	3/22/73	COLUMBUS,GA	WEED-KILLER	BP	19EOL	0	0	99	50E0	RP-NT	CONTR FLRE MTRL DFCT	STL PAIL	0	02	1
26.	3/23/73	YORK ,PA	WEED-KILLER	BP	15EOL	0	0	99	0E9	RP-NT	CONTR FLRE IMPR HNDLG	PBTL/CTN	0	02	1
27.	3/26/73	S-HOLLND,IL	WEED-KILLER	BP	0ECU	0	0	99	5E0	RP-NT	CONTR FLRE UNKNOWN		0	02	1
28.	4/ 2/73	W-COLMBI,SC	WEED-KILLER	BP	4ECK	0	0	99	2E0	RP-NT	SHRP OBJ UNKNOWN	PA BAG	0	02	1
29.	4/ 5/73	BROOKFLD,WI	WEED-KILLER	BP	38EOL	0	0	99	10E0	TS FL	OVRPRES IMPR NZLE	TK TRLR	0	51	1
30.	4/16/73	MEMPHIS ,TN	WEED-KILLER	BP	19EOL	0	0	99	40E0	OTHER	UNKNOWN	STL PAIL	0	02	1
31.	4/26/73	AMARILLO,TX	WEED-KILLER	BP	4EOL	0	0	99	10E0	RP-NT	CONTR FLRE IMP LDG	STL PAIL	0	02	1
32.	4/30/73	99	WEED-KILLER	BP	12E1K	0	0	99	50E0	RP-NT	CONTR FLRE UNKNOWN	STL DRUM	0	02	1
33.	5/ 4/73	ST-LOUIS,MO	WEED-KILLER	BP	4EOL	0	0	99	0E9	RP-NT	SHRP OBJ UNKNOWN	STL DRUM	0	02	1
34.	5/ 5/73	MEMPHIS ,TN	WEED-KILLER	BP	0EOL	0	0	99	0E9	OTHER	UNKNOWN		0	02	1

WET NITROCELLULOSE (WITH ALCOHOL) SPILLS

DATE	LOCATION	MATERIAL	CLASS	Q	U	A	N	I	T	Y	F	A	T	P	DMG\$	CAUSE	2ND CAUSE	3RD CAUSE	4TH CAUSE	CONTAINER	M		
1.	9/21/71	BRISBANE,CA	WET-CEL-ALC	FL	30E2K	0	0	99	50E1	RP-NT	SHRP OBJ	IMP LDG								STL DRUM	0	02	1
2.	7/27/72	RICHMOND,CA	WET NI-CELO	FL	21E1L	0	0	99	22E1	RP-NT	SHRP OBJ	IMP LDG								STL DRUM	0	02	1

XYLENE SPILLS---SYN--META,PARAXYLENE,--XYLOL

DATE	LOCATION	MATERIAL	CLASS	Q	U	A	N	I	T	Y	F	A	T	P	DMG\$	CAUSE	2ND CAUSE	3RD CAUSE	4TH CAUSE	CONTAINER	M			
1.	2/ 3/71	VLLA PRK,IL	XYLENE	FL	0EOL	0	0	9	0E0	RP-NT	CONTR FLRE	FIRE								STL PAIL	0	04	3	
2.	2/ 2/72	MISSISSI,LA	XYLENE	FL	0EOL	0	0	99	0E9	RP-TK	COLLSN									BARGE BK	0	02	6	
3.	2/ 2/72	MISSIS-R,99	XYLENE	FL	0EOL	0	0	99	0E9	OVRFW	SHIP SANK	UNKNOWN								BARGE TK	0	02	6	
4.	2/23/72	PITTSBRG,PA	XYLENE	FL	0EOL	0	0	99	0E9	OVRFW	UNKNOWN											0	03	6
5.	5/17/72	,MD	XYLENE	FL	19E1L	0	0	1	0E9	OVRFW	UNKNOWN									STO TANK	0	01	6	
6.	10/20/72	FAYETVIL,NC	XYLENE	FL	76E2L	0	0	3	0E9	OVRFW	PRNSLL ERR									STO TANK	0	03	6	

7.11/13/72	CHERYVIL,NC	XYLENE	FL 11E1L	0	0	1	40E0	RP-NT	CONTR FLRE	IMP LDG		GLS BTLS	0	02	1
8.12/ 5/72	JOLIET ,IL	XYLENE	FL 38E1L	0	0	1	0E9	OVRFW	PRNSLL ERR			BARGE TK	0	01	6
9.12/ 8/72	COLUMBIA,SC	XYLENE	FL 25E3L	0	0	4	0E9	RP-TK	UNKNOWN	OVRTURN	UNKNOWN	TK TRLR	0	02	6
10. 3/29/73	LEMONT ,IL	XYLENE	FL 23E2L	0	0	1	16E1	OVRFW	OPN VALVE	PRNSLL ERR		TK TRLR	0	51	1
11. 4/ 3/73	OHIO-RIV,99	XYLENE	FL 76E2L	0	0	3	0E9	RP-TK	HSE,CPL FA			TK TRLR	0	03	2
12. 4/ 4/73	OHIO-RIV,WV	XYLENE	FL 76E2L	0	0	3	0E9	GK AL	UNKNOWN				0	03	2
13. 2/ 3/72	CHICAGO ,IL	XYLOL	FL 38E3L	0	0	5	55E2	RP-TK	CONTR FLRE	UNKNOWN		TK CR RR	0	02	1
14. 9/14/72	CLEVELAND,OH	XYLOL	FL 57E3L	0	0	6	0E9	OVRFW	PRNSLL ERR			STO TANK	0	03	6
15. 3/15/73	OGLESBY ,GA	XYLOL	FL 56E4L	0	0	9	10E3	RP-TK	SHRP OBJ	DRLMENT	RDWY CONDS	TK CR RR	0	02	1

ZINC CYANIDE SPILLS

DATE	LOCATION	MATERIAL	CLASS	Q	U	A	N	I	T	Y	F	A	T	P	R	I	M	A	R	Y	DMG\$	CAUSE	2ND CAUSE	3RD CAUSE	4TH CAUSE	CONTAINER	M	
1. 4/30/71	LOS-ANGL,CA	ZINC-CYANID	BP 38E2L	0	0	4	0E9	RP-TK	CONTR FLRE	MTRL DFCT															PRTBL TK	0	02	6
2. 9/22/72	99 ,99	ZINC-CYANID	BP 11E1L	0	0	1	0E9	RP-NT	SHRP OBJ	UNKNOWN															CDBD DRM	0	02	1
3. 2/ 7/73	BROOKLYN,NY	ZINC-CYANID	BP 90E0K	0	0	1	23E1	RP-NT	CONTR FLRE	IMP LDG															CDBD DRM	0	01	1

ZINC SULFATE SPILLS

DATE	LOCATION	MATERIAL	CLASS	Q	U	A	N	I	T	Y	F	A	T	P	R	I	M	A	R	Y	DMG\$	CAUSE	2ND CAUSE	3RD CAUSE	4TH CAUSE	CONTAINER	M		
1. 7/13/72	TORONTO ,	ZINC-SULFAT	UN 0E0U	0	0	99	0E9	RP-NT	CONTR FLRE	FIRE															VANDALISM	CDBD DRM	3	03	3

ZIRCONIUM SPILLS

DATE	LOCATION	MATERIAL	CLASS	Q	U	A	N	I	T	Y	F	A	T	P	R	I	M	A	R	Y	DMG\$	CAUSE	2ND CAUSE	3RD CAUSE	4TH CAUSE	CONTAINER	M		
1. 6/20/71	EXTON ,PA	ZIRCONIUM	FS 0E0U	0	0	99	0E0	RP-TK	CONTR FLRE	FIRE															SPON COMB	STL PAIL	0	03	3
2. 5/17/72	EXTON ,PA	ZIRCONIUM	FS 91E1K	10	0	1	0E0	OVRFW	MECH FAIL																	CKG/MX T	0	04	3

APPENDIX H

HAZARD POTENTIAL (HP) DATA FOR FREQUENTLY SPILLED MATERIALS

1968 - JUNE 1973*

Material	No. of Reports**	Mean HP	No. of HP-10's***	Highest HP
Sulfuric Acid Spills, Oleum	106	2.31	0	9
Ammonium Nitrate Fertilizer	77	N.A.	-	-
Ind. Wastes, Chemicals	64	N.A.	-	-
Organic Phosphates & Phosphate Compounds	52	1.46	1	10
Insecticide (unspecified)	49	N.A.	-	-
Caustic Soda, Sodium Hydroxide	47	2.86	0	8
Hydrochloric Acid, Muriatic Acid	44	2.55	1	10
Weed Killing Compound	34	N.A.	-	-
Ethyl Parathion, Parathion Liquid	26	2.46	1	10
Phenol, Carbollic Acid	24	4.53	3	10
Anhydrous Ammonia	20	6.00	3	10
Methyl Parathion	20	2.05	0	6
Toluene, Toluol	19	5.86	5	10
Dinitro Phenol	18	1.47	0	4
Nitric Acid	17	4.73	3	10
Alcohol, Methyl; Methanol	17	3.57	0	8
Xylene, Xylol	15	3.4	0	9
Ink	14	N.A.	-	-
Paint, Wood Stain	14	N.A.	-	-
Methyl Ethyl Ketone	12	2.7	0	6
Sodium Arsenite	12	2.5	0	5
Sodium Hydrosulfite	11	2.7	0	8

Fifty-seven spills were multiple, i.e. involved more than one material.

* Only 76 reports were documented for years prior to 1971.

** Some duplicate reports are included in the total, generally less than 10%. Duplication was eliminated in calculating other statistics.

*** HP10 is the highest category and has no upper limit on quantity spilled.

APPENDIX I

HAZARDOUS MATERIAL SPILLS BY EPA REGION

1968 - JUNE 1973

EPA Region (Area Included)	No. of Spill Reports
I (CT, ME, MA, NH, RI, VT)	97
II (NJ, NY, PR, VI)	73
III (DE, MD, PA, VA, WV, DC)	238
IV (AL, FL, GA, KY, MS, NC, SC, TN)	243
V (IL, IN, MI, MN, OH, WI)	277
VI (AR, LA, NM, OK, TX)	228
VII (IA, KS, MO, NE)	42
VIII (CO, MT, ND, SD, UT, WY)	55
IX (AZ, CA, HI, NV, Am. Samoa, GU)	135
X (AK, ID, OR, WA)	53

Note: The total for Region I includes some spills for which no EPA Region could be determined.

TECHNICAL REPORT DATA
(Please read Instructions on the reverse before completing)

1. REPORT NO. EPA-600/2-78-066		2.		3. RECIPIENT'S ACCESSION NO.	
4. TITLE AND SUBTITLE HAZARDOUS MATERIAL SPILLS: A DOCUMENTATION AND ANALYSIS OF HISTORICAL DATA				5. REPORT DATE April 1978 issuing date	
				6. PERFORMING ORGANIZATION CODE	
7. AUTHOR(S) Joseph L. Buckley and Stephen A. Wiener				8. PERFORMING ORGANIZATION REPORT NO. FMRC Ser. No. 22405 RC76-T-47	
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16. ABSTRACT The ultimate goal of this study was the prevention of hazardous material spills through application of research effort. The immediate objective was to provide guidance for the choice of research priorities for spill prevention through documentation and analysis of historical incidents involving hazardous material spills. Data were analyzed for the period January 1, 1971 through June 30, 1973. In excess of 15,000 incidents were examined, resulting in the documentation of approximately 10 percent as hazardous material spills. To allow comparison of spills of different materials, a hazard potential scheme was developed, incorporating toxicity and quantity spilled, to rank an incident on a hazard potential scale ranging from one to ten. A pragmatic approach to this problem was taken and the scheme developed is specific to the needs of this study rather than a general mechanism for comparing spills. Primary and secondary causes of hazardous material spills in various operational areas (In Transit, Loading-Unloading Areas, In Plant Storage, In Plant Processing) were identified. The data were treated to find the frequency and distribution of hazardous material spills by cause, operational area and hazard potential.					
17. KEY WORDS AND DOCUMENT ANALYSIS					
a. DESCRIPTORS		b. IDENTIFIERS/OPEN ENDED TERMS		c. COSATI Field/Group	
Accident investigations Accident prevention Hazardous materials Water pollution Tanks (containers)		Hazardous material spills Hazardous spill statistical analysis Hazardous material spill documentation Hazardous spill incident frequency		68D	
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