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Transportation Technical Environmental Information Center Index

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Transportation Technical Environmental Information Center Index

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Abstract

In an effort to determine the environmental intensities to which energy materials in transit may be exposed, a *Data Center* of technical environmental information has been established by Sandia National Laboratories, Division 5523, for the DOE Office of Transportation Fuel Storage. This document is an index which can be used to request data of interest. Access to the information held is not limited to Sandia personnel.

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Transportation Technical Environmental Information Center Index

Introduction

The purpose of the Transportation Technical Environmental Information Center is to collect, analyze, store, and make available descriptions of the environment of transportation expressed in engineering terms. The data stored in the Center are expected to be useful in a variety of transportation related analyses. Formulations of environmental criteria for shipment of cargo, risk assessments, and detailed structural analyses of shipping containers are examples where these data have been applied. The Transportation Technical Environmental Information Center is a segment of a larger DOE/DOD Environmental Data Center for weapons application.

For purposes of indexing and data retrieval, the data are catalogued under two major headings: Normal and Abnormal Environments. The diagram below illustrates a conceptual relationship between these environmental designations as a function of the expected rate of occurrence.

Normal environments are those which will be encountered at some intensity during every shipment. They are characterized by a high frequency of occurrence and relatively low intensity. The abnormal or accident environments, on the other hand, are characterized by higher intensities and lower frequencies of occurrence. The very high intensities of environment occur very infrequently. The normal and abnormal environments, while often called by different names to distinguish them, actually have the same engineering parameters. Thus, an acceleration is experienced by cargo as a truck crosses railroad tracks at 50 mph while a greater acceleration may result if the truck strikes a bridge abutment at the same speed. To make the difference clear in a succinct manner, the latter environment is termed "impact."

These short descriptions are shown in the index in parentheses where they apply.

The Environments

Twelve environmental categories have been identified as relevant to transportation. These include:

- 1 Acceleration/Time*
- 2 Acoustic Noise
- 3 Atmospheric Content
- 4 Fragmentation*
- 5 Humidity
- 6 Precipitation
- 7 Pressure*
- 8 Radiation*
- 9 Shock*
- 10 Temperature*
- 11 Vibration
- 12 Wind*

Three factors operate to limit the number of these environments for which abnormal levels require consideration:

- 1 Some environments reach an absolute limit. For example, humidity is limited by ambient temperature, e.g., relative humidity cannot exceed 100 percent.
- 2 The abnormal aspects of some environments are encountered so infrequently that they are of little interest, e.g., acoustic noise of such intensity as to cause structural damage.
- 3 Protection against the effects of some normal environments includes protection against the abnormal, e.g., protection against entry of liquid water is effective in a cloudburst as well as during drizzle.

After eliminating those environmental categories covered by the above factors, only the environments indicated by an asterisk in the above list are of interest in the abnormal considerations. Figure 1 is a chart which illustrates the organization of data in the Center by categories and by additional nomenclature which differentiates between input and response phenomena. Input may be defined as the environmental level which exists at the cargo interface, while response is measured in terms of how the cargo reacts.

*Environments with both normal and abnormal aspects.

Figure 1. Structure of the Transportation Technical Environmental Information Center

to the environments. As an example consider the pressure environment, which has both normal and abnormal levels. The normal, which all cargo will experience, includes the variations in atmospheric pressure at a specific location, as well as the variations produced by changes in elevation, both on the earth's surface and while flying. The abnormal aspects of the pressure environment are the result of exposure to an explosion or to immersion (inputs), if the input pressure is sufficiently high, a crush (collapse) response of the cargo will result.

Four of the environments are considered only in the normal aspects for reasons mentioned above. One environment, fragmentation, is considered only in the abnormal aspect. This is because no elements which will cause puncture to the cargo are present under normal conditions, i.e., those which will be encountered frequently during transportation.

The Data

Normal environmental data stored in the Transportation Technical Environmental Information Center are measured data. They were obtained from reliable sources, both from within Sandia National Laboratories and from other reputable agencies. When data were required, but not available, the Data Center operators arranged for measurements to provide some of the information.

Most input data in the Data Center under the heading of Abnormal Environments, however, were not measured directly. Because of the number and randomness of occurrence and type, it is impossible to provide engineering instrumentation for measurement. If an instrumented vehicle is subjected to a staged accident, it represents only the one type of event. Therefore, it is necessary to use statistical techniques to characterize the range of environmental intensities which may be experienced by cargo in accidents. The data to which these techniques are applied are often estimated. The basic information which is most useful in estimating abnormal inputs includes the following:

Environmental Categories	Abnormal Manifestation Examples
Acceleration/time histories	Earthquake, vehicle collision
Fragmentation	Projectile impalement, explosion, puncture
Pressure	Explosion, immersion depth, crush
Radiation	Lightning (direct strike)
Shock	Impact (vehicle collision)
Temperature	Fire
Wind	Wind storm (tornado, hurricane, etc.)

It is these types of data, or information, which permit the derivation of those values which are stored in the input section of the Abnormal Environment part of the Transportation Technical Environment Information Center. The response section of the Center is expressed in terms of damage to cargo. Since the cargo damage can be described and measured, descriptions and measurements are included wherever possible.

Under the input and response headings, each of the categories is further divided into the individual use phases that occur during the life of a system:

- 1 Handling,
- 2 Storage,
- 3 Transport,
- 4 Utilization, and
- 5 General

The transport and utilization phases are further subdivided into the type of carrier involved, i.e., aircraft, automobile, railroad, etc.

Mechanics of the Data Center

The data which have been retrieved and entered in the Data Center are on microfilm. Two forms of the microfilm are used: aperture cards and microfiche. Facilities for viewing the data and obtaining hard copy are located at the Center site. When processing large requests for information, the Center's operators have access to automated means for obtaining hard copy.

The two-part number listed after the title of a particular Data Center entry is the access number for the data file. The first number, e.g., 1614, is the file number. The number after the dash (-) is the number of pages available on the subject. File numbers that contain an alphabetical prefix are summarized data. Requests for hard copies of data should cite these two numbers. For large data requests, it is faster and cheaper for the data center operators to transmit the data to the requestor in the form of duplicate microfilm aperture cards or duplicate microfiche. If the requestor has facilities for reading information in these formats, it should be so stated in the request.

When either raw data or published information is acquired, it is reviewed for engineering data content. Pertinent information is then extracted, collated, and microfilmed. The data cards and/or microfiche are filed in numerical order without regard to subject. This simple technique is possible because of a computerized indexing and retrieval program which was developed for efficient use of the Data Center.

The use of a computer-aided system makes it possible to obtain a more flexible file, permits more

complete data retrieval, shortens the time necessary for search, and makes feasible more frequent publication of a current index.

Data Sources

Normal environmental information for inclusion in the Data Center is acquired by the Data Center's operators from many sources. Military agencies, such as Aberdeen Proving Ground, Wright Air Development Center, Naval Ordnance Test Center, and Army QM R&E Center, and industrial groups, such as railroads, aircraft companies, and trucking concerns, have contributed information. A considerable portion of the information has been obtained from various project groups within Sandia National Laboratories. The Data Center's operators not only extract information from published sources, but engage in specific research activities to obtain data not otherwise available.

Abnormal environmental information is obtained primarily from U.S. Department of Transportation sources and reports produced by the National Transportation Safety Board. Contacts have been established with various individuals and agencies responsible for accident investigation in the various modes of transportation. An information source file is maintained as an adjunct to the Center, which integrates this Data Center's efforts with other Data Banks collecting related accident information such as accident rates, fatalities, etc.

Availability of the Data

The information in the Data Center is available, within the limits of time, workload, and security regulations, to any requestor. Requests for data should be sent to Applied Mechanics Division III, Sandia National Laboratories, Albuquerque, NM, 87185. The request should either outline the specific area for which information is desired, or it should list specific entries, including file numbers. Requests will be processed as time allows. Agencies outside of the DOE complex will be furnished information subject to the review and release procedures established by the DOE.

The Index

The index provided on the following pages is what the Center's operators call a category index. Entry is made into this index by finding the environmental category of interest, such as shock, temperature, vibration, etc. The 12 categories are listed alphabetically.

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.....ACOUSTIC NOISE.....RESPONSE.....TRANSPORTATION.....AUTOMOBILE.....

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.....SHOCK.....RESPONSE.....TRANSPORTATION.....AUTOMOBILE.....

TRUCK SHOCK/VIB ENV, LARGE SHIPPING CONTAINER SEE 2071	A2072-000
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.....SHOCK.....RESPONSE....TRANSPORTATION.....AUTOMOBILE.....

SHOCK/VIB ENV, LARGE SHIPPING CONTAINER BY TRUCK PART 2	A2165-031
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.....SHOCK.....RESPONSE....TRANSPORTATION.....RAILROAD.....

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.....SHOCK.....RESPONSE....TRANSPORTATION.....OTHER.....

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.....SHOCK.....RESPONSE.....UTILIZATION.....RAILROAD.....

DYNAMIC MEASUREMENT OF TRACK-INDUCED RAILCAR WHEEL ACC	02016-012
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(IMPACT)SHOCK.....INPUT.....GENERAL.....OTHER.....

APPROXIMATE DURATION OF SOME SHORT ACCELERATION LOADS	00734-001
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(IMPACT)SHOCK.....INPUT.....HANDLING.....OTHER.....

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(IMPACT)

.....SHOCK.....RESPONSE.....HANDLING.....OTHER.....

MAXIMUM DRDPS, PACKAGES IN TRANSIT 01608-008

.....TEMPERATURE.....INPUT.....GENERAL.....AIRCRAFT AND MISSILE..

SPACE SHUTTLE ORBITER VIBROACOUSTICS 02061-046

.....TEMPERATURE.....INPUT.....GENERAL.....OTHER.....

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TEMPERATURE, MEAN MONTHLY NO. OF DAYS 32 F AND BELOW US 02173-002

TEMPERATURE, MEAN LENGTH OF FREEZE-FREE PERIOD-DAYS US 02174-002

.....TEMPERATURE.....INPUT.....TRANSPORTATION.....AIRCRAFT.....

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TEMPERATURES, AIRCRAFT COMPARTMENT 00062-001

TEMPERATURES, MAXIMUM/MINIMUM, IN AIR AND AIRCRAFT CARGO HOLDS 00064-001

TEMPERATURES, COMPARTMENT, C141A 00066-001

FREQUENCY OF OCCURENCE OF AIRCRAFT ICING PARAMETERS 01089-003

TEMP/TIME DATA AIRCRAFT, TRUCK, TRAIN, ATMX 01288-007

.....TEMPERATURE.....INPUT.....TRANSPORTATION.....AUTOMOBILE.....

TEMPERATURE/TIME DATA, TRUCK (SEE 1288) 01309-000

TEMPERATURE, TRUCK CARGO, HIGH AND LOW 01327-053

.....TEMPERATURE.....INPUT.....TRANSPORTATION.....RAILROAD.....

TEMPERATURE, INTERNAL AIR, RAILROAD BOXCAR IN DESERT 00056-001

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TEMPERATURE, HIGH, STANDING BOXCARS 01401-039

.....TEMPERATURE.....INPUT.....TRANSPORTATION.....SHIP.....

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TEMPERATURES, MAXIMUM AND MINIMUM, AT SEA 00059-001

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.....TEMPERATURE.....RESPONSE....TRANSPORTATION.....AIRCRAFT.....
TEMP/TIME DATA AIRCRAFT,TRUCK,TRAIN,ATMX 01288-007

.....TEMPERATURE.....RESPONSE....TRANSPORTATION.....AUTOMOBILE.....
TEMPERATURE/TIME DATA,TRUCK (SEE 1288) 01309-000
TEMPERATURE,TRUCK CARGO, HIGH AND LOW 01327-053

.....TEMPERATURE.....RESPONSE....TRANSPORTATION.....RAILROAD.....
TEMPERATURE/TIME DATA, RAIL AND ATMX CARS (SEE 1288) 01310-000

.....VIBRATION.....INPUT.....GENERAL.....AIRCRAFT.....
VIBRATION OF HELICOPTERS (ISOLATION AND ABSORBERS) 02117-009

.....VIBRATION.....INPUT.....GENERAL.....AIRCRAFT AND MISSILE..
SPACE SHUTTLE ORBITER VIBROACOUSTICS 02061-046

.....VIBRATION.....INPUT.....GENERAL.....RAILROAD.....
PARAMETRIC STUDIES RR FRT CAR MATH MODEL HARMONIC ROLL 01980-009
RIDE QUALITY OF A CONTAINER FLAT CAR 01982-012

.....VIBRATION.....INPUT.....HANDLING.....OTHER.....
CARGO HANDLING, DROP HEIGHT, PROBABILITIES C2252-014
SUMMARY,DYNAMIC ENVIRONMENT,FORKLIFT TRUCKS 01744-061
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VIBRATION, INPUT/RESPONSE,3000 LB FORKLIFT (SEE 1744) 01748-150
VIBRATION,INPUT/RESPONSE, 4000 LB FORKLIFT (SEE 1744) 01751-119
SHOCK, VIBRATION, 7000 LB FORKLIFT TRUCK (SEE 1744) 01752-081

.....VIBRATION.....INPUT.....TRANSPORTATION.....AIRCRAFT.....
DYNAMIC ENVIRONMENT,TURBOJET CARGO AIRCRAFT A1533-006
VIBRATION,MOST PROBABLE EXTREME,PROPELLER DRIVEN AIRCRAFT B0420-001
VIBRATION ENVIRONMENT, ENVELOPE, CARGO AIRCRAFT C2255-025
VIBRATION DATA,AIRCRAFT 00424-001
VIBRATIONS,MAXIMUM LATERAL AND VERTICAL,HELICOPTER FLOOR 00433-001
VIBRATION,MC-135 FLOOR,VERTICAL,LATERAL,LONGITUDINAL 00846-001
VIBRATION,FLOOR,PROPELLER,JET,HELICOPTER AIRCRAFT 00847-001
VIBRATION,M-37 HELICOPTER FLOOR,VERTICAL,LATERAL FORE/AFT 00848-001
VIBRATION,C-123 FLOOR,LONGITUDINAL,VERTICAL,LATERAL AXES 00851-001
VIBRATION,C-130 FLOOR,VERTICAL,LATERAL,LONGITUDINAL AXES 00852-001
RESPONSE OF TURBOJET/PISTON ENGINE A/C TO RUNWAY ROUGHNESS 00910-006
VIBRATION,AIR-RIDE VAN AND C-130,C-133 AIRCRAFT 01148-017
VIBRATION MC135 AFT PASSENGER COMPARTMENT 01318-019
VIBRATION SUMMARY,HELICOPTER,HH43,UH1,OH6,CH46,CH47 01321-027
VIBRATION, CARGO FLOOR, UH-1 HELICOPTER 01322-013

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.....VIBRATION.....INPUT.....TRANSPORTATION.....AIRCRAFT.....

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VIBRATION, CARGO FLOOR, CH-46 HELICOPTER	01324-085
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VIBRATION, C5A CARGO FLOOR, FORMAT 2 VIBRAN, (SEE 1439)	01441-059
VIBRATION, C5A CARGO FLOOR, PSD (SEE 1439)	01442-175
VIBRATION, C5A CARGO FLOOR, PSD, (SEE 1439)	01443-189
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DYNAMIC ENVIRONMENT, C5A JET CARGO AIRCRAFT	01536-191
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HELICOPTER VIBRATION, THREE SIGMA LEVELS	02251-002

.....VIBRATION.....INPUT.....TRANSPORTATION.....AUTOMOBILE.....

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VAIL SUMMARY, TRUCK SHIPMENT 44,000 LB CASK SEE 2067	A2068-007
TRUCK SHOCK/VIB ENV, LARGE SHIPPING CONTAINER SEE 2071	A2072-000
SHOCK/VIB ENV LARGE SHIPPING CONTAINER BY TRUCK PART 1	A2164-019
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VIBRATION DATA, UNION CARBIDE TRUCK TEST	01313-089
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.....VIBRATION.....INPUT.....TRANSPORTATION.....RAILROAD.....

RAILCAR SHOCK/VIB ENV, LARGE SHIPPING CONTAINER	A2071-036
SHOCK/VIBRATION ENVIRONMENT SUMMARY, RAIL TRANSPORT	B1320-021
RAIL SUMMARY, ATMX RAIL CAR TEST R800483 SEE EDB 2079	B2080-037
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VIBRATION TESTS, RAILROAD, SPEED 73MPH	00359-001
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.....VIBRATION.....INPUT.....TRANSPORTATION.....SHIP.....

VIBRATION, MOST EXTREME PROBABLE, EXPECTED IN SEA TRANSPORT	B0404-001
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.....VIBRATION.....INPUT.....TRANSPORTATION.....OTHER.....

SUMMARY, DYNAMIC ENVIRONMENT OF TRANSPORTATION - 1973	A1354-035
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TRANSPORTATION VIBRATION ENVIRONMENTS	01176-004
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.....VIBRATION.....RESPONSE.....GENERAL.....AIRCRAFT.....

VIBRATION OF HELICOPTERS (ISOLATION AND ABSORBERS)	02117-009
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.....VIBRATION.....RESPONSE.....GENERAL.....AUTOMOBILE.....

STUDY OF PASSENGER RESPONSE TO IDEAL AND REAL VEH VIB 01941-034

.....VIBRATION.....RESPONSE.....HANDLING.....OTHER.....

SUMMARY,DYNAMIC ENVIRONMENT,FORKLIFT TRUCKS 01744-061
SHOCK,VIBRATION, 2000 LB FORKLIFT TRUCK (SEE 1744) 01745-092
VIBRATION, INPUT/RESPONSE,3000 LB FORKLIFT (SEE 1744) 01748-150
VIBRATION,INPUT/RESPONSE, 4000 LB FORKLIFT (SEE 1744) 01751-119
SHOCK, VIBRATION, 7000 LB FORKLIFT TRUCK (SEE 1744) 01752-081

.....VIBRATION.....RESPONSE....TRANSPORTATION.....AIRCRAFT.....

VIBRATION MC135 AFT PASSENGER COMPARTMENT 01318-019
HELICOPTER VIBRATION, THREE SIGMA LEVELS 02251-022
UH-60A BLACKHAWK VIBRATION RESPONSE DATA 02322-017

.....VIBRATION.....RESPONSE....TRANSPORTATION.....AUTOMOBILE.....

TRUCK SHOCK/VIB ENV, LARGE SHIPPING CONTAINER SEE 2071 A2072-000
SHOCK/VIB ENV LARGE SHIPPING CONTAINER BY TRUCK PART 1 A2164-019
SHOCK/VIB ENV LARGE SHIPPING CONTAINER BY TRUCK PART 2 A2165-031
VIBRATION ENVIRONMENT,AEC VAN WITH TRANSIT RIG SHIPPING CONT 01245-122
SHOCK/VIBRATION SUMMARY,UNION CARBIDE TRUCK TEST 01312-013
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CONCEPTS FOR NOISE REDUCTION IN TRACKED VEHICLES 02050-080

.....VIBRATION.....RESPONSE....TRANSPORTATION.....RAILROAD.....

RAILCAR SHOCK/VIB ENV, LARGE SHIPPING CONTAINER A2071-036
SHOCK/VIBRATION ENVIRONMENT SUMMARY, RAIL TRANSPORT B1320-021
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SHOCK/VIBRATION ENVIRONMENT, TRANSPORT,COUPLING IMPACT C2254-017
SHOCK/VIBRATION SUMMARY,UNION CARBIDE RAIL TEST 01315-013
VIBRATION DATA,UNION CARBIDE RAIL TEST 01316-130
VIBRATION, RAIL BOX CAR W/EMPTY, HALF AND FULL LOAD 01328-148
VIBRAN/PSD, ATMX RAIL CAR TEST R800483 02079-061
VIBRATION ENV IN FREIGHT CARS AND DAMAGE TO LADING 02227-008
TRAN VIB SENSITIVE EQUIP BY HIGHWAY TRL ON INTERMODAL RAIL 02362-125

.....VIBRATION.....RESPONSE...,,TRANSPORTATION.....SHIP.....

AN ASSESSMENT OF VIBRATION ENV ON COMM CARGO SHIPS C2253-004
VIB LEVELS ON BRIDGE OF AUSTRALIAN SHIP, ROUGH SEAS 02242-017

.....VIBRATION.....RESPONSE....TRANSPORTATION.....OTHER.....

SHOCK + VIBRATION DATA OBTAINED FROM TRUCK + RAIL SHIPMENT 01003-012

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.....VIBRATION.....RESPONSE.....UTILIZATION.....RAILROAD.....
DYNAMIC MEASUREMENT OF TRACK-INDUCED RAILCAR WHEEL ACC 02016-012
.....WIND.....INPUT.....GENERAL.....AIRCRAFT AND MISSILE..
SPACE SHUTTLE ORBITER VIBROACOUSTICS 02061-046
.....WIND.....INPUT.....GENERAL.....OTHER.....
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WIND VELOCITIES, WORLDWIDE, AND DISTRIBUTION IN TEMPERATE ZONE 00258-001
WIND SPEED DISTRIBUTION IN THE UNITED STATES 01595-005
GLAZE ICE, WIND LOADS AT EARTH'S SURFACE 01722-035
.....WIND.....INPUT.....TRANSPORTATION.....AIRCRAFT.....
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GUST LOAD FREQUENCY, AIRCRAFT FLIGHTS, 40-45 KILOFEET, IN STORM 01087-003
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.....WIND.....RESPONSE.....TRANSPORTATION.....AIRCRAFT.....
GUST LOAD FREQUENCY, AIRCRAFT FLIGHTS, 40-45 KILOFEET, IN STORM 01087-003
AIRCRAFT RECORDINGS DURING A TURBULENCE INCIDENT 01090-002
(STORM)WIND.....INPUT.....GENERAL.....OTHER.....
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....ACCELERATION/TIME.....INPUT.....GENERAL.....AIRCRAFT.....

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NTSB 1974 REPORT TO CONGRESS, AIRCRAFT	01904-008
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AIRCRAFT ACCIDENTS INVOLVING FIRES 1963-1974 ANALYSIS	01940-144
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ACCIDENT RATES US GENERAL AVIATION 1967 TO 1977	02128-002
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ACCIDENT RATES BY MAKE AND MODEL 1960-1967	02134-006
AIRCRAFT ACCIDENTS INVOLVING FIRES 1965-1974 SPECIAL	02135-061
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ACCIDENT RATES, CIVIL AIRCRAFT 1968 - 1978	02229-020
ACCIDENT RATES, CIVIL AIRCRAFT 1969 - 1979	02305-018
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ACCIDENT RATES, CIVIL AIRCRAFT 1970-1980	02388-021

....ACCELERATION/TIME.....INPUT.....GENERAL.....AUTOMOBILE.....

NTSB 1974 REPORT TO CONGRESS, AUTOMOBILE	01905-002
ACCIDENTS INVOLVING VEHICLES PARKED OR STOPPED 1967-75	02077-027
INCIDENCE OF HAZARDOUS MATERIAL ACCIDENT-TRUCK SEE2180	02181-000
SUMMARY BMCS ROADSIDE INSPECTION ACTIVITIES 1976-1977	02235-038
WET PAVEMENT FATAL ACCIDENTS, SPECIAL STUDY, 1976-1977	02313-042

....ACCELERATION/TIME.....INPUT.....GENERAL.....RAILROAD.....

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NTSB 1974 REPORT TO CONGRESS, RAIL	01906-002
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A SAFETY/COST STUDY SHIPPING SPENT FUEL SPECIAL TRAIN	02099-033
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REVIEW OF RAIL HAZ MATERIALS AND TRACK SAFETY PROGRAMS	02247-009

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....ACCELERATION/TIME.....INPUT.....GENERAL.....SHIP.....

SUMMARY FRT SHIPS AND FRT BARGE ACCIDENTS 1965 - 1974	01985-009
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PUBLIC CARGO VESSEL INVOLVED IN ACCIDENTS 1963-74	02206-016
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REGISTER OF MERCHANT SHIPS LOST, BROKEN UP, ETC. 1978	02300-040
MAJOR MARINE COLLISIONS AND EFFECTS OF PREVENTIVE RECOMMEND	02403-043

....ACCELERATION/TIME.....INPUT.....TRANSPORTATION.....AIRCRAFT.....

INCIDENCE UNCONTAINED ROTOR BURSTS COMM AVIATION 1962-76	02140-003
AIRCRAFT GAS TURBINE ROTOR FAILURES COMM AVIATION 1976	02226-031
GUIDELINES, DESIGN TURBIN ROTOR BURST FRAGMENT COLLISION	02307-052

....ACCELERATION/TIME.....INPUT.....TRANSPORTATION.....AUTOMOBILE.....

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ANALYSIS AND SUMMARY, ACCIDENT INVESTIGATIONS 1973-76	02144-017
TRUCK CAR ACCIDENT, LANE CHANGE, ST LOUIS, MO 25 SEP 77	02249-021

....ACCELERATION/TIME.....INPUT.....TRANSPORTATION.....RAILROAD.....

TRAN ACCIDENT RISKS IN NUCLEAR POWER IND SEE EDB 1989	01990-000
RAIL ACCIDENT, REAR-END/DERAILMENT, SEABROOK, MD 06/78	02248-034

....ACCELERATION/TIME.....INPUT.....TRANSPORTATION.....SHIP.....

TRAN ACCIDENT RISKS IN NUCLEAR POWER IND SEE EDB 1989	01991-000
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....ACCELERATION/TIME.....RESPONSE.....GENERAL.....AIRCRAFT.....

STRENGTH OF OCCUPANT RESTRAINT SYSTEMS IN LIGHT AIRCRAFT	02383-043
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....ACCELERATION/TIME.....RESPONSE.....TRANSPORTATION.....AUTOMOBILE.....

TRUCK CAR ACCIDENT, LANE CHANGE, ST LOUIS, MO 25 SEP 77	02249-021
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....ACCELERATION/TIME.....RESPONSE.....TRANSPORTATION.....RAILROAD.....

RAIL ACCIDENT, REAR-END/DERAILMENT, SEABROOK, MD 06/78	02248-034
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(EARTHQUAKE)

....ACCELERATION/TIME.....INPUT.....GENERAL.....OTHER.....

EARTHQUAKES IN THE UNITED STATES	00948-006
EARTHQUAKE, STRONG MOTION - ACCELOGRAMS 6 VS TIME	01526-205
EARTHQUAKE, STRONG MOTION - ACCELOGRAMS 6 VS TIME	01527-302

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(EARTHQUAKE)ACCELERATION/TIME.....INPUT.....GENERAL.....OTHER.....

EARTHQUAKE - ROCK MOTION ACCELOGRAMS G VS TIME, DISTANCE	01528-019
STRONG MOTION EARTHQUAKE ACCELOGRAMS - PART F	01570-338
STRONG MOTION EARTHQUAKE ACCELOGRAMS - PART G	01571-299
STRONG MOTION EARTHQUAKE ACCELOGRAMS - PART H	01572-305
STRONG MOTION EARTHQUAKE ACCELOGRAMS- VOL I,PT I, DATA	01600-293
STRONG MOTION EARTHQUAKE ACCELOGRAMS- VOL I,PT J, DATA	01601-302
STRONG MOTION EARTHQUAKE ACCELOGRAMS- VOL I,PT K, DATA	01602-307
STRONG MOTION EARTHQUAKE ACCELOGRAMS-VOL III,RES. SPECTRA	01603-279
STRONG MOTION EARTHQUAKE ACCELOGRAMS-VOL IV,FOURIER SPECTRA	01604-171
EARTHQUAKE, ANCHORAGE, 1964(ENGINEERING INFORMATION	01661-004
EARTHQUAKE ACCELOGRAMS-DIGITIZED AND PLOTTED DATA	01852-184
EARTHQUAKE ACCELOGRAMS-RESPONSE SPECTRA	01853-311
EARTHQUAKE ACCELOGRAMS-RESPONSE SPECTRA	01854-287
EARTHQUAKE ACCELOGRAMS-FOURIER SPECTRA	01855-219

(IMPACT)ACCELERATION/TIME.....INPUT.....GENERAL.....AUTOMOBILE.....

TRUCK ACCIDENT SPEEDS A - SUMMARY	01687-003
STATISTICAL STUDY OF TRUCK ACCIDENT SPEEDS	01698-024

(IMPACT)ACCELERATION/TIME.....INPUT.....GENERAL.....OTHER.....

APPROXIMATE DURATION OF SOME SHORT ACCELERATION LOADS	00734-001
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(IMPACT)ACCELERATION/TIME.....INPUT.....TRANSPORTATION.....AIRCRAFT.....

ANALYSIS OF DIRECTION OF LOADS IN AIRCRAFT ACCIDENTS	00751-001
ACCELERATION OF FLOOR-AIRCRAFT CRASHES	00752-001
ACCELERATION,AIRCRAFT CRASH-VARIOUS ANGLES OF IMPACT	00753-008
CIVIL AVIATION ACCIDENT DATA - 1962 TO 1972	01664-018
AIRCRAFT ACCIDENT - BOEING 707 -8/28/73	01801-047
AIRCRAFT ACCIDENT - BOEING 747 - 4/12/72	01818-028
A RISK AND COMPARATIVE ANALYSIS OF NAVY AIRCRAFT DATA	01857-091
ARMY ROTARY WING AIRCRAFT ACCIDENTS-COST STUDY 1970-71	01895-032
CRASH RESISTANT FLAMMABLE FLUIDS SYSTEM UH-1A COPTER	02001-165
FULL SCALE CRASH TEST OF A CH-47C HELICOPTER	02024-040
AIRCRAFT ACCIDENT, BOEING 727-225 24 JUN 75	02152-059
AIRCRAFT ACCIDENT, CONVAIR VT-29D (CV-340) 09 JAN 75	02153-031
AIRCRAFT ACCIDENT, BOEING 707-331B 08 SEP 74	02154-044
AIRCRAFT ACCIDENT, BOEING 727-224 7 AUG 75	02155-047
AIRCRAFT ACCIDENT, BOEING 727-25 01 DEC 74	02156-033
AIRCRAFT ACCIDENT, DEHAVILLAND DHC-6 9 JAN 75	02157-025
AIRCRAFT ACCIDENT, DC-8 62 15 SEP 70	02158-026
AIRCRAFT ACCIDENT, DC-8 63F 8 SEP 70	02159-038
AIRCRAFT ACCIDENT, DC-8 63F 27 NOV 70	02160-048
AIRCRAFT ACCIDENT, DC-9 31 11 SEP 74	02161-040
AIRCRAFT ACCIDENT, DH-114 24 JUN 72	02162-014
LIGHT PLANE CRASH TESTS AT IMPACT VEL.13 AND 27 M SEC	02166-054
MIDAIR COLLISION 727/CESSNA 172 SAN DIEGO CA 25 SEP 78	02263-074

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(IMPACT)ACCELERATION/TIME.....INPUT.....TRANSPORTATION.....AIRCRAFT.....
AIRCRAFT ACCIDENT, NORD 262, MDHAWK/FRANKS 298 FEB 79 02284-031
AIRCRAFT ACCIDENT, NORD 262, SANTA MONICA, CA 10 MAR 79 02285-031
IMPACT/TRAJECTORY VELOCITY, FREE FALLING CH-47 AND 2 CARGO 02342-019
CRASH TEST OF FOUR IDENTICAL HIGH WING SINGLE ENG AIRPLANES 02450-069

(IMPACT)ACCELERATION/TIME.....INPUT.....TRANSPORTATION.....AUTOMOBILE.....
TRUCK ACCIDENT ENVIRONMENT ANALYSIS TAC - STUDY C1944-146
ACCELERATIONS, AUTOMOBILE CRASH (HEAD-ON) 00737-001
DECELERATION PATTERNS FOR AUTOMOBILE HEAD-ON COLLISIONS 00738-001
TRUCK ACCIDENTS INVESTIGATED IN THE STATE OF UTAH 1972 01875-037
TRUCK ACCIDENTS, SUMMIT COUNTY, UTAH 25 MAY 74 01876-006
TRUCK ACCIDENTS, ROLLOVER, COLLISION, SALT LAKE CITY 01877-007
TRUCK ACCIDENTS, GREATER SALT LAKE CITY 01878-015
TRUCK ACCIDENTS INVESTIGATED IN THE STATE OF NY 1974 01879-012
TRUCK ACCIDENTS INVESTIGATED BY CALSPAN 01880-021
TRUCK ACCIDENTS INVESTIGATED BY CALSPAN 1974 01881-027
VEHICLE EXPLOSION W/SUBSEQUENT FIRE NY 23 APR 75 01898-010
TRUCK ACCIDENT, ROLLOVER, PENDLETON, NY 27 SEP 74 01899-010
TRUCK ACCIDENT, FRONTAL IMPACT, HAMBURG, NY 16 DEC 74 01900-008
TRUCK/PICKUP TRUCK W/CAMPER AND TRAILER COLLISION 01901-030
AUTO COLLISION W/AND COLLAPSE OF BRIDGE, SILOAM, NC 01952-027
TRUCK ACCIDENT, EXPLOSION/FIRE, EAGLE PASS, TEXAS 01953-021
SCHOOLBUS/AUTO COLLISION/ROLLOVER, ASHLAND, OREGON 01954-034
COLLISION OF TRUCK AND BUS, NEAR HAMILTON, GA JUN 1975 01955-018
COLLISION OF WINNEBAGO MOTOR HOME W/BRIDGE 1 JUL 1975 01956-030
COLLISION OF TRUCK AND CAR, LOVINGTON, NM 3 JAN 1976 01957-012
CAR COLLISION, FRONT-TO-FRONT IMPACT TEST AT 60 MPH 01958-134
TRUCK TRACTOR-TRAILER/GROUND/ROLLOVER VOL 7, NO 1 01962-007
TRUCK TRACTOR-SPORTS VAN IMPACT VOL 7, NO 1 01963-009
TRUCK CAR ACCIDENT, BALTIMORE, MD, ON INTERSTATE 01964-012
TRUCK CAR ACCIDENT, REAR END UNDER-RIDE IMPACT, VOL 7 01965-011
GASOLINE TRUCK ACCIDENT, SEATTLE, WA 4 DEC 1975 01966-002
TRACTOR TRAILER/CAR/SCHOOL BUS, REAR END, ROLLOVER 01967-010
CAR BUS ACCIDENT, OVERLAND PARK, KANSAS 7 OCT 1975 01968-009
STATION WAGON/TRAIN ACCIDENT, BALTIMORE, MD DEC 1975 01969-012
TRACTOR TRAILER, REAR END AND ROLLOVER NY 1 JUL 1975 01970-009
TRUCK ACCIDENT, TIRE BLEW OUT, IMPACT, NY 21 JUN 1975 01971-009
STATION WAGON/SCHOOL BUS, HEAD ON, HAMBURG, NY SEP 1975 01972-009
TRUCK/SCHOOL BUS/TRAIN ACCIDENT, ARKANSAS 11 SEP 1975 01973-010
TRACTOR TRAILER, FRONT TO SIDE IMPACT FEB 1975 01974-011
TRUCK CAR ACCIDENT INTERSECTION, BALTIMORE, MD FEB 1975 01975-011
CAR/POLE/TRAIN SIDESWIPE IMPACT, LOS ANGELES 25 SEP 1975 01976-008
TRUCK CAR ACCIDENT, REAR END, SAN DIEGO FREEWAY JAN 1976 01977-009
UNDERIDE OVERIDE INTERVEHICULAR COLLISIONS 02002-194
TRUCK ACCIDENT, TRI-STATE RIG, GILA BEND AZ 02006-012
TRUCK ACCIDENT, COLLISION LEFT ROADWAY WASHINGTON DC 02007-014
TRUCK/SCHOOL BUS COLLISION LAKE PLACID FL 02008-012
TRUCK/VAN/AUTO ACCIDENT LEXINGTON VA 20 AUG 1976 02013-014

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(IMPACT)

....ACCELERATION/TIME.....INPUT.....TRANSPORTATION.....AUTOMOBILE.....

LUMBER TRUCK ACCIDENT-CARGO SHIFT, HARTFORD	6 DEC 1975	02027-014
TRUCK/TRAIN CROSSING ACCIDENT NY ROUTE 19	10 NOV 1973	02028-012
TRUCK,FRONT CORNER IMPACT,CONCORD, NY	27 NOV 1973	02030-011
TRUCK WHEEL/CAR - TOP IMPACT NY STATE	26 NOV 1973	02031-009
CAR/TRACTOR-TRAILER UNDERRIDE COLLISION	13 DEC 1974	02033-008
TRACTOR-TRAILER CAMPING ACCIDENT, HARDIN, KY	JUN 1975	02036-007
MOTOR HOME,RAN-OFF ROADWAY, IMPACT,FIRE,EXPLOSION	1975	02037-012
TRACTOR-TRAILER/CAR SIDESWIPE RURAL KY	AUG 1973	02038-009
TRUCK CAR ACCIDENT PACIFIC COAST HIGHWAY	17 JUN 1975	02039-008
WHITE FREIGHTLINER ACCIDENT VENTURA FREEWAY	JUN 1975	02040-007
TRUCK TRAILER ROLLOVER, POOR BRAKES, VERN.,CA	JUN 1975	02041-007
TRUCK CAR ACCIDENT, LANE CHANGE, LOS ANGELES	JUN 1975	02042-008
TANKTRUCK ACCIDENT, HELIUM FUEL LEAKAGE	JUL 1975	02043-008
JACKKNIFING TRAILER FORCED TRACTOR INTO BRIDGE	JUL 1975	02044-007
TRUCK TRAILER ACCIDENT, CARGO SHIFT, ROLLOVER	AUG 1975	02045-007
TRUCK ACCIDENT, PROPANE, OVERTURN AND FIRE	9 MAR 1972	02078-028
CAR/TRAIN, GRADE CROSSING, DES MOINES,IOWA	SEE DB 2085	02087-000
TRACTOR TRAILER COLLIDED WITH CAR BAXTER,CA	11 MAR 77	02092-013
TRACTOR/CARGO TANK TRAILER ACCIDENT, CHERRY HILL,NJ		02094-010
TANKTRUCK/RAIL GRADE CROSSING ACCIDENT	SEE DB 2095	02096-000
SCHOOL BUS TRAIN GRADE CROSSING ACCIDENT	SEE DB 2098	02097-000
TRUCK ACCIDENT, CANADA, GASOLINE FIRE AND OTHER HM		02108-013
TRACTOR-SEMITRAILER COLLISION MULTIPLE VEHICLES	AUG 76	02112-026
MINI MOTOR HOME/CAR ACCIDENT MCALESTER,OK	14 JUL 77	02115-028
TRUCK ACCIDENT, PENETRATED BRIDGE RAIL RELEASED HM CG		02116-020
TANKTRUCK RAIL CROSSING ACCIDENT	SEE DB2118 10 MAR 75	02119-000
TRUCK ACCIDENT, GASOLINE FIRE, BEATTYVILLE KY	09/24/77	02168-028
TRUCK RAIL CROSSING ACCIDENT	SEE DB 2203 27 JAN 76	02204-000
HIGHWAY ACCIDENT, SPILLED YELLOWCAKE, SPRINGFIELD, CO		02222-009
TRACTOR TRAILER REAR-END COLLISION, NC	27 APR 78	02234-016
TRUCK ACCIDENT, HEAD-ON WITH VAN, SCIPIO, UT	26 AUG 77	02246-037
STATIONWAGON PENETRATION OF BRIDGERAIL I10	11 NOV 78	02264-020
AMBULANCE OVERTURN, ROUTE 116, LITTLETON NH	22 AUG 78	02266-026
TRUCK, FIXED OBJECT COLLISION, CROFTON, MD	23 APR 79	02281-020
MULTIPLE VEHICLE COLLISION/FIRE, WILLOWICK,OH	6 MAY 79	02282-025
TRUCK ACCIDENT, SPEEDING, NEAR BETHESDA, MD	14 MAR 78	02296-014
TRUCK ACCIDENT, SIDESWIPE, NEAR LARAMIE WY	22 AUG 79	02312-030
DODGE VAN COLLIDED W/FARM VEHICLE, DELTA, UT	12 SEP 79	02333-027
AUTO ACCIDENT, COLLIDED HEAD-ON, INDIANA, PA	22 SEP 79	02334-022
AUTO ACCIDENT, HEAD-ON, PERRY, OK	23 FEB 80	02373-027
TRUCK ACCIDENT, COLLISION/FIRE, LA, CA	3 MAR 80	02374-030
TRUCK/SCHOOL BUS ACCIDENT, CA STATE RT 86	23 APR 80	02375-037
TANKTRUCK/RAIL GRADE CROSSING	SEE EDB 2413	02414-000
MULTIPLE-VEHICLE ACCIDENT AND FIRE INTERSTATE 15	10 NOV 80	02415-038
MULTIPLE-VEHICLE ACCIDENT AND FIRE, FROSTBURG, MD	18 FEB 81	02416-032
COMMUTER BUS RUN-OFF ROADWAY, TRIANGLE, VA	18 FEB 81	02417-048
MULTIPLE-VEHICLE ACCIDENT AND FIRE, INTERSTATE 95	20 APR 81	02418-025
PARK TOUR BUS ACCIDENT, MT MCKINLEY NATL PARK, AK	15 JUN 81	02419-027

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....ACCELERATION/TIME.....INPUT.....TRANSPORTATION.....RAILROAD.....

REAR END COLLISION AND DERAILMENT MEEKER, LA	MAY 1975	01924-024
RAIL ACCIDENT, HEAD-ON, EL MONTE, CA	2 APR 1973	01925-027
RAIL ACCIDENT, HEAD-ON, LUFKIN, TEXAS	18 NOV 1973	01926-025
RAIL ACCIDENT, HEAD-ON, COBDEN, ILLINOIS	2 DEC 1973	01927-026
RAIL ACCIDENT, HEAD-ON, PLAINVIEW, TEXAS	15 DEC 1973	01928-025
RAIL ACCIDENT, HEAD-ON, ST LOUIS, MISSOURI	22 JUN 1974	01929-007
RAIL ACCIDENT, HEAD-ON, MEMPHIS, TEN	24 JAN 1975	01930-025
RAIL ACCIDENT, SIDE-ON, EAPLS, TEXAS	29 NOV 1974	01931-025
RAIL ACCIDENT, OPEN SWITCH, WINDHAM, OHIO	22 NOV 1973	01932-024
RAIL ACCIDENT, RAKING, LAKE JUNCTION, NJ	17 JUN 1974	01933-027
RAIL ACCIDENT, REAR END, HURRICANE, ALASKA	5 JUL 1975	01945-024
RAIL ACCIDENT, REAR END, LEETONIA, OHIO	6 JUN 1975	01946-028
RAIL ACCIDENT, REAR END, DUPO, ILLINOIS	3 JAN 1975	01947-028
RAIL ACCIDENT, GRADE CROSSING, DEL MAR, CA	27 FEB 1974	01948-006
RAIL ACCIDENT, BROKEN RAIL, THOMPSONTOWN, PA	DEC 1974	01949-024
RAIL ACCIDENT, GRADE CROSSING, TRACY, CA	9 MAR 1975	01950-029
RAIL ACCIDENT, GRADE CROSSING, ELWOOD, IL	19 NOV 1975	01951-024
RAIL ACCIDENT, UNPROTECTED GRADE CROSSING	7 FEB 1976	02010-011
RAIL ACCIDENT, DERAILMENT JARRATT VA	5 MAY 1976	02011-026
RAIL ACCIDENT, HEAD-ON 2 TRAINS PATTISVILLE OH		02012-015
AUTOMATED WHEEL-ON-THE-GROUND DERAILMENT DETECTION SYS		02017-011
PIRMMINGHAM DERAILMENT, TRACK GAGE WIDENS	16 JAN 1977	02023-023
RAIL CROSSING ACCIDENT WITH TANK TRUCK SEE EDB2028		02029-020
CAR/TRAIN-FRONT TO SIDE IMPACT UNPROTECTED CROSSING		02032-029
SCHOOL BUS-TRAIN COLLISION STRATTON, NE	8 AUG 1976	02034-011
TRAIN DERAILMENT CARRYING 2 CONTAINERS OF RAM		02049-023
RAIL ACCIDENT, GRADE CROSSING, DES MOINES, IOWA		02085-022
RAIL ACCIDENT, GRADE CROSSING, MARLAND, OK	15 DEC 76	02095-016
RAIL CROSSING ACCIDENT WITH SCHOOL BUS LAFAYETTE, OR		02098-017
RAIL ACCIDENT, DERAILMENT YOUNGSTOWN, FL	26 FEB 78	02102-020
TRAIN ACCIDENT, RAIL FAILURE, RELEASED ANHYDROUS AMMON		02109-023
RAIL CROSSING ACCIDENT W/TANKTRUCK THAYER, MS	10 MAR 7	02118-027
RAIL ACCIDENT, REAR-END BLACK ROCK, NY	15 JUN 75	02121-027
RAIL ACCIDENT, REAR-END NEW YORK CITY, NY	29 JUL 75	02122-008
RAIL DERAILMENT, FIRE, EXPLOSION FERTILE, MN	22 OCT 75	02123-029
RAIL ACCIDENT, HEAD-ON COAHOMA, MS	23 NOV 75	02124-026
RAIL ACCIDENT, HEAD-ON, STATE-OF-ART TRANSIT	11 AUG 73	02136-057
RAIL ACCIDENT, DERAILMENT HASTINGS NE	2 AUG 76	02141-015
RAIL ACCIDENT, HEAD-ON, 2 TRAINS, NEW HAVEN IN	OCT 76	02142-019
RAIL ACCIDENT, DERAILMENT GOODMAN MS AMTRAK	30 JUN 76	02143-020
RAIL ACCIDENT, DERAILMENT GOLDONNA LA	28 DEC 77	02147-027
RAIL ACCIDENT, RAIL FAILURE, PENSACOLA FL	9 NOV 77	02169-046
RAIL ACCIDENT, REAR-END BROCKLYN JUNCTION WV	27 JAN 76	02194-028
RAIL ACCIDENT, REAR-END SANBORN NY	27 JAN 76	02195-029
RAIL ACCIDENT, DERAILMENT WARD AR	3 FEB 76	02196-011
RAIL ACCIDENT, REAR-END TRACK CAR DINGLE ID	1 MAR 76	02197-029
RAIL ACCIDENT, DERAILMENT/FIRE CALVERT TX	30 MAR 76	02198-010
RAIL ACCIDENT, REAR-END BLAIRSVILLE PA	7 APR 76	02199-027
RAIL ACCIDENT, SHIFTED LOAD HUGHES OH	7 JUN 76	02200-011

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.....ACCELERATION/TIME.....INPUT.....TRANSPORTATION.....RAILROAD.....

RAIL ACCIDENT, DERAILMENT CLIFFORD MI	18 OCT 76	02201-006
RAIL ACCIDENT, AMTRAK DERAILMENT CHICAGO IL	18 OCT 76	02202-007
RAIL ACCIDENT, GRADE CROSSING GOLDEN MS	27 JAN 76	02203-011
TRAIN DERAILMENT, URANIUM CYLINDERS, ROCKINGHAM, NC	77	02221-004
RAIL ACCIDENT, DERAILMENT, LEWISVILLE, AR	29 MAR 78	02230-023
RAIL ACCIDENT, GRADE CROSSING, PLANT CITY, FL	2 OCT 77	02231-026
RAIL ACCIDENT, HEAD-ON, FLORENCE, AL	18 SEP 78	02233-034
RAIL ACCIDENT, DERAILMENT NEAR LEVIS, WI	15 AUG 77	02243-009
RAIL ACCIDENT, SIDE COLLISION, NEELYVILLE, MO	16 JUN 77	02244-014
RAIL ACCIDENT, DERAILMENT, MANOR, PA	19 FEB 77	02245-008
RAIL ACCIDENT, DERAILMENT, ELMA VA	3 DEC 78	02265-026
RAIL ACCIDENT, REAR END, MADRAS OR	15 JAN 78	02267-009
RAIL ACCIDENT, DERAILMENT, WASHINGTON DC	15 FEB 78	02268-008
RAIL ACCIDENT, DERAILMENT, SUMMIT CA	6 MAR 78	02269-007
RAIL ACCIDENT, HEAD-END, IDAHO FALLS ID	21 JUN 78	02273-010
RAIL ACCIDENT, HEAD-END, FT MADISON IA	24 JUN 78	02274-008
RAIL ACCIDENT, AMTRAK DERAILMENT, LOHMAN MT	28 MAR 79	02276-017
RAIL ACCIDENT, SUBWAY DERAILMENT, NYC NY	12 DEC 78	02277-034
RAIL ACCIDENT, REAR-END, CONRAIL, MUNCY PA	31 JAN 79	02280-021
RAIL ACCIDENT, DERAILMENT, RAMSEY, WY	29 MAR 79	02283-030
RAIL ACCIDENT, DERAILMENT, CRESTVIEW FL	8 APR 79	02289-060
RAIL ACCIDENT, HEAD-ON/DERAILMENT EDISON NJ	20 APR 79	02290-027
RAIL ACCIDENT, COLLISION/DERAILMENT, AMTRAK	6 APR 78	02293-009
RAIL ACCIDENT, HEAD-END, ST JOSEPH, TN	6 JUL 78	02294-010
RAIL ACCIDENT, DERAILMENT, GRANITE, WY	31 JUL 79	02304-026
RAIL ACCIDENT, REAR-END, GORHAM IL	17 MAY 78	02308-012
RAIL ACCIDENT, COLLISION WITH WORK CRANE, WY	28 AUG 78	02309-009
RAIL ACCIDENT, COLLISION W/ON-TRACK TAMPER, SD	7 SEP 78	02310-010
RAIL ACCIDENT, SIDE COLLISION, HELCA KS	5 OCT 78	02311-013
RAIL ACCIDENT, COLLISION, HARVEY, IL	12 OCT 79	02335-034
RAIL ACCIDENT, REAR-END COLLISION, ANGORA, PA	16 OCT 79	02339-037
RAIL ACCIDENT, DERAILMENT, LAWRENCE, KA	2 OCT 79	02343-059
RAIL ACCIDENT, DERAILMENT, GLACIER PARK, MT	14 MAR 80	02367-034
RAIL ACCIDENT, HEAD-END COLLISION, ANGORA, NE	16 FEB 80	02368-028
RAIL ACCIDENT, HEAD-ON, LAKEVIEW, NC	2 APR 80	02369-024
RAIL ACCIDENT, HEAD-ON, ORLEANS ROAD, WV	12 FEB 80	02370-028
RAIL ACCIDENT, DERAILMENT, HAYWARD, CA	9 APR 80	02371-035
RAIL ACCIDENT, DERAILMENT, MIAMISBURG, OH	10 SEP 78	02372-006
RAIL ACCIDENT, PROTRUDING RAIL, LINDEN, NJ	9 JUL 80	02405-026
RAIL ACCIDENT, DERAILMENT, MULDRAGH, KY	26 JUL 80	02406-035
RAIL ACCIDENT, SIDE COLLISION, WELCH, WV	6 SEP 80	02407-031
RAIL ACCIDENT, RAIL YARD, SOMERVILLE, MA	3 APR 80	02408-041
RAIL ACCIDENT, REAR-END, HERMOSA, WY	16 OCT 80	02409-046
RAIL ACCIDENT, HEAD-END, DOBBS FERRY, NY	7 NOV 80	02410-050
RAIL ACCIDENT, DERAILMENT, SPRINGFIELD, IL	30 OCT 80	02411-043
RAIL ACCIDENT, HEAD-ON, GERMANTOWN, MD	9 FEB 81	02412-032
RAIL ACCIDENT, GRADE CROSSING, KENNER, LA	25 NOV 80	02413-033
RAIL ACCIDENT, REAR-END, KELSO, CA	17 NOV 80	02420-072
RAIL ACCIDENT, DERAILMENT, SURF, CA	22 MAY 81	02421-024

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(IMPACT)ACCELERATION/TIME.....INPUT.....TRANSPORTATION.....RAILROAD.....
RAIL ACCIDENT, DERAILMENT, LOCHLOOSA, FL 26 MAY 81 02422-023

(IMPACT)ACCELERATION/TIME.....INPUT.....TRANSPORTATION.....SHIP.....
NATURE OF SHIP COLLISIONS WITHIN PORTS 02026-049
TANKSHIP ACCIDENT, PENETRATION/GAS FIRE IN CARGO TANKS 02048-002
SS BALNE COLLIDED W/TANKSHIP SS KEYTRADER 18 JAN 74 02126-002
M/V WORLD MOBILITY/SS PENN GETTY COLLISION 29 DEC 78 02270-020
TANKER ANCO SCEPTRE STRUCK LOADING FACILITY 9 FEB 78 02271-017
SHIP ACCIDENT, PERUVIAN FREIGHTER/PUTANE BARGE 30 AUG 79 02344-037

(IMPACT)ACCELERATION/TIME.....RESPONSE.....TRANSPORTATION.....AIRCRAFT.....
FULL SCALE CRASH TEST OF A CH-47C HELICOPTER 02024-040
LIGHT PLANE CRASH TESTS AT IMPACT VEL.13 AND 27 M SEC 02166-054
MIDAIR COLLISION 727/CESSNA 172 SAN DIEGO CA 25 SEP 78 02263-074
AIRCRAFT ACCIDENT, NORD 262, MOHAWK/FRANKS 298 FEB 79 02284-031
AIRCRAFT ACCIDENT, NORD 262, SANTA MONICA, CA 10 MAR 79 02285-031
IMPACT/TRAJECTORY VELOCITY, FREE FALLING CH-47 AND 2 CARGO 02342-019

(IMPACT)ACCELERATION/TIME.....RESPONSE.....TRANSPORTATION.....AUTOMOBILE.....
TRUCK ACCIDENTS INVESTIGATED IN THE STATE OF UTAH 1972 01875-037
TRUCK ACCIDENTS, SUMMIT COUNTY, UTAH 25 MAY 74 01876-006
TRUCK ACCIDENTS, ROLLOVER, COLLISION, SALT LAKE CITY 01877-007
TRUCK ACCIDENTS, GREATER SALT LAKE CITY 01878-015
TRUCK ACCIDENTS INVESTIGATED IN THE STATE OF NY 1974 01879-012
TRUCK ACCIDENTS INVESTIGATED BY CALSPAN 01880-021
TRUCK ACCIDENTS INVESTIGATED BY CALSPAN 1974 01881-027
VEHICLE EXPLOSION W/SUBSEQUENT FIRE NY 23 APR 75 01898-010
TRUCK ACCIDENT, ROLLOVER, PENDLETON, NY 27 SEP 74 01899-010
TRUCK ACCIDENT, FRONTAL IMPACT, HAMBURG, NY 16 DEC 74 01900-008
TRUCK/PICKUP TRUCK W/CAMPER AND TRAILER COLLISION 01901-030
AUTO COLLISION W/AND COLLAPSE OF BRIDGE, SILOAM, NC 01952-027
TRUCK ACCIDENT, EXPLOSION/FIRE, EAGLE PASS, TEXAS 01953-021
SCHOLBUS/AUTO COLLISION/ROLLOVER, ASHLAND, OREGON 01954-034
COLLISION OF TRUCK AND BUS, NEAR HAMILTON, GA JUN 1975 01955-018
COLLISION OF WINNEBAGO MOTOR HOME W/BRIDGE 1 JUL 1975 01956-030
COLLISION OF TRUCK AND CAR, LOVINGTON, NM 3 JAN 1976 01957-012
CAR COLLISION, FRONT-TO-FRONT IMPACT TEST AT 60 MPH 01958-134
TRUCK TRACTOR-TRAILER/GROUND/ROLLOVER VOL 7, NO 1 01962-007
TRUCK TRACTOR-SPORTS VAN IMPACT VOL 7, NO 1 01963-009
TRUCK CAR ACCIDENT, BALTIMORE, MD, ON INTERSTATE 01964-012
TRUCK CAR ACCIDENT, REAR END UNDER-RIDE IMPACT, VOL 7 01965-011
GASOLINE TRUCK ACCIDENT, SEATTLE, WA 4 DEC 1975 01966-002
TRACTOR TRAILER/CAR/SCHOOL BUS, REAR END, ROLLOVER 01967-010
CAR BUS ACCIDENT, OVERLAND PARK, KANSAS 7 OCT 1975 01968-009
STATION WAGON/TRAIN ACCIDENT, BALTIMORE, MD DEC 1975 01969-012
TRACTOR TRAILER, REAR END AND ROLLOVER NY 1 JUL 1975 01970-009

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(IMPACT)

....ACCELERATION/TIME.....RESPONSE....TRANSPORTATION.....AUTOMOBILE.....

TRUCK ACCIDENT, TIRE BLEW OUT, IMPACT, NY	21 JUN 1975	01971-009
STATION WAGON/SCHOOL BUS, HEAD ON, HAMBURG, NY	SEP 1975	01972-009
TRUCK/SCHOOL BUS/TRAIN ACCIDENT, ARKANSAS	11 SEP 1975	01973-010
TRACTOR TRAILER, FRONT TO SIDE IMPACT	FEB 1975	01974-011
TRUCK CAR ACCIDENT INTERSECTION, BALTIMORE, MD	FEB 1975	01975-011
CAR/PCLE/TRAIN SIDESWIPE IMPACT, LOS ANGELES	25 SEP 1975	01976-008
TRUCK CAR ACCIDENT, REAR END, SAN DIEGO FREEWAY	JAN 1976	01977-009
TRUCK ACCIDENT, TRI-STATE RIG, GILA BEND AZ		02006-012
TRUCK ACCIDENT, COLLISION LEFT ROADWAY WASHINGTON DC		02007-014
TRUCK/SCHOOL BUS COLLISION LAKE PLACID FL		02008-012
TRUCK/VAN/AUTO ACCIDENT LEXINGTON VA	20 AUG 1976	02013-014
LUMBER TRUCK ACCIDENT-CARGO SHIFT, HARTFORD	6 DEC 1975	02027-014
TRUCK/TRAIN CROSSING ACCIDENT NY ROUTE 19	10 NOV 1973	02028-012
TRUCK, FRONT CORNER IMPACT, CONCORD, NY	27 NOV 1973	02030-011
TRUCK WHEEL/CAR - TOP IMPACT NY STATE	26 NOV 1973	02031-009
CAR/TRACTOR-TRAILER UNDERRIDE COLLISION	13 DEC 1974	02033-008
TRACTOR-TRAILER CAMPING ACCIDENT, HARDIN, KY	JUN 1975	02036-007
MOTOR HOME, KAN-OFF ROADWAY, IMPACT, FIKE, EXPLOSION	1975	02037-012
TRACTOR-TRAILER/CAR SIDESWIPE RURAL KY	AUG 1973	02038-009
TRUCK CAR ACCIDENT PACIFIC COAST HIGHWAY	17 JUN 1975	02039-008
WHITE FREIGHTLINER ACCIDENT VENTURA FREEWAY	JUN 1975	02040-007
TRUCK TRAILER ROLLOVER, POOR BRAKES, VERN., CA	JUN 1975	02041-007
TRUCK CAR ACCIDENT, LANE CHANGE, LOS ANGELES	JUN 1975	02042-008
TANKTRUCK ACCIDENT, HELIUM FUEL LEAKAGE	JUL 1975	02043-008
JACKKNIFING TRAILER FORCED TRACTOR INTO BRIDGE	JUL 1975	02044-007
TRUCK TRAILER ACCIDENT, CARGO SHIFT, ROLLOVER	AUG 1975	02045-007
TRUCK ACCIDENT, PROPANE, OVERTURN AND FIRE	9 MAR 1972	02078-028
CAR/TRAIN, GRADE CROSSING, DES MOINES, IOWA	SEE DB 2085	02087-000
TRACTOR TRAILER COLLIDED WITH CAR BAXTER, CA	11 MAR 77	02092-013
TRACTOR/CARGO TANK TRAILER ACCIDENT, CHERRY HILL, NJ		02094-010
TANKTRUCK/RAIL GRADE CROSSING ACCIDENT	SEE DB 2095	02096-000
SCHOOL BUS TRAIN GRADE CROSSING ACCIDENT	SEE DB 2098	02097-000
TRUCK ACCIDENT, CANADA, GASOLINE FIRE AND OTHER HM		02108-013
TRACTOR-SEMITRAILER COLLISION MULTIPLE VEHICLES	AUG 76	02112-026
MINI MOTOR HOME/CAR ACCIDENT MCALESTER, OK	14 JUL 77	02115-028
TRUCK ACCIDENT, PENETRATED BRIDGE RAIL RELEASED HM CG		02116-020
TANKTRUCK RAIL CROSSING ACCIDENT	SEE DB 2118 10 MAR 75	02119-000
TRUCK ACCIDENT, GASOLINE FIRE, BEATTYVILLE KY	09/24/77	02168-028
TRUCK RAIL CROSSING ACCIDENT	SEE DB 2203 27 JAN 76	02204-000
HIGHWAY ACCIDENT, SPILLED YELLOWCAKE, SPRINGFIELD, CO		02222-009
TRACTOR TRAILER REAR-END COLLISION, NC	27 APR 78	02234-016
TRUCK ACCIDENT, HEAD-ON WITH VAN, SCIPIO, UT	26 AUG 77	02246-037
STATIONWAGON PENETRATION OF BRIDGE RAIL I10	11 NOV 78	02264-020
AMBULANCE OVERTURN, ROUTE 116, LITTLETON NH	22 AUG 78	02266-026
TRUCK, FIXED OBJECT COLLISION, CROFTON, MD	23 APR 79	02281-020
MULTIPLE VEHICLE COLLISION/FIRE, WILLOWICK, OH	6 MAY 79	02282-025
TRUCK ACCIDENT, SPEEDING, NEAR BETHESDA, MD	14 MAR 78	02296-014
TRUCK ACCIDENT, SIDESWIPE, NEAR LARAMIE WY	22 AUG 79	02312-030
DODGE VAN COLLIDED W/FARM VEHICLE, DELTA, UT	12 SEP 79	02333-027

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(IMPACT)

....ACCELERATION/TIME.....RESPONSE....TRANSPORTATION.....AUTOMOBILE.....

AUTO ACCIDENT, COLLIDED HEAD-ON, INDIANA, PA	22 SEP 79	02334-022
AUTO ACCIDENT, HEAD-ON, PERRY, OK	23 FEB 80	02373-027
TRUCK ACCIDENT, COLLISION/FIRE, LA, CA	3 MAR 80	02374-030
TRUCK/SCHOOL BUS ACCIDENT, CA STATE RT 86	23 APR 80	02375-037
TANKTRUCK/RAIL GRADE CROSSING SEE EDB 2413		02414-000
MULTIPLE-VEHICLE ACCIDENT AND FIRE INTERSTATE 15	10 NOV 80	02415-038
MULTIPLE-VEHICLE ACCIDENT AND FIRE, FROSTBURG, MD	18 FEB 81	02416-032
COMMUTER BUS RUN-OFF ROADWAY, TRIANGLE, VA	18 FEB 81	02417-048
MULTIPLE-VEHICLE ACCIDENT AND FIRE, INTERSTATE 95	20 APR 81	02418-025
PARK TOUR BUS ACCIDENT, MT MCKINLEY NATL PARK, AK	15 JUN 81	02419-027

(IMPACT)

....ACCELERATION/TIME.....RESPONSE....TRANSPORTATION.....RAILROAD.....

RAIL ACCIDENT, HEAD-IN, EL MONTE, CA	2 APR 1973	01925-007
RAIL ACCIDENT, HEAD-ON, LUFKIN, TEXAS	18 NOV 1973	01926-005
RAIL ACCIDENT, HEAD-ON, COBDEN, ILLINOIS	2 DEC 1973	01927-006
RAIL ACCIDENT, HEAD-ON, PLAINVIEW, TEXAS	15 DEC 1973	01928-005
RAIL ACCIDENT, HEAD-ON, ST LOUIS, MISSOURI	22 JUN 1974	01929-007
RAIL ACCIDENT, HEAD-ON, MEMPHIS, TEN	24 JAN 1975	01930-005
RAIL ACCIDENT, SIDE-ON, EARLS, TEXAS	29 NOV 1974	01931-005
RAIL ACCIDENT, OPEN SWITCH, WINDHAM, OHIO	22 NOV 1973	01932-004
RAIL ACCIDENT, RAKING, LAKE JUNCTION, NJ	17 JUN 1974	01933-007
RAIL ACCIDENT, REAR END, HURRICANE, ALASKA	5 JUL 1975	01945-024
RAIL ACCIDENT, REAR END, LEETONIA, OHIO	6 JUN 1975	01946-028
RAIL ACCIDENT, REAR END, DUPO, ILLINOIS	3 JAN 1975	01947-008
RAIL ACCIDENT, GRADE CROSSING, DEL MAR, CA	27 FEB 1974	01948-006
RAIL ACCIDENT, BROKEN RAIL, THOMPSONTOWN, PA	DEC 1974	01949-004
RAIL ACCIDENT, GRADE CROSSING, TRACY, CA	9 MAR 1975	01950-029
RAIL ACCIDENT, GRADE CROSSING, ELWOOD, IL	19 NOV 1975	01951-024
RAIL ACCIDENT, UNPROTECTED GRADE CROSSING	7 FEB 1976	02010-011
RAIL ACCIDENT, DERAILMENT JARRATT VA	5 MAY 1976	02011-026
RAIL ACCIDENT, HEAD-ON 2 TRAINS PETTISVILLE OH		02012-015
AUTOMATED WHEEL-ON-THE-GROUND DERAILMENT DETECTION SYS		02017-011
BIRMINGHAM DERAILMENT, TRACK GAGE WIDENS	16 JAN 1977	02023-003
RAIL CROSSING ACCIDENT WITH TANK TRUCK SEE EDB 2028		02029-000
CAR/TRAIN-FRONT TO SIDE IMPACT UNPROTECTED CROSSING		02032-009
SCHOOL BUS-TRAIN COLLISION STRATTON, NE	8 AUG 1976	02034-011
TRAIN DERAILMENT CARRYING 2 CONTAINERS OF RAM		02049-003
RAIL ACCIDENT, GRADE CROSSING, DES MOINES, IOWA		02085-022
RAIL ACCIDENT, GRADE CROSSING, MARLAND, OK	15 DEC 76	02095-016
RAIL CROSSING ACCIDENT WITH SCHOOL BUS LAFAYETTE, OR		02098-017
RAIL ACCIDENT, DERAILMENT YOUNGSTOWN, FL	26 FEB 78	02102-020
TRAIN ACCIDENT, RAIL FAILURE, RELEASED ANHYDROUS AMMON		02109-023
RAIL CROSSING ACCIDENT W/TANKTRUCK THAYER, MS	10 MAR 7	02118-007
RAIL ACCIDENT, REAR-END BLACK ROCK, NY	15 JUN 75	02121-007
RAIL ACCIDENT, REAR-END NEW YORK CITY, NY	29 JUL 75	02122-008
RAIL DERAILMENT, FIRE, EXPLOSION FERTILE, MN	22 OCT 75	02123-009
RAIL ACCIDENT, HEAD-ON COAHOMA, MS	23 NOV 75	02124-006
RAIL ACCIDENT, HEAD-ON, 2 TRAINS, NEW HAVEN IN	OCT 76	02142-019

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(IMPACT)

....ACCELERATION/TIME.....RESPONSE....TRANSPORTATION.....RAILROAD.....

RAIL ACCIDENT, DERAILMENT GOODMAN MS	AMTRAK 30 JUN 76	02143-020
RAIL ACCIDENT, DERAILMENT GOLDONNA LA	28 DEC 77	02147-027
RAIL ACCIDENT, RAIL FAILURE, PENSACOLA FL	9 NOV 77	02169-046
RAIL ACCIDENT, REAR-END BROOKLYN JUNCTION WV	27 JAN 76	02194-038
RAIL ACCIDENT, REAR-END SANBORN NY	27 JAN 76	02195-039
RAIL ACCIDENT, DERAILMENT WARD AR	3 FEB 76	02196-011
RAIL ACCIDENT, REAR-END TRACK CAR DINGLE ID	1 MAR 76	02197-009
RAIL ACCIDENT, DERAILMENT/FIRE CALVERT TX	30 MAR 76	02198-010
RAIL ACCIDENT, REAR-END BLAIRSVILLE PA	7 APR 76	02199-037
RAIL ACCIDENT, SHIFTED LOAD HUGHES OH	7 JUN 76	02200-011
RAIL ACCIDENT, DERAILMENT CLIFFORD MI	18 OCT 76	02201-006
RAIL ACCIDENT, AMTRAK DERAILMENT CHICAGO IL	18 OCT 76	02202-007
RAIL ACCIDENT, GRADE CROSSING GOLDEN MS	27 JAN 76	02203-011
TRAIN DERAILMENT, URANIUM CYLINDERS, ROCKINGHAM, NC	77	02221-004
RAIL ACCIDENT, DERAILMENT, LEWISVILLE, AR	29 MAR 78	02230-023
RAIL ACCIDENT, GRADE CROSSING, PLANT CITY, FL	2 OCT 77	02231-026
RAIL ACCIDENT, HEAD-ON, FLORENCE, AL	18 SEP 78	02233-034
RAIL ACCIDENT, DERAILMENT NEAR LEVISO, WI	15 AUG 77	02243-009
RAIL ACCIDENT, SIDE COLLISION, NEELYVILLE, MO	16 JUN 77	02244-014
RAIL ACCIDENT, DERAILMENT, MANOR, PA	19 FEB 77	02245-008
RAIL ACCIDENT, DERAILMENT, ELMA VA	3 DEC 78	02265-026
RAIL ACCIDENT, REAR END, MADRAS OR	15 JAN 78	02267-009
RAIL ACCIDENT, DERAILMENT, WASHINGTON DC	15 FEB 78	02268-008
RAIL ACCIDENT, DERAILMENT, SUMMIT CA	6 MAR 78	02269-007
RAIL ACCIDENT, HEAD-END, IDAHO FALLS ID	21 JUN 78	02273-010
RAIL ACCIDENT, HEAD-END, FT MADISON IA	24 JUN 78	02274-008
RAIL ACCIDENT, AMTRAK DERAILMENT, LOHMAN MT	28 MAR 79	02276-017
RAIL ACCIDENT, SUBWAY DERAILMENT, NYC NY	12 DEC 78	02277-034
RAIL ACCIDENT, REAR-END, CONRAIL, MUNCY PA	31 JAN 79	02280-021
RAIL ACCIDENT, DERAILMENT, RAMSEY, WY	29 MAR 79	02283-030
RAIL ACCIDENT, DERAILMENT, CRESTVIEW FL	8 APR 79	02289-060
RAIL ACCIDENT, HEAD-ON/DERAILMENT EDISON NJ	20 APR 79	02290-027
RAIL ACCIDENT, COLLISION/DERAILMENT, AMTRAK	6 APR 78	02293-009
RAIL ACCIDENT, HEAD-END, ST JOSEPH, TN	6 JUL 78	02294-010
RAIL ACCIDENT, DERAILMENT, GRANITE, WY	31 JUL 79	02304-026
RAIL ACCIDENT, REAR-END, GORHAM IL	17 MAY 78	02308-012
RAIL ACCIDENT, COLLISION WITH WORK CRANE, WY	28 AUG 78	02309-009
RAIL ACCIDENT, COLLISION W/ON-TRACK TAMPER, SD	7 SEP 78	02310-010
RAIL ACCIDENT, SIDE COLLISION, HELCA KS	5 OCT 78	02311-013
RAIL ACCIDENT, COLLISION, HARVEY, IL	12 OCT 79	02335-034
RAIL ACCIDENT, REAR-END COLLISION, ANGORA, PA	16 OCT 79	02339-037
RAIL ACCIDENT, DERAILMENT, LAWRENCE, KA	2 OCT 79	02343-059
RAIL ACCIDENT, DERAILMENT, GLACIER PARK, MT	14 MAR 80	02367-034
RAIL ACCIDENT, HEAD-END COLLISION, ANGORA, NE	16 FEB 80	02368-028
RAIL ACCIDENT, HEAD-ON, LAKEVIEW, NC	2 APR 80	02369-024
RAIL ACCIDENT, HEAD-ON, ORLEANS ROAD, WV	12 FEB 80	02370-028
RAIL ACCIDENT, DERAILMENT, HAYWARD, CA	9 APR 83	02371-035
RAIL ACCIDENT, DERAILMENT, MIAMISBURG, OH	10 SEP 78	02372-006
RAIL ACCIDENT, PROTUDING RAIL, LINDEN, NJ	9 JUL 80	02405-026

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(IMPACT)

.....ACCELERATION/TIME.....RESPONSE.....TRANSPORTATION.....RAILROAD.....

RAIL ACCIDENT, DERAILMENT, MULDRUGH, KY	26 JUL 80	02406-035
RAIL ACCIDENT, SIDE COLLISION, WELCH, WV	6 SEP 80	02407-031
RAIL ACCIDENT, RAIL YARD, SOMERVILLE, MA	3 APR 80	02408-041
RAIL ACCIDENT, REAR-END, HERMOSA, WY	16 OCT 80	02409-046
RAIL ACCIDENT, HEAD-END, DOBBS FERRY, NY	7 NOV 80	02410-050
RAIL ACCIDENT, DERAILMENT, SPRINGFIELD, IL	30 OCT 80	02411-041
RAIL ACCIDENT, HEAD-ON, GERMANTOWN, MD	9 FEB 81	02412-032
RAIL ACCIDENT, GRADE CROSSING, KENNER, LA	25 NOV 80	02413-033
RAIL ACCIDENT, REAR-END, KELSO, CA	17 NOV 80	02420-072
RAIL ACCIDENT, DERAILMENT, SURF, CA	22 MAY 81	02421-024
RAIL ACCIDENT, DERAILMENT, LOCHLOOSA, FL	26 MAY 81	02422-023

(IMPACT)

.....ACCELERATION/TIME.....RESPONSE.....TRANSPORTATION.....SHIP.....

NATURE OF SHIP COLLISIONS WITHIN PORTS		02026-049
TANKSHIP ACCIDENT, PENETRATION/GAS FIRE IN CARGO TANKS		02048-002
SS BALNE COLLIDED W/TANKSHIP SS KEYTRADER	18 JAN 74	02126-002
M/V WORLD MOBILITY/SS PENN GETTY COLLISION	29 DEC 78	02270-020
TANKER ANCO SCEPTRE STRUCK LOADING FACILITY	9 FEB 78	02271-017
SHIP ACCIDENT, PERUVIAN FREIGHTER/BUTANE BARGE	30 AUG 79	02344-037

.....FRAGMENTATION.....INPUT.....TRANSPORTATION.....AIRCRAFT.....

HELICOPTER LANDING GEAR COLLAPSED PAN AM BLDG NY	02046-002
HELICOPTER MAIN ROTOR HUB TRUNNION FRACTURED/SEPARATED	02047-002

.....FRAGMENTATION.....RESPONSE.....TRANSPORTATION.....AIRCRAFT.....

HELICOPTER LANDING GEAR COLLAPSED PAN AM BLDG NY	02046-002
HELICOPTER MAIN ROTOR HUB TRUNNION FRACTURED/SEPARATED	02047-002

(PROJECTILE/IMPALEMENT)

.....FRAGMENTATION.....INPUT.....TRANSPORTATION.....AIRCRAFT.....

AIRCRAFT ACCIDENT, INFLIGHT SEPARATION PROPELLER BLADE	02004-002
AN ASSESSMENT OF TECHNOLOGY TURBOJET ENGINE FAILURES	02139-418
INCIDENCE UNCONTAINED ROTOR BURSTS COMM AVIATION 62-76	02140-003
AIRCRAFT GAS TURBINE ROTOR FAILURES COMM AVIATION 1976	02226-031
GUIDELINES, DESIGN TURBIN ROTOR BURST FRAGMENT CO. RING	02307-052

(PUNCTURE)

.....FRAGMENTATION.....INPUT.....GENERAL.....AIRCRAFT.....

TURBIN ENGINE ROTOR DISK FAILURES 1962 TO EARLY 1973	02054-025
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(PUNCTURE)

.....FRAGMENTATION.....INPUT.....GENERAL.....OTHER.....

FRAGMENTS, MASS, VELOCITY, STANDARD ARTILLERY SHELLS	01814-117
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(PUNCTURE)FRAGMENTATION.....INPUT.....TRANSPORTATION.....AIRCRAFT.....

ROTOR FRAGMENT CONTAINMENT-JET ENGINE FAILURE - 1972	01751-020
ROTOR FAILURES, GAS TURBINE, US COMM AVIATION 1973	02153-033
ROTOR FAILURES, GAS TURBINE, US COMM AVIATION 1974	02164-032
ROTOR FAILURES, GAS TURBIN, US COMM AVIATION 1975	02306-030

(PUNCTURE)FRAGMENTATION.....INPUT.....TRANSPORTATION.....AUTOMOBILE.....

SEVERITIES TRAN ACCIDENT VOL 3 MOTOR CARRIER SEE A1630	A1663-111
SEVERITIES TRAN ACCIDENTS INVOLVING LARGE PACKAGES	A2130-160
TRUCK ACCIDENT-FLORIDA-8/8/71	01695-006
TRUCK ACCIDENT REPORTS, NHTSA, NO. 7	01753-365
TRUCK ACCIDENT REPORTS, NHTSA, NO. 8	01754-245
TRUCK ACCIDENT REPORTS, NHTSA, NO. 9	01755-306
EXPANSION OF CLOUDS FROM PRESSURIZED LIQUIDS SEE EDB 2316	02321-000

(PUNCTURE)FRAGMENTATION.....INPUT.....TRANSPORTATION.....RAILROAD.....

SEVERITIES TRAN ACCIDENT VOL 4 TRAIN SEE A1630	A1956-081
SEVERITIES RAIL ACCIDENTS LARGE PACKAGES SEE DB A2130	A2131-000
RAIL ACCIDENT, HOUSTON, TEXAS 21 SEPT, 1974	01993-028
RAIL ACCIDENT, DERAILMENT YOUNGSTOWN, FL 26 FEB 73	02102-020
TRAIN ACCIDENT, RAIL FAILURE, RELEASED ANHYDROUS AMMON	02109-023
TRAIN DERAILMENT, FIRES AND EXPLOSION, BELT, MONTANA	02110-019
TRAIN ACCIDENT, COLLISION W/RAIL MAIN, AZ 16 MAR 75	02120-009
RAIL ACCIDENT, DERAILMENT GOLDONNA LA 28 DEC 77	02147-027
RAIL ACCIDENT, RAIL FAILURE, PENSACOLA FL 9 NOV 77	02169-046
RAIL ACCIDENT, SHIFTED LOAD HUGHES OH 7 JUN 76	02200-011
RAIL ACCIDENT, DERAILMENT CLIFFORD MI 18 OCT 76	02201-006
RAIL ACCIDENT, SIDE COLLISION, NEELYVILLE, MO 16 JUN 77	02244-014
RAIL ACCIDENT, DERAILMENT, CRESTVIEW FL 8 APR 79	02289-060
EXPANSION OF CLOUDS FROM PRESSURIZED LIQUIDS	02316-013
RAIL ACCIDENT, DERAILMENT, COLLINSVILLE, IL 6 AUG 78	02329-010
RAIL ACCIDENT, DERAILMENT, MULDRUGH, KY 26 JUL 80	02406-035
RAIL ACCIDENT, RAIL YARD, SOMERVILLE, MA 3 APR 80	02408-041

(PUNCTURE)FRAGMENTATION.....INPUT.....TRANSPORTATION.....SHIP.....

HAZ ENV EXPERIENCED BY RAM PACKAGES TRANSPORTED BY WATER	A2365-080
SS BALNE COLLIDED W/TANKSHIP SS KEYTRADER 18 JAN 74	02126-002
IMPACT, PENETRATION, SHIP COLLISION AND GROUNDING	02257-049

(PUNCTURE)FRAGMENTATION.....INPUT.....TRANSPORTATION.....OTHER.....

SEVERITIES OF TRANSPORTATION ACCIDENTS VOL 1 SUMMARY	A1630-034
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(PUNCTURE)FRAGMENTATION.....RESPONSE.....TRANSPORTATION.....AUTOMOBILE.....

CARGO RESPONSE TRUCK AND RAIL ACCIDENTS	01688-004
TRUCK ACCIDENT-FLORIDA-8/8/71	01695-006

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(PUNCTURE) FRAGMENTATION.....RESPONSE....TRANSPORTATION.....RAILROAD.....

CARGO RESPONSE TRUCK AND RAIL ACCIDENTS SEE EDB1688	01699-000
RAIL ACCIDENT, HOUSTON, TEXAS, 19 OCT 1971	01846-012
RAIL ACCIDENT, CRESCENT CITY, 19 AUG 1970	01847-018
RAIL ACCIDENT, HOUSTON, TEXAS 21 SEPT, 1974	01893-028
RAIL ACCIDENT, DERAILMENT YOUNGSTOWN, FL 26 FEB 78	02102-020
TRAIN ACCIDENT, RAIL FAILURE, RELEASED ANHYDROUS AMMON	02109-023
TRAIN DERAILMENT, FIRES AND EXPLOSION, BELT, MONTANA	02110-019
TRAIN ACCIDENT, COLLISION W/RAIL MAIN, AZ 16 MAR 75	02120-009
RAIL ACCIDENT, DERAILMENT GOLDONNA LA 28 DEC 77	02147-027
RAIL ACCIDENT, RAIL FAILURE, PENSACOLA FL 9 NOV 77	02169-046
RAIL ACCIDENT, SHIFTED LOAD HUGHES OH 7 JUN 76	02200-011
RAIL ACCIDENT, DERAILMENT CLIFFORD MI 18 OCT 76	02201-006
RAIL ACCIDENT, SIDE COLLISION, NEELYVILLE, MO 16 JUN 77	02244-014
RAIL ACCIDENT, DERAILMENT, CRESTVIEW FL 8 APR 79	02289-060
RAIL ACCIDENT, DERAILMENT, COLLINSVILLE, IL 6 AUG 78	02329-010
RAIL ACCIDENT, DERAILMENT, MULDRUGH, KY 26 JUL 80	02406-035
RAIL ACCIDENT, RAIL YARD, SOMERVILLE, MA 3 APR 80	02408-041

(PUNCTURE) FRAGMENTATION.....RESPONSE....TRANSPORTATION.....SHIP.....

SS BALNE COLLIDED W/TANKSHIP SS KEYTRADER 18 JAN 74	02126-002
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(EXPLOSION) FRAGMENTATION.....INPUT.....TRANSPORTATION.....AIRCRAFT.....

AIRCRAFT ACCIDENT, BOEING 707-331B 08 SEP 74	02154-044
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(EXPLOSION) FRAGMENTATION.....INPUT.....TRANSPORTATION.....AUTOMOBILE.....

TRUCK ACCIDENT-NEW JERSEY 9/21/72	01690-005
TRUCK ACCIDENT-GEORGIA-6/4/71	01694-004
TRUCK ACCIDENT-VIRGINIA-3/9/72	01696-005
RISK ASSESSMENT OF TRANSPORT OF LPG	02177-091

(EXPLOSION) FRAGMENTATION.....INPUT.....TRANSPORTATION.....RAILROAD.....

RAIL DERAILMENT, FIRE, EXPLOSION FERTILE, MN 22 OCT 75	02123-009
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(EXPLOSION) FRAGMENTATION.....INPUT.....TRANSPORTATION.....SHIP.....

EXPLOSION FIRE ENGULFED THE M/T ELIAS, UNLOADING APR 74	02127-005
RISK ASSESSMENT OF TRANSPORT OF LNG SEE EDB 2177	02178-001
EXPLOSION/FIRE ONBOARD THE SS CHEVRON HAWAII 1 SEP 80	02377-038

(EXPLOSION) FRAGMENTATION.....INPUT.....TRANSPORTATION.....OTHER.....

NATURAL GAS PIPELINE EXPLOSION AND FIRE 24 OCT 78	02295-003
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(EXPLOSION)FRAGMENTATION.....RESPONSE....TRANSPORTATION.....RAILROAD.....
 RAIL DERAILMENT, FIRE, EXPLOSION FERTILE, MN 22 OCT 75 02123-039

(EXPLOSION)FRAGMENTATION.....RESPONSE....TRANSPORTATION.....SHIP.....
 EXPLOSION FIRE ENGULFED THE M/T ELIAS, UNLOADING APR 74 02127-005

(EXPLOSION)FRAGMENTATION.....RESPONSE....TRANSPORTATION.....OTHER.....
 NATURAL GAS PIPELINE EXPLOSION AND FIRE 24 OCT 78 02295-003

.....PRECIPITATION.....INPUT.....GENERAL.....AUTOMOBILE.....
 WET PAVEMENT FATAL ACCIDENTS, SPECIAL STUDY, 1976-1977 02313-042

.....PRESSURE.....INPUT.....GENERAL.....OTHER.....
 TYPHOON REPORT - PACIFIC OCEAN - 1959 01802-199
 TYPHOON REPORT - PACIFIC OCEAN - 1960 01803-227
 TYPHOON REPORT - PACIFIC OCEAN - 1961 01804-256
 TYPHOON REPORT - PACIFIC OCEAN - 1962 01825-306
 TYPHOON REPORT - PACIFIC OCEAN - 1963 01806-211
 TYPHOON REPORT - PACIFIC OCEAN - 1965 01807-255
 TYPHOON REPORT - PACIFIC OCEAN - 1966 01808-261
 TYPHOON REPORT - PACIFIC OCEAN - 1967 01809-272
 TYPHOON REPORT - PACIFIC OCEAN - 1968 01810-329
 TYPHOON REPORT - PACIFIC OCEAN - 1969 01811-172
 TYPHOON REPORT - PACIFIC OCEAN - 1970 01812-235
 TYPHOON REPORT - PACIFIC OCEAN - 1974 01813-253
 TROPICAL CYCLONES 01856-177

(CRUSH)PRESSURE.....INPUT.....GENERAL.....AIRCRAFT.....
 CRUSH ENVIRONMENT SMALL CONTAINERS CARRIED BY US JETS 02114-023

(CRUSH)PRESSURE.....INPUT.....TRANSPORTATION.....AUTOMOBILE.....
 GASOLINE TRUCK ACCIDENT, SEATTLE, WA 4 DEC 1975 01966-002
 TRUCK CAR ACCIDENT, LANE CHANGE, ST LOUIS, MO 25 SEP 77 02249-021

(CRUSH)PRESSURE.....RESPONSE.....GENERAL.....AIRCRAFT.....
 CRUSH ENVIRONMENT SMALL CONTAINERS CARRIED BY US JETS 02114-023

(CRUSH)PRESSURE.....RESPONSE....TRANSPORTATION.....AUTOMOBILE.....
 CARGO RESPONSE TRUCK AND RAIL ACCIDENTS 01688-004
 GASOLINE TRUCK ACCIDENT, SEATTLE, WA 4 DEC 1975 01966-002
 TRUCK CAR ACCIDENT, LANE CHANGE, ST LOUIS, MO 25 SEP 77 02249-021

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(CRUSH)PRESSURE.....RESPONSE....TRANSPORTATION.....RAILROAD.....
CARGO RESPONSE TRUCK AND RAIL ACCIDENTS SEE EDB1686 01699-000

(IMMERSION)PRESSURE.....INPUT.....TRANSPORTATION.....AIRCRAFT.....
SEVERITIES TRAN ACCIDENT VOL 2 CARGO AIRCRAFT SEE 1630 A1662-106
A/C ACCIDENT DEHAVILLAND DHC 15 FEB 1970 01679-005
A/C ACCIDENT DC9 MAY 1970 01682-005
A/C ACCIDENT SKYVAN SERIES 3 JULY 1970 01683-005
AIRCRAFT ACCIDENT, NORD 262, SANTA MONICA, CA 10 MAR 79 02285-031

(IMMERSION)PRESSURE.....INPUT.....TRANSPORTATION.....AUTOMOBILE.....
SEVERITIES TRAN ACCIDENT VOL 3 MOTOR CARRIER SEE A1630 A1663-111
SEVERITIES TRAN ACCIDENTS INVOLVING LARGE PACKAGES A2130-160

(IMMERSION)PRESSURE.....INPUT.....TRANSPORTATION.....RAILROAD.....
SEVERITIES TRAN ACCIDENT VOL 4 TRAIN SEE A1630 A1986-081
SEVERITIES RAIL ACCIDENTS LARGE PACKAGES SEE DB A2130 A2131-000

(IMMERSION)PRESSURE.....INPUT.....TRANSPORTATION.....SHIP.....
HAZ ENV EXPERIENCED BY RAM PACKAGES TRANSPORTED BY WATER A2365-080
SINKING SS SILVER DOVE, CRACKED WALL IN CARGO HOLD 02009-005
SINKING GREAT LAKES BULK CARGO VESSEL SS ED FITZGERALD 02125-002

(IMMERSION)PRESSURE.....INPUT.....TRANSPORTATION.....OTHER.....
SEVERITIES OF TRANSPORTATION ACCIDENTS VOL 1 SUMMARY A1630-034

(IMMERSION)PRESSURE.....RESPONSE....TRANSPORTATION.....AIRCRAFT.....
AIRCRAFT ACCIDENT, NORD 262, SANTA MONICA, CA 10 MAR 79 02285-031

(IMMERSION)PRESSURE.....RESPONSE....TRANSPORTATION.....SHIP.....
SINKING SS SILVER DOVE, CRACKED WALL IN CARGO HOLD 02009-005
SINKING GREAT LAKES BULK CARGO VESSEL SS ED FITZGERALD 02125-002

(EXPLOSION)PRESSURE.....INPUT.....GENERAL.....OTHER.....
LIQUID-PROPELLANT ROCKET ABORT FIRE MODEL 02314-004
SKIN BURNS RESULTING FROM EXPOSURE TO CHEMICAL FIREBALLS 02318-020

(EXPLOSION)PRESSURE.....INPUT.....TRANSPORTATION.....AUTOMOBILE.....
HYDROGEN TRANSPORT AND HANDLING EXPLOSION 01758-041
TRUCK ACCIDENT, EXPLOSION/FIRE, EAGLE PASS, TEXAS 01953-021
COLLISION OF WINNEBAGO MOTOR HOME W/BRIDGE 1 JUL 1975 01956-030

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(EXPLOSION)PRESSURE.....INPUT.....TRANSPORTATION.....AUTOMOBILE.....

MOTOR HOME, RAN-OFF ROADWAY, IMPACT, FIRE, EXPLOSION 1975 02037-012
THERMAL HAZARD FROM TANK TRUCK ACCIDENTS SEE EDB 2315 02320-000

(EXPLOSION)PRESSURE.....INPUT.....TRANSPORTATION.....RAILROAD.....

RAIL ACCIDENT, EAST ST LOUIS, ILLINOIS - 1/22/72 01706-005
RAIL ACCIDENT, CRETE, NEBRASKA - 2/18/69 01707-005
RAIL ACCIDENT, HOUSTON, TEXAS - 10/19/71 01708-019
RAIL ACCIDENT, DECATUR, ILL 19 JULY, 1974 01889-023
RAIL ACCIDENT, BENSON, AR 24 MAY, 1973 01891-031
RAIL ACCIDENT, HOUSTON, TEXAS 21 SEPT, 1974 01893-028
RAIL ACCIDENT, EXPLOSION OF PRM, WENATCHEE, WI AUG 1974 01938-069
RAIL ACCIDENT, DERAILMENT, LEWISVILLE, AR 29 MAR 78 02230-023
RAIL ACCIDENT, DERAILMENT, WAVERLY, TN 22 FEB 78 02232-020
RAIL ACCIDENT, DERAILMENT, CRESTVIEW FL 8 APR 79 02289-060
THERMAL HAZARD FROM PROPANE FIREBALLS 02315-008
RAIL ACCIDENT, DERAILMENT, COLLINSVILLE, IL 6 AUG 78 02329-010
RAIL ACCIDENT, DERAILMENT, MULDRUGH, KY 26 JUL 80 02406-035

(EXPLOSION)PRESSURE.....INPUT.....TRANSPORTATION.....OTHER.....

NATURAL GAS PIPELINE EXPLOSION AND FIRE 24 OCT 78 02295-003
THERMAL HAZARD FROM LNG FIREBALLS 02317-021
THERMAL HAZARD FROM HYDROGEN FIREBALLS 02319-015

(EXPLOSION)PRESSURE.....RESPONSE.....TRANSPORTATION.....AUTOMOBILE.....

TRUCK ACCIDENT, EXPLOSION/FIRE, EAGLE PASS, TEXAS 01953-021
COLLISION OF WINNEBAGO MOTOR HOME W/BRIDGE 1 JUL 1975 01956-030
MOTOR HOME, RAN-OFF ROADWAY, IMPACT, FIRE, EXPLOSION 1975 02037-012

(EXPLOSION)PRESSURE.....RESPONSE.....TRANSPORTATION.....RAILROAD.....

RAIL ACCIDENT, DECATUR, ILL 19 JULY, 1974 01889-023
RAIL ACCIDENT, BENSON, AR 24 MAY, 1973 01891-031
RAIL ACCIDENT, HOUSTON, TEXAS 21 SEPT, 1974 01893-028
RAIL ACCIDENT, DERAILMENT, LEWISVILLE, AR 29 MAR 78 02230-023
RAIL ACCIDENT, DERAILMENT, WAVERLY, TN 22 FEB 78 02232-020
RAIL ACCIDENT, DERAILMENT, CRESTVIEW FL 8 APR 79 02289-060
RAIL ACCIDENT, DERAILMENT, COLLINSVILLE, IL 6 AUG 78 02329-010
RAIL ACCIDENT, DERAILMENT, MULDRUGH, KY 26 JUL 80 02406-035

(EXPLOSION)PRESSURE.....RESPONSE.....TRANSPORTATION.....OTHER.....

NATURAL GAS PIPELINE EXPLOSION AND FIRE 24 OCT 78 02295-003

.....RADIATION.....INPUT.....TRANSPORTATION.....AUTOMOBILE.....

TRAN ACCIDENT RISKS IN NUCLEAR POWER IND 1975-2020 01989-131

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.....RADIATION.....INPUT.....TRANSPORTATION.....RAILROAD.....
TRAN ACCIDENT RISKS IN NUCLEAR POWER IND SEE EDB 1989 01990-000

.....RADIATION.....INPUT.....TRANSPORTATION.....SHIP.....
TRAN ACCIDENT RISKS IN NUCLEAR POWER IND SEE EDB 1989 01991-000

(LIGHTNING)RADIATION.....INPUT.....GENERAL.....OTHER.....
VOLTAGE AND CURRENT CHARACTERISTICS OF LIGHTNING STRIKE 00464-003
PROPERTIES OF LIGHTNING STROKES 00999-001

(LIGHTNING)RADIATION.....INPUT.....TRANSPORTATION.....AIRCRAFT.....
LIGHTNING THREAT TO AIRCRAFT 01000-004
LIGHTNING HAZARD TO AIRCRAFT 01415-011
MEASUREMENT LIGHTING INDUCED VOLTAGES IN AN F4H-1 02185-127

.....SHOCK.....INPUT.....TRANSPORTATION.....RAILROAD.....
RAIL ACCIDENT, REAR-END/DERAILMENT, SEABROOK, MD 06/78 02248-034

.....SHOCK.....RESPONSE.....TRANSPORTATION.....RAILROAD.....
RAIL ACCIDENT, REAR-END/DERAILMENT, SEABROOK, MD 06/78 02248-034

(CRUSH)SHOCK.....INPUT.....GENERAL.....AIRCRAFT.....
CRUSH ENVIRONMENT SMALL CONTAINERS CARRIED BY US JETS 02114-023

(CRUSH)SHOCK.....INPUT.....TRANSPORTATION.....AUTOMOBILE.....
SEVERITIES TRAN ACCIDENT VOL 3 MOTOR CARRIER SEE A1630 A1663-111
SEVERITIES TRAN ACCIDENTS INVOLVING LARGE PACKAGES A2130-160
TRUCK ACCIDENT REPORTS, NHTSA, NO. 7 01753-365
TRUCK ACCIDENT REPORTS, NHTSA, NO. 8 01754-245
TRUCK ACCIDENT REPORTS, NHTSA, NO. 9 01755-306
TRUCK ACCIDENT, ROLLOVER, PENDLETON, NY 27 SEP 74 01899-010
TRUCK ACCIDENT, FRONTAL IMPACT, HAMBURG, NY 16 DEC 74 01900-008
TRUCK/PICKUP TRUCK W/CAMPER AND TRAILER COLLISION 01901-030
TRUCK TRACTOR-TRAILER/GROUND/ROLLOVER VOL 7, NO 1 01962-007
TRUCK TRACTOR-SPORTS VAN IMPACT VOL 7, NO 1 01963-009
TRUCK CAR ACCIDENT, BALTIMORE, MD, ON INTERSTATE 01964-012
TRUCK CAR ACCIDENT, REAR END UNDER-RIDE IMPACT, VOL 7 01965-011
LUMBER TRUCK ACCIDENT-CARGO SHIFT, HARTFORD 6 DEC 1975 02027-014
TRUCK WHEEL/CAR - TOP IMPACT NY STATE 26 NOV 1973 02031-009
TRACTOR-TRAILER CAMPING ACCIDENT, HARDIN, KY JUN 1975 02036-007

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(CRUSH)SMOCK.....INPUT.....TRANSPORTATION.....RAILROAD.....
SEVERITIES TRAN ACCIDENT VOL 4 TRAIN SEE A1630 A1986-081
SEVERITIES RAIL ACCIDENTS LARGE PACKAGES SEE DB A2130 A2131-000
RAIL ACCIDENT, HOUSTON, TEXAS 21 SEPT, 1974 01893-028

(CRUSH)SMOCK.....INPUT.....TRANSPORTATION.....SHIP.....
HAZ ENV EXPERIENCED BY RAM PACKAGES TRANSPORTED BY WATER A2365-080

(CRUSH)SMOCK.....INPUT.....TRANSPORTATION.....OTHER.....
SEVERITIES OF TRANSPORTATION ACCIDENTS VOL 1 SUMMARY A1630-034

(CRUSH)SMOCK.....RESPONSE.....GENERAL.....AIRCRAFT.....
CRUSH ENVIRONMENT SMALL CONTAINERS CARRIED BY US JETS C2114-023

(CRUSH)SMOCK.....RESPONSE.....TRANSPORTATION.....AUTOMOBILE.....
TRUCK ACCIDENT, ROLLOVER, PENDLETON, NY 27 SEP 74 01899-010
TRUCK ACCIDENT, FRONTAL IMPACT, HAMBURG, NY 16 DEC 74 01900-008
TRUCK/PICKUP TRUCK W/CAMPER AND TRAILER COLLISION 01901-030
TRUCK TRACTOR-TRAILER/GROUND/ROLLOVER VOL 7, NO 1 01962-007
TRUCK TRACTOR-SPORTS VAN IMPACT VOL 7, NO 1 01963-009
TRUCK CAR ACCIDENT, BALTIMORE, MD, ON INTERSTATE 01964-012
TRUCK CAR ACCIDENT, REAR END UNDER-RIDE IMPACT, VOL 7 01965-011
LUMBER TRUCK ACCIDENT-CARGO SHIFT, HARTFORD 6 DEC 1975 02027-014
TRUCK WHEEL/CAR - TOP IMPACT NY STATE 26 NOV 1973 02031-009
TRACTOR-TRAILER CAMPING ACCIDENT, HARDIN, KY JUN 1975 02036-007

(CRUSH)SMOCK.....RESPONSE.....TRANSPORTATION.....RAILROAD.....
RAIL ACCIDENT, HOUSTON, TEXAS, 19 OCT 1971 01846-012
RAIL ACCIDENT, CRESCENT CITY, 19 AUG 1970 01847-018
RAIL ACCIDENT, HOUSTON, TEXAS 21 SEPT, 1974 01893-028

(IMPACT)SMOCK.....INPUT.....GENERAL.....AUTOMOBILE.....
TRUCK ACCIDENT SPEEDS A - SUMMARY 01687-003
STATISTICAL STUDY OF TRUCK ACCIDENT SPEEDS 01698-024

(IMPACT)SMOCK.....INPUT.....GENERAL.....RAILROAD.....
FREIGHT TRAIN ACCIDENTS, NUMBER OF CARS INVOLVED 01729-013

(IMPACT)SMOCK.....INPUT.....GENERAL.....OTHER.....
APPROXIMATE DURATION OF SOME SHORT ACCELERATION LOADS 00734-001

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(IMPACT)SHOCK.....INPUT.....HANDLING.....OTHER.....
IMPACTS DUE TO LARGE DROPS WHEN LOADING 00342-001
MAXIMUM DROPS, PACKAGES IN TRANSIT 01608-008

(IMPACT)SHOCK.....INPUT.....TRANSPORTATION.....AIRCRAFT.....
SEVERITIES TRAN ACCIDENT VOL 2 CARGO AIRCRAFT SEE 1630 A1662-106
ANALYSIS OF DIRECTION OF LOADS IN AIRCRAFT ACCIDENTS 00751-001
ACCELERATION OF FLOOR-AIRCRAFT CRASHES 00752-001
ACCELERATION, AIRCRAFT CRASH-VARIOUS ANGLES OF IMPACT 00753-008
CRASH TEST, DC-7 AIRCRAFT 01104-013
CRASH TEST, CONSTELLATION AIRCRAFT 01105-027
CIVIL AVIATION ACCIDENT DATA - 1962 TO 1972 01664-018
ANALYSIS OF CARGO A/C CRASH RECORDS CAB DATA 01668-010
CRASH IMPACT CONDITIONS, MULTI ENGINE TRANSPORT A/C 01670-058
SURVEY OF A/C CRASH SURVIVABILITY, CARGO AT A/C CG 01671-008
ACCIDENT DATA, MULTIENGINE AIRCRAFT 01672-020
A/C ACCIDENT DC8 62 SEPT 1970 01676-005
A/C ACCIDENT MARTIN 404 OCT 1970 01677-005
A/C ACCIDENT CONVAIR 580 DEC 1968 01678-005
A/C ACCIDENT DEHAVILLAND DHC 16 FEB 1970 01679-005
A/C ACCIDENT DOUGLAS C540 APRIL 1970 01680-005
A/C ACCIDENT DC 9 JAN 1970 01681-005
A/C ACCIDENT DC9 MAY 1970 01682-005
A/C ACCIDENT SKYVAN SERIES 3 JULY 1970 01683-005
A/C ACCIDENT DC9 32 SEPT 1970 SEE EDB 2159 01684-005
A/C ACCIDENT DC8 63F SEPT 1970 01686-005
AIRCRAFT ACCIDENT - BOEING 707 - 1/16/74 01800-031
AIRCRAFT CRASH ENVIRONMENTS - NAVY 01819-087
AIRCRAFT ACCIDENT - CONVAIR 600 - 9/27/73 01820-039
AIRCRAFT MIDAIR COLLISIONS 01822-188
AIRCRAFT DITCHING INVESTIGATION 01823-081
A/C CRASH, B707, BOSTON, 3 NOV 1973 01843-046
A RISK AND COMPARATIVE ANALYSIS OF NAVY AIRCRAFT DATA 01857-091
ARMY ROTARY WING AIRCRAFT ACCIDENTS-COST STUDY 1970-71 01895-032
FULL SCALE CRASH TEST OF A CH-47C HELICOPTER 02024-040
MIDAIR COLLISION 727/CESSNA 172 SAN DIEGO CA 25 SEP 78 02263-074
AIRCRAFT ACCIDENT, NORD 262, MOHAWK/FRANKS 298 FEB 79 02284-031
AIRCRAFT ACCIDENT, NORD 262, SANTA MONICA, CA 10 MAR 79 02285-031

(IMPACT)SHOCK.....INPUT.....TRANSPORTATION.....AUTOMOBILE.....
SEVERITIES TRAN ACCIDENTS INVOLVING LARGE PACKAGES A2130-160
TRUCK ACCIDENT ENVIRONMENT ANALYSIS TAC - STUDY C1944-146
ACCELERATIONS, AUTOMOBILE CRASH (HEAD-ON) 00737-001
DECCELERATION PATTERNS FOR AUTOMOBILE HEAD-ON COLLISIONS 00738-001
ACCIDENT REPORT, TRUCK - VENTURA, CALIFORNIA, 8-18-71 01659-006
TRUCK ACCIDENT-NEW JERSEY 9/21/72 01690-005
TRUCK ACCIDENT-ARIZONA 8/31/70 01691-003
TRUCK ACCIDENT-VIRGINIA 4/13/72 01692-003

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.....SHOCK.....INPUT.....TRANSPORTATION.....AUTOMOBILE.....

TRUCK ACCIDENT-PENN-9/5/71	01693-003
TRUCK ACCIDENT-GEORGIA-6/4/71	01694-004
TRUCK ACCIDENT-FLORIDA-8/8/71	01695-006
TRUCK ACCIDENT-VIRGINIA-3/9/72	01696-005
TRUCK ACCIDENT-TENN-5/13/72	01697-003
RAIL/ROAD VEHICLE ACCIDENT, OKLAHOMA - 4/5/71-SEE 1710	01711-000
RAIL/ROAD VEHICLE ACCIDENT, NEW YORK -3/24/72	01712-005
RAIL/ROAD VEHICLE ACCIDENT, ILLINOIS -1/24/70-SEE 1714	01715-000
TRUCK ACCIDENT REPORTS, NHTSA, NO. 7	01753-365
TRUCK ACCIDENT REPORTS, NHTSA, NO. 8	01754-245
TRUCK ACCIDENT REPORTS, NHTSA, NO. 9	01755-306
TRUCK ACCIDENT REPORTS - BOSTON UNIV., 1973	01770-339
TRUCK ACCIDENT REPORTS - NHTSA, NO. 3	01771-281
RAIL-HIGHWAY GRADE CROSSING ACCIDENTS, 1972 (SEE 1775)	01776-000
RAIL-HIGHWAY GRADE CROSSING ACCIDENTS, 1973 (SEE 1777)	01778-000
TRUCK ACCIDENT - TENNESSEE - 8/27/73	01783-002
TRUCK ACCIDENT - VIRGINIA - 4/13/72	01784-003
TRUCK ACCIDENT - TEXAS - 3/7/73	01785-003
TRUCK ACCIDENT - IOWA - 4/3/73	01786-002
TRUCK ACCIDENT - VIRGINIA - 3/28/74	01787-002
TRUCK ACCIDENT - MASSACHUSETTS - 10/18/73	01788-003
TRUCK/BUS ACCIDENT, NEW JERSEY, 19 OCT 1973	01845-027
TRUCK ACCIDENTS INVESTIGATED IN THE STATE OF UTAH 1972	01875-037
TRUCK ACCIDENTS, SUMMIT COUNTY, UTAH 25 MAY 74	01876-006
TRUCK ACCIDENTS, ROLLOVER, COLLISION, SALT LAKE CITY	01877-007
TRUCK ACCIDENTS, GREATER SALT LAKE CITY	01878-015
TRUCK ACCIDENTS INVESTIGATED IN THE STATE OF NY 1974	01879-012
TRUCK ACCIDENTS INVESTIGATED BY CALSPAN	01880-021
TRUCK ACCIDENTS INVESTIGATED BY CALSPAN 1974	01881-027
ACCIDENTS, CANADA, RAM CONTAINERS	01888-026
AUTO COLLISION W/AND COLLAPSE OF BRIDGE, SILOAM, NC	01952-027
TRUCK ACCIDENT, EXPLOSION/FIRE, EAGLE PASS, TEXAS	01953-021
SCHOOLBUS/AUTO COLLISION/ROLLOVER, ASHLAND, OREGON	01954-034
COLLISION OF TRUCK AND BUS, NEAR HAMILTON, GA JUN 1975	01955-018
COLLISION OF WINNEBAGO MOTOR HOME W/BRIDGE 1 JUL 1975	01956-030
COLLISION OF TRUCK AND CAR, LOVINGTON, NM 3 JAN 1976	01957-012
CAR COLLISION, FRONT-TO-FRONT IMPACT TEST AT 60 MPH	01958-134
GASOLINE TRUCK ACCIDENT, SEATTLE, WA 4 DEC 1975	01966-002
TRACTOR TRAILER/CAR/SCHOOL BUS, REAR END, ROLLOVER	01967-010
CAR BUS ACCIDENT, OVERLAND PARK, KANSAS 7 OCT 1975	01968-009
STATION WAGON/TRAIN ACCIDENT, BALTIMORE, MD DEC 1975	01969-012
TRACTOR TRAILER, REAR END AND ROLLOVER NY 1 JUL 1975	01970-009
TRUCK ACCIDENT, TIRE BLEW OUT, IMPACT, NY 21 JUN 1975	01971-009
STATION WAGON/SCHOOL BUS, HEAD ON, HAMBURG, NY SEP 1975	01972-009
TRUCK/SCHOOL BUS/TRAIN ACCIDENT, ARKANSAS 11 SEP 1975	01973-010
TRACTOR TRAILER, FRONT TO SIDE IMPACT FEB 1975	01974-011
TRUCK CAR ACCIDENT INTERSECTION, BALTIMORE, MD FEB 1975	01975-011
CAR/PCLE/TRAIN SIDESWIPE IMPACT, LOS ANGELES 25 SEP 1975	01976-008
TRUCK CAR ACCIDENT, REAR END, SAN DIEGO FREEWAY JAN 1976	01977-009

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.....SMOCK.....INPUT.....TRANSPORTATION.....AUTOMOBILE.....

UNDERIDE OVERIDE INTERVEHICULAR COLLISIONS	02002-194
TRUCK ACCIDENT, COLLISION LEFT ROADWAY WASHINGTON DC	02007-014
TRUCK/VAN/AUTO ACCIDENT LEXINGTON VA 20 AUG 1976	02013-014
TRUCK, FRONT CORNER IMPACT, CONCORD, NY 27 NOV 1973	02030-011
CAR/TRACTOR-TRAILER UNDERRIDE COLLISION 13 DEC 1974	02033-008
TRUCK CAR ACCIDENT PACIFIC COAST HIGHWAY 17 JUN 1975	02039-008
WHITE FREIGHTLINER ACCIDENT VENTURA FREEWAY JUN 1975	02040-007
TRUCK TRAILER ROLLOVER, POOR BRAKES, VERN., CA JUN 1975	02041-007
TANKTRUCK ACCIDENT, HELIUM FUEL LEAKAGE JUL 1975	02043-008
JACKKNIFING TRAILER FORCED TRACTOR INTO BRIDGE JUL 1975	02044-007
TRUCK TRAILER ACCIDENT, CARGO SHIFT, ROLLOVER AUG 1975	02045-007
CAR/TRAIN, GRADE CROSSING, DES MOINES, IOWA SEE DB 2085	02067-000
TRACTOR TRAILER COLLIDED WITH CAR BAXTER, CA 11 MAR 77	02092-013
TRACTOR/CARGO TANK TRAILER ACCIDENT, CHERRY HILL, NJ	02094-010
TANKTRUCK/RAIL GRADE CROSSING ACCIDENT SEE DB 2095	02096-000
SCHOOL BUS TRAIN GRADE CROSSING ACCIDENT SEE DB 2098	02097-000
TRUCK ACCIDENT, CANADA, GASOLINE FIRE AND OTHER HM	02108-013
TRACTOR-SEMI TRAILER COLLISION MULTIPLE VEHICLES AUG 76	02112-026
MINI MOTOR HOME/CAR ACCIDENT MCALESTER, OK 14 JUL 77	02115-028
TRUCK ACCIDENT, PENETRATED BRIDGE RAIL RELEASED HM CG	02116-020
TANKTRUCK RAIL CROSSING ACCIDENT SEE DB 2118 10 MAR 75	02119-000
TRUCK RAIL CROSSING ACCIDENT SEE DB 2203 27 JAN 76	02204-000
TRACTOR TRAILER REAR-END COLLISION, NC 27 APR 78	02234-016
TRUCK ACCIDENT, HEAD-ON WITH VAN, SCIPHO, UT 26 AUG 77	02246-037
TRUCK CAR ACCIDENT, LANE CHANGE, ST LOUIS, MO 25 SEP 77	02249-021
STATIC WAGON PENETRATION OF BRIDGE RAIL 110 11 NOV 78	02264-020
TRUCK, FIXED OBJECT COLLISION, CROFTON, MD 23 APR 79	02281-020
MULTIPLE VEHICLE COLLISION/FIRE, WILLOWICK, OH 6 MAY 79	02282-025
TRUCK ACCIDENT, SPEEDING, NEAR BETHESDA, MD 14 MAR 78	02296-014
TRUCK ACCIDENT, SIDESWIPE, NEAR LARAMIE WY 22 AUG 79	02312-030
DODGE VAN COLLIDED W/FARM VEHICLE, DELTA, UT 12 SEP 79	02333-027
AUTO ACCIDENT, COLLIDED HEAD-ON, INDIANA, PA 22 SEP 79	02334-022
TRUCK/SCHOOL BUS ACCIDENT, CA STATE RT 86 23 APR 80	02375-037

(IMPACT)

.....SMOCK.....INPUT.....TRANSPORTATION.....RAILROAD.....

SEVERITIES TRAN ACCIDENT VOL 4 TRAIN SEE A1630	A1986-081
SEVERITIES RAIL ACCIDENTS LARGE PACKAGES SEE DB A2130	A2131-000
COLLISIONS, RAIL, HEAD ON AND REAR END	01665-012
RAIL ACCIDENT TANK CAR RUPTURE, FIRE	01675-072
TRANSPORT ACCIDENTS OF RAM 1948-1965 SEE EDB 1689	01700-000
RAIL ACCIDENT, COTULLA, TEXAS - 12/1/73	01701-002
RAIL ACCIDENT, INDIO, CALIFORNIA - 6/25/73	01702-002
RAIL ACCIDENT, SALEM, ILLINOIS - 6/10/71	01703-003
RAIL ACCIDENT, MAQUIN, ILLINOIS - 5/24/72	01704-002
RAIL ACCIDENT, TAFT, LOUISIANA - 2/21/73	01705-012
RAIL ACCIDENT, EAST ST LOUIS, ILLINOIS - 1/22/72	01706-005
RAIL ACCIDENT, CRETE, NEBRASKA - 2/18/69	01707-005
RAIL ACCIDENT, HOUSTON, TEXAS - 10/19/71	01708-019

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.....SHOCK.....INPUT.....TRANSPORTATION.....RAILROAD.....

RAIL ACCIDENT, HERNDON, PENNSYLVANIA - 3/12/72	01739-005
RAIL/ROAD VEHICLE ACCIDENT, OKLAHOMA - 4/5/71	01710-003
RAIL/ROAD VEHICLE ACCIDENT, NEW YORK -3/24/72-SEE 1712	01713-000
RAIL/ROAD VEHICLE ACCIDENT, ILLINOIS -1/24/70	01714-003
RAIL-HIGHWAY GRADE CROSSING ACCIDENTS, 1972	01775-004
RAIL-HIGHWAY GRADE CROSSING ACCIDENTS, 1973	01777-004
RAIL ACCIDENT, ONEONTA, NY 12 FEB, 1974	01830-024
RAIL ACCIDENT, MUSTANG, OK, 1 SEPT, 1974	01892-019
RAIL ACCIDENT, HEAD-ON, EL MONTE, CA 2 APR 1973	01945-007
RAIL ACCIDENT, HEAD-ON, LUFKIN, TEXAS 18 NOV 1973	01926-005
RAIL ACCIDENT, HEAD-ON, COBDEN, ILLINOIS 2 DEC 1973	01927-006
RAIL ACCIDENT, HEAD-ON, PLAINVIEW, TEXAS 15 DEC 1973	01928-005
RAIL ACCIDENT, HEAD-ON, ST LOUIS, MISSOURI 22 JUN 1974	01929-007
RAIL ACCIDENT, HEAD-ON, MEMPHIS, TEN 24 JAN 1975	01930-005
RAIL ACCIDENT, SIDE-ON, EARLS, TEXAS 29 NOV 1974	01931-005
RAIL ACCIDENT, OPEN SWITCH, WINDHAM, OHIO 22 NOV 1973	01932-004
RAIL ACCIDENT, WAKING, LAKE JUNCTION, NJ 17 JUN 1974	01933-007
RAIL ACCIDENT, REAR END, HURRICANE, ALASKA 5 JUL 1975	01945-024
RAIL ACCIDENT, REAR END, LEETONIA, OHIO 6 JUN 1975	01946-028
RAIL ACCIDENT, REAR END, DUPO, ILLINOIS 3 JAN 1975	01947-008
RAIL ACCIDENT, GRADE CROSSING, DEL MAR, CA 27 FEB 1974	01948-006
RAIL ACCIDENT, BROKEN RAIL, THOMPSONTOWN, PA DEC 1974	01949-004
RAIL ACCIDENT, GRADE CROSSING, TRACY, CA 9 MAR 1975	01950-029
RAIL ACCIDENT, GRADE CROSSING, ELWOOD, IL 19 NOV 1975	01951-024
RAIL ACCIDENT, UNPROTECTED GRADE CROSSING 7 FEB 1976	02010-011
RAIL ACCIDENT, DERAILMENT JARRATT VA 5 MAY 1976	02011-026
RAIL ACCIDENT, HEAD-ON 2 TRAINS PETTISVILLE OH	02012-015
AUTOMATED WHEEL-ON-THE-GROUND DERAILMENT DETECTION SYS	02017-011
BIRMINGHAM DERAILMENT, TRACK GAGE WIDENS 16 JAN 1977	02023-003
RAIL CROSSING ACCIDENT WITH TANK TRUCK SEE EDB2028	02029-000
CAR/TRAIN-FRONT TO SIDE IMPACT UNPROTECTED CROSSING	02032-009
SCHOOL BUS-TRAIN COLLISION STRATTON, NE 8 AUG 1976	02034-011
RAIL ACCIDENT, GRADE CROSSING, DES MOINES, IOWA	02085-022
RAIL ACCIDENT, GRADE CROSSING, MARLAND, OK 15 DEC 76	02095-016
RAIL CROSSING ACCIDENT WITH SCHOOL BUS LAFAYETTE, OR	02098-017
TRAIN ACCIDENT, RAIL FAILURE, RELEASED ANHYDROUS AMMON	02109-023
TRAIN DERAILMENT, FIRES AND EXPLOSION, BELT, MONTANA	02110-019
RAIL CROSSING ACCIDENT W/TANKTRUCK THAYER, MS 10 MAR 7	02118-007
TRAIN ACCIDENT, COLLISION W/RAIL MAIN, AZ 16 MAR 75	02120-009
RAIL ACCIDENT, REAR-END BLACK ROCK, NY 15 JUN 75	02121-007
RAIL ACCIDENT, REAR-END NEW YORK CITY, NY 29 JUL 75	02122-008
RAIL DERAILMENT, FIRE, EXPLOSION FERTILE, MN 22 OCT 75	02123-009
RAIL ACCIDENT, HEAD-ON COAHOMA, MS 23 NOV 75	02124-006
RAIL ACCIDENT, HEAD-ON, 2 TRAINS, NEW HAVEN IN OCT 76	02142-019
RAIL ACCIDENT, DERAILMENT GOODMAN MS AMTRAK 30 JUN 76	02143-020
RAIL ACCIDENT, REAR-END BROOKLYN JUNCTION WV 27 JAN 76	02194-008
RAIL ACCIDENT, REAR-END SANBORN NY 27 JAN 76	02195-009
RAIL ACCIDENT, DERAILMENT WARD AR 3 FEB 76	02196-011
RAIL ACCIDENT, REAR-END TRACK CAR DINGLE ID 1 MAR 76	02197-009

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(IMPACT)

.....SHOCK.....INPUT.....TRANSPORTATION.....RAILROAD.....

RAIL ACCIDENT, REAR-END BLAIRSVILLE PA	7 APR 76	02199-007
RAIL ACCIDENT, AMTRAK DERAILMENT CHICAGO IL	18 OCT 76	02202-007
RAIL ACCIDENT, GRADE CROSSING GOLDEN KS	27 JAN 76	02203-011
RAIL ACCIDENT, DERAILMENT, LEWISVILLE, AR	29 MAR 78	02230-023
RAIL ACCIDENT, GRADE CROSSING, PLANT CITY, FL	2 OCT 77	02231-026
RAIL ACCIDENT, HEAD-ON, FLORENCE, AL	18 SEP 78	02233-034
RAIL ACCIDENT, DERAILMENT NEAR LEVIS, WI	15 AUG 77	02243-009
RAIL ACCIDENT, DERAILMENT, MANOR, PA	19 FEB 77	02245-008
RAIL ACCIDENT, DERAILMENT, ELMA VA	3 DEC 78	02265-026
RAIL ACCIDENT, REAR END, MADRAS OR	15 JAN 78	02267-009
RAIL ACCIDENT, DERAILMENT, WASHINGTON DC	15 FEB 78	02268-008
RAIL ACCIDENT, DERAILMENT, SUMMIT CA	6 MAR 78	02269-007
RAIL ACCIDENT, HEAD-END, IDAHO FALLS ID	21 JUN 78	02273-010
RAIL ACCIDENT, HEAD-END, FT MADISON IA	24 JUN 78	02274-008
RAIL ACCIDENT, AMTRAK DERAILMENT, LOHMAN MT	28 MAR 79	02276-017
RAIL ACCIDENT, SUBWAY DERAILMENT, NYC NY	12 DEC 78	02277-034
RAIL ACCIDENT, REAR-END, CONRAIL, MUNCY PA	31 JAN 79	02280-021
RAIL ACCIDENT, DERAILMENT, RAMSEY, WY	29 MAR 79	02283-030
RAIL ACCIDENT, HEAD-ON/DERAILMENT EDISON NJ	20 APR 79	02290-027
RAIL ACCIDENT, COLLISION/DERAILMENT, AMTRAK	6 APR 78	02293-009
RAIL ACCIDENT, HEAD-END, ST JOSEPH, TN	6 JUL 78	02294-010
RAIL ACCIDENT, DERAILMENT, GRANITE, WY	31 JUL 79	02304-026
RAIL ACCIDENT, REAR-END, GCRHAM IL	17 MAY 78	02308-012
RAIL ACCIDENT, COLLISION WITH WORK CRANE, WY	28 AUG 78	02309-009
RAIL ACCIDENT, COLLISION W/ON-TRACK TAMPER, SD	7 SEP 78	02310-010
RAIL ACCIDENT, SIDE COLLISION, HELCA KS	5 OCT 78	02311-013
RAIL ACCIDENT, DERAILMENT, COLLINSVILLE, IL	6 AUG 78	02329-010
RAIL ACCIDENT, COLLISION/DERAILMENT, ALMA, WI	28 AUG 78	02330-012
RAIL ACCIDENT, DERAILMENT, MCINTOSH, GA	11 FEB 79	02331-006
RAIL ACCIDENT, COLLISION, HARVEY, IL	12 OCT 79	02335-034
RAIL ACCIDENT, REAR-END COLLISION, ANGORA, PA	16 OCT 79	02339-037
RAIL ACCIDENT, DERAILMENT, LAWRENCE, KA	2 OCT 79	02343-059
RAIL ACCIDENT, DERAILMENT, GLACIER PARK, MT	14 MAR 80	02367-034
RAIL ACCIDENT, HEAD-END COLLISION, ANGORA, NE	16 FEB 80	02368-028
RAIL ACCIDENT, HEAD-ON, LAKEVIEW, NC	2 APR 80	02369-024
RAIL ACCIDENT, HEAD-ON, ORLEANS ROAD, WV	12 FEB 80	02370-028
RAIL ACCIDENT, DERAILMENT, HAYWARD, CA	9 APR 80	02371-035
RAIL ACCIDENT, DERAILMENT, MIAMISBURG, OH	10 SEP 78	02372-006
RAIL ACCIDENT, PROTRUDING RAIL, LINDEN, NJ	9 JUL 80	02405-026

(IMPACT)

.....SHOCK.....INPUT.....TRANSPORTATION.....SHIP.....

HAZ ENV EXPERIENCED BY RAM PACKAGES TRANSPORTED BY WATER		A2365-080
COLLISION - TUG/BARGE WITH BRIDGE		01725-030
SS BAUNE COLLIDED W/TANKSHIP SS KEYTRADER	18 JAN 74	02126-002
IMPACT, PENETRATION, SHIP COLLISION AND GROUNDING		02257-049
M/V WORLD MOBILITY/SS PENN GETTY COLLISION	29 DEC 78	02270-020
TANKER WACO SCEPTRE STRUCK LOADING FACILITY	9 FEB 78	02271-017
SHIP ACCIDENT, PERUVIAN FREIGHTER/EUTANE BARGE	30 AUG 79	02344-037

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(IMPACT)SHOCK.....INPUT.....TRANSPORTATION.....OTHER.....
SEVERITIES OF TRANSPORTATION ACCIDENTS VOL 1 SUMMARY A1630-034

(IMPACT)SHOCK.....RESPONSE.....HANDLING.....OTHER.....
MAXIMUM DRDPS, PACKAGES IN TRANSIT 01608-008

(IMPACT)SHOCK.....RESPONSE.....TRANSPORTATION.....AIRCRAFT.....
SHOCK SPECTRA, STAGED A/C CRASH TESTS 01669-036
SURVEY OF A/C CRASH SURVIVABILITY, CARGO AT A/C CG 01671-008
A/C CRASH, B707, BOSTON, 3 NOV 1973 01843-046
FULL SCALE CRASH TEST OF A CH-47C HELICOPTER 02024-040
MIDAIR COLLISION 727/CESSNA 172 SAN DIEGO CA 25 SEP 78 02263-074
AIRCRAFT ACCIDENT, NORD 262, MOHAWK/FRANKS 298 FEB 79 02284-031
AIRCRAFT ACCIDENT, NORD 262, SANTA MONICA, CA 10 MAR 79 02285-031

(IMPACT)SHOCK.....RESPONSE.....TRANSPORTATION.....AUTOMOBILE.....
CARGO RESPONSE TRUCK AND RAIL ACCIDENTS 01638-004
TRANSPORT ACCIDENTS OF RAM 1948 TO 1965-UNITED KINGDOM 01689-022
TRUCK ACCIDENT-FLORIDA-8/8/71 01695-006
TRUCK ACCIDENTS INVESTIGATED IN THE STATE OF UTAH 1972 01875-037
TRUCK ACCIDENTS, SUMMIT COUNTY, UTAH 25 MAY 74 01876-006
TRUCK ACCIDENTS, ROLLOVER, COLLISION, SALT LAKE CITY 01877-007
TRUCK ACCIDENTS, GREATER SALT LAKE CITY 01878-015
TRUCK ACCIDENTS INVESTIGATED IN THE STATE OF NY 1974 01879-012
TRUCK ACCIDENTS INVESTIGATED BY CALSPAN 01880-021
TRUCK ACCIDENTS INVESTIGATED BY CALSPAN 1974 01881-027
ACCIDENTS, CANADA, RAM CONTAINERS 01888-026
AUTO COLLISION W/AND COLLAPSE OF BRIDGE, SILOAM, NC 01952-027
TRUCK ACCIDENT, EXPLOSION/FIRE, EAGLE PASS, TEXAS 01953-021
SCHOOLBUS/AUTO COLLISION/ROLLOVER, ASHLAND, OREGON 01954-034
COLLISION OF TRUCK AND BUS, NEAR HAMILTON, GA JUN 1975 01955-018
COLLISION OF WINNEBAGO MOTOR HOME W/BRIDGE 1 JUL 1975 01956-030
COLLISION OF TRUCK AND CAR, LOVINGTON, NM 3 JAN 1976 01957-012
CAR COLLISION, FRONT-TO-FRONT IMPACT TEST AT 60 MPH 01958-134
GASOLINE TRUCK ACCIDENT, SEATTLE, WA 4 DEC 1975 01966-002
TRACTOR TRAILER/CAR/SCHOOL BUS, REAR END, ROLLOVER 01967-010
CAR BUS ACCIDENT, OVERLAND PARK, KANSAS 7 OCT 1975 01968-009
STATION WAGON/TRAIN ACCIDENT, BALTIMORE, MD DEC 1975 01969-012
TRACTOR TRAILER, REAR END AND ROLLOVER NY 1 JUL 1975 01970-009
TRUCK ACCIDENT, TIRE BLEW OUT, IMPACT, NY 21 JUN 1975 01971-009
STATION WAGON/SCHOOL BUS, HEAD ON, HAMBURG, NY SEP 1975 01972-009
TRUCK/SCHOOL BUS/TRAIN ACCIDENT, ARKANSAS 11 SEP 1975 01973-010
TRACTOR TRAILER, FRONT TO SIDE IMPACT FEB 1975 01974-011
TRUCK CAR ACCIDENT INTERSECTION, BALTIMORE, MD FEB 1975 01975-011
CAR/PCLE/TRAIN SIDESWIPE IMPACT, LOS ANGELES 25 SEP 1975 01976-008
TRUCK CAR ACCIDENT, REAR END, SAN DIEGO FREEWAY JAN 1976 01977-009
TRUCK ACCIDENT, COLLISION LEFT ROADWAY WASHINGTON DC 02007-014

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.....SMOCK.....RESPONSE....TRANSPORTATION.....AUTOMOBILE.....

TRUCK/VAN/AUTO ACCIDENT LEXINGTON VA	20 AUG 1976	02013-014
TRUCK,FRONT CORNER IMPACT,CONCORD, NY	27 NOV 1973	02030-011
CAR/TRACTOR-TRAILER UNDERRIDE COLLISION	13 DEC 1974	02033-008
TRUCK CAR ACCIDENT PACIFIC COAST HIGHWAY	17 JUN 1975	02039-008
WHITE FREIGHTLINER ACCIDENT VENTURA FREEWAY	JUN 1975	02040-007
TRUCK TRAILER ROLLOVER, POOR BRAKES, VERN.,CA	JUN 1975	02041-007
TANKTRUCK ACCIDENT, HELIUM FUEL LEAKAGE	JUL 1975	02043-008
JACKKNIFING TRAILER FORCED TRACTOR INTO BRIDGE	JUL 1975	02044-007
TRUCK TRAILER ACCIDENT, CARGO SHIFT, ROLLOVER	AUG 1975	02045-007
CAR/TRAIN, GRADE CROSSING, DES MOINES, IOWA	SEE DB 2085	02087-000
TRACTOR TRAILER COLLIDED WITH CAR BAXTER,CA	11 MAR 77	02092-013
TRACTOR/CARGO TANK TRAILER ACCIDENT, CHERRY HILL,NJ		02094-010
TANKTRUCK/RAIL GRADE CROSSING ACCIDENT	SEE DB 2095	02096-000
SCHOOL BUS TRAIN GRADE CROSSING ACCIDENT	SEE DB 2098	02097-000
TRUCK ACCIDENT, CANADA, GASOLINE FIRE AND OTHER HM		02108-013
TRACTOR-SEMITRAILER COLLISION MULTIPLE VEHICLES	AUG 76	02112-026
MINI MOTOR HOME/CAR ACCIDENT MCALESTER,OK	14 JUL 77	02115-028
TRUCK ACCIDENT, PENETRATED BRIDGE RAIL RELEASED HM CG		02116-020
TANKTRUCK RAIL CROSSING ACCIDENT	SEE DB2118 10 MAR 75	02119-000
TRUCK RAIL CROSSING ACCIDENT	SEE DB 2203 27 JAN 76	02204-000
TRACTOR TRAILER REAR-END COLLISION, NC	27 APR 78	02234-016
TRUCK ACCIDENT, HEAD-ON WITH VAN, SCPIO, UT	26 AUG 77	02246-037
TRUCK CAR ACCIDENT, LANE CHANGE, ST LOUIS,MO	25 SEP 77	02249-021
STATIONWAGON PENETRATION OF BRIDGERAIL 110	11 NOV 78	02264-020
TRUCK, FIXED OBJECT COLLISION, CROFTON, MD	23 APR 79	02281-020
MULTIPLE VEHICLE COLLISION/FIRE, WILLOWICK,OH	6 MAY 79	02282-025
TRUCK ACCIDENT, SPEEDING, NEAR BETHESDA, MD	14 MAR 78	02296-014
TRUCK ACCIDENT, SIDESWIPE, NEAR LARAMIE WY	22 AUG 79	02312-030
DODGE VAN COLLIDED W/FARM VEHICLE, DELTA, UT	12 SEP 79	02333-027
AUTO ACCIDENT, COLLIDED HEAD-ON, INDIANA, PA	22 SEP 79	02334-022
TRUCK/SCHOOL BUS ACCIDENT, CA STATE RT 86	23 APR 80	02375-037

(IMPACT)

.....SMOCK.....RESPONSE....TRANSPORTATION.....RAILROAD.....

CARGO RESPONSE TRUCK AND RAIL ACCIDENTS	SEE EDB1686	01699-000
RAIL ACCIDENT,ONEONTA,NY	12 FEB, 1974	01890-024
RAIL ACCIDENT,MUSTANG,OK,	1SEPT,1974	01892-019
RAIL ACCIDENT, HEAD-IN, EL MONTE, CA	2 APR 1973	01925-007
RAIL ACCIDENT, HEAD-ON, LUFKIN, TEXAS	18 NOV 1973	01926-005
RAIL ACCIDENT, HEAD-ON, COBDEN, ILLINOIS	2 DEC 1973	01927-006
RAIL ACCIDENT, HEAD-ON, PLAINVIEW, TEXAS	15 DEC 1973	01928-005
RAIL ACCIDENT, HEAD-ON, ST LOUIS,MISSOURI	22 JUN 1974	01929-007
RAIL ACCIDENT, HEAD-ON, MEMPHIS, TEN	24 JAN 1975	01930-005
RAIL ACCIDENT, SIDE-ON, EARLS, TEXAS	29 NOV 1974	01931-005
RAIL ACCIDENT, OPEN SWITCH, WINDHAM, OHIO	22 NOV 1973	01932-004
RAIL ACCIDENT, RAKING, LAKE JUNCTION, NJ	17 JUN 1974	01933-007
RAIL ACCIDENT, REAR END, HURRICANE, ALASKA	5 JUL 1975	01945-024
RAIL ACCIDENT, REAR END, LEETONIA, OHIO	6 JUN 1975	01946-028
RAIL ACCIDENT, REAR END, DUPO, ILLINOIS	3 JAN 1975	01947-008

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.....SMOCK.....RESPONSE.....TRANSPORTATION.....RAILROAD.....

RAIL ACCIDENT, GRADE CROSSING, DEL MAR, CA	27 FEB 1974	01948-006
RAIL ACCIDENT, BROKEN RAIL, THOMPSONTOWN, PA	DEC 1974	01949-004
RAIL ACCIDENT, GRADE CROSSING, TRACY, CA	9 MAR 1975	01950-029
RAIL ACCIDENT, GRADE CROSSING, ELWOOD, IL	19 NOV 1975	01951-024
RAIL ACCIDENT, UNPROTECTED GRADE CROSSING	7 FEB 1976	02010-011
RAIL ACCIDENT, DERAILMENT JARRATT VA	5 MAY 1976	02011-026
RAIL ACCIDENT, HEAD-ON 2 TRAINS PETTISVILLE OH		02012-015
AUTOMATED WHEEL-ON-THE-GROUND DERAILMENT DETECTION SYS		02017-011
BIRMINGHAM DERAILMENT, TRACK GAGE WIDENS	16 JAN 1977	02023-003
RAIL CROSSING ACCIDENT WITH TANK TRUCK SEE EDB2028		02029-000
CAR/TRAIN-FRONT TO SIDE IMPACT UNPROTECTED CROSSING		02032-009
SCHOOL BUS-TRAIN COLLISION STRATTON, NE	8 AUG 1976	02034-011
RAIL ACCIDENT, GRADE CROSSING, DES MOINES, IOWA		02085-022
RAIL ACCIDENT, GRADE CROSSING, MARLAND, OK	15 DEC 76	02095-016
RAIL CROSSING ACCIDENT WITH SCHOOL BUS LAFAYETTE, OR		02098-017
TRAIN ACCIDENT, RAIL FAILURE, RELEASED ANHYDROUS AMMON		02109-023
TRAIN DERAILMENT, FIRES AND EXPLOSION, BELT, MONTANA		02110-019
RAIL CROSSING ACCIDENT W/TANKTRUCK THAYER, MS	10 MAR 7	02118-007
TRAIN ACCIDENT, COLLISION W/RAIL MAIN, AZ	16 MAR 75	02120-009
RAIL ACCIDENT, REAR-END BLACK ROCK, NY	15 JUN 75	02121-007
RAIL ACCIDENT, REAR-END NEW YORK CITY, NY	29 JUL 75	02122-008
RAIL DERAILMENT, FIRE, EXPLOSION FERTILE, MN	22 OCT 75	02123-009
RAIL ACCIDENT, HEAD-ON COAHOMA, MS	23 NOV 75	02124-006
RAIL ACCIDENT, HEAD-ON, 2 TRAINS, NEW HAVEN IN	OCT 76	02142-019
RAIL ACCIDENT, DERAILMENT GOODMAN MS AMTRAK	30 JUN 76	02143-020
RAIL ACCIDENT, REAR-END BROOKLYN JUNCTION WV	27 JAN 76	02194-008
RAIL ACCIDENT, REAR-END SANBORN NY	27 JAN 76	02195-009
RAIL ACCIDENT, DERAILMENT WARD AR	3 FEB 76	02196-011
RAIL ACCIDENT, REAR-END TRACK CAR DINGLE ID	1 MAR 76	02197-009
RAIL ACCIDENT, REAR-END BLAIRSVILLE PA	7 APR 76	02199-007
RAIL ACCIDENT, AMTRAK DERAILMENT CHICAGO IL	18 OCT 76	02202-007
RAIL ACCIDENT, GRADE CROSSING GOLDEN MS	27 JAN 76	02203-011
RAIL ACCIDENT, DERAILMENT, LEWISVILLE, AR	29 MAR 78	02230-023
RAIL ACCIDENT, GRADE CROSSING, PLANT CITY, FL	2 OCT 77	02231-026
RAIL ACCIDENT, HEAD-ON, FLORENCE, AL	18 SEP 78	02233-034
RAIL ACCIDENT, DERAILMENT NEAR LEVIS, WI	15 AUG 77	02243-009
RAIL ACCIDENT, DERAILMENT, MANDR, PA	19 FEB 77	02245-008
RAIL ACCIDENT, DERAILMENT, ELMA VA	3 DEC 78	02265-026
RAIL ACCIDENT, REAR END, MADRAS OR	15 JAN 78	02267-009
RAIL ACCIDENT, DERAILMENT, WASHINGTON DC	15 FEB 78	02268-008
RAIL ACCIDENT, DERAILMENT, SUMMIT CA	6 MAR 78	02269-007
RAIL ACCIDENT, HEAD-END, IDAHO FALLS ID	21 JUN 78	02273-010
RAIL ACCIDENT, HEAD-END, FT MADISON IA	24 JUN 78	02274-008
RAIL ACCIDENT, AMTRAK DERAILMENT, LOHMAN MT	28 MAR 79	02276-017
RAIL ACCIDENT, SUBWAY DERAILMENT, NYC NY	12 DEC 78	02277-034
RAIL ACCIDENT, REAR-END, CONRAIL, MUNCY PA	31 JAN 79	02280-021
RAIL ACCIDENT, DERAILMENT, RAMSEY, WY	29 MAR 79	02283-030
RAIL ACCIDENT, HEAD-ON/DERAILMENT EDISON NJ	20 APR 79	02290-027
RAIL ACCIDENT, COLLISION/DERAILMENT, AMTRAK	6 APR 78	02293-009

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.....SHOCK.....RESPONSE.....TRANSPORTATION.....RAILROAD.....

RAIL ACCIDENT, HEAD-END, ST JOSEPH, TN	6 JUL 78	02294-010
RAIL ACCIDENT, DERAILMENT, GRANITE, WY	31 JUL 79	02304-026
RAIL ACCIDENT, REAR-END, GORHAM IL	17 MAY 78	02308-012
RAIL ACCIDENT, COLLISION WITH WORK CRANE, WY	28 AUG 78	02309-009
RAIL ACCIDENT, COLLISION W/ON-TRACK TAMPER, SD	7 SEP 78	02310-010
RAIL ACCIDENT, SIDE COLLISION, HELCA KS	5 OCT 78	02311-013
RAIL ACCIDENT, DERAILMENT, COLLINSVILLE, IL	6 AUG 78	02329-010
RAIL ACCIDENT, COLLISION/DERAILMENT, ALMA, WI	28 AUG 78	02330-012
RAIL ACCIDENT, DERAILMENT, MCINTOSH, GA	11 FEB 79	02331-006
RAIL ACCIDENT, COLLISION, HARVEY, IL	12 OCT 79	02335-034
RAIL ACCIDENT, REAR-END COLLISION, ANGORA, PA	16 OCT 79	02339-037
RAIL ACCIDENT, DERAILMENT, LAWRENCE, KA	2 OCT 79	02343-059
RAIL ACCIDENT, DERAILMENT, GLACIER PARK, MT	14 MAR 80	02367-034
RAIL ACCIDENT, HEAD-END COLLISION, ANGORA, NE	16 FEB 80	02368-028
RAIL ACCIDENT, HEAD-ON, LAKEVIEW, NC	2 APR 80	02369-024
RAIL ACCIDENT, HEAD-ON, ORLEANS ROAD, WV	12 FEB 80	02370-028
RAIL ACCIDENT, DERAILMENT, HAYWARD, CA	9 APR 80	02371-035
RAIL ACCIDENT, DERAILMENT, MIAMISBURG, OH	10 SEP 78	02372-006
RAIL ACCIDENT, PROTRUDING RAIL, LINDEN, NJ	9 JUL 80	02405-026

(IMPACT)

.....SHOCK.....RESPONSE.....TRANSPORTATION.....SHIP.....

SS BALNE COLLIDED W/TANKSHIP SS KEYTRADER	18 JAN 74	02126-002
M/V WORLD MOBILITY/SS PENN GETTY COLLISION	29 DEC 78	02270-020
TANKER ANCO SCEPTRE STRUCK LOADING FACILITY	9 FEB 78	02271-017
SHIP ACCIDENT, PERUVIAN FREIGHTER/BUTANE BARGE	30 AUG 79	02344-037

.....TEMPERATURE.....INPUT.....GENERAL.....OTHER.....

TYPHOON REPORT - PACIFIC OCEAN - 1959	01802-199
TYPHOON REPORT - PACIFIC OCEAN - 1960	01803-227
TYPHOON REPORT - PACIFIC OCEAN - 1961	01804-256
TYPHOON REPORT - PACIFIC OCEAN - 1962	01805-306
TYPHOON REPORT - PACIFIC OCEAN - 1963	01806-211
TYPHOON REPORT - PACIFIC OCEAN - 1965	01807-255

.....TEMPERATURE.....INPUT.....TRANSPORTATION.....AIRCRAFT.....

CRASH RESISTANT FLAMMABLE FLUIDS SYSTEM UH-1A COPTER	02001-165
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(FIRE)

.....TEMPERATURE.....INPUT.....GENERAL.....AIRCRAFT.....

AIRCRAFT ACCIDENTS INVOLVING FIRES 1963-1974 ANALYSIS	01940-144
AIRCRAFT ACCIDENTS INVOLVING FIRES 1965-1974 SPECIAL	02135-061

(FIRE)

.....TEMPERATURE.....INPUT.....GENERAL.....RAILROAD.....

FREIGHT TRAIN ACCIDENTS, NUMBER OF CARS INVOLVED	01729-013
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(FIRE)TEMPERATURE.....INPUT.....GENERAL.....OTHER.....

FIRES, LIQUID HYDROCARBON FUEL, HEAT TRANSFER IN	00517-022
BURNING CONDITIONS OF PETROLEUM LIQUIDS	00518-001
FIRE EXPOSURE TESTS POLYETHYLENE/55 GAL STEEL DRUMS	02190-145
LIQUID-PROPELLANT ROCKET ABORT FIRE MODEL	02314-004
SKIN BURNS RESULTING FROM EXPOSURE TO CHEMICAL FIREBALLS	02318-020

(FIRE)TEMPERATURE.....INPUT.....TRANSPORTATION.....AIRCRAFT.....

SEVERITIES TRAN ACCIDENT VOL 2 CARGO AIRCRAFT SEE 1630	A1662-106
CIVIL AVIATION ACCIDENT DATA - 1962 TO 1972	01664-018
FIRE INFORMATION AIRCRAFT ACCIDENTS	01674-135
A/C ACCIDENT MARTIN 404 OCT 1970	01677-005
A/C ACCIDENT CONVAIR 580 DEC 1968	01678-005
A/C ACCIDENT DOUGLAS C54D APRIL 1970	01680-005
A/C ACCIDENT 747 12 SEPT 1970	01685-005
A/C ACCIDENT DC8 63F SEPT 1970	01686-005
AIRCRAFT ACCIDENT - BOEING 707 - 1/16/74	01810-031
AIRCRAFT ACCIDENT - DC 8 - 6/20/73	01821-014
A/C CRASH, B707, BOSTON, 3 NOV 1973	01843-046
AIRCRAFT ACCIDENT, BOEING 727-225 24 JUN 75	02152-059
AIRCRAFT ACCIDENT, CONVAIR VT-29D (CV-340) 09 JAN 75	02153-031
AIRCRAFT ACCIDENT, DC-8 63F 8 SEP 70	02159-038
AIRCRAFT ACCIDENT, DC-8 63F 27 NOV 70	02160-048
AIRCRAFT ACCIDENT, DC-9 31 11 SEP 74	02161-040
FIRE SAFETY EVALUATION OF AIRCRAFT CARGO COMPARTMENT	02186-056
WIDAIR COLLISION 727/CESSNA 172 SAN DIEGO CA 25 SEP 78	02263-074

(FIRE)TEMPERATURE.....INPUT.....TRANSPORTATION.....AUTOMOBILE.....

SEVERITIES TRAN ACCIDENT VOL 3 MOTOR CARRIER SEE A1630	A1663-111
SEVERITIES TRAN ACCIDENTS INVOLVING LARGE PACKAGES	A2130-160
FIRE TEMPERATURES-TRUCK	00520-001
ACCIDENT REPORT, TRUCK - VENTURA, CALIFORNIA, 8-18-71	01659-006
TRUCK ACCIDENT-VIRGINIA 4/13/72	01692-003
TRUCK ACCIDENT-PENN-9/5/71	01693-003
TRUCK ACCIDENT-TENN-5/13/72	01697-003
TRUCK ACCIDENT REPORTS, NHTSA, NO. 8	01754-245
HYDROGEN TRANSPORT AND HANDLING EXPLOSION	01758-041
TRUCK ACCIDENT - VIRGINIA - 4/13/72	01784-003
TRUCK ACCIDENT - TEXAS - 3/7/73	01785-003
TRUCK ACCIDENT - MASSACHUSETTS - 10/18/73	01788-003
ACCIDENTS, CANADA, RAM CONTAINERS	01888-026
VEHICLE EXPLOSION W/SUBSEQUENT FIRE NY 23 APR 75	01898-010
TRUCK ACCIDENT, EXPLOSION/FIRE, EAGLE PASS, TEXAS	01953-021
COLLISION OF WINNEBAGO MOTOR HOME W/BRIDGE 1 JUL 1975	01956-030
TRUCK FIRE-ACCIDENT DATA - 1969	01950-018
TRUCK FIRE-ACCIDENT DATA - 1971	01961-021
TRUCK CAR ACCIDENT, BALTIMORE, MD, ON INTERSTATE	01964-012
GASOLINE TRUCK ACCIDENT, SEATTLE, WA 4 DEC 1975	01966-002

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.....TEMPERATURE.....INPUT.....TRANSPORTATION.....,AUTOMOBILE.....

TRUCK ACCIDENT, TRI-STATE FIG, GILA BEND AZ	02006-012
MOTOR HOME TOWING PASSENGER CAR, FIRE, RURAL FEB 1975	02035-007
MOTOR HOME, RAN-OFF ROADWAY, IMPACT, FIRE, EXPLOSION 1975	02037-012
TRACTOR-TRAILER/CAR SIDESWIPE RURAL KY AUG 1973	02038-009
TRUCK CAR ACCIDENT, LANE CHANGE, LOS ANGELES JUN 1975	02042-008
TRUCK ACCIDENT, PROPANE, OVERTURN AND FIRE 9 MAR 1972	02078-028
TRACTOR/CARGO TANK TRAILER ACCIDENT, CHERRY HILL, NJ	02094-010
TANKTRUCK/RAIL GRADE CROSSING ACCIDENT SEE DB 2095	02096-000
TRUCK ACCIDENT, CANADA, GASOLINE FIRE AND OTHER HM	02108-013
TRACTOR-SEMITRAILER COLLISION MULTIPLE VEHICLES AUG 76	02112-026
TANKTRUCK RAIL CROSSING ACCIDENT SEE DB2118 10 MAR 75	02119-000
TRUCK ACCIDENT, GASOLINE FIRE, BEATTYVILLE KY 09/24/77	02168-028
RISK ASSESSMENT OF TRANSPORT OF LPG	02177-091
MULTIPLE VEHICLE COLLISION/FIRE, WILLOWICK, OH 6 MAY 79	02282-025
THERMAL HAZARD FROM TANK TRUCK ACCIDENTS SEE EDB 2315	02320-000
EXPANSION OF CLOUDS FROM PRESSURIZED LIQUIDS SEE EDB 2316	02321-000
AUTO ACCIDENT, COLLIDED HEAD-ON, INDIANA, PA 22 SEP 79	02334-022
AUTO ACCIDENT, HEAD-ON, PERRY, OK 23 FEB 80	02373-027
TRUCK ACCIDENT, COLLISION/FIRE, LA, CA 3 MAR 80	02374-030
TANKTRUCK/RAIL GRADE CROSSING SEE EDB 2413	02414-000
MULTIPLE-VEHICLE ACCIDENT AND FIRE INTERSTATE 15 10 NOV 80	02415-038
MULTIPLE-VEHICLE ACCIDENT AND FIRE, FROSTBURG, MD 18 FEB 81	02416-032
MULTIPLE-VEHICLE ACCIDENT AND FIRE, INTERSTATE 95 20 APR 81	02418-025

(FIRE)

.....TEMPERATURE.....INPUT.....TRANSPORTATION.....,RAILROAD.....

SEVERITIES TRAN ACCIDENT VOL 4 TRAIN SEE A1630	A1986-081
SEVERITIES RAIL ACCIDENTS LARGE PACKAGES SEE DB A2130	A2131-000
FIRE TEMPERATURES-RAIL	00519-001
RAIL ACCIDENT TANK CAR RUPTURE, FIRE	01675-072
TRANSPORT ACCIDENTS OF RAM 1948-1945 SEE EDB 1689	01700-000
RAIL ACCIDENT, COTULLA, TEXAS - 12/1/73	01701-002
RAIL ACCIDENT, INDIO, CALIFORNIA - 6/25/73	01702-002
RAIL ACCIDENT, SALEM, ILLINOIS - 6/10/71	01703-003
RAIL ACCIDENT, MAGUIN, ILLINOIS - 5/24/72	01704-002
RAIL ACCIDENT, TAFT, LOUISIANA - 2/21/73	01705-012
RAIL ACCIDENT, EAST ST LOUIS, ILLINOIS - 1/22/72	01706-005
RAIL ACCIDENT, HOUSTON, TEXAS - 10/19/71	01708-019
RAIL ACCIDENT, HERNDON, PENNSYLVANIA - 3/12/72	01709-005
RAIL ACCIDENT, DECATUR, ILL 19 JULY, 1974	01889-023
RAIL ACCIDENT, ONEONTA, NY 12 FEB, 1974	01890-024
RAIL ACCIDENT, BENSON, AR 24 MAY, 1973	01891-031
RAIL ACCIDENT, MUSTANG, OK, 1 SEPT, 1974	01892-019
TRAIN DERAILMENT CARRYING 2 CONTAINERS OF RAM	02049-003
RAIL ACCIDENT, GRADE CROSSING, MARLAND, OK 15 DEC 76	02095-016
TRAIN DERAILMENT, FIRES AND EXPLOSION, BELT, MONTANA	02110-019
RAIL CROSSING ACCIDENT W/TANKTRUCK THAYER, MS 10 MAR 7	02118-007
RAIL DERAILMENT, FIRE, EXPLOSION FERTILE, MN 22 OCT 75	02123-009
RAIL ACCIDENT, DERAILMENT GOLDONNA LA 28 DEC 77	02147-027

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(FIRE)

.....TEMPERATURE.....INPUT.....TRANSPORTATION.....RAILROAD.....

RAIL ACCIDENT, DERAILMENT/FIRE CALVERT TX	30 MAR 76	02198-010
RAIL ACCIDENT, DERAILMENT CLIFFORD MI	18 OCT 76	02201-006
TRAIN DERAILMENT, URANIUM CYLINDERS, ROCKINGHAM, NC	77	02221-004
RAIL ACCIDENT, DERAILMENT, LEWISVILLE, AR	29 MAR 78	02230-023
RAIL ACCIDENT, DERAILMENT, WAVERLY, TN	22 FEB 78	02232-020
RAIL ACCIDENT, DERAILMENT, ELMA VA	3 DEC 78	02265-026
RAIL ACCIDENT, DERAILMENT, SUMMIT CA	6 MAR 78	02269-007
RAIL ACCIDENT, TRANSBAY TUBE FIRE, OAKLAND/SF	17 JAN 79	02278-060
RAIL ACCIDENT, DERAILMENT, CRESTVIEW FL	8 APR 79	02289-060
RAIL ACCIDENT, HEAD-ON/DERAILMENT EDISON NJ	20 APR 79	02290-027
RAIL ACCIDENT, HEAD-END, ST JOSEPH, TN	6 JUL 78	02294-010
THERMAL HAZARD FROM PROPANE FIREBALLS		02315-038
EXPANSION OF CLOUDS FROM PRESSURIZED LIQUIDS		02316-013
RAIL ACCIDENT, DERAILMENT, COLLINSVILLE, IL	6 AUG 78	02329-010
RAIL ACCIDENT, DERAILMENT, HAYWARD, CA	9 APR 80	02371-035
RAIL ACCIDENT, DERAILMENT, MULDRUGH, KY	26 JUL 80	02406-035
RAIL ACCIDENT, SIDE COLLISION, WELCH, WV	6 SEP 80	02407-031
RAIL ACCIDENT, HEAD-ON, GERMANTOWN, MD	9 FEB 81	02412-032
RAIL ACCIDENT, GRADE CROSSING, KENNER, LA	25 NOV 80	02413-033

(FIRE)

.....TEMPERATURE.....INPUT.....TRANSPORTATION.....SHIP.....

HAZ ENV EXPERIENCED BY RAM PACKAGES TRANSPORTED BY WATER	A2365-080
FIRE TEMPERATURES-SHIP	00521-001
TANKSHIP ACCIDENT, PENETRATION/GAS FIRE IN CARGO TANKS	02048-002
SS BAUNE COLLIDED W/TANKSHIP SS KEYTRADER	18 JAN 74
EXPLOSION FIRE ENGULFED THE M/T ELIAS, UNLOADING	APR 74
RISK ASSESSMENT OF TRANSPORT OF LNG	SEE EDB 2177
SHIP ACCIDENT, PERUVIAN FREIGHTER/BUTANE BARGE	30 AUG 79
EXPLOSION/FIRE ONBOARD THE SS CHEVRON HAWAII	1 SEP 80

(FIRE)

.....TEMPERATURE.....INPUT.....TRANSPORTATION.....OTHER.....

SEVERITIES OF TRANSPORTATION ACCIDENTS VOL 1 SUMMARY	A1630-034
NATURAL GAS PIPELINE EXPLOSION AND FIRE	24 OCT 78
THERMAL HAZARD FROM LNG FIREBALLS	02317-021
THERMAL HAZARD FROM HYDROGEN FIREBALLS	02319-015

(FIRE)

.....TEMPERATURE.....RESPONSE.....TRANSPORTATION.....AIRCRAFT.....

A/C CRASH, B707, BOSTON,	3 NOV 1973	01843-046
MIDAIR COLLISION 727/CESSNA 172	SAN DIEGO CA	25 SEP 78

(FIRE)

.....TEMPERATURE.....RESPONSE.....TRANSPORTATION.....AUTOMOBILE.....

CARGO RESPONSE TRUCK AND RAIL ACCIDENTS	01688-004	
TRANSPORT ACCIDENTS OF RAM 1948 TO 1965-UNITED KINGDOM	01689-022	
ACCIDENTS, CANADA, RAM CONTAINERS	01888-026	
VEHICLE EXPLOSION W/SUBSEQUENT FIRE NY	23 APR 75	01898-010

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(FIRE)

.....TEMPERATURE.....RESPONSE.....TRANSPORTATION.....,AUTOMOBILE.....

TRUCK ACCIDENT, EXPLOSION/FIRE, EAGLE PASS, TEXAS	01953-021
COLLISION OF WINNEBAGO MOTOR HOME W/BRIDGE 1 JUL 1975	01956-030
TRUCK CAR ACCIDENT, BALTIMORE, MD, ON INTERSTATE	01964-012
GASOLINE TRUCK ACCIDENT, SEATTLE, WA 4 DEC 1975	01966-002
TRUCK ACCIDENT, TRI-STATE RIG, GILA BEND AZ	02006-012
MOTOR HOME TOWING PASSENGER CAR, FIRE, RURAL FEB 1975	02035-007
MOTOR HOME, RAN-OFF ROADWAY, IMPACT, FIRE, EXPLOSION 1975	02037-012
TRACTOR-TRAILER/CAR SIDESWIPE RURAL KY AUG 1973	02038-009
TRUCK CAR ACCIDENT, LANE CHANGE, LOS ANGELES JUN 1975	02042-008
TRUCK ACCIDENT, PROPANE, OVERTURN AND FIRE 9 MAR 1972	02078-028
TRACTOR/CARGO TANK TRAILER ACCIDENT, CHERRY HILL, NJ	02094-010
TANKTRUCK/RAIL GRADE CROSSING ACCIDENT SEE DB 2095	02096-000
TRUCK ACCIDENT, CANADA, GASOLINE FIRE AND OTHER HM	02108-013
TRACTOR-SEMITRAILER COLLISION MULTIPLE VEHICLES AUG 76	02112-026
TANKTRUCK RAIL CROSSING ACCIDENT SEE DB2118 10 MAR 75	02119-000
TRUCK ACCIDENT, GASOLINE FIRE, BEATTYVILLE KY 09/24/77	02168-028
MULTIPLE VEHICLE COLLISION/FIRE, WILLOWICK, OH 6 MAY 79	02232-025
AUTO ACCIDENT, COLLIDED HEAD-ON, INDIANA, PA 22 SEP 79	02334-022
AUTO ACCIDENT, HEAD-ON, PERRY, OK 23 FEB 80	02373-027
TRUCK ACCIDENT, COLLISION/FIRE, LA, CA 3 MAR 80	02374-030
TANKTRUCK/RAIL GRADE CROSSING SEE EDB 2413	02414-000
MULTIPLE-VEHICLE ACCIDENT AND FIRE INTERSTATE 15 10 NOV 80	02415-038
MULTIPLE-VEHICLE ACCIDENT AND FIRE, FROSTBURG, MD 18 FEB 81	02416-032
MULTIPLE-VEHICLE ACCIDENT AND FIRE, INTERSTATE 95 20 APR 81	02418-025

(FIRE)

.....TEMPERATURE.....RESPONSE.....TRANSPORTATION.....RAILROAD.....

CARGO RESPONSE TRUCK AND RAIL ACCIDENTS SEE EDB1688	01699-000
RAIL ACCIDENT, DECATUR, ILL 19 JULY, 1974	01869-023
RAIL ACCIDENT, ONEONTA, NY 12 FEB, 1974	01890-024
RAIL ACCIDENT, BENSON, AR 24 MAY, 1973	01891-031
RAIL ACCIDENT, MUSTANG, OK, 1 SEPT, 1974	01892-019
TRAIN DERAILMENT CARRYING 2 CONTAINERS OF RAM	02049-003
RAIL ACCIDENT, GRADE CROSSING, MARLAND, OK 15 DEC 76	02095-016
TRAIN DERAILMENT, FIRES AND EXPLOSION, BELT, MONTANA	02110-019
RAIL CROSSING ACCIDENT W/TANKTRUCK THAYER, MS 10 MAR 7	02118-007
RAIL DERAILMENT, FIRE, EXPLOSION FERTILE, MN 22 OCT 75	02123-009
RAIL ACCIDENT, DERAILMENT GOLDONNA LA 28 DEC 77	02147-027
RAIL ACCIDENT, DERAILMENT/FIRE CALVERT TX 30 MAR 76	02198-010
RAIL ACCIDENT, DERAILMENT CLIFFORD MI 18 OCT 76	02201-006
TRAIN DERAILMENT, URANIUM CYLINDERS, ROCKINGHAM, NC 77	02221-004
RAIL ACCIDENT, DERAILMENT, LEWISVILLE, AR 29 MAR 78	02230-023
RAIL ACCIDENT, DERAILMENT, WAVERLY, TN 22 FEB 78	02232-020
RAIL ACCIDENT, DERAILMENT, ELMA VA 3 DEC 78	02265-026
RAIL ACCIDENT, DERAILMENT, SUMMIT CA 6 MAR 78	02269-007
RAIL ACCIDENT, TRANSBAY TUBE FIRE, OAKLAND/SF 17 JAN 79	02278-060
RAIL ACCIDENT, DERAILMENT, CRESTVIEW FL 8 APR 79	02289-060
RAIL ACCIDENT, HEAD-ON/DERAILMENT EDISON NJ 20 APR 79	02290-027
RAIL ACCIDENT, HEAD-END, ST JOSEPH, TN 6 JUL 78	02294-010

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(FIRE)TEMPERATURE.....RESPONSE....TRANSPORTATION.....RAILROAD.....

RAIL ACCIDENT, DERAILMENT, COLLINSVILLE, IL	6 AUG 78	02329-010
RAIL ACCIDENT, DERAILMENT, HAYWARD, CA	9 APR 80	02371-035
RAIL ACCIDENT, DERAILMENT, MULDRUGH, KY	26 JUL 80	02406-035
RAIL ACCIDENT, SIDE COLLISION, WELCH, WV	6 SEP 80	02407-031
RAIL ACCIDENT, HEAD-ON, GERMANTOWN, MD	9 FEB 81	02412-032
RAIL ACCIDENT, GRADE CROSSING, KENNER, LA	25 NOV 80	02413-033

(FIRE)TEMPERATURE.....RESPONSE....TRANSPORTATION.....SHIP.....

TANKSHIP ACCIDENT, PENETRATION/GAS FIRE IN CARGO TANKS		02048-032
SS BALNE COLLIDED W/TANKSHIP SS KEYTRADER	18 JAN 74	02126-002
EXPLOSION FIRE ENGULFED THE M/T ELIAS, UNLOADING APR 74		02127-005
SHIP ACCIDENT, PERUVIAN FREIGHTER/BUTANE BARGE	30 AUG 79	02344-037

(FIRE)TEMPERATURE.....RESPONSE....TRANSPORTATION.....OTHER.....

NATURAL GAS PIPELINE EXPLOSION AND FIRE	24 OCT 78	02295-003
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.....VIBRATION.....INPUT....TRANSPORTATION.....AIRCRAFT.....

AIRCRAFT ACCIDENT, DH-114	11 JUL 75	02163-032
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.....WIND.....INPUT.....GENERAL.....AIRCRAFT.....

STRENGTH OF OCCUPANT RESTRAINT SYSTEMS IN LIGHT AIRCRAFT		02383-043
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.....WIND.....INPUT.....GENERAL.....OTHER.....

TROPICAL CYCLONES		01856-177
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.....WIND.....INPUT....TRANSPORTATION.....AIRCRAFT.....

HELICOPTER DOWNWASH DATA		01760-049
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.....WIND.....RESPONSE.....GENERAL.....AIRCRAFT.....

STRENGTH OF OCCUPANT RESTRAINT SYSTEMS IN LIGHT AIRCRAFT		02383-043
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(STORM)WIND.....INPUT.....GENERAL.....OTHER.....

TORNADOS, FREQUENCY AND LOCATION - UNITED STATES		01541-021
WIND AND WAVE HEIGHTS - TROPICAL STORMS		01636-028
TYPHOON REPORT - PACIFIC OCEAN - 1959		01802-199
TYPHOON REPORT - PACIFIC OCEAN - 1960		01803-227
TYPHOON REPORT - PACIFIC OCEAN - 1961		01804-256
TYPHOON REPORT - PACIFIC OCEAN - 1962		01805-306
TYPHOON REPORT - PACIFIC OCEAN - 1963		01806-211
TYPHOON REPORT - PACIFIC OCEAN - 1965		01807-255
TYPHOON REPORT - PACIFIC OCEAN - 1966		01808-261
TYPHOON REPORT - PACIFIC OCEAN - 1967		01809-272
TYPHOON REPORT - PACIFIC OCEAN - 1968		01810-329

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(STORM)WIND.....INPUT.....GENERAL.....OTHER.....

TYPHOON REPORT - PACIFIC OCEAN - 1969		01811-172
TYPHOON REPORT - PACIFIC OCEAN - 1970		01812-235
TYPHOON REPORT - PACIFIC OCEAN - 1974		01813-253

(STORM)WIND.....INPUT....TRANSPORTATION.....AIRCRAFT.....

AIRCRAFT ACCIDENT, BOEING 727-224	7 AUG 75	02155-047
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