

NUREG-0525
Rev. 17

Safeguards Summary Event List (SSEL)

U.S. Nuclear Regulatory Commission

Office of Nuclear Material Safety and Safeguards



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Safeguards Summary Event List (SSEL)

Pre-NRC Through December 31, 1990

This document was prepared in response to inquiries concerning the nature of safeguards-related events involving NRC licensees and licensed material.

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International Safeguards Branch
Division of Safeguards and Transportation
Office of Nuclear Material Safety and Safeguards
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REVISION 17

The attached pages are the latest supplement (Revision 17) to NUREG-C525, Safeguards Summary Event List (SSEL).^{*} Revision 17 summarizes events occurring between January 1, 1990 and December 31, 1990. Events are reported in a new format to facilitate usage of the data.

Events which involve only source material, byproduct material, or natural uranium which are not safeguarded under NRC regulations are not included, except for a few events included in the Miscellaneous category because of public interest. Information on events involving nonsafeguarded material is available in NUREG-1272 published annually by the Nuclear Regulatory Commission.

Events which involve alcohol and drugs, formerly reported in Category IX, have been dropped from the Safeguards Summary Event List commencing with this revision, and the statistics presented reflect this change. Information on drug and alcohol events is contained in Information Notice 91-10, Fitness for Duty in the Nuclear Power Industry, published on February 12, 1991, which provides a summary of semiannual program performance reports for the period January 3 through June 30, 1990.

Page changes are as follows:

	Insert New Pages	Remove Superseded Pages
Romb Threat	IB-137 through IB-141	IB-137
Missing/Allegedly Stolen	III-13 through III-18	III-13 through III-16
Transportation-Related	IV-5 through IV-6	IV-5
Tampering/Vandalism	V-29 through V-32	V-29 through 30
Firearms-Related	VII-53 through VII-80	VII-53 through VII-54
Radiological Sabotage	VIIIA-1	VIIIA-1
Nonradiological Sabotage	VIIIB-1	VIIIB-1
Miscellaneous	X-35 through X-43	X-35 through X-36
Appendix A - Statistics	A-1 through A-19	A-1 through A-22
Index - SSEL Events Pre-NRC through 1990	Index - 1 through 38	None

^{*}The baseline Safeguards Summary Event List is Revision 4 (published September 1981) which includes all reported events up through June 30, 1981, Revision 5 (published July 1982), Revision 6 (published February 1983), Revision 7 (published August 1983), Revision 8 (published March 1984), Revision 9 (published June 1984), Revision 10 (published May 1985), Revision 11 (published January 1986), Revision 12 (published February 1987), Revision 13 (published July 1987), Revision 14 (published July 1988), Revision 15 (published July 1989), and Revision 16 (published July 1990) include events occurring from 1957 through 1989.

12/31/90

ABSTRACT

The Safeguards Summary Event List (SSEL) provides brief summaries of several hundred safeguards-related events involving nuclear material or facilities regulated by the U.S. Nuclear Regulatory Commission (NRC). Because of public interest, the Miscellaneous category includes a few events which involve either source material, byproduct material, or natural uranium which are exempt from safeguards requirements. Events are described under the categories of bomb-related, intrusion, missing and/or allegedly stolen, transportation, tampering/vandalism, arson, firearms, radiological sabotage, nonradiological sabotage, pre-1990 alcohol and drugs (involving reactor operators, security force members, or management persons), and miscellaneous. The information contained in the event descriptions is derived primarily from official NRC reporting channels.

12/31/90

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INTRODUCTION

The Safeguards Summary Event List (SSEL) provides brief summaries of several hundred safeguards-related events involving nuclear materials or facilities regulated by the U.S. Nuclear Regulatory Commission (NRC). Because of public interest, the Miscellaneous category includes a few events which involve either byproduct material, source material, or natural uranium which are exempt from safeguards requirements. As the list is intended to provide a broad perspective on the nature of safeguards incidents in the licensed nuclear industry, both unusual and routine events are described. Events have been placed in the several categories described below. Each listing is included in a single category unless it is transportation-related, in which case it is cross-referenced in the Transportation section.

The first category, Bomb-Related Events, is concerned with explosives or incendiary devices and related threats. This category has been divided into two sections. Section A contains those events in which a bomb or explosive material was located or an explosion occurred at a licensed facility. Section B contains a chronology of all other bomb-related (e.g., hoax bomb threat) events. Intrusion Events (the second category) includes incidents of attempted or actual penetration of a facility's barriers or safeguards systems. The Missing or Allegedly Stolen section (the third category) includes events in which safeguarded material was stolen, alleged to be stolen, discovered missing, or found. Category IV, Transportation-Related Events, typically includes incidents where safeguarded material was misrouted or involved in an accident. Material reported missing or stolen during transport, for example, would be included in Category III and cross-referenced in the transportation category. Tampering/Vandalism (the fifth category) includes destruction or attempted destruction of property, parts and equipment which do not directly cause a radioactive release. Category VI, Arson, includes intentional acts involving incendiary materials resulting in damage to property, equipment or other assets. The seventh category, Firearms-Related Events, typically describes the discharge, discovery, or loss of firearms at a licensed facility. Radiological Sabotage, Category VIIIA, includes any deliberate act directed against a safeguarded activity which could endanger the public health and safety by exposure to radiation. Nonradiological Sabotage, Category VIIIB, includes events characterized by the FBI as sabotage but which could not endanger the public health and safety by exposure to radiation. Pre-1990 Alcohol and Drugs, Category IX, includes reasonable suspicion of illegal sale, use, possession, or introduction of a controlled substance and alcohol-related events involving reactor operators, security force members or management persons. Finally, Miscellaneous Events, Category X, are those which hold some interest to safeguards and the public but which do not fit into any of the previously described categories.

Each event listed in the body of the report is identified by an alphanumeric code composed of the appropriate category roman numeral, the last two digits of the year in which the event occurred, and a sequential number for that specific year and category. Each incident listing includes the appropriate date and location and a brief description of the event. Descriptions vary in detail according to the amount of data available through NRC reporting channels.



IB-89-26 Date: 12/26/89 Site: Byron
 Commonwealth Edison Company
 Ogle County, IL

 Quad Cities
 Commonwealth Edison Company
 Rock Island County, IL

Plant Status: Byron, Units 1 and 2, Operational; Quad Cities, Units 1 and 2, Operational. Fuel present at site.

Source: Public Broadcast System, Rockford, Illinois

Event: Bomb threat. Hoax. At 1:30 p.m., a Public Broadcast System in Rockford, Illinois, received a call from an individual who expressed frustration about utility rates and said that the station might want to announce that all utility plants would be blown up.

Action: Station personnel notified the utility who, in turn, notified the Byron and Quad Cities facilities. Byron and Quad Cities initiated additional security measures. The FBI and local law enforcement departments were notified of the threat.

Resolution: The licensee determined the threat was noncredible.

IB-90-01 Date: 02/20/90 Site: Seabrook
 Public Service Company of New Hampshire
 Rockingham County, NH

Plant Status: Operational. Fuel present at site.

Source: Seabrook Town Official

Event: Bomb threat. Hoax. A Seabrook town official notified the licensee of a telephonic bomb threat against the facility.

Action: Security vigilance at the facility was increased for 48 hours.

Resolution: The licensee could not substantiate the threat.

IB-90-02 Date: 05/04/90 Site: LaSalle
 Commonwealth Edison Company
 LaSalle County, IL

Plant Status: Unit 1, Operational; Unit 2, Shutdown. Fuel present at site.

Source: NRC Inspector

Event: Bomb threat. Hoax. Shortly after 5 a.m., the NRC Resident Inspector found the following threat message on his answering machine: "Yo, we got a bomb set up for 1050 apartments tonight. Thank you. Ten p.m. Thank you. Bye."

Action: The licensee was notified. Security at the facility was

heightened.

Resolution: The licensee determined the threat was noncredible. It was concluded that the individual was a young person, probably in his teens, and that the call came in on a direct outside line.

IB-90-03 Date: 05/17/90 Site: Seabrook
Public Service Company of New Hampshire
Rockingham County, NH

Plant Status: Operational. Fuel present at site.

Source: Boston Radio Station

Event: Bomb threat. Hoax. A Boston radio station notified the Boston Police of a telephonic bomb threat from an individual who claimed that sticks of dynamite had been placed at various locations around the Boston area, including Route 2, near the Seabrook station.

Action: The Boston Police notified the Seabrook Police who called the facility.

Resolution: The licensee determined the threat was noncredible.

IB-90-04 Date: 05/21/90 Site: Maine Yankee
Maine Yankee Atomic Power Company
Lincoln County, ME

Plant Status: Shutdown. Fuel present at site.

Source: Licensee

Event: Bomb threat. Hoax. At 7:11 p.m., a bomb threat was received on an Information Center answering machine.

Action: Security at the facility was heightened.

Resolution: The licensee determined the threat was noncredible.

IB-90-05 Date: 06/18/90 Site: Seabrook
Public Service Company of New Hampshire
Rockingham County, NH

Plant Status: Operational. Fuel present at site.

Source: New Hampshire State Police

Event: Bomb threat. Hoax. At 7:55 p.m., the New Hampshire State Police notified the licensee of a bomb threat received by a professional psychic whose patient told him he had enough dynamite to blow up the Seabrook Station. The psychic provided a description of the individual and his vehicle.

Action: The information was provided to the Boston FBI. As a

precautionary measure, all site security force personnel were alerted.

Resolution: The licensee determined the threat was noncredible.

IB-90-06 Date: 07/17/90 Site: Seabrook
Public Service Company of New Hampshire
Rockingham County, NH

Plant Status: Operational. Fuel present at site.

Source: New England Telephone Operator

Event: Bomb threat. Hoax. At 2:06 a.m., the Seabrook Police Department notified the licensee that a New England Telephone operator had received a bomb threat against Seabrook.

Action: The security force and operations personnel were notified of the unsubstantiated threat and, as a precautionary measure, increased security vigilance.

Resolution: The licensee and police determined the threat was noncredible.

IB-90-07 Date: 08/29/90 Site: Maine Yankee
Maine Yankee Atomic Power Company
Lincoln County, ME

Plant Status: Operational. Fuel present at site.

Source: Licensee's Corporate Office

Event: Bomb threat. Hoax. At 3:40 p.m., an unsubstantiated bomb threat was received at the corporate office.

Action: The facility, the Maine State Police, the Augusta Police, and the FBI were notified. No further action was taken due to the vagueness of the threat.

Resolution: The licensee and the police determined the threat was noncredible.

IB-90-08 Date: 09/13/90 Site: Comanche Peak
Texas Utilities Generating Company
Somervell County, TX

Plant Status: Operational. Fuel present at site.

Source: Licensee

Event: Bomb threat. Hoax. A bomb threat against the Maintenance Building was received.

Action: The building was evacuated, and a search was conducted with negative results.

Resolution: The licensee determined the threat was noncredible.

IB-90-09 Date: 09/26/90 Site: River Bend
Gulf States Utilities Company
West Feliciana Parish, LA

Plant Status: Operational. Fuel present at site.

Source: Licensee

Event: Bomb threat. Hoax. A bomb threat was received at the central alarm station.

Action: A search was conducted with negative results.

Resolution: The licensee determined the threat was unsubstantiated and noncredible.

IB-90-10 Date: 10/22/90 Site: Nuclear Power Plants
GA

Plant Status: Hatch: Units 1 and 2, Operational. Fuel present at site.
Vogtle: Unit 1, Operational; Unit 2, Shutdown. Fuel present at site.

Source: Dekalb County Sheriff's Office, Decatur, Georgia

Event: Bomb threat. Hoax. An anonymous female telephoned the Dekalb County Sheriff's office at the Courthouse in Decatur, Georgia, on October 22, 1990, and provided a partially unintelligible message regarding an alleged kidnapping that occurred at Stone Mountain, Georgia, on an unspecified date. The brief message was "covered" by the Sheriff's Department radio traffic, making the name of the alleged victim undistinguishable. The caller stated that if the unknown victim was not returned to Stone Mountain, "they would ignite" a nuclear power plant in Georgia. The nuclear power plant to be targeted was not specified (two NRC licensed facilities in Georgia are Hatch and Vogtle).

Action: The FBI was notified.

Resolution: The Sheriff's Department believes the "kidnapped" individual may refer to someone incarcerated in the Stone Mountain Correctional Facility, a medium security State penitentiary located in Stone Mountain, Georgia. The FBI plans no further action.

IB-90-11 Date: 12/25/90 Site: Vermont Yankee
Vermont Yankee Nuclear Power Corporation
Windham County, VT

Plant Status: Operational. Fuel present at site.

Source: Governor-elect of Vermont

Event: Bomb threat. Hoax. At 5:40 p.m., the Governor-elect of Vermont

received a telephone call from a male who stated that the Iraqi government was going to blow up the Vermont Yankee nuclear power plant.

Action: State and local police notified the licensee who increased security at the facility. Other nuclear plants in the Yankee system were also notified.

Resolution: The licensee and police determined the threat was noncredible.

According to the licensee, Arco was requested to forward the special packaging and instructions to the mortuary for return of the pacemaker. The funeral director retained the pacemaker in a cabinet in the embalming room. In late August or early September 1986, not having received the package from Arco or the hospital, he disposed of the pacemaker in the normal trash.

Action: On October 20, 1988, the Commission issued a Notice of Violation and Proposed Imposition of Civil Penalty in the amount of \$2,500 for failure to recover and return a nuclear pacemaker to the manufacturer upon the death of a patient.

Resolution: The licensee paid the penalty on November 11, 1988.

III-86-01 Date: 01/13/86 Site: State of Alabama

Source: Alabama Air National Guard

Event: A plutonium check source set (approximately 2 microcuries) was found in a surplus safe purchased by the Alabama Air National Guard from a Federal surplus property depot located in Alabama.

Action: The sources were placed in the possession of the Alabama Bureau of Radiological Health at Montgomery, Alabama.

Resolution: The agency responsible for these sources was determined to be NASA.

III-86-02 Date: 07/02/86 Site: Perry
Cleveland Electric Illuminating Company
Lake County, OH

Source: Licensee

Event: On June 13, 1986, the licensee discovered that a source range monitor detector was missing. It contained .00291 grams of uranium, including .002705 grams of uranium-235 (5.85×10^{-9} curies uranium-235). The detector had been found to be defective and had been removed from the reactor core on April 20, 1986, before initial criticality. The detector had not been irradiated and did not pose an external exposure concern.

Action: After an extensive search for the detector, the licensee notified Region III of the loss.

Resolution: The licensee believed that the detector had been inadvertently discarded into the trash.

III-86-03 Date: 10/17/86 Site: Browns Ferry
 06/08/90 Tennessee Valley Authority
 Limestone County, AL

Source: Licensee

Event: On October 17, 1986, five fission counters (also known as fuel loading chambers), each containing two grams of special nuclear material (SNM), were reported unaccounted for. In addition, during 1987, 19 in-core detectors of various types containing SNM material were reported unaccounted for. On November 4, 1989, eight of the missing in-core detectors were found in the high radiation drum storage area of the Radwaste Evaporator Building in three five-gallon buckets, one small polyethylene bag, and one large polyethylene bag. Eleven in-core detectors were still unaccounted for. As a result of the discovery, the licensee conducted a special inventory and consolidation of SNM bearing containers in the Radwaste Evaporator Building. On November 25, 1989, the licensee reported that six SNM items were detected missing from their designated perpetual inventory location, raising the number of in-core detectors unaccounted for to 17. On November 26, 1989, the licensee reported six additional SNM items were unaccounted for. The same day, the licensee reported two SNM detectors out of the six previously reported missing were found as a result of a more thorough search of their respective containers, reducing the number of missing in-core detectors to 21. On November 27, the licensee reported that two more in-core detectors were detected missing from the designated perpetual inventory location, raising the number to 23 missing. On January 31, 1990, the licensee reported that two local power range monitors, not previously identified, were in the Unit 3 fuel pool. They also found one local power range monitor previously identified as special nuclear material when it should not have been identified as such. The SNM content of the various in-core detectors is as follows:

Traveling In-core Probe Detectors (TIPs) = .001 gram each
 Source Range Monitor Detectors (SRMs) = .003 gram each
 Intermediate Range Monitor Detectors (IRMs) = .001 gram each
 Local Power Range Monitors (LPRM) = .002 gram each

Action: The licensee took corrective actions to ensure an accurate and maintainable SNM inventory control program; improve the training of personnel involved in the search and inventory of SNM; and provide greater management oversight of SNM inventory activities.

Resolution: On June 8, 1990, the licensee paid a \$18,750 civil penalty for failure to conduct an annual inventory of licensed material.

111-86-04 Date: 10/24/86 Site: Sequoyah
 Tennessee Valley Authority
 Hamilton County, TN

Source: Licensee

Event: Tennessee Valley Authority (TVA) notified Region II that it could not determine the exact location of 11 of 23 in-core detectors which had been withdrawn from the core and placed with radioactive waste at Sequoyah since 1980. The detectors each contained 4 milligrams of high enriched uranium.

Action: The licensee conducted a search with negative results.

Resolution: TVA believed the detectors were in the on-site radioactive waste area.

111-87-01 Date: 01/23/87 Site: Indian Point 1, 2
 Consolidated Edison Company
 Westchester County, NY

Source: Licensor

Event: The licensee inventory of special nuclear material (SNM) accounted for all SNM except four fission chambers. Two fission chambers were for Unit 1 and contained 1.5 grams of U-235 each. Two were for Unit 2 and contained 5 grams of U-235 each. The previous inventory of September 10, 1986, did not identify any missing SNM.

Action: The licensee conducted a search for the fission chambers.

Resolution: Search results were negative.

111-87-02 Date: 04/01/87 Site: St. Francis Hospital
 Evanston, IL

Source: Licensee

Event: Two pacemakers removed from patients in 1980 were not returned to the vendor and have not been located. The two missing pacemakers are each powered by 2.5 curies of plutonium-238 as a sealed source.

Action: A search was conducted with negative results.

Resolution: The missing pacemakers are presumed to be buried in a sanitary landfill.

III-87-03 Date: 06/02/87 Site: University of Michigan
 Radiation Control Service
 1101 North University Building
 Ann Arbor, MI

Source: Licensee

Event: A nuclear pacemaker containing 250 milligrams of plutonium-238 was removed from a patient in June 1978 and has not been located. The radiation staff was not made aware of the removal until June 2, 1987.

Action: The licensee conducted a search of the facility, interviewed personnel involved with the 1978 removal of the device, reviewed records, and contacted the manufacturer of the pacemaker who would normally receive the used pacemaker for disposal.

Resolution: Search results were negative.

III-87-04 Date: 07/16/87 Site: U.S. Air Force
 Wright Patterson Air Force Base
 Columbus, OH

Source: Licensee

Event: During a sealed source inventory, a 100 millicurie plutonium-beryllium source, believed to be in storage, could not be located. The source was stored in a shielded can, approximately one gallon in size.

Action: A records check and search for the source were conducted with negative results.

Resolution: The Air Force suspected that the source may have been returned to the Department of Energy.

III-88-01 Date: 07/15/88 Site: Big Rock Point
 Consumers Power Company
 Charlevoix County, MI

Source: Licensee

Event: A fission chamber containing 2 grams of special nuclear material was discovered missing when the licensee was performing an audit of SNM records. The curie content was calculated to be 4 microcuries of U-235 and .05 microcurie of U-238.

Action: A search was conducted with negative results.

Resolution: It was speculated that the fission chamber was discarded during a general cleanup of the reactor deck in 1985 and sent to a disposal facility for burial.

- III-88-02 Date: 08/15/88 Site: Washington Hospital Center
Washington, D. C.
- Source: Licensee
- Event: On August 15, 1988, during a routine patient follow-up, a licensee representative learned of the death of the patient and a missing Coratomic Model C-101 pacemaker containing 250 milligrams of plutonium-238. The pacemaker had been explanted from the deceased patient by the attending funeral home in Florida on May 27, 1988, and mailed to the patient's cardiologist in Washington, D. C., the week of June 13, 1988. The cardiologist's office, adjoining the Washington Hospital Center, boxed the device and sent it to the cardiology department of the Washington Hospital Center by inter-office mail the week of June 20, 1988.
- Action: The licensee conducted surveys and interviewed personnel in an effort to locate the device with negative results.
- Resolution: It was determined the source is not a health and safety hazard.
-
- III-89-01 Date: 02/11/89 Site: Nine Mile Point
Niagara Mohawk Power Corporation
Oswego County, NY
- Source: Licensee
- Event: During a physical audit of special nuclear material at Unit 1, five fission chamber detectors containing a total of 8.4 milligrams of U-235 were unaccounted for and presumed lost.
- Action: A search was conducted with negative results.
- Resolution: It is believed that the detectors were disposed of as regular radwaste.
-
- III-89-02 Date: 02/21/89 Site: Babcock and Wilcox Company
Naval Nuclear Fuel Division
Lynchburg, VA
- Source: Licensee
- Event: The licensee informed NRC Region II by written report that the inventory difference for the physical inventory period ending December 31, 1988, was an accounting loss which exceeded the calculated limit of error.
- Action: The licensee conducted an investigation.
- Resolution: The licensee's investigation attributed the accounting loss to inaccurate measurements of material input to the scrap recovery facility. These suspect measurements were performed prior to the current inventory period and, in some cases, as long ago as 15 years.

III-89-03Date: 11/02/89 Site: Mercy Hospital
IA

Source: Licensee

Event: The licensee reported that a deceased patient wearing a
plutonium pacemaker was cremated.Action: The Iowa Department of Public Health performed surveys and wipe
tests of the mortuary where the patient was cremated. The
surveys did not indicate the presence of plutonium at the
facility.Resolution: It is believed the pacemaker was disposed of in a sanitary
landfill.

having a suspended driver's license. The licensee stated that the driver had presented a valid license when he reported to the site to pick up the shipment.

V-89-07 Date: 07/24/89 Site: Clinton
 Illinois Power Company
 DeWitt County, IL

Plant Status: Shutdown. Fuel present at site.

Source: Licensee

Event: Holes were punched in the radiators of two vehicles parked in the owner-controlled area in the vicinity of two picketing security officers. The vehicles were used for transporting contractor security contingency force personnel from their motel to the facility.

Action: The DeWitt County Sheriff's Department was notified and conducted an investigation.

Resolution: The vandalism was outside the protected area. The investigation results were inconclusive.

V-89-08 Date: 07/29/89- Site: Clinton
 07/30/89 Illinois Power Company
 Dewitt County, IL

Plant Status: Operational. Fuel present at site.

Source: Licensee

Event: During the 29th week of a guard strike, a number of low-level acts of vandalism and harassment against nonunion people and others who returned to work occurred at an owner-controlled access gate designated for security force access. Glass bottles were found broken on the roadway used by security force members to enter/exit the site; wood putty was found in the gate padlock; minor damage was done to an automobile windshield; and two tires were deflated.

Action: The licensee kept the NRC regional office informed of the strike-related activities.

Resolution: These acts were external to the protected area.

V-89-09 Date: 08/29/89 Site: Peach Bottom
 Philadelphia Electric Company
 York County, PA

Plant Status: Plant status: Unit 2, Operational; Unit 3, Under Construction (winding down). Fuel present at site.

Source: Licensee

Event: Inspection of the Unit 2 and Unit 3 480V and 4KV breakers, both installed and in storage, determined that 12 of the 40 breakers were damaged by an act of malicious vandalism. The licensee concluded that the cuts occurred when the breakers were in

storage (all had been stored together) sometime between 2 p.m., August 27, 1989, and 10 p.m., August 28, 1989.

Action: The licensee conducted an investigation.

Resolution: The investigation results were inconclusive.

V-89-10 Date: 10/06/89 Site: Zion
Commonwealth Edison Company
Lake County, IL

Plant Status: Unit 1, Shutdown; Unit 2, Operating. Fuel present at site.

Source: Licensee

Event: Examination of a printed circuit board used in the testing of the pressure circuitry for a steam generator level transmitter revealed the plastic base of the board had been cut with a pair of wire cutters. The circuit board, used to test transmitters in Unit 1 containment during the previous several days, was left unprotected overnight on an open tool cart.

Action: The licensee conducted an investigation.

Resolution: The investigation concluded that the circuit board was cut by an unknown person for an unknown reason. Personnel were instructed to secure parts when unattended.

V-89-11 Date: 10/10/89 Site: Vogtle
Georgia Power Company
Burke County, GA

Plant Status: Units 1 and 2, Operational. Fuel present at site.

Source: Licensee

Event: The licensee reported that a communications equipment cabinet was damaged by vandalism.

Action: The licensee's investigation determined that someone had pried the hinges off the cabinet containing telephone equipment.

Resolution: The investigation determined no equipment was missing. No suspect was identified.

V-89-12 Date: 10/16/89 Site: Shoreham
Long Island Lighting Company
Suffolk County, NY

Plant status: Operational. Fuel present at site.

Source: Licensee

Event: At 8:46 a.m., a fire protection water deluge system actuation was received causing minor flooding of the reactor building

lower level. No equipment damage occurred.

Action: The licensee conducted an investigation.

Resolution: The investigation found no fire and attributed the actuation to an unauthorized local manual action. The investigation was closed without resolution.

V-89-13 Date: 10/26/89 Site: Point Beach
Wisconsin Electric Power Company
Manitowoc County, WI

Plant Status: Operational. Fuel present at site.

Source: Licensee

Event: The licensee reported that a nuclear wipe was taped to a vital area door to prevent the door from fully closing.

Action: The licensee conducted an investigation.

Resolution: The investigation determined the act to be premeditated; however, neither the motive nor the specific individual responsible for the act could be established. The licensee concluded this to be an isolated incident.

V-90-01 Date: 04/25/90 Site: Hatch
LER 502 Georgia Power Company
Appling County, GA

Plant Status: Unit 1, Shutdown; Unit 2, Operational. Fuel present at site.

Source: Licensee

Event: While Unit 1 was in the refueling mode and reassembly of the reactor pressure vessel was in progress, a chisel was discovered in the oil fill line of the high-pressure coolant injection system booster pump. The position of the chisel in the oil fill was such that had the pump been operated, failure of the pump may have resulted.

Action: The chisel was removed, and the pump shaft and radial bearing were inspected with no damage found.

Resolution: The licensee concluded the cause of the event was tampering, but a thorough investigation by corporate security did not identify the individual(s) responsible for the incident.

briefcase. The contractor stated he did not realize his gun was in the briefcase.

Resolution: He was barred from the site and arrested by the local police for unlicensed, criminal possession of a loaded firearm.

VII-89-55 Date: 11/11/89 Site: St. Lucie
Florida Power and Light Company
St. Lucie County, FL

Plant Status: Units 1 and 2, Operational. Fuel present at site.

Source: Licensee

Event: A .38-caliber handgun was found in a contractor employee's bag during routine site entry search.

Action: The weapon was held by security, and the individual was allowed access.

Resolution: The licensee's investigation determined no malevolent intent.

VII-89-56 Date: 11/27/89 Site: Ft. St. Vrain
Public Service Company of Colorado
Weld County, CO

Plant Status: Shutdown. Fuel present at site.

Source: Licensee

Event: An armed security officer stated she removed her pistol from its holster while in the rest room.

Action: The officer herself reported the incident.

Resolution: The individual was relieved of duty.

VII-89-57 Date: 12/04/89 Site: Ft. Calhoun
Omaha Public Power District
Washington County, NE

Plant Status: Operational. Fuel present at site.

Source: Licensee

Event: A 12-gauge shotgun shell was discovered within the protected area by a contract janitorial service employee while emptying a trash container in the third floor men's rest room of the service building.

Action: Security force personnel were notified and took possession of the shell.

Resolution: The licensee conducted a search and found no other contraband.

VII-90-10 Date: 02/14/90 Site: Palo Verde
Arizona Public Service Company
Maricopa County, AZ

Plant Status: Unit 1, Shutdown, Unit 2 and 3, Operational. Fuel present at site.

Source: Licensee

Event: Seventeen rounds of 9-millimeter ammunition (in a clip) were discovered on a visitor during patdown protected area entry search.

Action: The clip was confiscated, and no other contraband was found. The visitor was detained and questioned.

Resolution: The licensee determined there was no malevolent intent. However, the individual was denied access.

VII-90-11 Date: 02/15/90 Site: Turkey Point
Florida Power and Light Company
Dade County, FL

Plant Status: Unit 3, Shutdown; Unit 4, Operational. Fuel present at site.

Source: Licensee

Event: A loaded .357 magnum handgun was found in the lunch box of a contract construction employee during site entry search.

Action: The employee was denied access. His employer imposed a two-week work suspension without pay as a disciplinary measure.

Resolution: The individual stated that he forgot to remove the weapon prior to entry. There was no malevolent intent. The employee's access was restored.

VII-90-12 Date: 02/17/90 Site: Brunswick
Carolina Power and Light Company
Brunswick County, NC

Plant Status: Unit 1, Operational; Unit 2, Shutdown. Fuel present at site.

Source: Licensee

Event: X-ray detected a loaded .32-caliber revolver in a health physics contract employee's handbag during protected area entry search.

Action: The weapon was confiscated, and the employee was detained for questioning.

Resolution: The employee explained that she had placed the weapon in her handbag for protection the previous evening after her car broke down and she was forced to walk in the rural area where she lived. She forgot to remove the firearm before reporting for

live shell into the firing chamber of the shotgun. When he returned the weapon to its storage rack in the vehicle, he pulled the trigger and the weapon discharged.

Action: The guard was suspended pending an investigation.

Resolution: His employment was terminated.

VII-90-16 Date: 02/22/90 Site: Turkey Point
Florida Power and Light Company
Dade County, FL

Plant Status: Unit 3, Shutdown; Unit 4, Operational. Fuel present at site.

Source: Licensee

Event: A loaded .38-caliber handgun was found in a utility vehicle during entry search.

Action: Entry was denied, and the individual received a temporary suspension as a disciplinary measure.

Resolution: The utility maintenance worker forgot that he had the weapon in a personal handbag. There was no malevolent intent. The employee's access was subsequently restored.

VII-90-17 Date: 02/28/90 Site: Comanche Peak
Texas Utilities Generating Company
Somervell County, TX

Plant Status: Shutdown. Fuel present at site.

Source: Licensee

Event: X-ray detected three rounds of 9-millimeter ammunition inside a utility employee's nylon field bag during protected area entry search.

Action: Entry was denied. The ammunition was removed from the primary access point.

Resolution: The licensee determined that the individual had been target shooting and forgot to remove the rounds from the bag which he used to carry his lunch to work. There was no malevolent intent.

VII-90-18 Date: 03/02/90 Site: Nine Mile Point
Niagara Mohawk Power Corporation
Oswego County, NY

Plant Status: Unit 1, Shutdown, Unit 2, Operational. Fuel present at site.

Source: Licensee

Event: Upon completion of his 8-hour shift, a member of the security force accidentally discharged one round from his assigned weapon

while turning in the gun at the Unit 1 security facility weapons locker located within the protected area. The round struck the floor and fragmented. No one sustained injury.

Action: The licensee's investigation concluded that improper handling of the weapon contributed to the accidental weapon discharge.

Resolution: The employee was requalified in weapons handling and interviewed by the utility psychologist prior to his return to duty.

VII-90-19 Date: 03/12/90 Site: Rancho Seco
Sacramento Municipal Utility District
(SMUD)
Sacramento County, CA

Plant Status: Shutdown. Fuel present at site.

Source: Licensee

Event: Two 12-gauge shotgun shells were found in the center console of a cross-country truck driver's vehicle during site entry search.

Action: The truck and driver were under continuous escort while on-site. The contraband was stored and returned to the driver when he exited the site.

Resolution: The driver stated that he used to carry a shotgun in the vehicle, but no longer transported a weapon. He forgot that the shells were still in the truck. There was no malevolent intent.

VII-90-20 Date: 03/12/90 Site: St. Lucie
Florida Power and Light Company
St. Lucie County, FL

Plant Status: Unit 1, Shutdown; Unit 2, Operational. Fuel present at site.

Source: Licensee

Event: A loaded .357-magnum revolver was detected in a contract maintenance employee's tote bag during site entry search.

Action: Access was denied. As a disciplinary measure, the maintenance worker's employer imposed a three-day work suspension.

Resolution: The licensee determined the individual traveled extensively and carried the weapon for protection. He forgot to remove the weapon from the bag before he entered the site. There was no malevolent intent.

VII-90-21 Date: 03/12/90 Site: St. Lucie
Florida Power and Light Company
St. Lucie County, FL

Plant Status: Unit 1, Shutdown; Unit 2, Operational. Fuel present at site.

Source: Licensee

Event: A loaded .22-caliber, 9-shot pistol was detected in a contract health physicist employee's tote bag during site entry search.

Action: Access was denied. As a disciplinary measure, the individual's employer imposed a three-day work suspension.

Resolution: The licensee determined the individual traveled extensively and carried the weapon for protection. She forgot to remove the weapon from the bag before she entered the site. There was no malevolent intent.

VII-90-22 Date: 03/21/90 Site: Millstone
Northeast Nuclear Energy Company
New London County, CT

Plant Status: Units 1, 2, and 3, Operational. Fuel present at site.

Source: Licensee

Event: Four 30.06-caliber rifle rounds were discovered on the dash console of a vehicle during protected area exit search.

Action: The ammunition was confiscated.

Resolution: The driver, authorized for unescorted protected area access, explained that when he entered the protected area, he discovered the bullets in his jacket pocket and placed them on the dash console, not realizing there was a problem. The licensee concluded that the introduction of ammunition into the protected area without having a weapon of the appropriate caliber to fire the ammunition did not have a significant security implication.

VII-90-23 Date: 03/22/90 Site: Comanche Peak
Texas Utilities Generating Company
Somervell County, TX

Plant Status: Shutdown. Fuel present at site.

Source: Licensee

Event: One round of .38-caliber ammunition could not be accounted for in the arms room located inside the protected area.

Action: A search was conducted with negative results.

Resolution: The licensee made all the necessary notifications of the missing ammunition and replaced the round.

VII-90-24 Date: 03/26/90 Site: Braidwood
Commonwealth Edison Company
Will County, IL

Plant Status: Unit 1, Operational; Unit 2, Shutdown. Fuel present at site.

Source: Licensee

Event: Several shotgun shells were found in a tractor trailer during vehicle entry search, after the driver had responded negatively as to the possession of contraband prior to the search. The driver was then given a written list of prohibited items and asked again if he had any prohibited articles. He indicated that his wife's purse was in the truck and perhaps contained a pistol. The unloaded pistol was confiscated. A further search revealed a loaded shotgun strapped to the bottom of the bunk bed mattress.

Action: The contraband was secured. The driver was denied entry, and another driver drove the truck in to be unloaded. The County Sheriff was called, but declined to arrest the driver because no state or local laws had been broken.

Resolution: The licensee concluded that because the driver had his wife and child with him, it was not likely his intent was malevolent.

VII-90-25 Date: 04/13/90 Site: Kewaunee
Wisconsin Public Service Corporation
Kewaunee County, WI

Plant Status: Shutdown. Fuel present at site.

Source: Licensee

Event: Undeclared drugs and an unloaded Smith & Wesson, 6" barrel, .38-caliber revolver in its carrying case were discovered during protected area vehicle entry search.

Action: The contraband was confiscated, and the vehicle was denied access. The individuals were turned over to the local law enforcement personnel.

Resolution: No malevolent intent was established.

VII-90-26 Date: 04/23/90 Site: Haddam Neck
Connecticut Yankee Atomic Power Company
Middlesex County, CT

Plant Status: Shutdown. Fuel present at site.

Source: Licensee

Event: A weathered and corroded 12-gauge double "00" shotgun shell was found in the radiation control protected area by an employee who turned the shell over to security.

Action: The licensee conducted an investigation.

Resolution: The investigation concluded that an authorized individual inadvertently carried the shell into the protected area in his/her coat pocket and dropped it while working.

VII-90-27 Date: 04/24/90 Site: Peach Bottom
Philadelphia Electric Company
York County, PA

Plant Status: Units 2 and 3, Operational. Fuel present at site.

Source: Licensee

Event: At 9:19 p.m., an unidentified white male entered the corporate claims security trailer office, located outside the protected area, northeast of the plant, and stopped inside the doorway. When questioned by a security investigator as to the purpose of his visit, the individual mumbled some scriptural or biblical sounding verse, pulled a rifle out from under his overcoat, pointed the weapon away from the investigator, and intentionally discharged the rifle towards the wall opposite the investigator. He then fled from the scene in a grey or silver, four-wheel drive "Blazer" type vehicle. It was subsequently learned that the investigator's assigned company vehicle had been vandalized.

Action: The Pennsylvania State Police were notified and dispatched a trooper to investigate.

Resolution: A search of nearby communities in both Pennsylvania and Maryland was conducted with negative results.

VII-90-28 Date: 04/30/90 Site: Seabrook
Public Service Company of New Hampshire
Rockingham County, NH

Plant Status: Shutdown. Fuel present at site.

Source: Licensee

Event: A loaded .22-caliber derringer was detected in a licensee quality assurance inspector's jacket pocket during a routine entry search.

Action: Access was denied, and the individual's protected area access was suspended.

Resolution: The individual stated that he had been shooting vermin several nights before and neglected to remove the firearm from his pocket. The employee assistance program psychologist confirmed that the attempted introduction of a weapon was unintentional. The employee was cleared to return to work after a three-day suspension.

VII-90-29 Date: 05/02/90 Site: Davis-Besse
 Toledo Edison Company
 Ottawa County, OH

Plant Status: Shutdown. Fuel present at site.

Source: Licensee

Event: X-ray detected an unloaded .25-caliber semiautomatic pistol and a loaded clip in a contract employee's purse during entry search.

Action: The contraband was confiscated, and the employee was denied access.

Resolution: NA

VII-90-30 Date: 05/05/90 Site: Combustion Engineering, Incorporated
 Windsor, CT

Plant Status: NA

Source: Licensee

Event: At 3 a.m., a watchman found an unarmed watchman on-site in critical condition with gunshot wounds to the head. A handgun and note were nearby. The wounded watchman was not associated with protecting the fuel manufacturing facility. He worked for the site guard force responsible for protecting the site perimeter. The individual brought the weapon to the site in the trunk of his car. During the lunch hour, he went to his car which was parked on company property, a wooded area behind the guard station, and shot himself.

Action: The watchman was airlifted to a local hospital where he subsequently died.

Resolution: NA

VII-90-31 Date: 05/06/90 Site: St. Lucie
 Florida Power and Light Company
 St. Lucie County, FL

Plant Status: Units 1 and 2, Operational. Fuel present at site.

Source: Licensee

Event: A security officer assigned to a patrol vehicle discovered his weapon was not in its holster when he completed his night-shift work.

Action: The officer was questioned about the routes he had covered. A search was conducted with negative results. His access was suspended pending the licensee's investigation.

Resolution: On May 11, 1990, the officer recalled that he had been to a grassy, owner-controlled area not previously mentioned. A search of the area was made, and the weapon was recovered. Examination of the weapon revealed signs of weather exposure and that it had not been fired. The same day, the officer submitted his resignation from employment.

VII-90-32 Date: 05/15/90 Site: Diablo Canyon
Pacific Gas and Electric Company
San Luis Obispo County, CA

Plant Status: Units 1 and 2, Operational. Fuel present at site.

Source: Licensee

Event: A security officer left his weapon in the rest room located in the security building within the protected area. The weapon was recovered by another security officer within 10 minutes.

Action: An inspection of the weapon showed no evidence of discharge, and all ammunition was accounted for.

Resolution: The individual was reprimanded and counseled.

VII-90-33 Date: 05/19/90 Site: Yankee-Rowe
Yankee Atomic Electric Company
Franklin County, MA

Plant Status: Operational. Fuel present at site.

Source: Licensee

Event: A 12-gauge, single barrel shotgun was found beneath numerous tools and miscellaneous items behind the seat in a contractor's truck during protected area vehicle entry search.

Action: Inspection of the weapon revealed that it was inoperable and rusted closed. The licensee's investigation revealed that the vehicle and operator had entered the protected area under armed guard earlier the same day, and the weapon was not detected at that time. The licensee suspended the employment of the two security officers responsible for the initial search.

Resolution: The driver stated he last recalled using the shotgun for hunting over a year ago and forgot it was in the vehicle. The licensee determined there was no malevolent intent.

VII-90-34 Date: 06/07/90 Site: Arkansas
Arkansas Power and Light Company
Pope County, AR

Plant Status: Units 1 and 2, Operational. Fuel present at site.

Source: Licensee

Event: An unloaded .38-caliber Smith & Wesson revolver was found during vehicle search at the sallyport.

Action: Access was denied.

Resolution: The licensee's investigation determined that the failure to declare the weapon was not intentional. No ammunition was present in the vehicle, and the driver was unaware of the weapon's presence.

VII-90-35 Date: 06/11/90 Site: Hatch
Georgia Power Company
Appling County, GA

Plant Status: Units 1 and 2, Operational. Fuel present at site.

Source: Licensee

Event: One .357-caliber cartridge was found in a vital area.

Action: A search of the area revealed no other cartridges, no items which could be used to discharge the cartridge, and no signs of attempted sabotage.

Resolution: The licensee determined this was an isolated incident, and no threat.

VII-90-36 Date: 06/12/90 Site: Pilgrim
Boston Edison Company
Plymouth County, MA

Plant Status: Operational. Fuel present at site.

Source: Licensee

Event: X-ray detected a holstered, loaded .44-caliber revolver in a utility employee's small personal carrying bag at the alternate access point prior to protected area entry.

Action: The individual's access was suspended.

Resolution: A preliminary investigation revealed that the employee had a Massachusetts license to carry firearms; therefore, he was allowed to remove the firearm from company property. Subsequent investigation supported the employee's statement that he had removed the weapon from its normal storage place at his home to show it to a family member, placed it in his bag as a temporary

measure, and then forgot to return the weapon to its normal storage location. The individual's access was restored.

VII-90-37 Date: 06/28/90 Site: Duane Arnold
Iowa Electric Light and Power Company
Linn County, IA

Plant Status: Shutdown. Fuel present at site.

Source: Licensee

Event: An unloaded .38-caliber special, Smith & Wesson handgun was detected in an employee's briefcase during entry search.

Action: The weapon was confiscated, and the employee was escorted off-site.

Resolution: The employee's unescorted access was terminated.

VII-90-38 Date: 07/12/90 Site: Comanche Peak
Texas Utilities Generating Company
Somervell County, TX

Plant Status: Operational. Fuel present at site.

Source: Licensee

Event: An unloaded .357 magnum revolver was detected during primary access entry search of a leased tractor trailer fuel truck driven by an authorized contractor employee.

Action: Access was denied.

Resolution: The individual stated he forgot he had a weapon on board. No malevolent intent was established.

VII-90-39 Date: 07/13/90 Site: Trojan
Portland General Electric Company
Columbia County, OR

Plant Status: Operational. Fuel present at site.

Source: Licensee

Event: During an interview with the utility psychologist, a contract employee stated that he had inadvertently brought a loaded .45-caliber pistol into the protected area on June 12, 1990, and that another employee had observed the weapon inside the protected area. The licensee's investigation revealed that the contract worker had a concealed weapon permit for the pistol. Interviews revealed that the individual had used the firearm at a firing range the evening of June 11, 1990, and upon completion of the firing, placed the weapon, ammunition, and holster in his briefcase and forgot about it. The worker stated he entered the site the following day with the contraband undetected in his

briefcase.

Action: The worker's unescorted access authorization was inactivated on July 13, 1990, and was permanently withdrawn on August 22, 1990.

Resolution: The licensee determined that during X-ray entry search the weapon and ammunition could have appeared on the screen as images which should have been challenged by the equipment operator. The licensee's extensive investigation could not exclusively prove that a functional firearm was actually introduced into the protected area. However, follow-up actions were taken by the licensee with the assumption of actual event occurrence.

VII-90-40 Date: 07/25/90 Site: South Texas
Houston Lighting and Power Company
Matagorda County, TX

Plant Status: Units 1 and 2, Operational. Fuel present at site.

Source: Licensee

Event: X-ray detected a 9-millimeter automatic pistol loaded with a 15-round clip of ammunition in a contractor employee's duffel bag during entry search.

Action: The licensee conducted an investigation.

Resolution: The investigation revealed that the individual had been hunting the previous weekend and forgot he had placed the weapon in the bag. The licensee determined there was no malevolent intent.

VII-90-41 Date: 07/26/90 Site: Limerick
Philadelphia Electric Company
Montgomery County, PA

Plant Status: Units 1 and 2, Operational. Fuel present at site.

Source: Licensee

Event: A loaded .22-caliber handgun was discovered in a vehicle during sallyport search.

Action: The individual was escorted out of the protected area, and the local law enforcement agency was notified. It was determined the weapon was not licensed in the State of Pennsylvania.

Resolution: The truck driver was unaware that his wife had placed the weapon in his gym bag. No malevolent intent was established.

VII-90-42 Date: 08/01/90 Site: Brunswick
 Carolina Power and Light Company
 Brunswick County, NC

Plant Status: Units 1 and 2, Operational. Fuel present at site.

Source: Licensee

Event: X-ray detected a loaded .32-caliber revolver in a utility employee's handbag during protected area entry search, and access was denied.

Action: Security retrieved the weapon, and unescorted access was restored to the individual.

Resolution: The licensee determined the individual had removed the weapon from her car when she had her vehicle inspected, placed the gun in her handbag, and forgot about it. There was no malevolent intent.

VII-90-43 Date: 08/01/90 Site: Ft. St. Vrain
 Public Service Company of Colorado
 Weld County, CO

Plant Status: Shutdown. Fuel present at site.

Source: Licensee

Event: X-ray detected a single .22-caliber round of ammunition among personal items in an individual's bag.

Action: The round was confiscated and removed from the area.

Resolution: The licensee determined there was no malevolent intent.

VII-90-44 Date: 08/21/90 Site: South Texas
 Houston Lighting and Power Company
 Matagorda County, TX

Plant Status: Units 1 and 2, Operational. Fuel present at site.

Source: Licensee

Event: At 7:15 a.m., an employee inadvertently brought thirteen rounds of .38-caliber ammunition into the protected area in his heavily packed carry-all bag. The contraband was not detected by X-ray search. At 2:15 p.m., the individual reached into the bag and discovered the contraband. He removed the ammunition from the protected area and returned it to his automobile.

Action: Security was notified.

Resolution: The licensee determined there was no malevolent intent.

VII-90-45 Date: 08/24/90 Site: St. Lucie
Florida Power and Light Company
St. Lucie County, FL

Plant Status: Units 1 and 2, Operational. Fuel present at site.

Source: Licensee

Event: Eleven shells of various types for a 12-gauge shotgun were detected in an old, dusty bag under the seat of a contractor's vehicle during site entry search.

Action: The ammunition was removed from the vehicle.

Resolution: The licensee's investigation determined there was no malevolent intent, and driver and vehicle access was granted.

VII-90-46 Date: 09/04/90 Site: Arkansas
Arkansas Power and Light Company
Pope County, AR

Plant Status: Units 1 and 2, Operational. Fuel present at site.

Source: Licensee

Event: An unloaded .22-caliber rifle was detected during protected area entry search of a rented Ryder truck brought on-site to move equipment from a building inside the protected area to a new engineering building outside the protected area.

Action: The vehicle and occupants were denied entry until a determination was made that the incident was unintentional.

Resolution: The licensee's investigation disclosed that the rifle did not belong to the occupants who had contracted for the truck, but to a local person who had previously rented the truck. The rifle was retained by security until the local individual provided proof of ownership.

VII-90-47 Date: 09/11/90 Site: River Bend
Gulf States Utilities Company
West Feliciana Parish, LA

Plant Status: Operational. Fuel present at site.

Source: Licensee

Event: A shotgun shell was found during protected area vehicle entry search.

Action: The shell was removed prior to vehicle entry.

Resolution: The licensee determined there was no malevolent intent.

VII-90-48 Date: 09/17/90 Site: Turkey Point
Florida Power and Light Company
Cade County, FL

Plant Status: Units 3 and 4, Operational. Fuel present at site.

Source: Licensee

Event: Within five minutes after an employee entered the protected area, he discovered he had ammunition in his hand-carried bag.

Action: He removed the contraband from the area and reported the event.

Resolution: The licensee determined the ammunition had not been detected by X-ray during entry search because it blended in with other material in the bag. There was no malevolent intent. The employee was counseled.

VII-90-49 Date: 09/27/90 Site: Surry
Virginia Electric Power Company
Surry County, VA

Plant Status: Units 1 and 2, Operational. Fuel present at site.

Source: Licensee

Event: X-ray detected a loaded .22-caliber revolver in a contractor employee's duffel bag during entry search.

Action: Access was denied.

Resolution: The licensee's investigation determined that the employee's wife had placed the weapon in the bag the prior evening without her husband's knowledge. There was no malevolent intent.

VII-90-50 Date: 09/28/90 Site: Beaver Valley
Duquesne Light Company
Beaver County, PA

Plant Status: Unit 1, Operational; Unit 2, Shutdown. Fuel present at site.

Source: Licensee

Event: Accidental discharge of a .38-caliber handgun occurred at the firearm loading barrel when a security officer was reloading the weapon after cleaning it. The weapon began to fall. As the individual tried to catch it, he grabbed the trigger, and the weapon discharged into an unoccupied storage area.

Action: The officer was relieved from the shift and fitness for duty tested with negative results.

Resolution: After taking his scheduled time off, the officer returned to work. Shortly thereafter, the individual failed the handgun test on his routine requalification examination and was downgraded to

an unarmed position.

VII-90-51 Date: 10/01/90 Site: St. Lucie
 Florida Power and Light Company
 St. Lucie County, FL

Plant Status: Unit 1, Operational; Unit 2, Shutdown. Fuel present at site.

Source: Licensee

Event: A loaded .38-caliber special, Smith & Wesson handgun was detected in a contractor employee's handbag during entry search.

Action: The individual's access was denied.

Resolution: The licensee's investigation determined the attempted introduction was inadvertent. The employee's access was reinstated.

VII-90-52 Date: 10/06/90 Site: Grand Gulf
 Mississippi Power and Light Company
 Claiborne County, MS

Plant Status: Units 1, Shutdown. Fuel present at site.

Source: Licensee

Event: An unloaded .38-caliber revolver was detected in a contractor employee's lunch box during entry search. There was no ammunition in the lunch box or on the person.

Action: Access was denied. The individual's employment was terminated by the contractor.

Resolution: The employee stated he had forgotten to remove the weapon before reporting for work. The licensee determined there was no malevolent intent.

VII-90-53 Date: 10/09/90 Site: Harris
 Carolina Power and Light Company
 Wake County, NC

Plant Status: Operational. Fuel present at site.

Source: Licensee

Event: Four 20-gauge shotgun shells were discovered in the sleeping compartment of a freight line cab truck during access search at the main vehicle entry gate.

Action: The ammunition was confiscated.

Resolution: The licensee determined there was no malevolent intent, and permitted vehicle and driver access with a security escort.

VII-90-57 Date: 10/22/90 Site: Arkansas
Arkansas Power and Light Company
Pope County, AR

Plant Status: Unit 1, Shutdown; Unit 2, Operational. Fuel present at site.

Source: Licensee

Event: A loaded .25-caliber automatic pistol was found during protected area vehicle entry search.

Action: The driver was denied access until the event was determined to be unintentional. The weapon was left in storage outside the protected area at the search site.

Resolution: The licensee determined there was no malevolent intent.

VII-90-58 Date: 10/24/90 Site: Susquehanna
Pennsylvania Power and Light Company
Luzerne County, PA

Plant Status: Unit 1, Shutdown; Unit 2, Operational. Fuel present at site.

Source: Licensee

Event: A box of .44-caliber magnum shells was detected during protected area vehicle entry search.

Action: The items were removed prior to entry, and a receipt issued for the material.

Resolution: NA

VII-90-59 Date: 10/25/90 Site: Ft. Calhoun
Omaha Public Power District
Washington County, NE

Plant Status: Operational. Fuel present at site.

Source: Licensee

Event: Ammunition was not declared at the site entrance, outside the protected area.

Action: An investigation was conducted.

Resolution: The licensee determined there was no malevolent intent.

VII-90-60 Date: 10/26/90 Site: River Bend
 Gulf States Utilities Company
 West Feliciana Parish, LA

Plant Status: Shutdown. Fuel present at site.

Source: Licensee

Event: One round of 30-30-caliber ammunition was found in the protected area.

Action: The ammunition was recovered by security and placed in the armory.

Resolution: NA

VII-90-61 Date: 10/26/90 Site: Turkey Point
 Florida Power and Light Company
 Dade County, FL

Plant Status: Units 3 and 4, Operational. Fuel present at site.

Source: Licensee

Event: Ammunition was found and removed from an individual's handbag during entry search.

Action The person's access was denied pending supervisory action.

Resolution: The individual received a three-day suspension without pay as a disciplinary measure.

VII-90-62 Date: 11/05/90 Site: Comanche Peak
 Texas Utilities Generating Company
 Somervell County, TX

Plant Status: Operational. Fuel present at site.

Source: Licensee

Event: A contractor employee became aware of three loose rounds of .22-caliber ammunition in his jacket while inside the protected area.

Action: A security officer observed and confiscated the items when the individual emptied his pockets going into a clear area.

Resolution: The licensee determined there was no malevolent intent. The individual was retrained.

VII-90-63 Date: 11/08/90 Site: Comanche Peak
Texas Utilities Generating Company
Somervell County, TX

Plant Status: Operational. Fuel present at site.

Source: Licensee

Event: An employee authorized unescorted access failed the metal detector twice, and a hand-held detector alarmed on a Winchester .270-caliber round in the employee's raincoat pocket.

Action: Access was denied.

Resolution: The employee forgot he had placed the round there during the deer hunting season. The licensee determined there was no malevolent intent. The individual was restrained.

VII-90-64 Date: 11/17/90 Site: Arkansas
Arkansas Power and Light Company
Pope County, AR

Plant Status: Unit 1, Shutdown; Unit 2, Operational. Fuel present at site.

Source: Licensee

Event: X-ray detected a loaded .25-caliber automatic pistol in a badged contract employee's purse during entry search.

Action: The weapon was removed from site. The individual's access was denied until a determination was made that the error was unintentional.

Resolution: The individual had carried the weapon in her purse for protection the previous evening and forgot to remove it. The licensee determined there was no malevolent intent.

VII-90-65 Date: 11/23/90 Site: Nuclear Fuel Services, Incorporated
Erwin, TN

Plant Status: NA

Source: Licensee

Event: An AR-15 rifle used by the tactical response force was found in the plant parking lot. The rifle apparently fell off or out of a guard's vehicle as he was leaving the lot. It is normal practice for members of the tactical response force to take home their weapons and other response gear in a duffle bag.

Action: The licensee conducted an investigation and identified the tactical response force member to whom the rifle belonged. Resolution: The individual received a two-day suspension and was placed on probation for ninety days as a disciplinary measure.

VII-90-66 Date: 11/27/90 Site: Point Beach
Wisconsin Electric Power Company
Manitowoc County, WI

Plant Status: Unit 1, Operational; Unit 2, Shutdown. Fuel present at site.

Source: Licensee

Event: During a guard shift change, an inadvertent discharge of an issued pistol occurred as the guard was removing the firearm from his holster and putting it into a clearing barrel. The round hit the outside of the clearing barrel in a separate security building within the protected area.

Action: The individual was relieved from duty.

Resolution: The licensee determined there were no injuries and no damage to the building.

VII-90-67 Date: 11/28/90 Site: Harris
Carolina Power and Light Company
Wake County, NC

Plant Status: Operational. Fuel present at site.

Source: Licensee

Event: X-ray detected an unloaded .38-caliber revolver in a security officer's hand-carried gear bag during access search.

Action: Access was denied. The individual was disciplined.

Resolution: The officer had been at a firing range the previous day and forgot that he had placed the weapon in the bag. The licensee determined there was no malevolent intent.

VII-90-68 Date: 12/02/90 Site: Turkey Point
Florida Power and Light Company
Dade County, FL

Plant Status: Units 3, Operational; Unit 4, Shutdown. Fuel present at site.

Source: Licensee

Event: An unloaded .45-caliber pistol was detected during site entry search.

Action: Access was denied, and an investigation was conducted.

Resolution: The investigation revealed that the weapon had been left in the bag by mistake. There was no malevolent intent.

VII-90-69 Date: 12/05/90 Site: Harris
 Carolina Power and Light Company
 Wake County, NC

Plant Status: Operational. Fuel present at site.

Source: Licensee

Event: Thirty-five rounds of .357-caliber handgun ammunition were discovered behind the seat in a contractor's truck during access search at the main vehicle entry gate to the protected area. The driver did declare two boxes (20 rounds each) of 30.06-caliber rifle ammunition.

Action: All ammunition was secured.

Resolution: The licensee determined there was no malevolent intent, and vehicle and driver access was granted with security escort.

VII-90-70 Date: 12/06/90 Site: Braidwood
 Commonwealth Edison Company
 Will County, IL

Plant Status: Units 1 and 2, Operational. Fuel present at site.

Source: Licensee

Event: An unloaded .22-caliber semiautomatic handgun was confiscated during vehicle access search.

Action: The truck driver was detained.

Resolution: An investigation determined there was no malevolent intent. Vehicle and driver access was granted with security escort.

VII-90-71 Date: 12/08/90 Site: Harris
 Carolina Power and Light Company
 Wake County, NC

Plant Status: Operational. Fuel present at site.

Source: Licensee

Event: X-ray detected a loaded .357-caliber revolver in an employee's hand-carried purse during access search.

Action: An investigation was conducted. The employee was subjected to disciplinary action.

Resolution: The licensee's investigation determined that the employee normally carried the revolver in her vehicle. The vehicle had been driven to the garage for maintenance, at which time she placed the revolver in her purse. She forgot to remove the weapon before arrival at the site. The licensee determined there

RADIOLOGICAL SABOTAGE

VIIIA 12/31/90

There have been no reported events meeting the radiological sabotage criteria.

NONRADIOLOGICAL SABOTAGE

VIIIIB-86-01 Date: 05/14/86 Site: Palo Verde
 05/15/86 Arizona Public Service Company
 10/02/90 Maricopa County, AZ

Plant Status: Unit 1 was in a maintenance outage. Unit 2 was in hot standby and Unit 3 was in a preoperational test phase. Fuel present at site.

Source: Licensee

Event: Between approximately 8:59 p.m. and 9:30 p.m., on May 14, 1986, three of four transmission lines providing electrical power to the site were sabotaged. Investigation by the licensee on May 15, 1986, revealed that the three lines had been shorted-out deliberately at remote locations more than thirty miles from the facility. The four transmission lines converge on the site from four different directions. Because of the distances, timing and actions necessary to short the lines, it was believed that more than one individual was involved in the incident.

Action: The FBI was notified and assumed jurisdiction for the incident.

Resolution: Since the location where these acts occurred and the lines involved were not subject to NRC security requirements, this event was included because of its general interest. As of October 2, 1990, the FBI closed this case.

X-89-40 Date: 11/17/89 Site: Crystal River
 Florida Power Corporation
 Citrus County, FL

Plant Status: Operational. Fuel present at site.

Source: Licensee

Event: A binder containing safeguards information was discovered to be missing from its usual storage place.

Action: A search for the missing document was conducted with negative results, and an investigation was conducted.

Resolution: One credible theory suggested during the investigation is that the document may have been inadvertently shredded. The licensee does not believe the loss of the document presents any subversive threat to the plant safety and/or security.

X-89-41 Date: 11/17/89 Site: Wolf Creek
 Kansas Gas and Electric Company
 Coffey County, KS

Plant Status: Operational. Fuel present at site.

Source: Licensee

Event: Two safeguards documents could not be accounted for.

Action: A review of copies of the documents was conducted.

Resolution: The licensee determined that the information involved would not significantly assist an individual in an act of radiological sabotage or theft of SNM.

X-89-42 Date: 11/29/89 Site: Ft. Calhoun
 Omaha Public Power District
 Washington County, NE

Plant Status: Operational. Fuel present at site.

Source: Licensee

Event: Firecrackers were found in a vehicle during protected area entry search.

Action: Entry was denied.

Resolution: NA

X-89-43 Date: 12/08/89 Site: Wolf Creek
Kansas Gas and Electric Company
Coffey County, KS

Plant Status: Operational. Fuel present at site.

Source: Licensee

Event: A safeguards document was reported missing.

Action: A review of a copy of the document was conducted.

Resolution: The licensee determined the information was obsolete and in the process of removal from the safeguards category. The information involved would not significantly assist in an act of radiological sabotage or theft of SNM.

X-89-44 Date: 12/09/89 Site: Crystal River
Florida Power Corporation
Citrus County, FL

Plant Status: Shutdown. Fuel present at site.

Source: Licensee

Event: A security officer hit another security officer several times on the head and face with his fist while in the protected area. He then left the protected area and turned in his badge and weapon.

Action: Both officers were placed on suspension.

Resolution: Subsequently, employment was suspended for one of the officers, and the other resigned.

X-89-45 Date: 12/10/89 Site: Vermont Yankee
Vermont Yankee Nuclear Power Corporation
Windham County, VT

Plant Status: Operational. Fuel present at site.

Source: Licensee

Event: The licensee reported that an individual arrested by the Maine State Police for auto theft, and under investigation by the Immigration and Naturalization Service, told officials that seven vehicles were going to enter the United States from Mexico and attack nuclear facilities. No time frame was stipulated.

Action: An FBI investigation was conducted. The FBI determined the perpetrator was mentally unstable and the threat was a hoax.

Resolution: NA

X-89-46 Date: 12/12/89 Site: Fermi
Detroit Edison Company
Monroe County, MI

Plant Status: Shutdown. Fuel present at site.

Source: Licensee

Event: The licensee reported the attempted introduction of a kitchen knife into the protected area.

Action: The knife was held by the security shift supervisor and subsequently returned to the person's vehicle.

Resolution: NA

X-89-47 Date: 12/14/89 Site: Wolf Creek
Kansas Gas and Electric Company
Coffey County, KS

Plant Status: Operational. Fuel present at site.

Source: Licensee

Event: A safeguards document could not be accounted for.

Action: A review of a copy of the document was conducted.

Resolution: The licensee determined the information could not significantly aid an individual in an act of radiological sabotage or theft of SNM.

X-90-01 Date: 01/03/90 Site: Beaver Valley
Duquesne Light Company
Beaver County, PA

Plant Status: Units 1 and 2, Operational. Fuel present at site.

Source: Licensee

Event: The licensee discovered the loss of a safeguards schedule.

Action: A search for the schedule was conducted with negative results, and an investigation was conducted.

Resolution: A credible theory suggested during the investigation is that (1) although the document was supposed to be one of two copies, only one ever existed; (2) if a second copy existed, it had been inadvertently shredded. The licensee instituted changes which invalidated the contents of the missing safeguards schedule.

X-90-02 Date: 02/07/90 Site: San Onofre
Southern California Edison Company
San Diego County, CA

Plant Status: Units 1, 2, and 3, Operational. Fuel present at site.

Source: Licensee

Event: Threat. Hoax. The U.S. Marine Corps Base, Camp Pendleton, concurrently relayed a threat message to the licensee and the FBI from an individual who stated he intended to fire missiles at the site.

Action: The licensee increased security vehicle patrols on plant access roads and parking lots in the owner-controlled area.

Resolution: The FBI evaluated the threat as noncredible. The perpetrator was known to the FBI as a troubled person, probably under the influence of drugs, who had made "bogus" threats in the past.

X-90-03 Date: 03/08/90 Site: Diablo Canyon
Pacific Gas and Electric Company
San Luis Obispo County, CA

Plant Status: Units 1 and 2, Operational. Fuel present at site.

Source: Licensee

Event: Copies of 124 incident reports containing safeguards information were in a briefcase stolen from the home of a security shift supervisor during a burglary. The supervisor had taken the reports home to complete an assignment.

Action: The burglary was reported to the local law enforcement agency. A search of the immediate neighborhood failed to locate the briefcase or its contents.

Resolution: The robber was later arrested, and it was determined that he had disposed of the reports in the trash.

X-90-04 Date: 03/14/90 Site: Vogtle
Georgia Power Company
Burke County, GA

Plant Status: Units 1 and 2, Operational. Fuel present at site.

Source: Licensee

Event: Security officers training and qualification tests were stolen from an unsecured cabinet in the field support building. There was no evidence of forced entry.

Action: The tests were revised.

Resolution: Those individuals who were tested a few days before or after the discovery of the missing tests were retested.

X-90-05 Date: 04/19/90 Site: Pilgrim
Boston Edison Company
Plymouth County, MA

Plant Status: Shutdown. Fuel present at site.

Source: Plymouth Fire Department

Event: The Plymouth Fire Department notified the licensee that they had discovered a siren pole cut down and blocking Old Sandwich Road, north of Beaver Dam Road, in the Town of Plymouth. The siren was installed as part of an alert/notification system enhancement.

Action: The licensee coordinated the incident with the Massachusetts Civil Defense Agency and the Town of Plymouth.

Resolution: No perpetrator was identified.

X-90-06 Date: 04/22/90 Site: Diablo Canyon
Pacific Gas and Electric Company
San Luis Obispo County, CA

Plant Status: Unit 1, Operational; Unit 2, Shutdown. Fuel present at site.

Source: Licensee

Event: On April 22, 1990, at 2:45 a.m., the licensee discovered that vandals had cut through a wooden power pole in an area north of Watsonville, California. Repair of the pole caused a two hour loss of electrical power to approximately 92,000 customers. At 3 p.m., the utility found a second cut wooden pole in the same general vicinity and repaired it without incident. On April 23, 1990, electrical power was interrupted again for the same 92,000 customers because vandals had cut the bolts on all four legs of a 100-foot-high steel transmission tower. An anonymous caller to a San Francisco newspaper reporter led to the discovery of a one-page handwritten note from a group who accepted responsibility for toppling the power lines citing "...nuclear dangers posed by Diablo Canyon nuclear power plant...". These incidents occurred approximately 150 miles from Diablo Canyon and did not affect electrical service at Diablo Canyon.

Action: The FBI assumed investigative responsibility for these incidents.

Resolution: No arrests have been made.

X-90-07 Date: 04/23/90 Site: Robinson
Carolina Power and Light Company
Darlington County, SC

Plant Status: Operational. Fuel present at site.

Source: Licensee

Event: An off-duty security force member was arrested for petty larceny.

Action: His access was revoked pending an investigation.

Resolution: The individual subsequently entered a guilty plea at court, and his employment was terminated.

X-90-08 Date: 04/28/90 Site: Vermont Yankee
Vermont Yankee Nuclear Power Company
Windham County, VT

Plant Status: Operational. Fuel present at site.

Source: Licensee

Event: Approximately 30 demonstrators trespassed onto the owner-controlled property. No entry into the protected area was made, and the demonstration was peaceful.

Action: The NRC senior resident inspector monitored the licensee's response.

Resolution: The demonstrators were arrested by the local police.

X-90-09 Date: 05/25/90 Site: River Bend
Gulf States Utilities Company
West Feliciana Parish, LA

Plant Status: Operational. Fuel present at site.

Source: NRC Region IV

Event: Vandals punctured the inner sidewalls causing two flat tires on an NRC regional inspector's rental car while it was parked in an area designated for NRC vehicles.

Action: The inspector informed the licensee's security personnel and arranged for the rental company to repair the car.

Resolution: No further incidents occurred during the inspection, and no perpetrator was identified.

X-90-10 Date: 06/08/90 Site: Limerick
Philadelphia Electric Company
Montgomery County, PA

Plant Status: Unit 1, Shutdown; Unit 2, Operational. Fuel present at site.

Source: Licensee

Event: A former utility employee discovered uncontrolled safeguards information at his home and returned it to corporate security.

Action: The licensee conducted an investigation.

Resolution: The investigation determined that no unauthorized viewing or use of the safeguards information occurred. Furthermore, the information in the document was no longer current and could not have assisted an individual in an act of radiological sabotage or theft of SNM.

X-90-11 Date: 08/03/90 Site: Clinton
Illinois Power Company
DeWitt County, IL

Plant Status: Operational. Fuel present at site.

Source: Licensee

Event: The licensee reported the loss of safeguards information.

Action: A search was conducted with negative results.

Resolution: The licensee determined the lost information did not pose a threat to security.

X-90-12 Date: 08/07/90 Site: Arkansas
Arkansas Power and Light Company
Pope County, AR

Plant Status: Units 1 and 2, Operational. Fuel present at site.

Source: Licensee

Event: A safeguards cabinet located inside the protected area was forcibly entered over the weekend of August 4-5, 1990.

Action: An inventory of the contents was performed. All material was accounted for.

Resolution: The licensee's investigation determined that the cabinet contained obsolete information. There was no safeguards compromise.

X-90-13 Date: 10/04/90 Site: Millstone
Northeast Nuclear Energy Company
New London County, CT

Plant Status: Units 1 and 3, Operational; Unit 2, Shutdown. Fuel present at site.

Source: Licensee

Event: A document containing safeguards information was discovered to be missing.

Action: The licensee reviewed a copy of the document.

Resolution: It was determined the missing information could not aid undetected entry or unauthorized access to protected or vital areas.

X-90-14 Date: 10/24/90 Site: Comanche Peak
Texas Utilities Generating Company
Somervell County, TX

Plant Status: Operational. Fuel present at site.

Source: Licensee

Event: Twelve safeguard documents were discovered to be missing from the document control room.

Action: An investigation was conducted.

Resolution: The licensee determined one document had been destroyed. Of the remaining documents, only four contained safeguard information. It was determined that the missing documents could not assist anyone in an act of sabotage or theft.

X-90-15 Date: 10/28/90 Site: Grand Gulf
Mississippi Power and Light Company
Claiborne County, MS

Plant Status: Unit 1, Shutdown. Fuel present at site.

Source: Licensee

Event: A document containing safeguards information was discovered to be missing.

Action: A search was conducted with negative results.

Resolution: An investigation was conducted, and a safeguards compromise was ruled out because the missing document could not assist anyone in an act of sabotage or theft.

X-90-16 Date: 10/28/90 Site: LaSalle
Commonwealth Edison Company
LaSalle County, IL

Plant Status: Units 1 and 2, Operational. Fuel present at site.

Source: Licensee

Event: One page of a document containing security information was discovered to be missing.

Action: The licensee instituted an audit program in the security control center whereby all safeguards documents are audited biweekly to assure accountability.

Resolution: It was determined that the single page could not aid undetected entry or unauthorized access to protected or vital areas.

X-90-17 Date: 12/26/90 Site: Yankee-Rowe
Yankee Atomic Electric Company
Franklin County, MA

Plant Status: Operational. Fuel present at site.

Source: Licensee

Event: While performing an audit, the security shift supervisor found that a form was missing which contained marginal information concerning security.

Action: An investigation was conducted.

Resolution: The licensee concluded that the missing information could not assist an individual to commit radiological sabotage.

X-90-18 Date: 12/28/90 Site: River Bend
Gulf States Utilities Company
West Feliciana Parish, LA

Plant Status: Operational. Fuel present at site.

Source: Licensee

Event: Threat. Hoax. At 4:58 p.m., a 25-40-year-old male with a foreign accent telephoned the access control station and stated, "I will destroy your plant tonight." After a pause of 3 seconds, the message was repeated. At 5:13 p.m., another call was received from the same person who said, "You people should evacuate your plant." The facility had just come out of an outage, and staff reduction was planned.

Action: An investigation was conducted. No suspect was identified.

Resolution: The licensee determined the threat was noncredible

APPENDIX A - STATISTICS

This appendix contains a series of graphs developed from events reported during a fifteen year period (1976 through 1990). Note that the yearly statistics have been changed to reflect the deletion of drug and alcohol events (a fitness for duty but not a safeguards issue) which will not be reported in NUREG-0525, the Safeguards Summary Event List.

Figure 1 reflects the numerical distribution by year and category of the 1306 events reported. After a roughly 153% increase in event reporting between 1978 and 1979 (the result of a change in reporting requirements, an increase in events reported following the TMI March 1979 occurrence, and contentious licensing hearings), totals reported by year declined somewhat and remained relatively stable until 1986 (97) which experienced a 45% increase over 1985 (67). Events reported remained stable in 1987, but increased in 1988 (142) and 1989 (149), and declined by 30% in 1990 (104) from 1989. Note that the increase in events reported since 1987 has occurred primarily in the firearms category, and of the 104 events reported for 1990, 72 (69%) are firearms-related events.

Figure 2 shows the number of safeguards events (1222) that have occurred at reactors. Although there was a slight increase of 8% in events reported in 1989 (143) over 1988 (133), there was a decline of 29% in 1990 (101) from 1989.

Figure 3 shows event activity for nonreactor facilities. After declining 33% in 1989 (6) from 1988 (9), there was a further decline of 50% in 1990 (3) from 1989. This category includes events which have occurred at fuel facilities (67 1976-1990) as well as events which are included because of public interest (17 1976-1990), but which occurred at facilities or activities that are not safeguarded under NRC regulations. Total numbers are too small for valid analytic attribution.

Figure 4 shows the trend in nonbomb-related safeguards events. After a marked increase of 72% in 1988 (105) over 1987 (61), there was a moderate increase of 17% in 1989 (123) over 1988. However, there was a decline of 24% in 1990 (93) from 1989. Of the 93 events in 1990, 72 (77%) were firearms-related.

Figure 5 shows the frequency of reactor safeguards events, excluding bomb hoaxes/devices, which is usually sensitive to the increase in the number of facilities. After rising steadily from 1983 (15) to 1989 (118), this category of events fell 24% in 1990 (90) from 1989.

Figure 6 and 7 display the events by categories and reveal a substantial change in percentage of distribution of events in several categories: Bomb Threats (11% in 1990 vs. 17% in 1989 vs. 48% over a fifteen year period from 1976 through 1990); Tampering/Vandalism (2% in 1990 vs. 9% in 1989 and 9% 1976-1990); Firearms (69% in 1990 vs. 40% in 1989 vs. 23% 1976-1990); and Miscellaneous (17% in 1990 vs. 31% in 1989 vs. 13% 1976-1990).

Figures 8-15 display individual event categories across the years 1976-1990.

Figure 8 shows the number of bomb-related incidents over the 16-year period. Bomb threats, which have declined considerably after reaching a peak of 94 in 1979, have reached an all-time low in 1990 (11), a 58% drop from 1989 (26). Of the 11 events, 4 occurred at one facility granted a full power license in March 1990.

Figure 9 plots the number of intrusion events which have occurred. With the exception of 1980 (14), there have been relatively few intrusion events. There were no intrusion events in 1983, 1986, 1987, 1988, 1989, and 1990.

Figure 10 presents the missing and stolen events involving safeguarded material, ranging from 1 to 4 events per year, with none reported for 1976, 1977, 1984, and 1990.

Figure 11 covers the few transportation events involving safeguarded material. Totals range from 1 to 3 per year, with none reported for 1978, 1981, 1982, 1984, 1985, and 1989. One event was reported in 1990. Note that to avoid double counting, events which were cross referenced in the transportation category have not been included.

Figure 12 depicts the tampering and vandalism events. This class of events has been relatively stable even though there has been an increase in the number of regulated facilities. The number of events is too small for meaningful analysis. There was an increase of 86% in 1989 (13) vs. 1988 (7); however, there has been a decline of 85% in 1990 (2) from 1989.

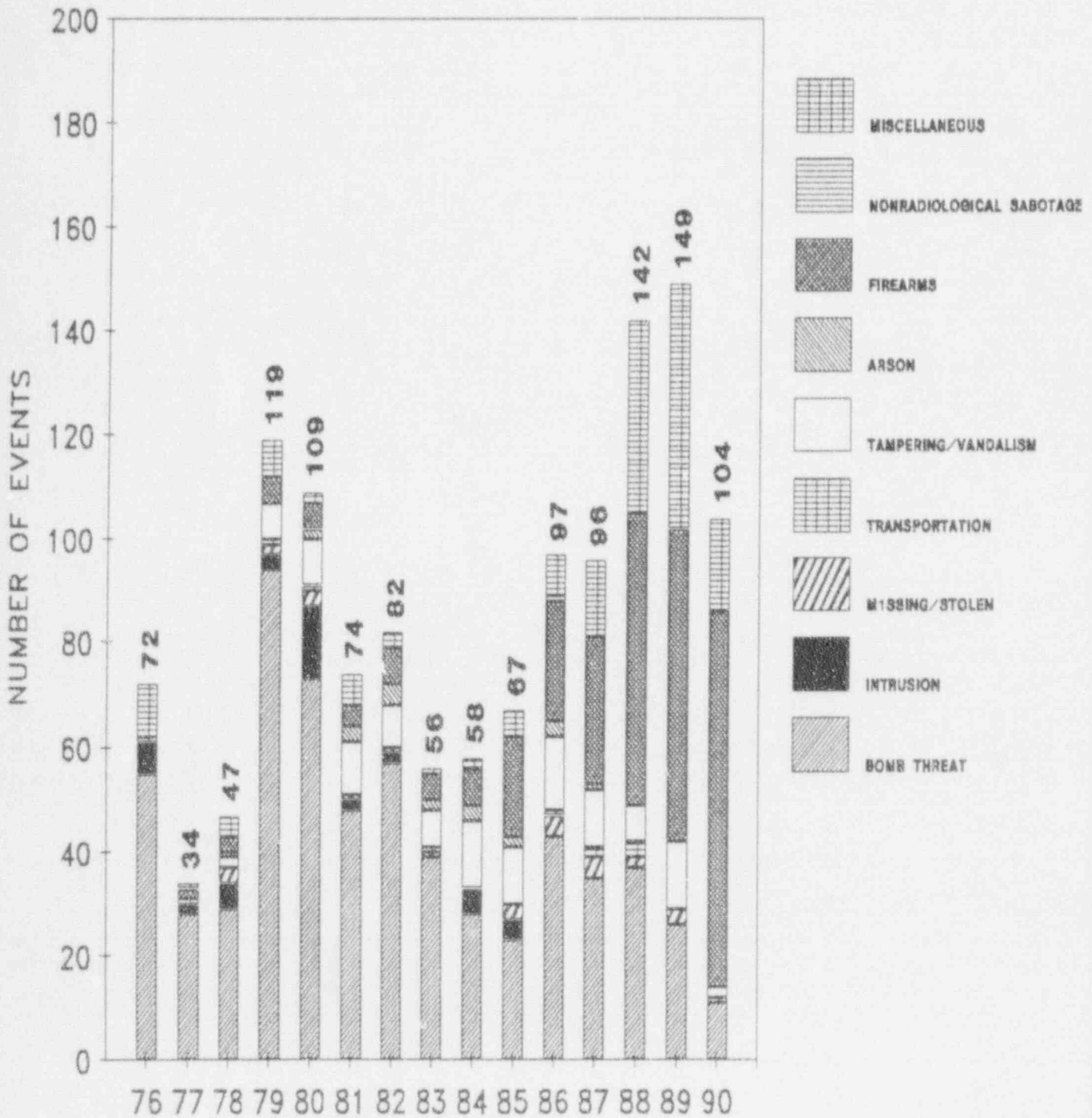
Figure 13 shows the small number of arson events with none reported for 1976, 1977, 1979, 1988, 1989, and 1990.

Figure 14 displays the number of firearms-related events that have occurred at all facilities. The events reported have been rising steadily, increasing by 100% in 1988 (56) vs. 1987 (28) and by 7% in 1989 (60) over 1988. There was an increase of 20% in 1990 (72) from 1989. Many of the events over the years involve the accidental discharge of weapons, none of which have resulted in serious consequences. It should be noted that from 1987 to date, there has been an increase in events reported involving ammunition detection (no weapon involved); e.g., of the 72 firearms-related events reported for 1990, 44 (61%) involved weapons and 28 (39%) to ammunition only. In addition to the increased number of facilities regulated, the gain over the years may also be attributed to more sophisticated detection equipment and diligence on the part of the licensees to successfully detect attempted introduction of firearms and ammunition.

Figure 15 plots the miscellaneous events reported. This category includes not only safeguard events which do not properly fit into any of the categories defined in the document, but also covers events which involve persons or materials not subject to NRC safeguards regulations, but which are of interest to the Commission, the industry, and the public. There was a rise of 146% in 1988 (37) over 1987 (15), and a rise of 27% in 1989 (47) over 1988, but a decline of 62% in 1990 (18) from 1989.

Fig 16 depicts the number of reactors operating for the period 1976-1990 by NRC Region. As of the end of 1990, there were 113 power reactors licensed to operate: Region 1, 31 (27%); Region 2, 33 (29%); Region 3, 28 (25%); Region 4, 10 (9%); and Region 5, 11, (10%).

SAFEGUARDS EVENTS (1306) 1976 - 1990



YEAR
FIGURE 1

- MISCELLANEOUS
- NONRADIOLOGICAL SABOTAGE
- FIREARMS
- ARSON
- TAMPERING/VANDALISM
- TRANSPORTATION
- MISSING/STOLEN
- INTRUSION
- BOMB THREAT

REACTOR SAFEGUARDS EVENTS (12222) 1976 - 1990

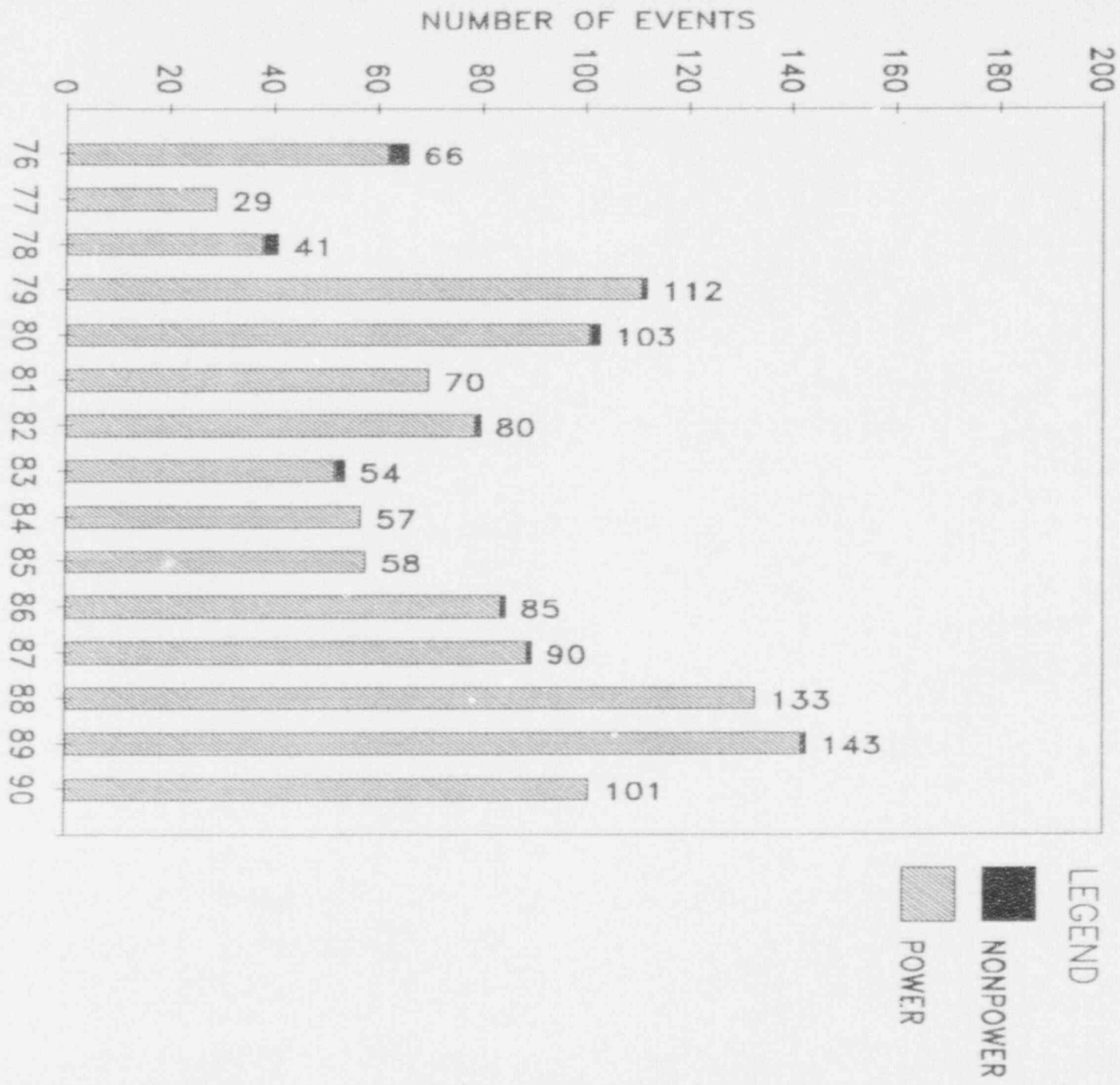


FIGURE 2

NONREACTOR SAFEGUARDS EVENTS (84) 1976 - 1990

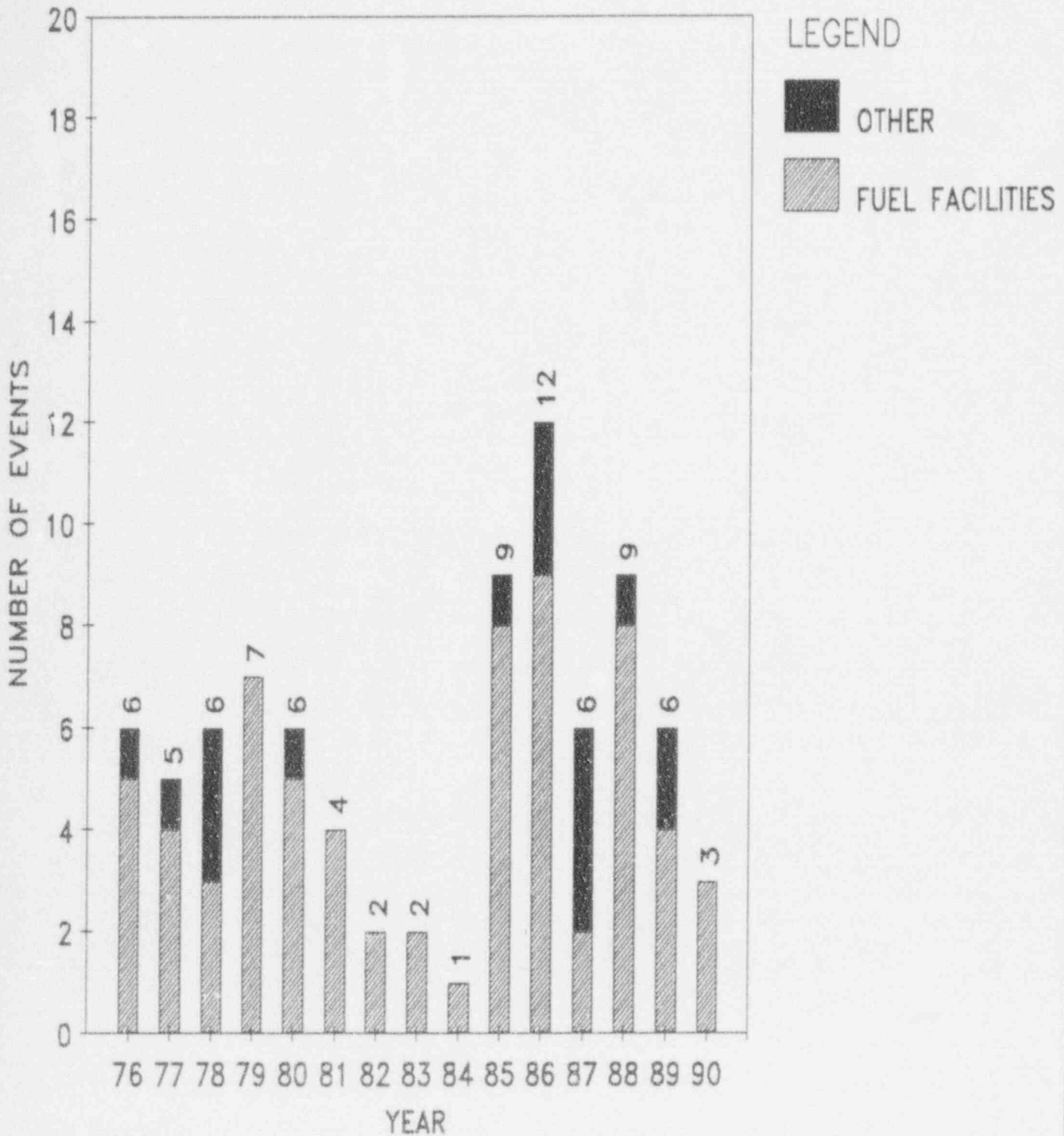


FIGURE 3

SG EVENTS (680) EXCLUDING BOMB-RELATED EVENTS 1976 - 1990

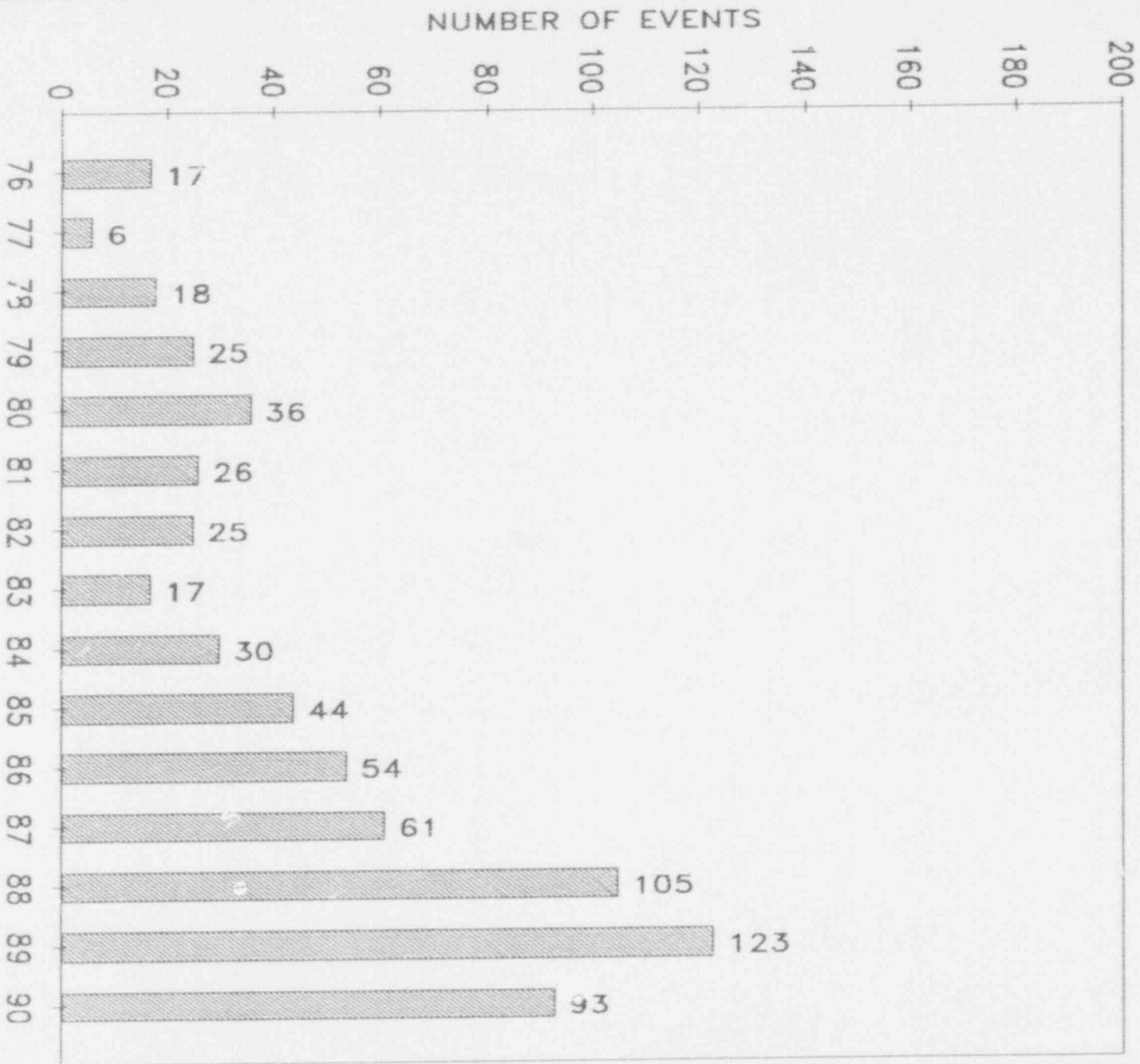


FIGURE 4

REACTOR SG EVENTS (620) EXCLUDING BOMB-RELATED EVENTS 1976 - 1990

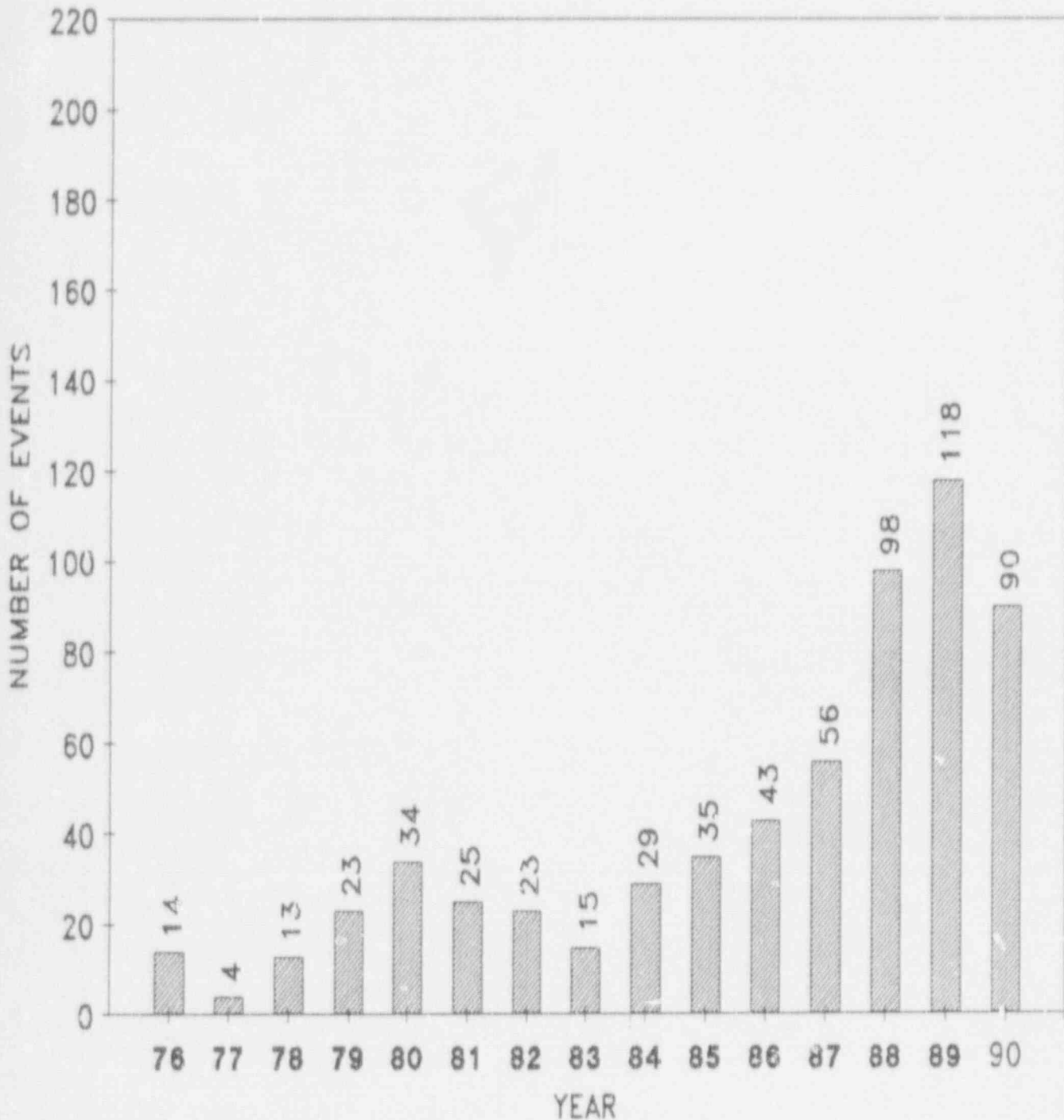
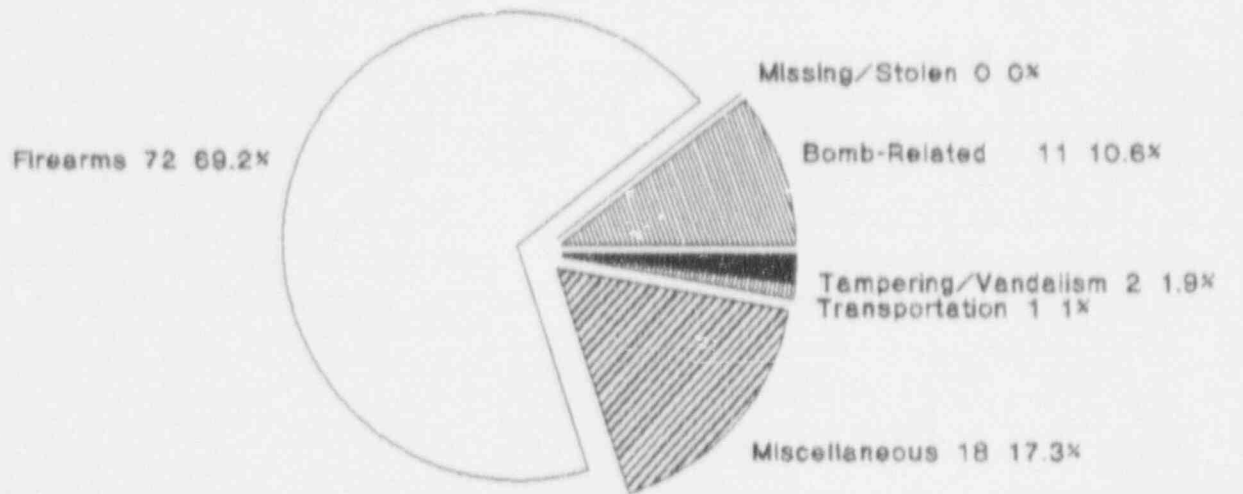


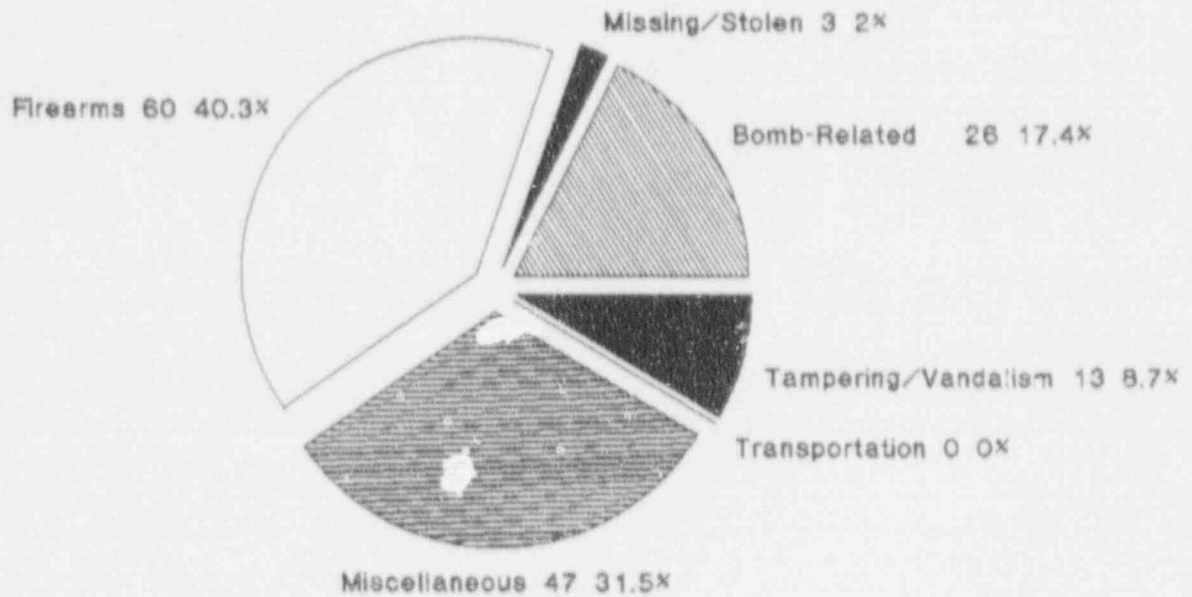
FIGURE 5

SAFEGUARDS EVENTS BY CATEGORY

1990 (104) VS. 1989 (149)



1990



1989

FIGURE 6

SAFEGUARD EVENTS (1306) BY CATEGORY 1976 - 1990

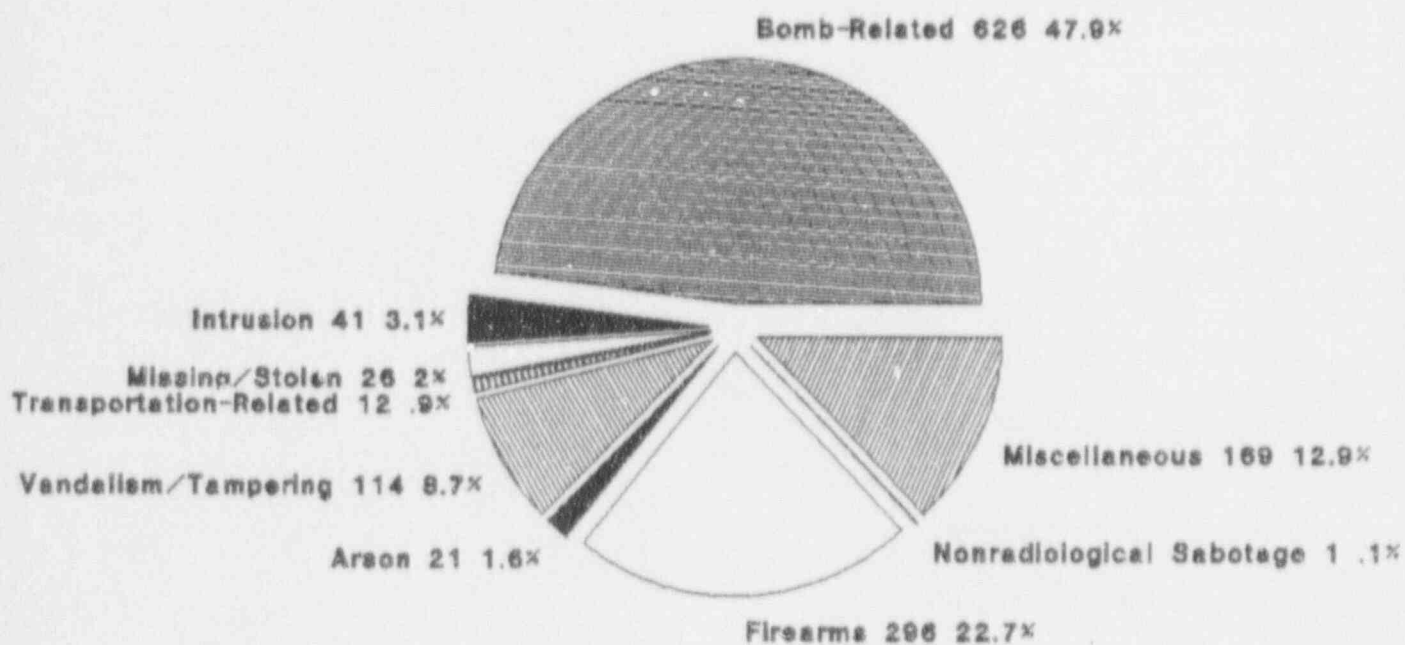
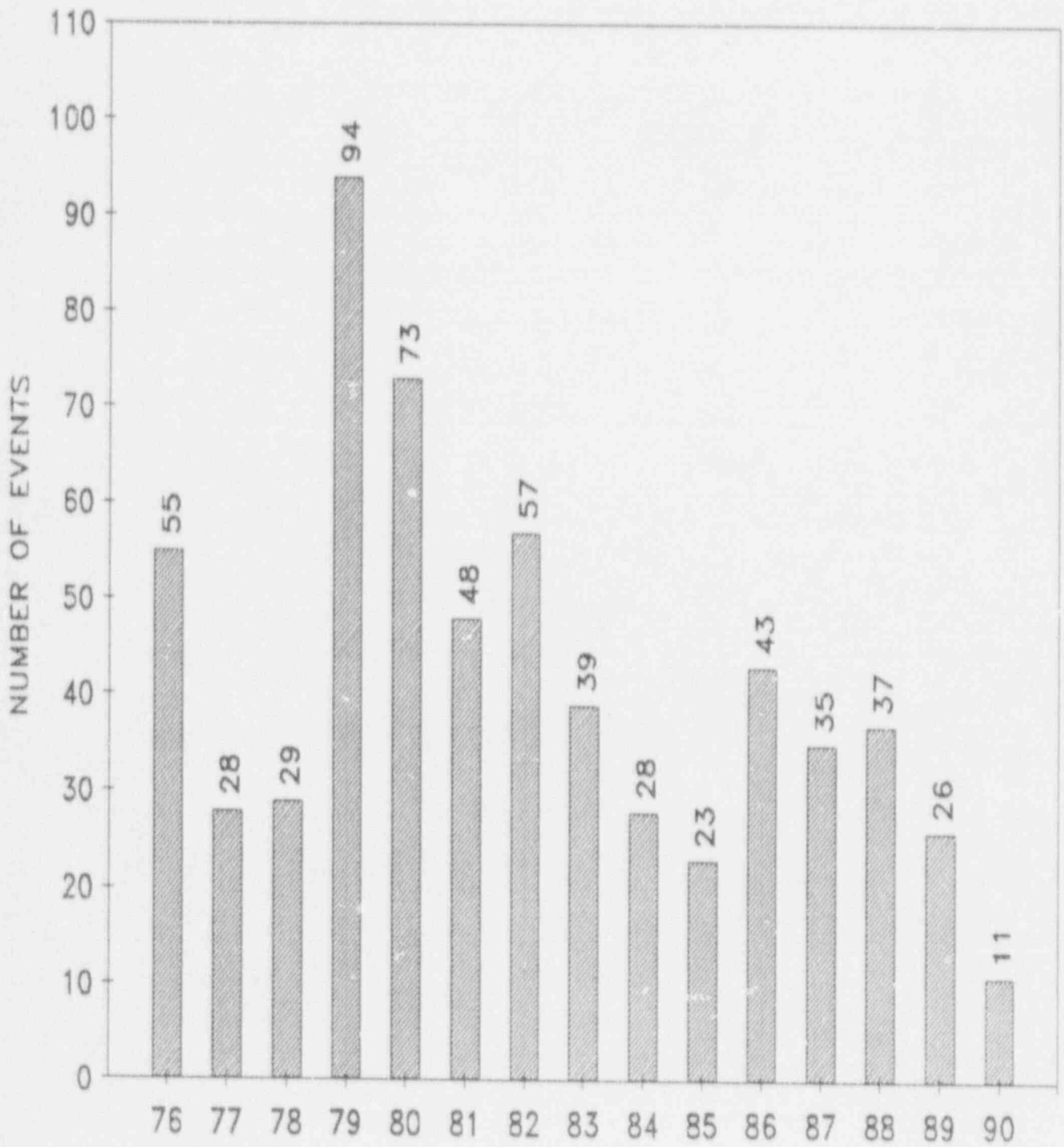


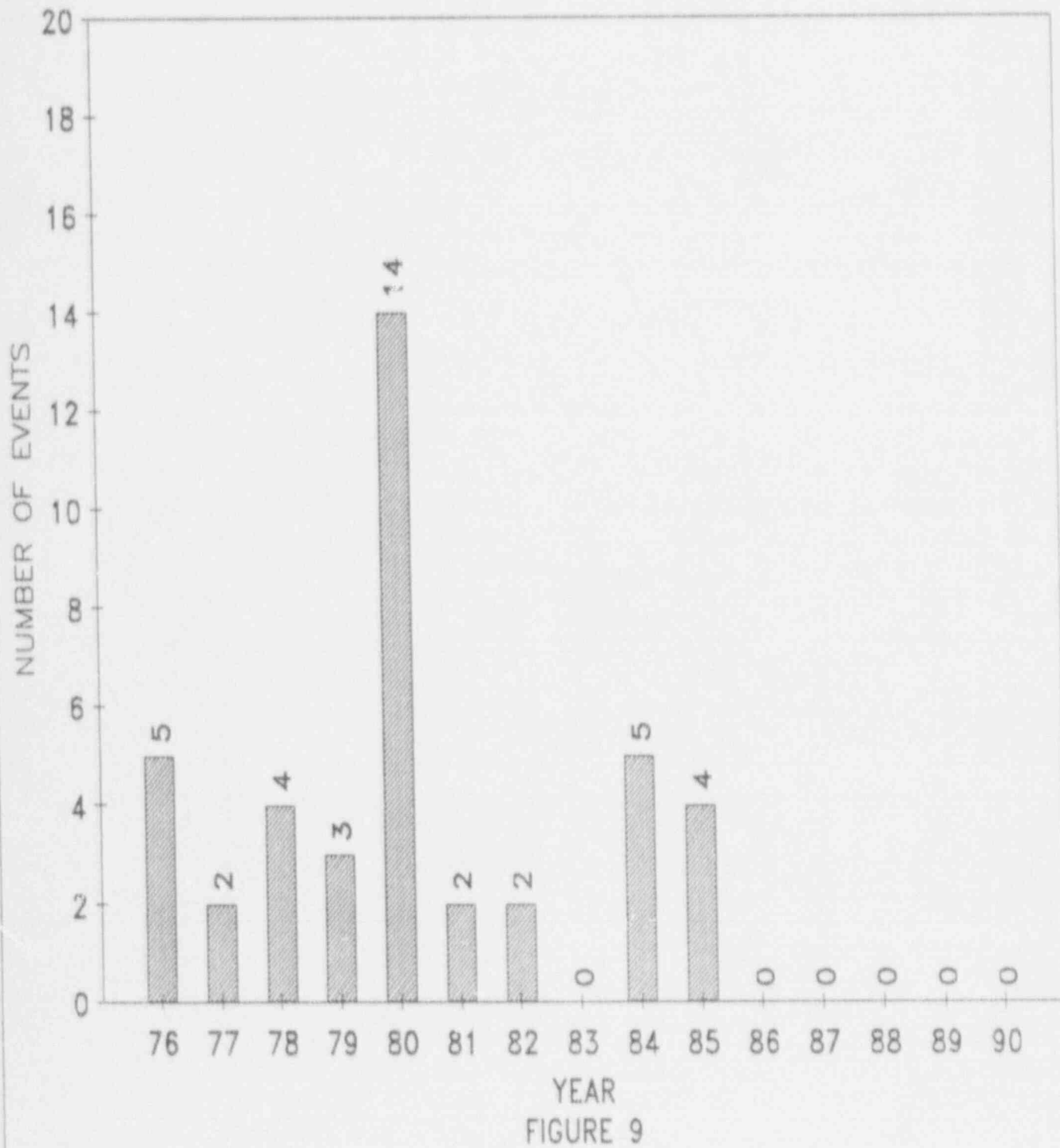
FIGURE 7

BOMB-RELATED EVENTS (626) 1976 - 1990



YEAR
FIGURE 8

INTRUSION EVENTS (41) 1976 - 1990



All Reactor Except: 1 Nonpower 1979; 1 Fuel Facility 1985

MISSING/STOLEN EVENTS (26) 1976 - 1990

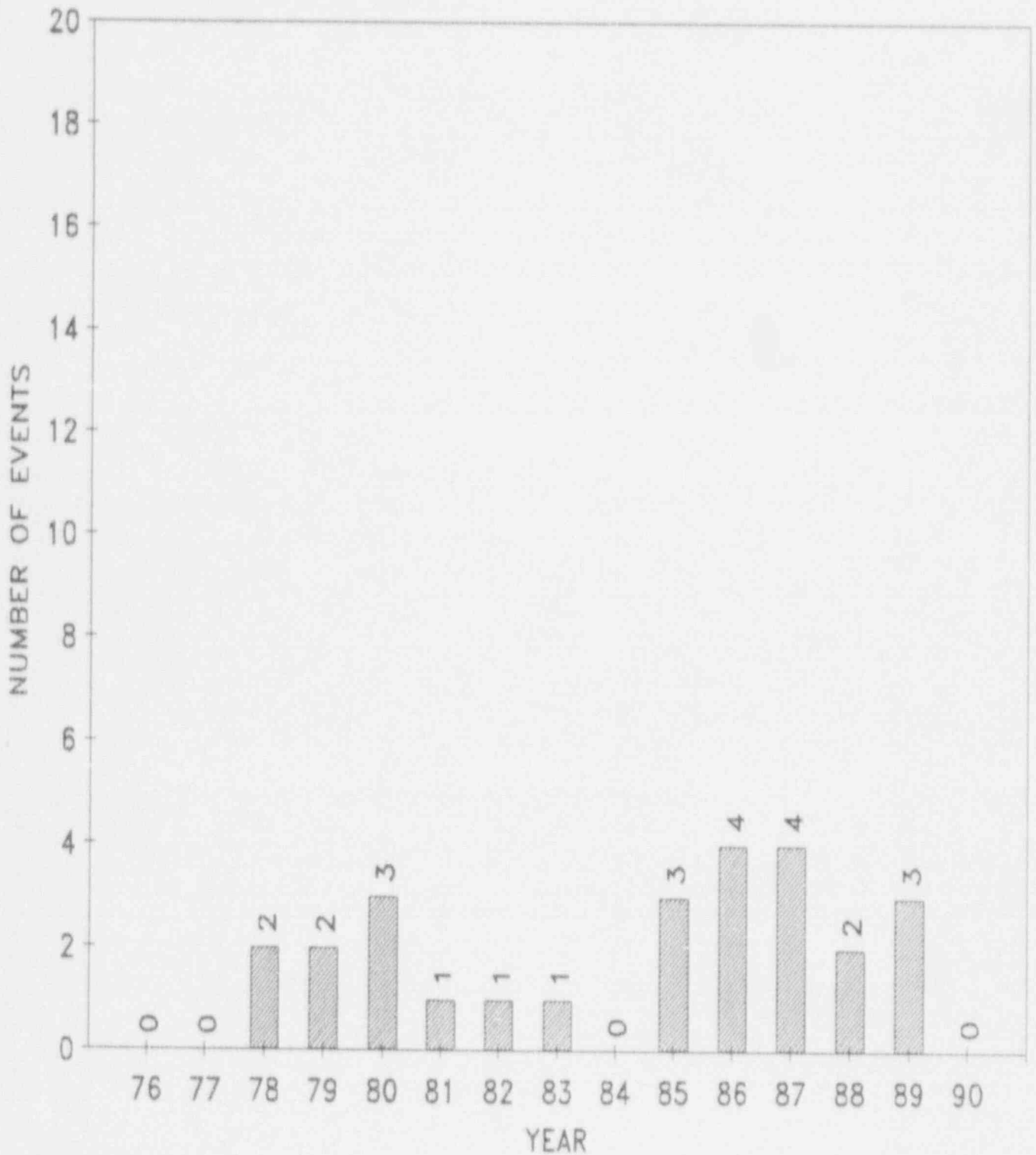
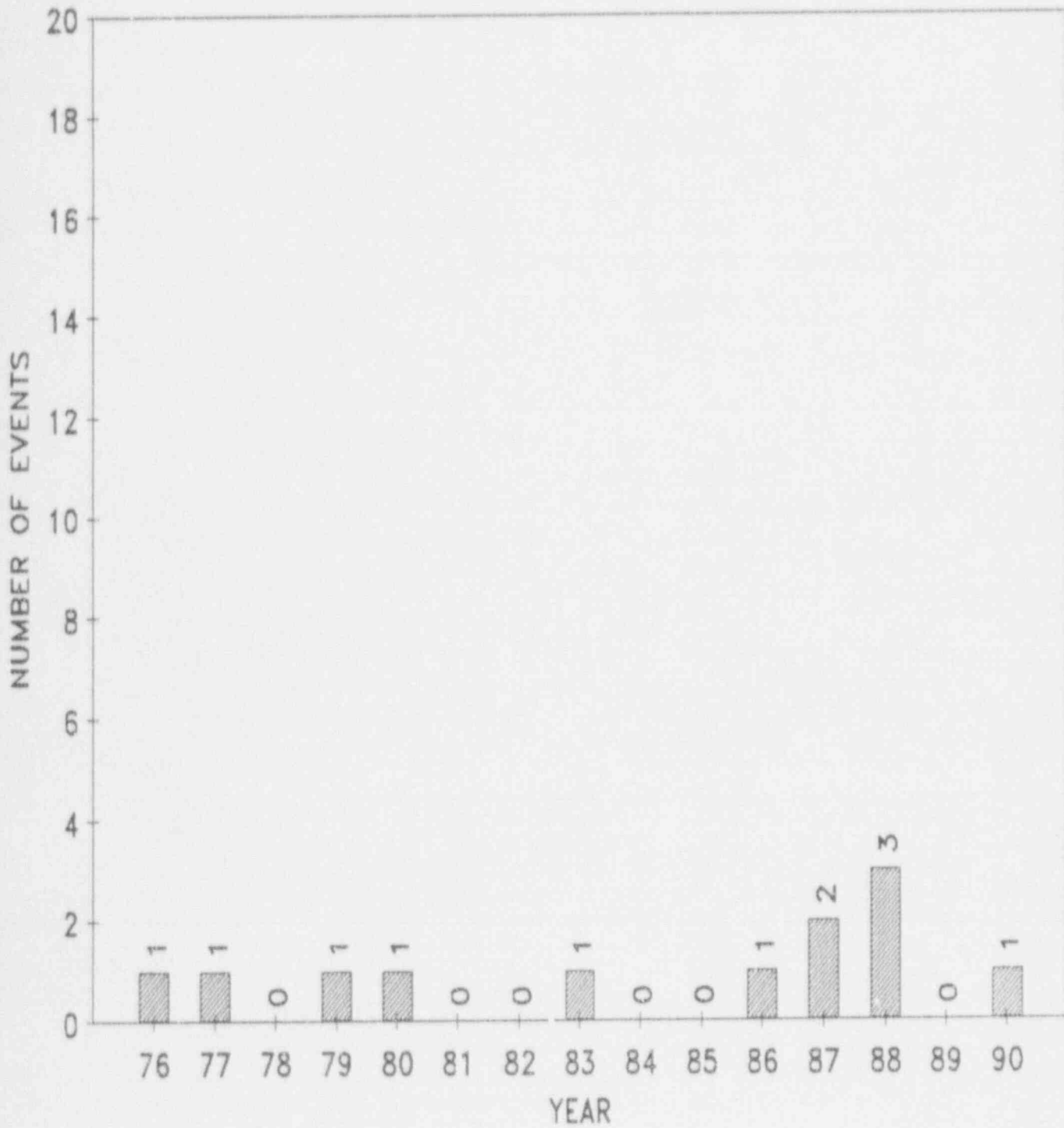


FIGURE 10

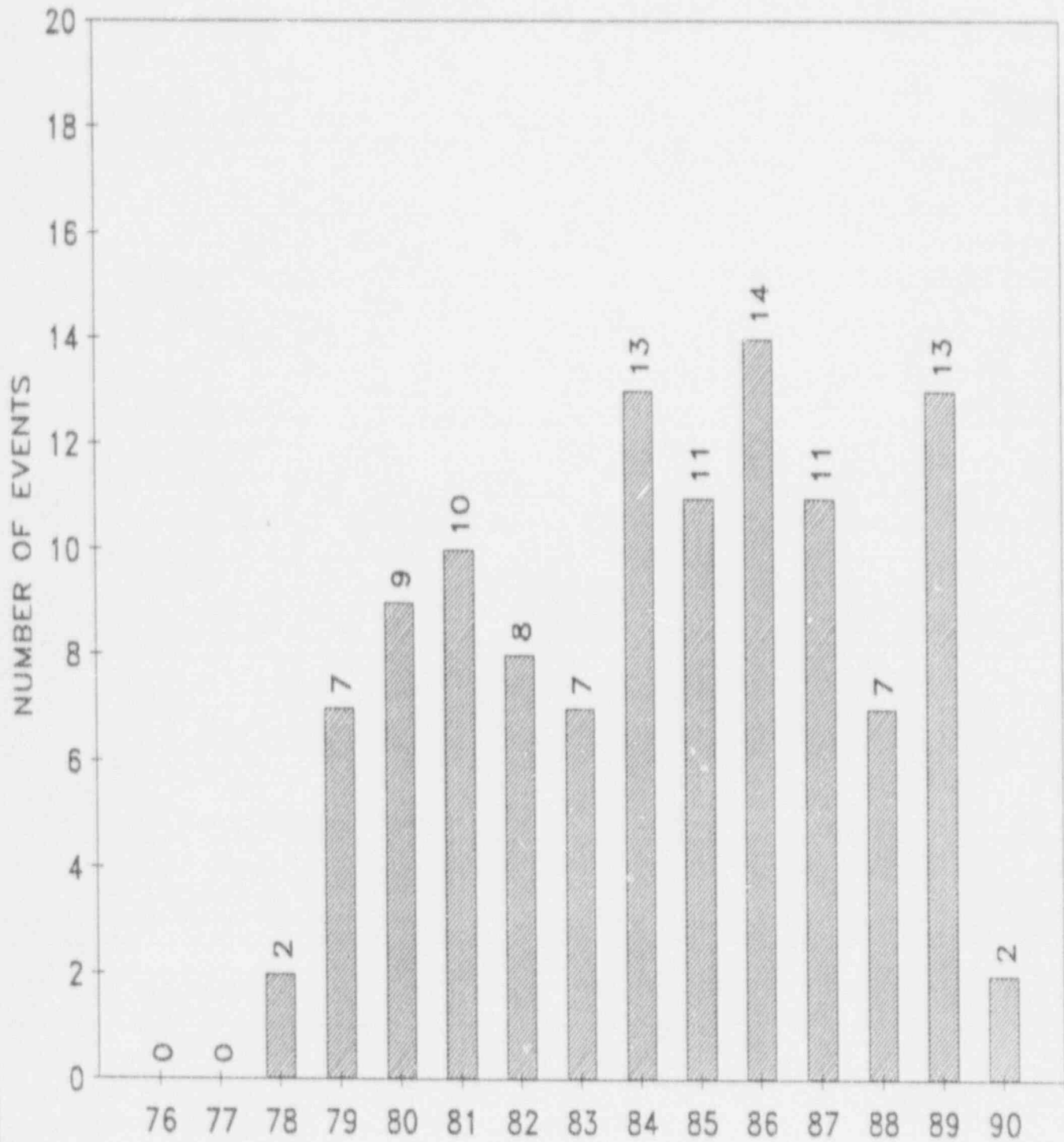
TRANSPORTATION EVENTS (12) 1976 - 1990



YEAR
FIGURE 11

(Cross-Referenced Events Not Included)

TAMPERING/VANDALISM EVENTS (114) 1976 - 1990



YEAR
FIGURE 12

ARSON EVENTS (21) 1976 - 1990

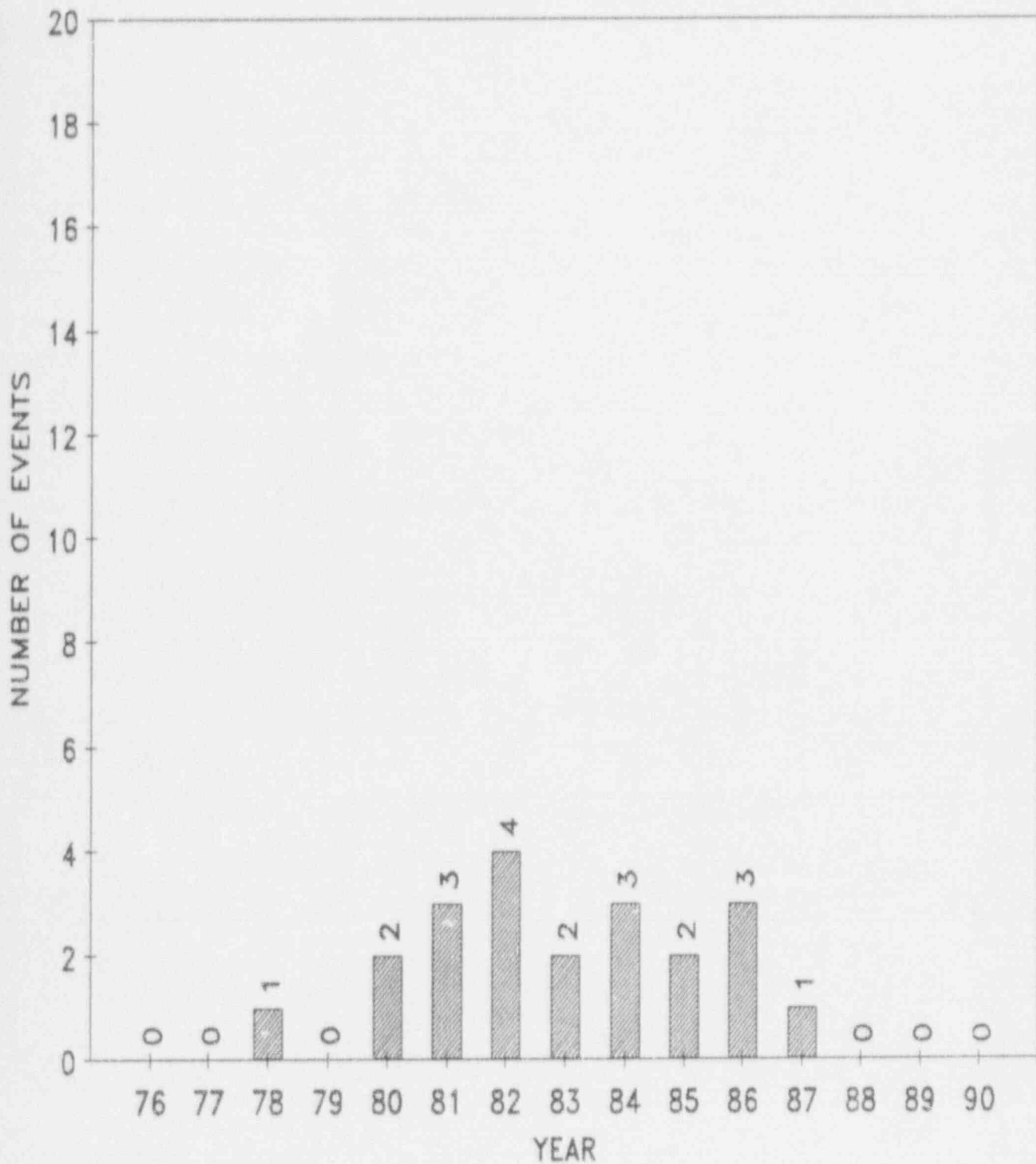


FIGURE 13

FIREARMS EVENTS (296) 1976 - 1990

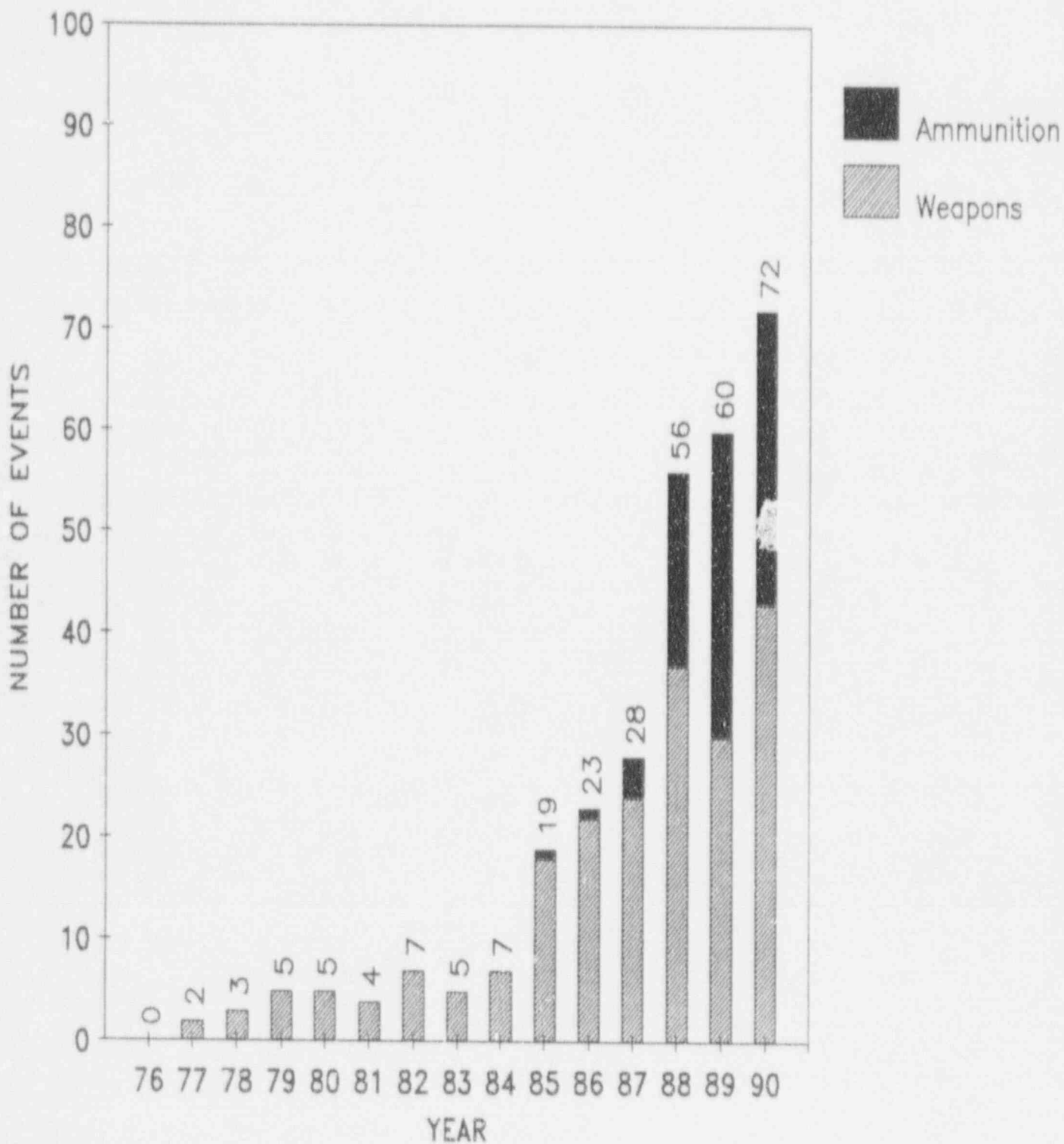


FIGURE 14

MISCELLANEOUS EVENTS (169) 1976 - 1990

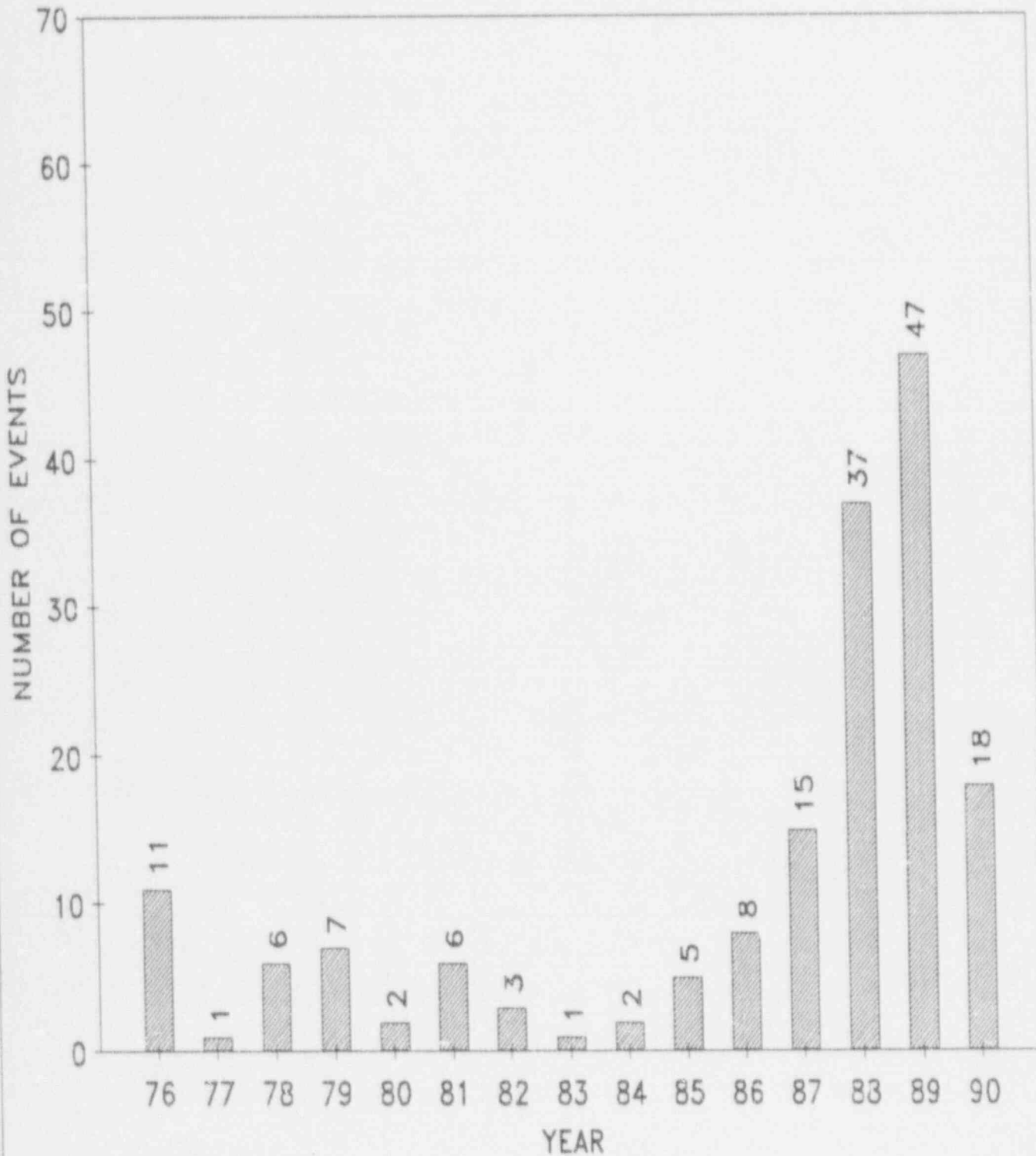
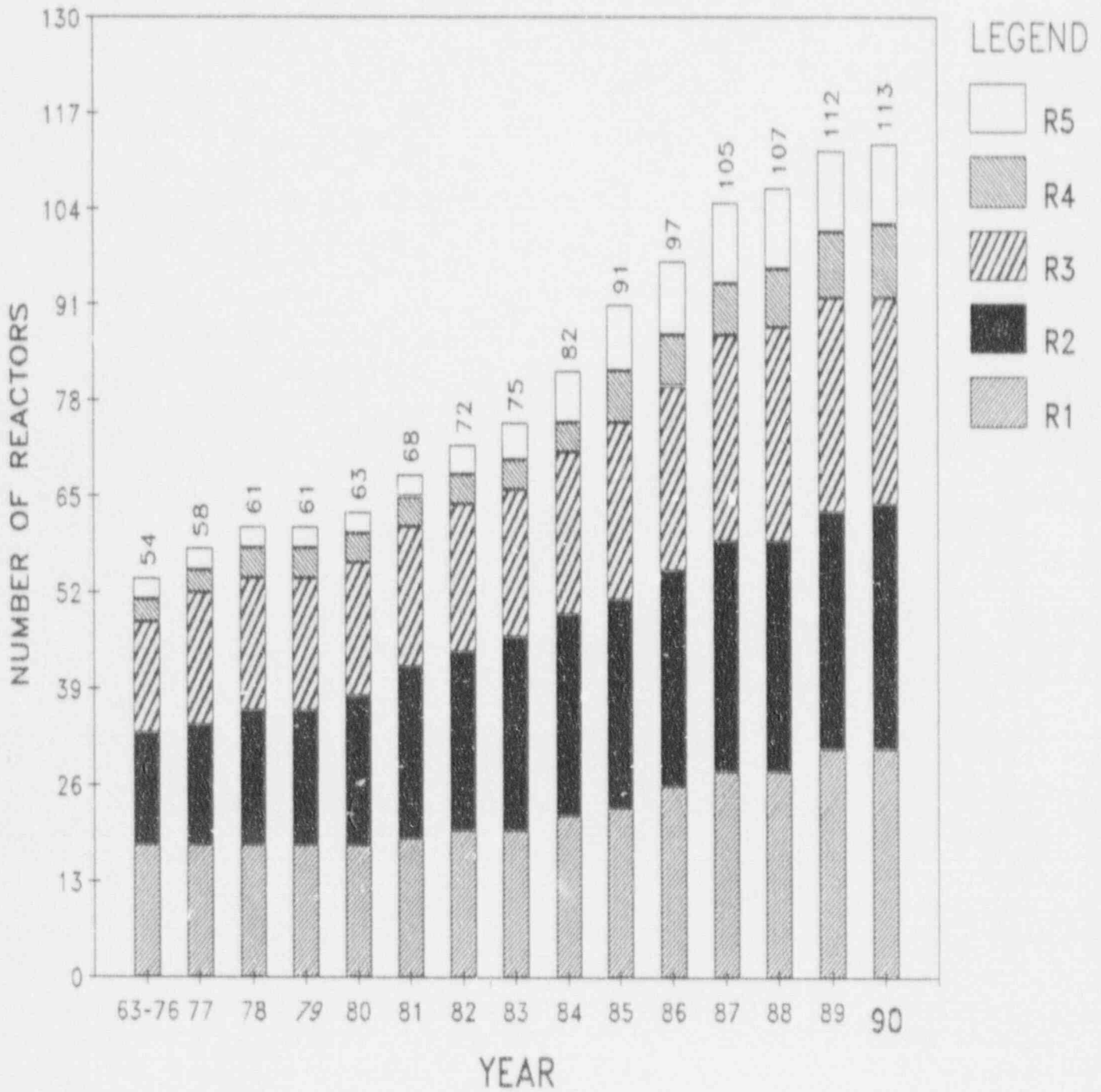


FIGURE 15

U.S. COMMERCIAL POWER REACTORS LICENSED TO OPERATE 113 - END OF 1990



YEAR
FIGURE 16

INDEX TO SAFEGUARDS SUMMARY EVENT LIST, NUREG-0525
PRE-NRC THROUGH DECEMBER 31, 1990

IB-75-38	12/11/75	Allied-General Nuclear Services	
Allied-General Nuclear Services			1
IB-71-02	03/09/71	Arkansas	
IB-75-37	12/08/75	Arkansas	
IB-77-07	03/23/77	Arkansas	
IB-77-06	03/23/77	Arkansas	
IB-80-63	10/01/80	Arkansas	
IB-86-25	08/18/86-	Arkansas	
VII-87-07	05/11/87	Arkansas	
VII-88-04	02/17/88	Arkansas	
VII-88-28	07/11/88	Arkansas	
VII-88-37	09/09/88	Arkansas	
VII-88-41	10/11/88	Arkansas	
X-89-03	01/29/89-	Arkansas	
VII-89-33	07/14/89	Arkansas	
VII-89-51	10/27/89	Arkansas	
VII-90-34	06/07/90	Arkansas	
X-90-12	08/07/90	Arkansas	
VII-90-46	09/04/90	Arkansas	
VII-90-56	10/20/90	Arkansas	
VII-90-57	10/22/90	Arkansas	
VII-90-64	11/17/90	Arkansas	
Arkansas			20
IB-72-30	12/00/72	Atomics International Division	
IB-74-10	05/21/74	Atomics International Division	
Atomics International Division			2
III-71-02	04/27/71	Babcock and Wilcox Company	
IB-72-10	05/30/72	Babcock and Wilcox Company	
IB-72-14	06/30/72	Babcock and Wilcox Company	
IB-73-03	05/03/73	Babcock and Wilcox Company	
III-74-01	04/23/74	Babcock and Wilcox Company	
IB-76-01	01/19/76	Babcock and Wilcox Company	
VII-85-13	09/21/85	Babcock and Wilcox Company	
VII-86-21	12/01/86	Babcock and Wilcox Company	
X-88-14	05/24/88	Babcock and Wilcox Company	
X-88-15	06/04/88	Babcock and Wilcox Company	
X-88-24	07/25/88	Babcock and Wilcox Company	
IB-88-26	09/08/88	Babcock and Wilcox Company	
III-89-02	02/21/89	Babcock and Wilcox Company	
VII-89-19	04/13/89	Babcock and Wilcox Company	
IV-90-01	07/07/90	Babcock and Wilcox Company	
Babcock and Wilcox Company			15
III-85-01	04/17/85	Babcock and Wilcox Company (Alliance)	
Babcock and Wilcox Company (Alliance)			1

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X-76-09	08/04/76	Babcock and Wilcox Company (Appolo)	
Babcock and Wilcox Company (Appolo)			1
IB-73-04	05/08/73	Babcock and Wilcox Company (all plants)	
Babcock and Wilcox Company (all plants)			1
III-69-06	06/08/69	Babcock and Wilcox Company, Lynchburg, VA	
Babcock and Wilcox Company, Lynchburg, VA			1
III-68-03	06/24/68	Battelle Memorial Institute	
Battelle Memorial Institute			1
IB-72-04	04/00/72	Beaver Valley	
IB-72-09	05/12/72	Beaver Valley	
IB-76-33	07/16/76	Beaver Valley	
IB-78-15	08/04/78	Beaver Valley	
IB-80-27	05/02/80	Beaver Valley	
II-80-06	06/25/80	Beaver Valley	
VII-80-04	10/17/80	Beaver Valley	
II-80-13	10/27/80	Beaver Valley	
V-81-05	06/06/81	Beaver Valley	
VII-81-02	07/08/81	Beaver Valley	
VII-81-03	08/19/81	Beaver Valley	
V-83-01	06/15/83	Beaver Valley	
VII-86-09	04/09/86	Beaver Valley	
IB-86-32	09/11/86	Beaver Valley	
IB-86-34	09/26/86	Beaver Valley	
V-86-14	12/18/86	Beaver Valley	
IB-87-03	02/06/87	Beaver Valley	
IB-87-10	03/19/87	Beaver Valley	
X-88-04	02/23/88	Beaver Valley	
X-88-08	03/19/88	Beaver Valley	
X-90-01	01/03/90	Beaver Valley	
VII-90-50	09/28/90	Beaver Valley	
Beaver Valley			22
IB-81-20	04/10/81	Bellefonte	
IB-81-28	07/17/81	Bellefonte	
IB-81-38	10/06/81	Bellefonte	
IB-81-41	11/30/81	Bellefonte	
IB-81-44	12/01/81	Bellefonte	
IB-82-29	05/26/82	Bellefonte	
IA-82-01	05/26/82	Bellefonte	
IB-83-31	10/12/83	Bellefonte	
Bellefonte			8
V-87-01	01/01/87	Big Rock Point	
III-88-01	07/15/88	Big Rock Point	

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Big Rock Point			2
IB-77-19	08/15/77	Braidwood	
IB-77-27	12/23/77	Braidwood	
V-85-02	05/14/85	Braidwood	
V-85-04	05/25/85	Braidwood	
VI-85-02	05/29/85	Braidwood	
IB-85-22	11/01/85	Braidwood	
IB-86-39	11/01/86	Braidwood	
VII-87-04	04/09/87	Braidwood	
X-88-06	03/03/88	Braidwood	
X-88-33	09/30/88	Braidwood	
X-89-04	02/05/89	Braidwood	
X-89-07	02/27/89	Braidwood	
VII-90-24	03/26/90	Braidwood	
VII-90-70	12/06/90	Braidwood	
Braidwood			14
IB-79-02	01/11/79	Browns Ferry	
VII-80-02	02/00/80	Browns Ferry	
V-80-02	02/00/80	Browns Ferry	
II-80-09	07/11/80	Browns Ferry	
IB-80-47	07/22/80	Browns Ferry	
IB-80-57	09/05/80	Browns Ferry	
V-80-09	10/01/80	Browns Ferry	
IB-81-46	12/06/81	Browns Ferry	
II-84-03	05/22/84	Browns Ferry	
IB-86-11	04/18/86	Browns Ferry	
IB-86-29	09/03/86	Browns Ferry	
III-86-03	10/17/86	Browns Ferry	
VI-87-01	11/02/87	Browns Ferry	
X-87-14	12/05/87	Browns Ferry	
IB-88-09	03/13/88	Browns Ferry	
Browns Ferry			15
IB-74-18	09/07/74	Brunswick	
IB-75-12	07/14/75	Brunswick	
IB-75-19	09/23/75	Brunswick	
IB-76-09	03/05/76	Brunswick	
III-80-01	04/00/80	Brunswick	
IB-80-70	11/28/80	Brunswick	
IB-81-14	03/12/81	Brunswick	
V-81-04	05/18/81	Brunswick	
IB-81-36	09/25/81	Brunswick	
IC-82-04	03/19/82	Brunswick	
IB-82-06	03/23/82	Brunswick	
V-82-04	05/14/82	Brunswick	
VII-86-49	11/28/88	Brunswick	
V-89-06	04/25/89	Brunswick	
VII-90-12	02/17/90	Brunswick	
VII-90-42	08/01/90	Brunswick	

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Brunswick			16
IB-79-41	05/10/79	Byron	
IB-84-27	11/06/84	Byron	
IB-85-05	05/09/85	Byron	
VII-87-02	04/01/87	Byron	
X-88-03	02/05/88	Byron	
VII-88-53	12/16/88	Byron	
VII-89-01	01/10/89	Byron	
VII-89-36	07/25/89	Byron	
IB-89-26	12/26/89	Byron	

Byron			9
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III-64-03	09/00/64	CEA, NY, to	
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CEA, NY, to			1
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IB-78-03	03/02/78	Callaway	
IB-78-05	03/28/78	Callaway	
IB-79-89	11/15/79	Callaway	
IB-79-91	12/03/79	Callaway	
IB-79-94	12/24/79	Callaway	
V-80-01	01/23/80	Callaway	
IB-80-09	01/30/80	Callaway	
V-81-02	02/26/81	Callaway	
V-81-03	03/13/81	Callaway	
IB-84-17	04/11/84	Callaway	
V-84-10	07/04/84	Callaway	
V-85-09	07/30/85	Callaway	
X-86-05	03/12/86	Callaway	
X-87-11	08/11/87	Callaway	

Callaway			14
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IB-74-11	05/29/74	Calvert Cliffs	
IB-75-06	04/14/75	Calvert Cliffs	
X-75-01	10/15/75	Calvert Cliffs	
IB-76-55	12/10/76	Calvert Cliffs	
IB-80-19	03/25/80	Calvert Cliffs	
IB-82-08	04/12/82	Calvert Cliffs	
IB-82-32	07/26/82	Calvert Cliffs	
IB-82-33	07/28/82	Calvert Cliffs	
VI-82-04	11/19/82	Calvert Cliffs	
IB-83-06	04/04/83	Calvert Cliffs	
IB-83-07	04/07/83	Calvert Cliffs	
IB-83-08	04/18/83	Calvert Cliffs	
VII-84-02	03/05/84	Calvert Cliffs	
IB-87-04	02/18/87	Calvert Cliffs	
VII-88-02	02/15/88	Calvert Cliffs	
VII-88-05	02/23/88	Calvert Cliffs	
VII-89-18	04/10/89	Calvert Cliffs	
X-89-29	09/27/89	Calvert Cliffs	

Calvert Cliffs			18
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X-71-01	10/06/71	Canada to Nuclear Fuel Services, Inc. (NFS)	
Canada to Nuclear Fuel Services, Inc. (NFS)			1
IB-79-84	10/29/79	Carolina Power and Light Company	
Carolina Power and Light Company			1
IB-82-51	12/06/82	Catawba	
IB-82-49	12/06/82	Catawba	
IB-82-45	12/06/82	Catawba	
IB-82-47	12/06/82	Catawba	
IB-82-50	12/06/82	Catawba	
IB-82-46	12/06/82	Catawba	
IB-82-48	12/06/82	Catawba	
IB-82-44	12/06/82	Catawba	
II-85-03	06/06/85	Catawba	
VII-85-07	06/19/85	Catawba	
IB-85-12	08/09/85	Catawba	
VII-85-18	12/30/85	Catawba	
VII-87-08	05/17/87	Catawba	
VII-89-14	03/10/89	Catawba	
Catawba			14
IB-78-01	01/04/78	Clinton	
IB-78-17	08/27/78	Clinton	
IB-79-86	11/03/79	Clinton	
V-80-05	04/18/80	Clinton	
IB-80-42	07/12/80	Clinton	
IB-80-44	07/16/80	Clinton	
IB-80-45	07/17/80	Clinton	
IB-80-46	07/18/80	Clinton	
IB-80-48	07/24/80	Clinton	
IB-80-56	08/29/80	Clinton	
IB-81-29	07/24/81	Clinton	
IB-81-32	08/14/81	Clinton	
IB-81-34	08/21/81	Clinton	
IB-84-05	02/09/84	Clinton	
IB-84-07	02/15/84	Clinton	
X-85-01	01/08/85	Clinton	
IB-85-10	07/08/85	Clinton	
V-86-06	07/02/86-	Clinton	
V-87-06	06/04/87-	Clinton	
IB-87-22	08/19/87	Clinton	
IB-87-23	08/28/87	Clinton	
VII-88-03	02/15/88	Clinton	
VII-88-21	06/09/88	Clinton	
V-88-03	08/12/88	Clinton	
VII-89-03	01/18/89	Clinton	
IB-89-03	01/28/89	Clinton	
X-89-05	02/06/89	Clinton	
V-89-07	07/24/89	Clinton	
V-89-08	07/29/89-	Clinton	

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VII-90-05	01/13/90	Clinton	
X-90-11	08/03/90	Clinton	
V-90-02	08/13/90	Clinton	
VII-90-72	12/31/90	Clinton	
Clinton			33
IB-78-11	06/22/78	Comanche Peak	
IB-78-23	11/03/78	Comanche Peak	
V-80-03	02/05/80	Comanche Peak	
V-85-11	11/08/85	Comanche Peak	
IB-86-06	02/12/86	Comanche Peak	
V-86-03	03/03/86	Comanche Peak	
IB-86-24	07/23/86	Comanche Peak	
IB-89-08	03/14/89	Comanche Peak	
IB-89-11	04/13/89	Comanche Peak	
VII-90-17	02/28/90	Comanche Peak	
VII-90-23	03/22/90	Comanche Peak	
VII-90-38	07/12/90	Comanche Peak	
IB-90-08	09/13/90	Comanche Peak	
X-90-14	10/24/90	Comanche Peak	
VII-90-62	11/05/90	Comanche Peak	
VII-90-63	11/08/90	Comanche Peak	
Comanche Peak			16
IB-80-55	08/26/80	Combustion Engineering, Incorporated	
V-84-12	09/05/84	Combustion Engineering, Incorporated	
VII-90-30	05/05/90	Combustion Engineering, Incorporated	
Combustion Engineering, Incorporated			3
IB-74-12	05/30/74	Connecticut Yankee	
IB-74-19	11/01/74	Connecticut Yankee	
VII-79-01	03/15/79	Connecticut Yankee	
VII-79-04	08/22/79	Connecticut Yankee	
IB-81-24	05/22/81	Connecticut Yankee	
Connecticut Yankee			5
IB-72-25	10/06/72	Cooper	
II-78-03	09/02/78	Cooper	
VII-87-24	11/06/87	Cooper	
IV-88-01	01/09/88	Cooper	
Cooper			4
IB-72-03	04/00/72	Crystal River	
IB-72-11	05/00/72	Crystal River	
IB-72-12	05/00/72	Crystal River	
IB-74-01	01/06/74	Crystal River	
IB-74-03	01/22/74	Crystal River	
II-78-02	01/23/78	Crystal River	
IB-79-20	03/17/79	Crystal River	

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IB-79-21	03/21/79	Crystal River	
III-80-02	05/17/80	Crystal River	
X-81-02	03/19/81	Crystal River	
VII-81-04	11/28/81	Crystal River	
IB-81-45	12/04/81	Crystal River	
VII-82-06	06/07/82	Crystal River	
VII-85-11	08/16/85	Crystal River	
IB-86-15	05/05/86	Crystal River	
VII-87-19	10/22/87	Crystal River	
VII-87-23	10/29/87	Crystal River	
IB-88-08	03/07/88	Crystal River	
X-89-40	11/17/89	Crystal River	
X-89-44	12/09/89	Crystal River	
Crystal River			20
II-80-05	06/20/80	D. C. Cook	
IB-80-72	12/13/80	D. C. Cook	
V-83-07	08/31/83	D. C. Cook	
IB-83-38	12/02/83	D. C. Cook	
II-84-01	02/11/84	D. C. Cook	
V-84-11	08/22/84	D. C. Cook	
IB-86-33	09/11/86-	D. C. Cook	
V-88-01	04/05/88	D. C. Cook	
V-89-04	04/10/89	D. C. Cook	
V-89-05	04/12/89	D. C. Cook	
X-89-20	07/29/89	D. C. Cook	
D. C. Cook			11
III-69-10	10/24/69	D. Douglas Laboratory	
D. Douglas Laboratory			1
II-78-01	01/10/78-	DOW TRIGA Reactor	
DOW TRIGA Reactor			1
IB-78-16	08/18/78	Davis-Besse	
II-80-04	05/07/80	Davis-Besse	
V-85-05	06/05/85	Davis-Besse	
X-85-05	10/04/85	Davis-Besse	
VII-86-07	03/27/86	Davis-Besse	
IB-86-10	04/06/86	Davis-Besse	
VII-87-14	07/14/87	Davis-Besse	
VII-87-15	07/31/87	Davis-Besse	
IB-88-10	03/16/88	Davis-Besse	
X-88-12	04/22/88	Davis-Besse	
VII-88-27	07/06/88	Davis-Besse	
VII-90-29	05/02/90	Davis-Besse	
Davis-Besse			12
IB-8C-07	02/13/86	Defense Nuclear Agency	

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Defense Nuclear Agency			1
IB-74-06	03/13/74	Diablo Canyon	
IB-75-01	02/20/75	Diablo Canyon	
X-76-01	02/26/76	Diablo Canyon	
IB-76-07	03/04/76	Diablo Canyon	
X-76-02	03/04/76	Diablo Canyon	
X-76-03	03/05/76	Diablo Canyon	
IB-76-15	03/25/76	Diablo Canyon	
IB-76-21	05/05/76	Diablo Canyon	
IB-77-08	03/30/77	Diablo Canyon	
IB-78-24	11/16/78	Diablo Canyon	
IB-79-03	01/17/79	Diablo Canyon	
IB-79-04	01/19/79	Diablo Canyon	
IB-79-05	01/24/79	Diablo Canyon	
IB-79-07	01/26/79	Diablo Canyon	
IB-79-06	01/26/79	Diablo Canyon	
IB-79-08	02/09/79	Diablo Canyon	
IB-79-09	02/09/79	Diablo Canyon	
IB-79-10	02/14/79	Diablo Canyon	
IB-79-11	02/21/79	Diablo Canyon	
IB-79-12	02/23/79	Diablo Canyon	
IB-79-15	03/01/79	Diablo Canyon	
IB-79-17	03/06/79	Diablo Canyon	
IB-79-18	03/09/79	Diablo Canyon	
IB-79-19	03/09/79	Diablo Canyon	
IB-79-22	03/23/79	Diablo Canyon	
IB-79-23	03/30/79	Diablo Canyon	
IB-79-27	04/05/79	Diablo Canyon	
IB-79-29	04/06/79	Diablo Canyon	
IB-79-31	04/11/79	Diablo Canyon	
IB-79-32	04/13/79	Diablo Canyon	
IB-79-34	04/27/79	Diablo Canyon	
IB-79-52	06/15/79	Diablo Canyon	
IB-79-63	08/10/79	Diablo Canyon	
IB-79-66	08/24/79	Diablo Canyon	
IB-80-37	06/02/80	Diablo Canyon	
IB-80-67	11/14/80	Diablo Canyon	
IA-82-03	12/07/82	Diablo Canyon	
IB-82-54	12/29/82	Diablo Canyon	
IB-83-01	01/11/83	Diablo Canyon	
V-83-01	04/26/83	Diablo Canyon	
IB-83-13	05/04/83	Diablo Canyon	
IB-83-14	05/05/83	Diablo Canyon	
IB-83-19	08/08/83	Diablo Canyon	
IB-83-20	08/08/83	Diablo Canyon	
IB-83-21	08/11/83	Diablo Canyon	
IB-83-22	08/12/83	Diablo Canyon	
IB-83-24	08/20/83	Diablo Canyon	
IB-83-25	08/25/83	Diablo Canyon	
IB-83-26	08/27/83	Diablo Canyon	
IB-83-28	09/01/83	Diablo Canyon	
IB-83-29	09/02/83	Diablo Canyon	
VII-83-05	12/19/83	Diablo Canyon	

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II-84-02	02/12/84	Diablo Canyon
VI-84-01	02/14/84	Diablo Canyon
VI-84-03	04/16/84	Diablo Canyon
IB-84-18	04/26/84	Diablo Canyon
VII-87-10	06/15/87	Diablo Canyon
X-88-01	01/08/88	Diablo Canyon
VII-88-33	08/18/88	Diablo Canyon
X-88-29	09/03/88	Diablo Canyon
X-89-14	05/30/89	Diablo Canyon
VII-89-49	10/22/89	Diablo Canyon
X-90-03	03/08/90	Diablo Canyon
X-90-06	04/22/90	Diablo Canyon
VII-90-32	05/15/90	Diablo Canyon

Diablo Canyon

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IB-70-03	10/27/70	Dresden
IB-76-34	08/03/76	Dresden
IB-79-81	10/25/79	Dresden
IB-79-90	11/19/79	Dresden
IB-81-01	01/15/81	Dresden
V-81-08	10/14/81	Dresden
VII-83-03	07/21/83	Dresden
VII-85-12	09/05/85	Dresden
VII-86-01	01/25/86	Dresden
X-86-C7	03/31/86	Dresden
V-87-04	02/17/87-	Dresden
IB-87-07	03/06/87	Dresden
VII-88-51	12/05/88	Dresden

Dresden

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IB-76-28	06/23/76	Duane Arnold
X-78-05	11/20/78	Duane Arnold
IB-78-27	12/12/78	Duane Arnold
X-79-02	02/10/79	Duane Arnold
X-79-03	04/23/79	Duane Arnold
IB-83-15	06/14/83	Duane Arnold
X-85-04	08/16/85	Duane Arnold
IV-86-01	12/12/86-	Duane Arnold
V-88-04	10/11/88	Duane Arnold
V-88-05	10/13/88	Duane Arnold
V-88-06	10/15/88	Duane Arnold
X-89-21	08/02/89	Duane Arnold
VII-90-37	06/28/90	Duane Arnold

Duane Arnold

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X-73-01	01/20/73	Dusquesne Light Company
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Dusquesne Light Company

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IB-74-13	07/15/74	Farley
IB-75-02	02/25/75	Farley

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IB-76-30	07/01/76	Farley
X-76-08	07/26/76	Farley
II-80-11	10/09/80	Farley
VII-86-05	03/23/86	Farley
IB-89-24	12/05/89	Farley

Farley

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II-80-12	10/24/80	Fermi
IB-81-43	11/30/81	Fermi
V-81-10	12/07/81	Fermi
IB-83-03	01/21/83	Fermi
IB-83-34	10/21/83	Fermi
IB-83-37	11/29/83	Fermi
X-83-01	12/13/83	Fermi
IB-84-23	06/23/84	Fermi
VII-86-23	12/17/86	Fermi
VII-87-11	06/25/87	Fermi
IB-87-21	07/26/87	Fermi
IB-87-28	09/29/87	Fermi
VII-87-18	10/06/87	Fermi
VII-88-09	03/06/88	Fermi
IB-88-12	03/18/88-	Fermi
VII-88-44	11/14/88	Fermi
VII-88-47	11/19/88	Fermi
VII-89-24	05/29/89	Fermi
VII-89-41	08/28/89	Fermi
VII-89-44	09/23/89	Fermi
X-89-46	12/12/89	Fermi

Fermi

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VI-81-01	01/05/81	FitzPatrick
VII-82-05	06/07/82	FitzPatrick
IB-88-37	12/18/88	FitzPatrick
IB-89-17	07/08/89	FitzPatrick

FitzPatrick

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II-75-02	04/07/75	Forked River
IB-75-08	05/06/75	Forked River

Forked River

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VII-82-04	06/04/82	Ft. Calhoun
VII-88-46	11/18/88	Ft. Calhoun
VII-89-27	06/08/89	Ft. Calhoun
VII-89-45	09/25/89-	Ft. Calhoun
X-89-32	10/16/89	Ft. Calhoun
VII-89-52	10/27/89	Ft. Calhoun
VII-89-53	11/01/89	Ft. Calhoun
X-89-39	11/14/89	Ft. Calhoun
X-89-42	11/29/89	Ft. Calhoun
VII-89-57	12/04/89	Ft. Calhoun

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VII-89-58	12/07/89	Ft. Calhoun	
VII-89-61	12/22/89	Ft. Calhoun	
VII-90-04	01/10/90	Ft. Calhoun	
VII-90-08	01/29/90	Ft. Calhoun	
VII-90-09	02/10/90	Ft. Calhoun	
VII-90-54	10/15/90	Ft. Calhoun	
VII-90-59	10/26/90	Ft. Calhoun	
Ft. Calhoun			17
IV-71-02	01/20/71	Ft. Collins, CO	
Ft. Collins, CO			1
IB-72-15	07/04/72	Ft. St. Vrain	
V-75-01	08/26/75	Ft. St. Vrain	
II-77-01	04/19/77	Ft. St. Vrain	
II-79-02	06/22/79	Ft. St. Vrain	
IB-79-71	09/27/79	Ft. St. Vrain	
IB-80-03	01/16/80	Ft. St. Vrain	
VII-86-16	08/22/86	Ft. St. Vrain	
VII-87-09	05/19/87	Ft. St. Vrain	
VII-87-20	10/23/87	Ft. St. Vrain	
VII-88-25	06/24/88	Ft. St. Vrain	
VII-89-17	03/26/89	Ft. St. Vrain	
VII-89-22	05/24/89	Ft. St. Vrain	
X-89-12	05/29/89	Ft. St. Vrain	
VII-89-56	11/27/89	Ft. St. Vrain	
VII-90-43	08/01/90	Ft. St. Vrain	
Ft. St. Vrain			15
IB-84-14	03/26/84	GPU Corporation	
GPU Corporation			1
X-66-01	11/00/66	General Atomics	
III-70-01	04/16/70	General Atomics	
III-71-05	08/31/71	General Atomics	
IB-72-29	10/31/72	General Atomics	
IB-72-28	10/31/72	General Atomics	
IB-72-27	10/31/72	General Atomics	
IB-75-26	11/03/75	General Atomics	
IB-75-27	11/03/75	General Atomics	
IB-75-33	11/04/75	General Atomics	
IB-75-32	11/04/75	General Atomics	
IB-75-30	11/04/75	General Atomics	
IB-75-28	11/04/75	General Atomics	
IB-75-29	11/04/75	General Atomics	
IB-75-31	11/04/75	General Atomics	
IR-79-26	04/02/79	General Atomics	
IB-79-93	12/10/79	General Atomics	
III-85-02	07/17/85	General Atomics	
X-86-06	03/31/86	General Atomics	

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IB-88-19	06/15/88	General Atomics	
General Atomics			19
X-78-06	12/16/78	General Atomics, CA, to	
General Atomics, CA, to			1
IB-72-02	03/13/72	General Electric Company (San Jose)	
IB-73-06	10/28/73	General Electric Company (San Jose)	
General Electric Company (San Jose)			2
III-64-02	07/23/64	General Electric Company (Vallecitos)	
III-71-03	05/28/71	General Electric Company (Vallecitos)	
IB-75-11	07/04/75	General Electric Company (Vallecitos)	
IB-75-16	09/20/75	General Electric Company (Vallecitos)	
IB-75-18	09/20/75	General Electric Company (Vallecitos)	
IB-75-17	09/20/75	General Electric Company (Vallecitos)	
IB-75-21	10/01/75	General Electric Company (Vallecitos)	
IB-75-22	10/03/75	General Electric Company (Vallecitos)	
IB-75-36	11/29/75	General Electric Company (Vallecitos)	
IB-78-08	06/12/78	General Electric Company (Vallecitos)	
General Electric Company (Vallecitos)			10
IB-76-23	05/31/76	General Electric Company (Wilmington)	
III-79-01	01/29/79	General Electric Company (Wilmington)	
IB-79-85	11/01/79	General Electric Company (Wilmington)	
IV-83-01	02/02/83	General Electric Company (Wilmington)	
IV-87-01	06/16/87	General Electric Company (Wilmington)	
IB-87-19	07/21/87	General Electric Company (Wilmington)	
IB-89-23	09/14/89	General Electric Company (Wilmington)	
General Electric Company (Wilmington)			7
IB-74-02	01/17/74	Ginna	
II-77-02	08/18/77	Ginna	
IB-79-80	10/23/79	Ginna	
IB-87-12	04/20/87	Ginna	
IB-88-27	09/08/88	Ginna	
X-89-10	03/30/89	Ginna	
Ginna			6
III-69-02	03/05/69	Goodyear Atomic Corporation, Portsmouth, OH, to	
Goodyear Atomic Corporation, Portsmouth, OH, to			1
IB-76-18	04/23/76	Grand Gulf	
IB-76-19	04/26/76	Grand Gulf	
X-76-04	05/05/76	Grand Gulf	
IB-77-20	09/30/77	Grand Gulf	
IB-81-40	10/30/81	Grand Gulf	

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IB-82-35	08/05/82	Grand Gulf
VII-85-06	06/14/85	Grand Gulf
IB-86-17	05/13/86	Grand Gulf
VII-86-17	08/24/86	Grand Gulf
VII-88-34	08/24/88	Grand Gulf
VII-88-40	10/10/88	Grand Gulf
VII-89-09	02/10/89	Grand Gulf
VII-90-52	10/06/90	Grand Gulf
X-90-15	10/28/90	Grand Gulf

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IB-72-16	08/01/72	Gulf-United Nuclear Fuels Corporation
IB-73-01	02/05/73	Gulf-United Nuclear Fuels Corporation

Gulf-United Nuclear Fuels Corporation

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IB-83-23	08/20/83	Haddam Neck
IB-84-02	01/24/84	Haddam Neck
VII-84-07	12/09/84	Haddam Neck
VII-87-13	07/07/87	Haddam Neck
VII-87-25	11/12/87	Haddam Neck
VII-88-07	03/01/88	Haddam Neck
X-88-26	08/05/88	Haddam Neck
X-89-16	06/08/89	Haddam Neck
VII-90-01	01/03/90	Haddam Neck
VII-90-03	01/08/90	Haddam Neck
VII-90-26	04/23/90	Haddam Neck

Haddam Neck

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X-79-01	01/02/79	Harris
IB-79-44	05/25/79	Harris
IB-79-49	05/31/79	Harris
IB-80-14	02/24/80	Harris
IB-80-66	11/04/80	Harris
IB-85-03	02/14/85	Harris
IB-86-14	04/30/86	Harris
IB-86-30	09/08/86	Harris
V-86-10	11/12/86	Harris
IB-87-01	01/23/87	Harris
IB-87-05	02/22/87	Harris
IB-87-18	07/18/87	Harris
X-88-05	03/01/88	Harris
VII-88-08	03/04/88	Harris
X-88-09	03/21/88	Harris
VII-88-23	06/20/88	Harris
VII-88-29	07/13/88	Harris
VII-88-54	12/16/88	Harris
IB-89-01	01/10/89	Harris
IB-89-16	07/03/89	Harris
IB-89-15	07/03/89	Harris
VII-90-53	10/09/90	Harris
VII-90-67	11/28/90	Harris

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VII-90-69	12/05/90	Harris	
VII-90-71	12/08/90	Harris	
Harris			25
IB-79-28	04/05/79	Hartsville	
IB-79-48	05/31/79	Hartsville	
Hartsville			2
IB-75-10	06/10/75	Hatch	
VII-77-02	02/22/77	Hatch	
VII-82-03	04/26/82	Hatch	
IB-82-52	12/08/82	Hatch	
IB-84-01	01/03/84	Hatch	
V-84-02	02/04/84	Hatch	
IB-84-11	03/13/84	Hatch	
VII-84-04	05/22/84	Hatch	
V-87-07	06/10/87-	Hatch	
VII-88-43	10/19/88	Hatch	
VII-89-37	07/27/89	Hatch	
V-90-01	04/25/90	Hatch	
VII-90-35	06/11/90	Hatch	
Hatch			13
IV-80-01	04/18/80	Hittman Nuclear Development Corporation	
Hittman Nuclear Development Corporation			1
IB-80-60	09/16/80	Hope Creek	
IB-83-10	04/27/83	Hope Creek	
IB-84-22	06/20/84	Hope Creek	
VI-85-01	05/22/85	Hope Creek	
IB-85-23	12/30/85	Hope Creek	
IB-86-01	01/02/86	Hope Creek	
Hope Creek			6
X-81-05	10/22/81	Humboldt Bay	
IB-87-31	10/29/87	Humboldt Bay	
Humboldt Bay			2
III-72-01	04/11/72	Idaho Nuclear Corporation, ID, to	
Idaho Nuclear Corporation, ID, to			1
IB-70-06	11/10/70	Idaho State University	
Idaho State University			1
IA-69-01	05/04/69	Illinois Institute of Technology	

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Illinois Institute of Technology 1
III-87-01 01/23/87 Indian Point 1, 2

Indian Point 1, 2 1

VI-71-01 04/11/71 Indian Point 2
IB-74-08 05/03/74 Indian Point 2
IB-74-09 05/17/74 Indian Point 2
IB-74-16 08/16/74 Indian Point 2
IB-75-20 09/26/75 Indian Point 2
II-76-04 09/25/76 Indian Point 2
IB-77-18 08/03/77 Indian Point 2
IB-77-22 11/04/77 Indian Point 2
IB-77-25 11/22/77 Indian Point 2
IB-79-75 10/16/79- Indian Point 2
IB-79-76 10/21/79 Indian Point 2
IB-79-87 11/06/79 Indian Point 2
IB-80-17 03/21/80 Indian Point 2
IB-80-18 03/23/80 Indian Point 2
IB-80-32 05/19/80 Indian Point 2
IB-80-35 05/28/80 Indian Point 2
IB-80-36 06/01/80 Indian Point 2
IB-80-38 06/03/80 Indian Point 2
IB-80-39 06/04/80 Indian Point 2
IB-80-68 11/18/80 Indian Point 2
IB-81-03 01/20/81 Indian Point 2
IB-81-04 01/24/81 Indian Point 2
IB-81-08 02/25/81 Indian Point 2
IB-81-19 04/05/81 Indian Point 2
IB-81-22 05/06/81 Indian Point 2
IB-81-25 06/20/81 Indian Point 2
II-82-02 08/06/82 Indian Point 2
X-82-03 11/23/82 Indian Point 2
IB-84-19 04/30/84 Indian Point 2
IB-84-28 12/11/84 Indian Point 2
X-86-08 06/25/86 Indian Point 2
IB-87-06 03/06/87 Indian Point 2
IB-88-24 08/06/88 Indian Point 2
IB-88-33 10/05/88 Indian Point 2
IB-88-36 11/20/88 Indian Point 2
VII-89-29 06/13/89 Indian Point 2
IB-89-14 06/21/89 Indian Point 2
X-89-22 08/03/89 Indian Point 2
VII-89-54 11/07/89 Indian Point 2

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X-79-05 08/5/79 Indian Point 3
X-80-02 11/30/80 Indian Point 3
VII-89-10 02/13/89 Indian Point 3

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IB-72-13 06/02/72 Iowa State University

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Iowa State University			1
IB-70-02	09/11/70	Kansas State University	
Kansas State University			1
III-74-02	05/09/74	Kerr-McGee Corporation	
X-74-01	11/00/74	Kerr-McGee Corporation	
X-74-02	12/16/74	Kerr-McGee Corporation	
VII-75-03	07/02/75	Kerr-McGee Corporation	
II-75-03	07/02/75	Kerr-McGee Corporation	
IB-79-53	06/15/79	Kerr-McGee Corporation	
III-81-01	04/08/81	Kerr-McGee Corporation	
Kerr-McGee Corporation			7
III-70-02	05/16/70	Kerr-McGee Corporation, Cimarron, OK, to	
Kerr-McGee Corporation, Cimarron, OK, to			1
II-82-01	02/17/82	Kewaunee	
VII-86-11	05/08/86	Kewaunee	
X-87-13	10/24/87	Kewaunee	
IB-88-23	07/08/88	Kewaunee	
VII-90-25	04/13/90	Kewaunee	
Kewaunee			5
III-69-05	06/00/69	Kulite Tungsten Company	
Kulite Tungsten Company			1
VII-87-28	12/14/87-	LaCrosse	
LaCrosse			1
IB-79-30	04/07/79	LaSalle	
II-80-14	12/14/80	LaSalle	
VI-81-02	04/20/81	LaSalle	
VI-81-03	04/21/81	LaSalle	
VII-83-01	01/15/83	LaSalle	
VI-83-01	02/02/83	LaSalle	
V-83-05	07/15/83	LaSalle	
V-85-01	02/15/85-	LaSalle	
VII-85-03	03/08/85	LaSalle	
IB-86-13	04/25/86	LaSalle	
VII-88-48	11/26/88	LaSalle	
IB-90-02	05/04/90	LaSalle	
X-90-16	10/28/90	LaSalle	
LaSalle			13
VII-71-01	01/20/71	Laramie, WY	

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Laramie, WY 1
III-78-01 09/15/78 Ledoux and Company, Teaneck, NJ to

Ledoux and Company, Teaneck, NJ to 1

IB-76-37	08/25/76	Limerick
VI-82-02	06/30/82	Limerick
VII-84-06	10/30/84	Limerick
IB-86-22	07/15/86	Limerick
VII-86-13	07/17/86	Limerick
X-87-09	09/25/86-	Limerick
IB-85-37	10/10/86	Limerick
IB-86-43	12/22/86	Limerick
V-87-03	02/07/87	Limerick
IB-87-08	03/08/87	Limerick
VII-87-12	07/03/87	Limerick
V-87-08	08/02/87	Limerick
V-87-09	08/03/87	Limerick
VII-88-14	04/06/88	Limerick
VII-88-16	04/22/88	Limerick
X-88-17	06/17/88	Limerick
X-88-22	07/24/88	Limerick
VII-88-52	12/15/88	Limerick
VII-89-07	02/04/89	Limerick
V-89-3	03/29/89	Limerick
X-89-26	09/11/89	Limerick
IB-89-22	09/11/89	Limerick
X-90-10	06/08/90	Limerick
VII-90-41	07/26/90	Limerick

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IB-74-04	03/08/74	Maine Yankee
IB-74-05	03/11/74	Maine Yankee
X-81-01	03/03/81	Maine Yankee
X-81-13	06/04/81	Maine Yankee
IB-81-30	07/26/81	Maine Yankee
V-82-08	11/18/82	Maine Yankee
V-84-06	04/18/84	Maine Yankee
VII-86-14	07/17/86	Maine Yankee
IB-89-21	09/07/89	Maine Yankee
IB-90-04	05/21/90	Maine Yankee
IB-90-37	08/29/90	Maine Yankee

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IB-82-18	04/15/82-	Marble Hill
IB-82-09-	04/15/82-	Marble Hill
IB-82-17	04/15/82-	Marble Hill
IB-82-23	04/15/82-	Marble Hill
IB-82-10	04/15/82-	Marble Hill
IB-82-26	04/15/82-	Marble Hill
IB-82-24	04/15/82-	Marble Hill
IB-82-20	04/15/82-	Marble Hill

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IB-82-16	04/15/82-	Marble Hill
IB-82-15	04/15/82-	Marble Hill
IB-82-11	04/15/82-	Marble Hill
IB-82-14	04/15/82-	Marble Hill
IB-82-22	04/15/82-	Marble Hill
IB-82-13	04/15/82-	Marble Hill
IB-82-19	04/15/82-	Marble Hill
IB-82-12	04/15/82-	Marble Hill
IB-82-25	04/15/82-	Marble Hill
IB-82-21	04/15/82-	Marble Hill

Marble Hill

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III-69-07	07/01/69	Massachusetts Institute of Technology
II-75-04	09/25/75	Massachusetts Institute of Technology
IB-76-02	01/22/76	Massachusetts Institute of Technology
IB-76-03	01/23/76	Massachusetts Institute of Technology
IB-76-04	01/30/76	Massachusetts Institute of Technology

Massachusetts Institute of Technology

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X-81-04	07/31/81	McGuire
IB-85-17	09/20/85	McGuire
VII-86-20	11/18/86	McGuire
IB-88-15	04/03/88	McGuire
VII-90-13	02/19/90	McGuire

McGuire

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III-89-03	11/02/89	Mercy Hospital
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Mercy Hospital

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V-79-03	05/30/79	Midland
VI-80-01	02/23/80	Midland
VI-80-02	03/26/80	Midland
IB-81-16	03/23/81	Midland
IB-84-03	01/25/84	Midland
V-84-07	05/22/84	Midland
V-84-08	06/20/84	Midland
V-84-09	07/01/84	Midland

Midland

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IB-75-05	04/10/75	Millstone
VII-75-01	04/14/75	Millstone
IB-75-09	05/12/75	Millstone
IB-75-14	08/22/75	Millstone
IB-76-16	04/06/76	Millstone
IB-77-05	03/03/77	Millstone
IB-78-07	05/25/78	Millstone
IB-78-10	06/16/78	Millstone
IB-78-14	07/15/78	Millstone
VII-78-02	09/03/78	Millstone

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IB-79-43	05/21/79	Millstone	
VII-73-05	11/8/79	Millstone	
II-81-01	04/18/81	Millstone	
II-81-02	08/28/81	Millstone	
IB-81-48	12/28/81	Millstone	
X-81-06	12/31/81	Millstone	
IB-82-39	10/25/82	Millstone	
IB-82-42	11/19/82	Millstone	
V-83-04	06/28/83	Millstone	
II-84-04	09/25/84	Millstone	
VII-85-04	03/13/85	Millstone	
VII-85-15	11/13/85	Millstone	
IB-86-12	04/21/86	Millstone	
VII-86-19	11/13/86	Millstone	
VII-87-01	03/09/87	Millstone	
IB-87-20	07/24/87	Millstone	
IB-88-18	05/16/88	Millstone	
VII-88-50	12/04/88	Millstone	
VII-89-04	01/19/89	Millstone	
VII-90-22	03/21/90	Millstone	
X-90-13	10/04/90	Millstone	
Millstone			31
III-69-08	07/11/69-	Monsanto Research Corporation, Dayton, OH, to	
Monsanto Research Corporation, Dayton, OH, to			1
X-85-02	02/04/85	Monticello	
IB-85-13	08/25/85	Monticello	
IB-85-18	09/21/85	Monticello	
IB-86-03	01/17/86	Monticello	
VII-89-34	07/17/89	Monticello	
VII-89-46	09/27/89	Monticello	
Monticello			6
III-67-03	12/15/67	National Bureau of Standards, MD	
National Bureau of Standards, MD			1
III-68-02	01/29/68	National Lead Company	
National Lead Company			1
III-75-01	03/21/75	National Nuclear Corporation, CA, to	
National Nuclear Corporation, CA, to			1
III-69-09	08/05/69	Naval Radiological Defense Laboratory	
Naval Radiological Defense Laboratory			1
III-69-03	03/11/69	New York, NY, to	

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New York, NY, to			1
II-79-01	02/06/79	Nine Mile Point	
V-81-06	08/18/81	Nine Mile Point	
IB-84-10	03/12/84	Nine Mile Point	
IB-89-02	01/31/89	Nine Mile Point	
III-89-01	02/11/89	Nine Mile Point	
VII-90-18	03/02/90	Nine Mile Point	
Nine Mile Point			6
IB-71-08	10/18/71	North Anna	
IB-72-05	04/28/72	North Anna	
IB-72-06	05/05/72	North Anna	
IB-72-07	05/11/72	North Anna	
IB-72-08	05/12/72	North Anna	
IB-72-18	08/01/72	North Anna	
IB-72-19	08/10/72	North Anna	
IB-72-20	08/10/72	North Anna	
IB-72-21	08/11/72	North Anna	
IB-72-22	08/14/72	North Anna	
IB-72-23	08/15/72	North Anna	
IB-76-20	05/04/76	North Anna	
IB-76-22	05/07/76	North Anna	
IB-76-36	08/22/76	North Anna	
IB-76-38	08/31/76	North Anna	
IB-76-39	09/01/76	North Anna	
IB-76-40	09/02/76	North Anna	
IB-76-41	09/19/76	North Anna	
X-76-11	09/23/76	North Anna	
IB-76-44	10/06/76	North Anna	
IB-76-43	10/06/76	North Anna	
IB-76-42	10/06/76	North Anna	
IB-76-45	10/07/76	North Anna	
IB-76-46	10/13/76	North Anna	
IB-76-47	10/14/76	North Anna	
IB-76-48	10/15/76	North Anna	
IB-76-49	10/15/76	North Anna	
IB-76-50	10/15/76	North Anna	
IB-76-52	11/03/76	North Anna	
IB-82-02	03/01/82	North Anna	
VII-85-16	12/05/85	North Anna	
VII-85-19	12/31/85	North Anna	
X-88-21	07/18/88	North Anna	
X-88-27	08/09/88	North Anna	
VII-89-35	07/18/89	North Anna	
North Anna			35
IB-76-32	07/14/76	Northern States Power Company (NSP)	
Northern States Power Company (NSP)			1
III-68-05	12/00/68	Nuclear Fuel Services, Incorporated	

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II-74-01	05/16/74	Nuclear Fuel Services, Incorporated	
II-75-01	02/23/75	Nuclear Fuel Services, Incorporated	
III-79-02	08/00/79	Nuclear Fuel Services, Incorporated	
IB-80-65	10/28/80	Nuclear Fuel Services, Incorporated	
V-85-03	05/15/85	Nuclear Fuel Services, Incorporated	
V-85-06	06/21/85	Nuclear Fuel Services, Incorporated	
VII-85-08	07/05/85	Nuclear Fuel Services, Incorporated	
VII-85-17	12/11/85	Nuclear Fuel Services, Incorporated	
VII-86-04	03/12/86	Nuclear Fuel Services, Incorporated	
VI-86-01	03/12/86	Nuclear Fuel Services, Incorporated	
VI-86-02	03/19/86	Nuclear Fuel Services, Incorporated	
VI-86-03	03/20/86	Nuclear Fuel Services, Incorporated	
VII-86-06	03/24/86	Nuclear Fuel Services, Incorporated	
VII-88-36	09/05/88	Nuclear Fuel Services, Incorporated	
VII-88-55	12/16/88	Nuclear Fuel Services, Incorporated	
VII-90-65	11/23/90	Nuclear Fuel Services, Incorporated	
Nuclear Fuel Services, Incorporated			17
III-69-04	04/21/69	Nuclear Fuel Services, Incorporated (West Valley)	
VI-75-01	07/23/75	Nuclear Fuel Services, Incorporated (West Valley)	
Nuclear Fuel Services, Incorporated (West Valley)			2
III-60-01	00/00/60	Nuclear Materials and Equipment Corporation	
II-62-01	10/25/62	Nuclear Materials and Equipment Corporation	
III-71-01	02/16/71	Nuclear Materials and Equipment Corporation	
Nuclear Materials and Equipment Corporation			3
IB-76-26	06/03/76	Nuclear Power Plants	
IB-76-27	06/07/76	Nuclear Power Plants	
IB-76-29	06/23/76	Nuclear Power Plants	
IB-90-10	10/22/90	Nuclear Power Plants	
Nuclear Power Plants			4
IB-71-05	08/17/71	Oconee	
II-73-01	03/15/73	Oconee	
IB-75-39	12/23/75	Oconee	
IB-81-27	07/15/81	Oconee	
IB-85-11	07/21/85	Oconee	
X-88-02	01/25/88	Oconee	
X-88-30	09/21/88	Oconee	
Oconee			7
IB-75-42	12/31/75	Oyster Creek	
II-76-02	04/26/76	Oyster Creek	
IB-78-22	10/15/78	Oyster Creek	
IB-81-39	10/29/81	Oyster Creek	
IB-82-38	10/01/82	Oyster Creek	
IB-82-37	10/01/82	Oyster Creek	
IB-83-09	04/22/83	Oyster Creek	

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IB-83-11	04/27/83	Oyster Creek
IB-83-39	12/06/83	Oyster Creek
IB-84-16	04/08/84	Oyster Creek
IB-84-21	05/23/84	Oyster Creek
IB-84-25	09/12/84	Oyster Creek
II-84-05	11/26/84	Oyster Creek
IB-86-09	03/24/86	Oyster Creek
V-87-10	10/31/87	Oyster Creek
IV-87-02	11/19/87	Oyster Creek

Oyster Creek 16

IB-78-06	04/13/78	Oyster Creek/Forked River
IB-80-29	05/17/80	Oyster Creek/Forked River

Oyster Creek/Forked River 2

IB-72-31	12/29/72	Palisades
X-75-03	12/02/75	Palisades
X-77-01	07/17/77	Palisades
X-78-04	04/01/78	Palisades
IB-80-59	05/11/80	Palisades
V-81-07	10/03/81	Palisades
VII-86-22	12/12/86	Palisades
VII-87-26	11/20/87	Palisades
X-88-10	03/22/88	Palisades
IB-89-18	08/08/89	Palisades

Palisades 10

IB-77-03	02/17/77	Palo Verde
IB-78-12	06/30/78	Palo Verde
IB-82-01	02/19/82	Palo Verde
V-84-03	02/07/84	Palo Verde
V-84-05	03/30/84	Palo Verde
V-85-07	07/08/85	Palo Verde
V-85-08	07/26/85	Palo Verde
V-85-10	08/15/85	Palo Verde
V-86-04	04/23/86	Palo Verde
VIII-86-01	05/14/86	Palo Verde
IB-86-20	05/28/86	Palo Verde
V-86-05	06/19/86-	Palo Verde
IB-86-26	08/22/86	Palo Verde
VII-87-03	04/04/87	Palo Verde
VII-87-06	04/20/87	Palo Verde
VII-88-12	03/29/88	Palo Verde
VII-88-15	04/13/88	Palo Verde
IB-89-05	02/23/89	Palo Verde
VII-89-42	09/05/89	Palo Verde
VII-89-43	09/15/89	Palo Verde
X-89-36	10/26/89	Palo Verde
VII-90-06	01/17/90	Palo Verde
VII-90-10	02/14/90	Palo Verde

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Palo Verde			23
IB-75-04	04/01/75	Peach Bottom	
IB-76-31	07/03/76	Peach Bottom	
IB-77-23	11/06/77	Peach Bottom	
V-79-05	09/21/79	Peach Bottom	
VII-82-01	02/25/82	Peach Bottom	
VI-83-02	03/08/83	Peach Bottom	
IB-83-32	10/18/83	Peach Bottom	
VII-85-14	10/28/85	Peach Bottom	
IB-86-16	05/06/86-	Peach Bottom	
V-86-07	10/17/86	Peach Bottom	
IB-87-26	09/20/87	Peach Bottom	
IB-87-32	11/18/87	Peach Bottom	
IB-87-33	11/20/87	Peach Bottom	
IB-88-01	01/20/88	Peach Bottom	
VII-88-11	03/13/88	Peach Bottom	
X-88-18	06/19/88	Peach Bottom	
X-88-23	07/24/88	Peach Bottom	
IB-89-13	05/25/89	Peach Bottom	
X-89-19	07/11/89	Peach Bottom	
IP-89-19	08/25/89	Peach Bottom	
V-89-09	08/29/89	Peach Bottom	
VII-90-27	04/24/90	Peach Bottom	
Peach Bottom			22
III-67-02	10/03/67	Pennsylvania State University	
Pennsylvania State University			1
V-81-09	12/01/81	Perry	
V-82-01	02/22/82	Perry	
III-86-02	07/02/86	Perry	
X-89-02	01/18/89	Perry	
Perry			4
IB-80-49	07/24/80	Phipps Bend	
IB-80-51	08/04/80	Phipps Bend	
IB-80-52	08/05/80	Phipps Bend	
Phipps Bend			3
IA-74-01	08/26/74	Pilgrim	
IB-74-20	11/04/74	Pilgrim	
IB-75-24	10/17/75	Pilgrim	
X-75-02	10/22/75	Pilgrim	
IB-75-35	11/08/75	Pilgrim	
IB-75-34	11/08/75	Pilgrim	
IB-76-24	06/02/76	Pilgrim	
II-79-03	07/11/79	Pilgrim	
IB-80-04	01/24/80	Pilgrim	
IB-80-07	01/25/80	Pilgrim	
II-80-01	02/23/80	Pilgrim	

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IB-80-21	04/04/80	Pilgrim
IB-81-07	02/14/81	Pilgrim
VI-82-01	04/15/82	Pilgrim
IB-82-40	11/02/82	Pilgrim
VII-84-03	04/18/84	Pilgrim
IB-85-01	01/10/85	Pilgrim
IB-86-28	08/26/86-	Pilgrim
X-87-12	09/05/87	Pilgrim
IB-89-10	04/05/89	Pilgrim
X-89-17	06/19/89	Pilgrim
X-89-38	10/30/89	Pilgrim
X-90-05	04/19/90	Pilgrim
VII-90-36	06/12/90	Pilgrim

Pilgrim

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IA-70-01	00/00/70	Point Beach
VII-75-02	04/14/75	Point Beach
IB-83-18	08/03/83	Point Beach
VII-83-04	12/16/83	Point Beach
VII-85-09	07/12/85	Point Beach
VII-86-08	04/07/86	Point Beach
VII-88-13	04/05/88	Point Beach
VII-88-22	06/13/88	Point Beach
IB-89-04	01/29/89	Point Beach
VII-89-38	08/14/89	Point Beach
V-89-13	10/26/89	Point Beach
VII-90-66	11/27/90	Point Beach

Point Beach

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X-79-06	08/10/79	Power Operation Support Facility
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Power Operation Support Facility

1

IB-80-13	02/18/80	Prairie Island
IB-85-14	09/07/85	Prairie Island
IB-85-16	09/17/85	Prairie Island
IB-86-42	11/29/86	Prairie Island
VII-88-01	01/16/88	Prairie Island

Prairie island

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III-64-01	06/12/64	Pratt and Whitney
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Pratt and Whitney

1

IB-71-04	06/23/71	Purdue University
IB-76-14	03/25/76	Purdue University

Purdue University

2

IB-77-26	12/13/77	Quad Cities
VII-79-02	07/02/79	Quad Cities

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V-79-07	12/03/79	Quad Cities
III-80-03	07/11/80	Quad Cities
IB-80-73	12/15/80	Quad Cities
IB-81-47	12/27/81	Quad Cities
IB-82-36	09/15/82	Quad Cities
VII-86-15	08/13/86	Quad Cities
VII-90-15	02/20/90	Quad Cities

Quad Cities

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X-76-06	06/02/76	Rancho Seco
VII-80-05	12/05/80	Rancho Seco
IB-82-28	04/23/82	Rancho Seco
V-83-03	06/20/83	Rancho Seco
IB-85-15	09/13/85	Rancho Seco
VII-86-02	02/02/86	Rancho Seco
IB-86-38	10/31/86	Rancho Seco
VII-86-18	11/12/86	Rancho Seco
X-87-04	02/12/87	Rancho Seco
X-87-05	02/13/87	Rancho Seco
IB-87-27	09/23/87	Rancho Seco
IB-88-04	02/11/88	Rancho Seco
IB-88-07	02/29/88	Rancho Seco
IB-88-14	03/31/88	Rancho Seco
VII-88-18	04/28/88	Rancho Seco
VII-88-39	10/05/88	Rancho Seco
VII-88-42	10/14/88	Rancho Seco
VII-89-08	02/07/89	Rancho Seco
VII-89-47	10/04/89	Rancho Seco
X-89-35	10/26/89	Rancho Seco
VII-90-02	01/04/90	Rancho Seco
VII-90-19	03/12/90	Rancho Seco

Rancho Seco

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IB-79-59	07/25/79	River Bend
IB-80-22	04/14/80	River Bend
IB-80-23	04/15/80	River Bend
IB-80-25	04/22/80	River Bend
IB-81-09	03/02/81	River Bend
IB-81-10	03/03/81	River Bend
V-84-13	12/04/84	River Bend
VII-85-10	08/01/85	River Bend
IB-87-35	12/11/87	River Bend
IB-88-03	02/09/88	River Bend
VII-88-32	08/11/88	River Bend
IB-88-28	09/20/88	River Bend
IB-88-29	09/21/88	River Bend
IB-88-31	09/23/88	River Bend
IB-88-32	09/27/88	River Bend
X-88-34	10/07/88	River Bend
X-88-37	12/06/88	River Bend
VII-88-56	12/28/88	River Bend
VII-89-05	01/25/89	River Bend

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VII-89-11	02/24/89	River Bend
VII-89-12	03/08/89	River Bend
VII-89-13	03/09/89	River Bend
VII-89-21	04/30/89	River Bend
VII-89-25	06/02/89	River Bend
VII-89-32	06/30/89	River Bend
X-89-30	09/29/89	River Bend
X-89-34	10/23/89	River Bend
VII-90-07	01/26/90	River Bend
VII-90-14	02/19/90	River Bend
X-90-09	05/25/90	River Bend
VII-90-47	09/11/90	River Bend
IB-90-09	09/26/90	River Bend
VII-90-55	10/16/90	River Bend
VII-90-60	10/26/90	River Bend
X-90-18	12/28/90	River Bend

River Bend

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IB-80-58	09/11/80	Robinson
IB-80-61	09/18/80	Robinson
IB-80-62	09/20/80	Robinson
VII-81-01	04/24/81	Robinson
IB-81-42	11/30/81	Robinson
IB-82-07	04/07/82	Robinson
IB-84-06	02/10/84	Robinson
X-87-10	07/22/87	Robinson
VII-88-10	03/07/88	Robinson
IB-89-06	03/05/89	Robinson
X-89-27	09/20/89	Robinson
X-90-07	04/23/90	Robinson

Robinson

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IB-77-13	04/06/77	Salem
VII-79-03	07/22/79	Salem
IB-79-60	07/30/79	Salem
IB-79-73	10/10/79	Salem
V-80-07	07/25/80	Salem
V-80-08	09/10/80	Salem
V-82-02	04/28/82	Salem
V-82-03	05/01/82	Salem
V-82-05	08/09/82	Salem
V-82-06	08/16/82	Salem
V-82-07	09/03/82	Salem
IB-83-12	05/04/83	Salem
IB-84-24	08/27/84	Salem
VII-85-01	01/04/85	Salem
IB-87-29	10/26/87	Salem
IB-87-30	10/27/87	Salem

Salem

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IB-72-17	08/00/72	San Onofre
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IB-72-26	10/20/72	San Onofre
IB-73-05	06/19/73	San Onofre
IB-74-14	07/24/74	San Onofre
X-78-02	02/15/78	San Onofre
IB-78-09	06/14/78	San Onofre
IB-79-37	05/09/79	San Onofre
IB-81-05	01/29/81	San Onofre
IB-81-11	03/03/81	San Onofre
IB-81-12	03/05/81	San Onofre
IB-81-26	06/30/81	San Onofre
IB-81-31	08/05/81	San Onofre
IB-81-35	09/09/81	San Onofre
IA-82-02	11/18/82	San Onofre
VII-83-02	01/26/83	San Onofre
X-84-01	11/24/84	San Onofre
VII-85-05	05/11/85	San Onofre
VII-86-10	04/21/86	San Onofre
V-86-12	11/29/86	San Onofre
V-86-13	12/02/86	San Onofre
X-87-15	12/09/87	San Onofre
V-88-07	11/26/88	San Onofre
X-89-37	10/27/89	San Onofre
X-90-02	02/07/90	San Onofre

San Onofre

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IB-82-34	08/03/82	Seabrook
IB-86-04	01/23/86	Seabrook
IB-86-18	05/14/86	Seabrook
IB-86-21	06/24/86	Seabrook
IB-86-27	08/24/86	Seabrook
IB-86-35	09/26/86	Seabrook
IB-86-36	10/09/86	Seabrook
X-87-01	01/17/87	Seabrook
IB-88-21	07/05/88	Seabrook
IB-89-12	05/24/89	Seabrook
X-89-13	05/30/89	Seabrook
VII-89-31	06/23/89	Seabrook
IB-90-01	02/20/90	Seabrook
VII-90-28	04/30/90	Seabrook
IB-90-03	05/17/90	Seabrook
IB-90-05	06/18/90	Seabrook
IB-90-06	07/17/90	Seabrook

Seabrook

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X-78-01	01/12/78	Seaway Salvage Company
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Seaway Salvage Company

1

II-78-04	10/04/78	Sequoyah
IB-79-13	02/26/79	Sequoyah
IB-79-14	02/27/79	Sequoyah
IB-79-16	03/01/79	Sequoyah

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IB-79-54	06/22/79	Sequoyah	
IB-79-62	08/04/79	Sequoyah	
II-80-02	03/04/80	Sequoyah	
IB-80-26	04/23/80	Sequoyah	
II-80-07	07/05/80	Sequoyah	
IB-80-50	08/01/80	Sequoyah	
IB-80-54	08/22/80	Sequoyah	
IB-80-69	11/22/80	Sequoyah	
IB-81-13	03/09/81	Sequoyah	
VI-84-02	02/23/84	Sequoyah	
IB-86-08	03/07/86	Sequoyah	
III-86-04	10/24/86	Sequoyah	
X-87-06	03/28/87	Sequoyah	
V-87-11	12/11/87	Sequoyah	
IB-88-25	09/07/88	Sequoyah	
VII-89-30	06/15/89	Sequoyah	
Sequoyah			20
X-86-03	01/30/86	Sequoyah Fuels Corporation	
X-86-04	02/23/86	Sequoyah Fuels Corporation	
X-87-07	05/19/87	Sequoyah Fuels Corporation	
X-89-01	01/16/89	Sequoyah Fuels Corporation	
Sequoyah Fuels Corporation			4
III-85-03	12/18/85	Shadyside Hospital	
Shadyside Hospital			1
IB-76-51	10/15/76	Shippingport Power Plant	
Shippingport Power Plant			1
IB-75-41	12/23/75	Shoreham	
IB-75-40	12/23/75	Shoreham	
X-76-10	08/27/76	Shoreham	
IB-77-14	04/27/77	Shoreham	
IB-77-15	05/10/77	Shoreham	
IB-78-04	03/10/78	Shoreham	
IB-83-02	01/19/83	Shoreham	
VII-84-05	06/03/84	Shoreham	
IB-85-02	01/23/85	Shoreham	
VII-85-02	02/20/85	Shoreham	
X-85-03	04/18/85	Shoreham	
IB-85-08	06/15/85	Shoreham	
IB-85-19	10/06/85	Shoreham	
IB-86-05	02/11/86	Shoreham	
IB-87-11	04/02/87	Shoreham	
IB-87-13	04/24/87	Shoreham	
IB-87-16	07/04/87	Shoreham	
IB-87-34	12/04/87	Shoreham	
X-89-18	06/27/89	Shoreham	
V-89-12	10/16/89	Shoreham	

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Shoreham			20
V-78-01	05/29/78	Skagit Units 1 and 2	
Skagit Units 1 and 2			1
IB-79-83	10/29/79	South Texas	
X-86-01	01/11/86	South Texas	
X-86-02	01/14/86	South Texas	
V-86-02	02/07/86	South Texas	
V-86-08	10/31/86	South Texas	
V-86-09	11/11/86	South Texas	
IB-86-41	11/15/86	South Texas	
V-87-02	01/15/87	South Texas	
IB-87-02	01/28/87	South Texas	
IB-88-06	02/18/88	South Texas	
X-88-07	03/16/88	South Texas	
IB-88-11	03/16/88	South Texas	
X-88-11	04/04/88	South Texas	
VII-88-20	06/06/88	South Texas	
IB-88-34	10/12/88	South Texas	
IB-89-25	12/14/89	South Texas	
VII-90-40	07/25/90	South Texas	
VII-90-44	08/21/90	South Texas	
South Texas			18
III-87-02	04/01/87	St. Francis Hospital	
St. Francis Hospital			1
IB-78-13	07/07/78	St. Lucie	
IB-79-68	09/22/79	St. Lucie	
IB-80-12	02/13/80	St. Lucie	
II-80-10	09/03/80	St. Lucie	
IB-81-17	03/30/81	St. Lucie	
IB-84-04	01/26/84	St. Lucie	
X-84-02	12/04/84	St. Lucie	
IB-88-05	02/14/88	St. Lucie	
X-88-19	06/24/88	St. Lucie	
X-88-20	07/14/88	St. Lucie	
X-88-25	08/02/88	St. Lucie	
X-88-28	09/01/88	St. Lucie	
V-89-01	02/07/89	St. Lucie	
VII-89-15	03/22/89	St. Lucie	
VII-89-39	08/14/89	St. Lucie	
VII-89-55	11/11/89	St. Lucie	
VII-90-20	03/12/90	St. Lucie	
VII-90-21	03/12/90	St. Lucie	
VII-90-31	05/06/90	St. Lucie	
VII-90-45	08/24/90	St. Lucie	
VII-90-51	10/01/90	St. Lucie	
St. Lucie			21

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IA-72-01	11/07/72	State University	
State University			1
III-86-01	01/13/86	State of Alabama (AL)	
State of Alabama (AL)			1
IB-77-01	01/26/77	Summer	
IB-77-16	05/19/77	Summer	
IB-78-02	01/31/78	Summer	
VI-78-01	12/13/78	Summer	
V-78-02	12/13/78	Summer	
IB-79-33	04/26/79	Summer	
IB-79-36	04/30/79	Summer	
IB-79-39	05/09/79	Summer	
IB-79-46	05/30/79	Summer	
IB-79-65	08/21/79	Summer	
IB-79-67	09/17/79	Summer	
IB-82-30	06/23/82	Summer	
IB-82-41	11/03/82	Summer	
IB-85-04	05/04/85	Summer	
IB-86-40	11/11/86-	Summer	
Summer			15
IB-71-06	09/18/71	Surry	
IB-72-01	01/20/72	Surry	
V-79-01	05/07/79	Surry	
IB-79-38	05/09/79	Surry	
V-79-02	05/09/79	Surry	
IB-79-40	05/10/79	Surry	
IB-79-42	05/12/79	Surry	
IB-79-56	06/27/79	Surry	
IB-79-57	07/04/79	Surry	
IB-79-64	08/16/79	Surry	
VII-86-03	02/05/86	Surry	
IB-86-23	07/19/86	Surry	
IV-88-03	08/26/88	Surry	
X-88-31	09/23/88	Surry	
X-88-32	09/29/88	Surry	
VII-90-49	09/27/90	Surry	
Surry			16
IB-76-06	02/04/76	Susquehanna	
IB-76-08	03/05/76	Susquehanna	
IB-76-10	03/08/76	Susquehanna	
IB-76-12	03/15/76	Susquehanna	
IB-76-13	03/16/76	Susquehanna	
IB-76-25	06/03/76	Susquehanna	
IB-79-24	03/31/79	Susquehanna	
IB-79-25	04/01/79	Susquehanna	
V-81-01	01/27/81	Susquehanna	

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IB-83-16	06/23/83	Susquehanna	
V-83-06	07/26/83	Susquehanna	
IB-87-15	05/26/87	Susquehanna	
VII-89-50	10/26/89	Susquehanna	
VII-90-58	10/24/90	Susquehanna	
Susquehanna			14
IV-76-01	06/16/76	Tennessee (TN) to Virginia	
Tennessee (TN) to Virginia			1
IB-89-07	03/07/89	Texas A and M University	
Texas A and M University			1
IB-72-24	09/25/72	Three Mile Island	
IB-73-02	03/23/73	Three Mile Island	
IB-73-07	11/05/73	Three Mile Island	
II-76-01	01/27/76	Three Mile Island	
IB-77-04	03/01/77	Three Mile Island	
VII-78-01	05/18/78	Three Mile Island	
X-79-04	07/31/79	Three Mile Island	
IV-79-03	11/20/79	Three Mile Island	
IB-79-92	12/07/79	Three Mile Island	
X-80-01	01/02/80	Three Mile Island	
V-80-04	03/01/80	Three Mile Island	
IB-80-20	03/27/80	Three Mile Island	
II-80-03	04/23/80	Three Mile Island	
II-80-08	07/07/80	Three Mile Island	
IB-80-40	07/09/80	Three Mile Island	
IB-80-43	07/15/80	Three Mile Island	
IB-81-21	04/17/81	Three Mile Island	
IB-83-36	11/10/83	Three Mile Island	
II-85-02	05/09/85	Three Mile Island	
X-89-11	04/01/89	Three Mile Island	
Three Mile Island			20
V-74-01	00/00/74	Trojan	
IB-75-25	11/03/75	Trojan	
IA-77-01	10/10/77	Trojan	
IB-78-18	09/11/78	Trojan	
IB-79-51	06/07/79	Trojan	
IB-80-08	01/26/80	Trojan	
IB-80-10	01/30/80	Trojan	
IB-80-11	02/02/80	Trojan	
IB-80-53	08/07/80	Trojan	
IB-81-02	01/19/81	Trojan	
IB-82-53	12/17/82	Trojan	
V-84-01	01/16/84	Trojan	
V-87-05	05/20/87	Trojan	
X-89-09	03/20/89	Trojan	
IB-89-09	03/21/89	Trojan	

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VII-89-23	05/26/89	Trojan
VII-89-40	08/27/89	Trojan
X-89-28	09/26/89	Trojan
VII-90-39	07/13/90	Trojan

Trojan

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IB-73-08	11/16/73	Turkey Point
IB-76-11	03/09/76	Turkey Point
IB-76-17	04/23/76	Turkey Point
IB-76-35	08/12/76	Turkey Point
IB-79-55	06/22/79	Turkey Point
IB-80-30	05/18/80	Turkey Point
VII-82-02	01/14/82	Turkey Point
IB-82-03	03/16/82	Turkey Point
IB-82-27	04/21/82	Turkey Point
IB-85-06	06/06/85	Turkey Point
IB-85-09	06/18/85	Turkey Point
VII-87-21	10/27/87	Turkey Point
VII-87-27	12/09/87	Turkey Point
VII-88-06	02/26/88	Turkey Point
IB-88-13	03/30/88	Turkey Point
VII-88-17	04/22/88	Turkey Point
VII-88-19	05/06/88	Turkey Point
VII-88-26	06/30/88	Turkey Point
VII-88-30	07/13/88	Turkey Point
VII-88-31	08/03/88	Turkey Point
VII-88-35	08/31/88	Turkey Point
VII-88-38	09/09/88	Turkey Point
VII-88-45	11/14/88	Turkey Point
VII-89-06	01/31/89	Turkey Point
X-89-06	02/10/89	Turkey Point
VII-89-16	03/26/89	Turkey Point
VII-89-26	06/06/89	Turkey Point
VII-89-28	06/13/89	Turkey Point
IB-89-20	09/04/89	Turkey Point
X-89-33	10/23/89	Turkey Point
VII-89-59	12/14/89	Turkey Point
VII-90-11	02/15/90	Turkey Point
VII-90-16	02/22/90	Turkey Point
VII-90-48	03/17/90	Turkey Point
VII-90-61	10/26/90	Turkey Point
VII-90-68	12/02/90	Turkey Point

Turkey Point

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X-89-25	08/30/89	U. S. Nuclear Power Plants
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U. S. Nuclear Power Plants

1

III-87-04	07/16/87	U.S. Air Force
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U.S. Air Force

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II-74-03	09/04/74	U.S. Nuclear Corporation	
VII-77-01	02/06/77	U.S. Nuclear Corporation	
U.S. Nuclear Corporation			2
X-76-07	06/16/76	Union Carbide Corporation Research Center	
Union Carbide Corporation Research Center			1
IB-69-01	03/01/69	United Nuclear Corporation	
IB-70-01	04/22/70	United Nuclear Corporation	
III-70-03	06/15/70	United Nuclear Corporation	
IB-70-04	11/04/70	United Nuclear Corporation	
IB-70-05	11/06/70	United Nuclear Corporation	
IB-71-07	10/13/71	United Nuclear Corporation	
X-72-01	03/23/72	United Nuclear Corporation	
II-74-02	05/27/74	United Nuclear Corporation	
III-75-02	08/28/75	United Nuclear Corporation	
III-78-02	10/25/78	United Nuclear Corporation	
IB-79-45	05/26/79	United Nuclear Corporation	
VII-80-03	05/01/80	United Nuclear Corporation	
IB-80-71	12/12/80	United Nuclear Corporation	
IB-81-15	03/15/81	United Nuclear Corporation	
IB-81-33	08/19/81	United Nuclear Corporation	
IB-81-37	10/01/81	United Nuclear Corporation	
VII-82-07	08/25/82	United Nuclear Corporation	
II-85-01	03/20/85	United Nuclear Corporation	
VII-86-12	05/16/86	United Nuclear Corporation	
United Nuclear Corporation			19
IB-87-09	03/12/87	University of Arizona	
University of Arizona			1
IB-82-43	11/22/82	University of California at Los Angeles (UCLA)	
University of California at Los Angeles (UCLA)			1
III-68-04	09/20/68	University of Florida	
University of Florida			1
III-87-03	06/02/87	University of Michigan	
University of Michigan			1
IA-78-01	09/01/78	University of New Mexico	
University of New Mexico			1
IB-79-35	04/30/79	University of Southern California	
University of Southern California			1

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IB-80-15	02/27/80	University of Utah	
University of Utah			1
IB-83-05	02/10/83	University of Wisconsin	
University of Wisconsin			1
III-69-01	03/00/69	Unknown location	
Unknown location			1
IB-75-07	04/16/75	Unspecified Plant in New York	
IB-75-13	08/21/75	Unspecified Plant in New York	
Unspecified Plant in New York			2
II-71-01	08/30/71	Vermont Yankee	
IB-82-31	06/24/82	Vermont Yankee	
II-85-04	09/20/85	Vermont Yankee	
V-86-01	01/09/86	Vermont Yankee	
X-87-02	01/19/87	Vermont Yankee	
X-89-45	12/10/89	Vermont Yankee	
X-90-08	04/28/90	Vermont Yankee	
IB-90-11	12/25/90	Vermont Yankee	
Vermont Yankee			8
X-79-07	10/25/79	Vernon County Sheriff's Department	
Vernon County Sheriff's Department			1
IB-83-27	09/01/83	Vogtle	
IB-83-30	10/08/83-	Vogtle	
IB-84-09	03/05/84	Vogtle	
IB-84-12	03/15/84	Vogtle	
IB-84-15	03/29/84	Vogtle	
IB-85-07	06/13/85	Vogtle	
IB-85-20	10/21/85	Vogtle	
IB-86-02	01/11/86	Vogtle	
V-86-11	11/17/86	Vogtle	
IB-87-14	05/13/87	Vogtle	
X-87-08	05/28/87	Vogtle	
IB-87-24	09/14/87	Vogtle	
IB-87-25	09/15/87	Vogtle	
IB-88-16	04/08/88	Vogtle	
IB-88-17	04/19/88	Vogtle	
VII-88-24	06/21/88	Vogtle	
IB-88-22	07/07/88	Vogtle	
V-88-02	07/22/88	Vogtle	
IB-88-30	09/22/88	Vogtle	
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X-88-36	12/05/88	Vogtle	
VII-89-02	01/17/89	Vogtle	

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X-89-08	03/15/89	Vogtle	
VII-89-20	04/27/89	Vogtle	
X-89-31	10/04/89	Vogtle	
V-89-11	10/10/89	Vogtle	
X-90-04	03/14/90	Vogtle	
Vogtle			27
III-73-01	11/19/73	Walter Reed Hospital	
Walter Reed Hospital			1
III-88-02	08/15/88	Washington Hospital Center	
Washington Hospital Center			1
IB-77-17	06/01/77	Washington Nuclear	
IB-81-18	04/01/81	Washington Nuclear	
IB-84-20	05/16/84	Washington Nuclear	
VII-87-16	08/22/87	Washington Nuclear	
VII-87-17	08/24/87	Washington Nuclear	
V-89-02	02/24/89	Washington Nuclear	
VII-89-48	10/05/89	Washington Nuclear	
Washington Nuclear			7
VII-78-03	11/28/78	Washington, PA	
Washington, PA			1
IB-76-54	11/03/76	Waterford	
IB-76-53	11/03/76	Waterford	
IB-77-10	03/31/77	Waterford	
IB-77-11	03/31/77	Waterford	
IB-77-09	03/31/77	Waterford	
IB-77-12	04/01/77	Waterford	
IB-78-20	09/29/78	Waterford	
IB-78-21	09/29/78	Waterford	
IB-78-25	11/22/78	Waterford	
IB-78-26	11/27/78	Waterford	
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IB-79-01	01/11/79	Waterford	
VI-82-03	07/12/82	Waterford	
IB-88-35	11/10/88	Waterford	
Waterford			14
V-79-04	06/25/79	Watts Bar	
V-79-06	10/16/79	Watts Bar	
IB-80-16	03/04/80	Watts Bar	
IB-81-23	05/07/81	Watts Bar	
IB-83-04	02/04/83	Watts Bar	
IB-84-08	02/17/84	Watts Bar	
V-84-04	03/06/84	Watts Bar	

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IB-85-21	10/28/85	Watts Bar	
IB-86-31	09/09/86	Watts Bar	
IB-87-17	07/08/87	Watts Bar	
X-88-16	06/09/88	Watts Bar	
Watts Bar			12
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Wayne State University			1
III-62-01	04/26/62	Westinghouse Corporation (Cheswick)	
III-71-04	07/00/71	Westinghouse Corporation (Cheswick)	
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IB-74-07	04/17/74	Westinghouse Corporation (Columbia)	
IB-75-23	10/14/75	Westinghouse Corporation (Columbia)	
IB-76-05	02/03/76	Westinghouse Corporation (Columbia)	
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IB-77-24	11/14/77	Westinghouse Corporation (Columbia)	
IB-80-31	05/19/80	Westinghouse Corporation (Columbia)	
III-82-01	11/17/82	Westinghouse Corporation (Columbia)	
III-82-01	12/01/83	Westinghouse Corporation (Columbia)	
III-86-19	05/16/86	Westinghouse Corporation (Columbia)	
IV-88-02	08/11/88	Westinghouse Corporation (Columbia)	
Westinghouse Corporation (Columbia)			11
IB-80-05	01/25/80	Westinghouse Corporation (Zion)	
IB-83-35	10/25/83	Westinghouse Corporation (Zion)	
Westinghouse Corporation (Zion)			2
III-68-01	01/02/68	Westinghouse Corporation, PA, to	
Westinghouse Corporation, PA, to			1
IV-77-01	08/29/77	Wheeling, WV	
Wheeling, WV			1
IB-78-19	09/18/78	Wolf Creek	
IB-79-50	05/31/79	Wolf Creek	
IB-79-58	07/12/79	Wolf Creek	
IB-79-61	07/30/79	Wolf Creek	
IB-79-69	09/22/79	Wolf Creek	
IB-79-70	09/27/79	Wolf Creek	
IB-79-72	10/08/79	Wolf Creek	
IB-79-74	10/11/79	Wolf Creek	
IB-79-77	10/16/79	Wolf Creek	
IB-79-78	10/19/79	Wolf Creek	

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IB-79-82	10/25/79	Wolf Creek	
IB-79-88	11/14/79	Wolf Creek	
IB-80-01	01/08/80	Wolf Creek	
IB-80-02	01/11/80	Wolf Creek	
V-80-06	04/21/80	Wolf Creek	
VII-87-22	10/28/87	Wolf Creek	
IB-88-02	01/20/88	Wolf Creek	
X-89-41	11/17/89	Wolf Creek	
X-89-43	12/08/89	Wolf Creek	
X-89-47	12/14/89	Wolf Creek	
Wolf Creek			21
X-89-23	08/07/89	Wyoming (WY)	
Wyoming (WY)			1
IB-71-01	02/16/71	Yankee-Rowe	
I3-71-03	03/12/71	Yankee-Rowe	
IB-88-20	06/16/88	Yankee-Rowe	
X-89-15	06/02/89	Yankee-Rowe	
VII-90-33	05/19/90	Yankee-Rowe	
X-90-17	12/26/90	Yankee-Rowe	
Yankee-Rowe			6
IB-80-24	04/18/80	Yellow Creek	
IB-80-28	05/06/80	Yellow Creek	
IB-80-41	07/09/80	Yellow Creek	
Yellow Creek			3
X-78-03	03/25/78	Yonkers, NY	
Yonkers, NY			1
IB-79-47	05/30/79	Zimmer	
VII-80-01	01/21/80	Zimmer	
IB-80-33	05/22/80	Zimmer	
IB-80-34	05/23/80	Zimmer	
IB-82-05	03/22/82	Zimmer	
VII-84-01	02/07/84	Zimmer	
Zimmer			6
V-74-02	00/00/74	Zion	
IB-74-17	00/00/74	Zion	
IB-74-15	08/11/74	Zion	
IB-75-03	03/08/75	Zion	
VII-75-04	05/27/75	Zion	
IB-75-15	09/01/75	Zion	
X-76-05	05/12/76	Zion	
II-76-03	07/18/76	Zion	

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IB-80-06	01/25/80	Zion
IB-80-64	10/03/80	Zion
IB-81-06	02/04/81	Zion
X-82-01	01/28/82	Zion
X-82-02	05/05/82	Zion
IB-83-17	07/01/83	Zion
IB-83-33	10/20/83	Zion
IR-84-26	10/08/84	Zion
X-87-03	01/30/87	Zion
VII-87-05	04/14/87	Zion
X-88-13	05/11/88	Zion
X-89-24	08/17/89	Zion
V-89-10	10/06/89	Zion

Zion

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10. SUPPLEMENTARY NOTES

11. ABSTRACT (200 words or less)

The Safeguards Summary Event List provides brief summaries of hundreds of safeguards-related events involving nuclear material or facilities regulated by the U.S. Nuclear Regulatory Commission. Events are described under the categories: bomb-related, intrusion, missing/allegedly stolen, transportation-related, tampering/vandalism, arson, firearms-related, radiological sabotage, non-radiological sabotage, alcohol and drug related (through 1989), and miscellaneous. Because of public interest, the miscellaneous section also includes events reported involving source material, byproduct material, and natural uranium, which are exempt from safeguards requirements. Information in the event descriptions was obtained from official NRC reports.

12. KEY WORDS/DESCRIPTORS (List words or phrases that will assist researchers in locating the report.)

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Fuel Cycle Facilities
Bomb Threats

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