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NUREG-0161

**INSTRUCTIONS  
FOR  
PREPARATION OF DATA ENTRY SHEETS  
FOR  
LICENSEE EVENT REPORT (LER) FILE**

Office of Management Information and Program Control  
U. S. Nuclear Regulatory Commission

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Office of Management Information and Program Control  
U. S. Nuclear Regulatory Commission  
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INTRODUCTION

For each licensed facility, certain events must be reported to the NRC; these events are designated Reportable Occurrences (RO's). Reporting requirements for licensed facilities are delineated in Title 10, "Energy" Code of Federal Regulations (10 CFR) and in Technical Specifications, and/or license provisions.

The rapid growth in the nuclear power industry, the increasing stringency of reporting requirements for licensees, and the growing awareness and interest of the public concerning the nuclear industry have contributed to a need for improved and more rapid methods of disseminating information about reportable occurrences at licensed nuclear facilities. In addition, the provisions of the Freedom of Information Act dictate that reports made to the NRC be readily retrievable to respond to inquiries from the public.

In order to collect, collate, store, retrieve and evaluate information concerning licensee events in a timely manner, the AEC established, in the summer of 1973, a computer-based data file of information extracted from licensee reports. This data bank, known as the Licensee Event Report (LER) file, provides a centralized source of data that may be used for qualitative assessment of the nature and extent of off-normal events in the nuclear industry and as an index of source information to which users may refer for more detail.



Dissemination concerning licensee events is made both to the nuclear industry and to the public. Special searches of the file may be requested by industry and the public (as well as by the Government) with the charge for this service being merely the cost of the computer time expended. Any licensee may receive a listing of all events that have taken place at its facility free of cost. The file is designed to accept data submitted by all licensees; at the present time, the file primarily contains data submitted by power reactor licensees since January 1, 1969.

To facilitate data entry and to provide completeness and consistency to the LER data, a standard data entry sheet (LER Form) was developed. The original instructions for preparation of these transcription sheets were issued in October 1974 as DOE-SS-001. Certain revisions and clarifications are necessary to make the file more useful for evaluation purposes and to reflect the new definition of "abnormal occurrence" from the Energy Reorganization Act of 1974, Section 208. Section 208 defines "abnormal occurrence" as an "unscheduled incident or event the Commission determines is significant from the standpoint of public health or safety." Accordingly, the term "abnormal occurrence" is reserved for use by the NRC in its reports to Congress and the public. Any reference to, or use of the terms abnormal occurrence or AO should cease in licensee event reporting. All reports from licensees are designated Reportable Occurrences. Licensee Event Report is an acceptable generic term.

In order to make the task of filling out the LER forms less burdensome, the LER forms have been designed to be compatible to those already used for the Nuclear Plant Reliability Data System (NPRDS). For example, the system, component, and component manufacturer's codes are the same for both types of forms.

The following revised procedures are to be followed for preparation of data entry sheets for the Licensee Event Report (LER) file.

#### PROCEDURES

The procedures described herein do not impose any additional reporting requirements.

An LER form is to be prepared for each reportable occurrence. Exhibit A is a facsimile of the transcription form used. The primary purpose of the LER form and its subsequent addition to the computer data bank are to provide a rapid means of wide dissemination of the information, to identify generic problems, and to identify areas for evaluation. The LER form is intended to be a meaningful abstract of the event, not a substitute for an adequate, in-depth report.

When a complete narrative report of the event is submitted with the completed LER form, the narrative report can generally be considered as satisfying the requirements for a separate attachment to the LER form, as described in the procedures below. In any case, the LER form must be able to stand alone as a complete, meaningful summary of the event.

For the written followup reports for all events that are required to be reported either immediately, promptly or within 24 hours, in addition to a completely filled-in LER form, supplementary information as a separate enclosure to the LER form must always be provided. The attachment shall contain a detailed description of the event, probable consequences of the occurrence, the cause or causes of the

occurrence, immediate corrective actions taken and scheduled corrective actions to be taken later, and any actions taken to prevent recurrence. The information provided must be sufficient not only to fully understand the event, but also such that an adequate safety assessment can be made by the recipients of the report. If any of the information is not known within the time limitations for submitting such reports, updating reports should be submitted as soon as the information becomes available. (See General Instruction No. 3).

For those events which are not required to be reported either immediately, promptly, or within 24 hours (e.g., 30 day reports), only the simplest of events can be adequately described by use of the LER form alone. Most such events will generally require an attachment as described above.

The usefulness of the file is directly related to the consistency, accuracy and completeness of the input information. Detailed guides and instructions for completing the transcription forms are presented below.

Note that the textual areas on the form (e.g., description of event, description of cause, etc.), are space limited; therefore, the preparer of the form must choose words carefully to present complete, yet concise, descriptions. The completed form should be able to stand alone as an abstract to present meaningful data to users of the LER file. Since these forms will be used directly for key-punching, care must be taken not to exceed the total spaces available in the textual areas of the form.

NOTES:

1. The attachment used to provide the in-depth report should be clearly identified by the LER number (See Item 17 of the Specific Instructions), licensee name, facility name and docket number. The license number should also be identified for facilities other than power reactor licensees. The LER form should designate (See Item 23 of the Specific Instructions) whether or not an attachment has been prepared.
2. The instructions delineated in this manual have been designed to result in the preparation of LER's which are consistent and are sufficiently detailed to provide a meaningful understanding of the event. However, from time to time, the NRC may request additional information from the licensee for certain individual events.
3. The distribution of Licensee Event Reports and confirmatory reports (of immediate, prompt, or 24-hour notifications) are delineated in Regulatory Guides 1.16 and 10.1. Copies of reports (including the confirmatory reports) forwarded to the NRC's Office of Management Information and Program Control (MIPC) may be mailed.

GENERAL INSTRUCTIONS

1. Entries must be made for all items (licensee name, license number, license type, etc.) unless an exception is noted in the Specific Instructions below.
2. In the textual areas on the form (e.g., Items 10, 27, etc. of the specific instructions below), there are certain limitations on the use of symbols.

These limitations are:

- A. Degree (must be spelled out).
- B. Less than or equal to (use  $\leq$ ).
- C. Greater than or equal to (use  $\geq$ ).
- D. Plus or minus (use +/-).
- E. Delta and any other Greek letter (must be spelled).

In addition, exponents are not acceptable. A number must either be expressed as a decimal, spelled out, or preferably (to save space) designated in E field format. For example,  $4.2 \times 10^{-6}$  could be expressed as 4.2 E-6, 0.0000042, or  $4.2 \times 10^{-6}$ .

3. Errors discovered in an LER, whether identified by the inspector during his review/evaluation or by the licensee, require the submission of an updated report. Updated reports are also required if they are unacceptable (such as not providing enough information to determine what happened and corrective actions taken) and for the submittal of new information. If the Licensee Event Report (LER) form is an update of a prior LER form, write "Update Report - Previous Report Date \_\_\_\_\_" across the top of the form, including the prior report date as indicated. The update should also be identified in the LER report number, as described in Item 17 of the Specific Instructions. Any change or modification from the original LER requires that an updated LER be submitted.

NOTE: The updated report will replace the previous report in the computer file. Therefore, the update must be a complete entity and not contain only supplementary information to the previously submitted report.

4. Care should be taken to assure that the LER forms are complete and accurate. LER forms which are incomplete or incorrectly coded will generally be rejected by the computer, thereby possibly delaying the dissemination of the event to the receivers of the computer printouts.
5. A cover letter should be used to forward the LER and any attachments to the NRC. The letter should reference and describe the specific requirements (10 CFR, Technical Specifications, and/or license provision) for reporting the occurrence (e.g., "Technical Specification 6.2.3.4, Abnormal Degradation of the Reactor Coolant Pressure Boundary.") To save paper, the cover letter may be printed on the reverse side of the LER form.
6. For each event, as applicable, the generic aspects of the event must either be provided on the LER form (if there is sufficient space) or as an attachment to the form. For example, there is a need to know how many other safety systems are involved when component failures occur. On multi-unit sites, the applicability and corrective actions taken at the affected site should be reviewed and discussed for the other units.
7. Multiple events of component failures, occurring within the reporting period of the first such event, may be combined into a single report provided the components, system, cause and method of discovery are the same. The text should include the total number of failures included in the combined report.

SPECIFIC INSTRUCTIONS

Item 1. Control Block - This space is reserved for NRC use and is not to be filled in by the individual preparing the LER form.

Item 2. Licensee Code - Enter the six character designation for the licensee reporting the event. The six characters are derived as follows: The first two letters represent the U.S. Postal Service's alphabetical abbreviation for the state in which the plant is located; the remaining four characters consist of a numeric and/or alphabetic abbreviation for the licensee name. Exhibit B contains a current listing of the codes for nuclear power reactor licensees that have been licensed by the NRC or that are in the review process. Exhibits C and D contain the current listings of the codes for non-power reactors and fuel cycle facilities, respectively. These lists will be updated as required.

NOTE (Reactor Licensees): If the event reported applies to more than one reactor at a single location, use the licensee designation for the lowest numbered unit, e.g., BRF1 would appear on the form if an event common to BRF1, BRF2, and BRF3 occurred. Events common to more than one reactor at one location should be so identified in the description of the event (Item 10).

NOTE (Material Licensees): Only fill in the first two blocks of this item. Use the two letter designation for the state in which the facility is located.

Item 3. License Number - The license number must be filled in for byproduct material licenses only. All numbers must be right justified; i.e., leading zeros must be included. A coded license number would appear as follows: 12-00621-03. Licensees other than byproduct material licensees should fill the spaces with zeros as follows: 00-00000-00.

Item 4. License Type - Enter the five digit designation for the license type as defined in Exhibit E. Choose the license type code that most accurately defines the particular license.

Item 5. Category - The licensee should leave these spaces blank.

Item 6. Report Source - Enter the letter denoting who identified the event.

<u>Code</u>	<u>Event Identifier</u>
L	Licensee
I	Inspector
X	Other (Vendor, Sister Licensee, NRC Bulletin, etc.)

Item 7. Docket Number - Enter the docket number assigned to the licensee in the eight spaces provided. Examples of the proper manner of entering the docket number are as follows:

<u>Docket Number</u>	<u>Licensee</u>
05000003	Indian Point 1
05000029	Yankee-Rowe
05000332	Barnwell Nuclear Fuel Plant
07000027	Babcock & Wilcox
04000820	Battelle Memorial Institute
03011572	Suburban Laboratories, Inc.

NOTE: Use leading zeros as noted in the examples.



Item 8. Event Date - Enter the date on which the event occurred in the six spaces provided (month, day and year). Examples of the proper manner of entering the event date are as follows:

June 1, 1977 - 060177

October 2, 1977 - 100277

NOTE: Use leading zeros in the first and third spaces when appropriate as noted in the first example.

Item 9. Report Date - Enter the date of the report to the NRC in the six spaces provided, as described in Item 8. Note that the report date should be the same as the date of the transmittal cover letter to the NRC.

Item 10. Event Description and Probable Consequences - This is a free-form field for a narrative description of the event and probable consequences. The following information should be included:

- A. A concise, meaningful description of the event using only generally accepted system/component terminology and standard abbreviations or acronyms (e.g., MSIV, HPCI, etc.). A word search is one of the computer retrieval methods; generally accepted terminology is therefore important.
  1. Preface the description with the activity in progress when the event occurred (e.g., during test, during normal operation, upon demand, etc.)

2. Describe the circumstances leading to the event (e.g., while performing leak rate procedure XX-ABCD, while testing MSIV operator 367-M14, while auditing the computer printout of power distribution, while increasing primary coolant flow).
  3. Describe the Event - The reason for the report (which technical specification or license requirement was not met) e.g., a 30 degree through-wall crack was detected in the feedwater nozzle which constitutes a degradation of the primary coolant pressure boundary (T.S.6.2.3.4), the surveillance test had not been performed by each shift as required by T.S.12.6.3.1, etc.
  4. Describe any significant occurrence that took place as a result of the event (e.g., blowdown, overpressurization, water hammer, inadvertent criticality, offgas explosion or detonation, reactor scram, release of radioactivity, overexposures, personnel injuries).
  5. If applicable, describe the chain of events which occurred (See Item 12, Note 1) (e.g., valve XY 2-34 failed due to the surge of pressure).
  6. If applicable, reference the other reactors affected by the event at the given location (See Item 2).
  7. Reference any previous event numbers of a similar nature for all reactors at a given location together with the applicable docket numbers if different from the present event.
- B. A concise, meaningful description of the probable consequences of the event.

1. Describe any effects upon public health or safety.
2. Describe whether or not redundant systems were available and operable.
3. Describe any other safety implications not already described elsewhere in the report.

NOTE: The information must be adequate for meaningful understanding, yet short enough to fit the number of computer spaces available (7 lines of 72 spaces each). Background and any other supplementary information required for a full understanding of the event should be provided as an attachment to the form.

Item 11. System Code - The system in which the event originated should be coded in the two spaces provided, using the system codes described below. Systems that do not fit any existing code should be designated XX. The code ZZ should be used for those events where a system is not applicable.

1. Reactor Licensees - Enter the first two letters of the system codes specified in Exhibit F, which is an extract from Table 1 of the Reporting Procedures Manual for the Nuclear Plant Reliability Data System (NPRDS). (Systems codes used by the five major nuclear steam system suppliers and the corresponding NPRDS system codes are listed in Tables 1A through 1E of the NPRDS Reporting Procedures Manual. However, note that only the first two letters of the NPRDS system code are to be used for the LER file).
2. Fuel Cycle Facilities - Enter the two letter code denoting the system as defined in Exhibit G.
3. Materials Licensees - Leave this item blank.

Item 12. Proximate Cause Code - Enter the proximate cause code in the single space provided, using one of the proximate cause codes noted below. The proximate cause is a classification used to describe the general nature of the cause of the occurrence or event. The proximate cause of an occurrence should be distinguished from the root cause of the event. The root cause is the specific basic origin of the occurrence including all contributing factors. The proximate cause codes are given below. If there is more than one proximate cause, list the principle cause in the space provided and describe the other contributing causes in the cause description (Item 27).

<u>Proximate Cause Code</u>	<u>Classification</u>
A	Personnel Error
B	Design, Manufacturing, Construction/Installation
C	External Cause
D	Defective Procedures
E	Component Failure
X	Other

The general definitions of these proximate cause classifications are:

A. Personnel Error - This classification is assigned to occurrences attributed to human errors. When errors are made as a result of following incorrect written procedures, the occurrence should be entered under defective procedures (see Paragraph D below). When errors are made because written procedures are not followed or because qualified personnel do not perform in accordance with accepted or approved practice, the occurrence should be classified under personnel error.

NOTE: For occurrences attributed to this classification, the specific type of personnel involved (licensed and senior operators, non-licensed operations personnel, etc.) must be designated under Item 13 of the LER form.

B. Design, Manufacturing, Construction/Installation - This classification is assigned to occurrences reasonably attributed to design, manufacture, construction or installation of the system, component or structure resulting in the event. For example, failures that are traced to such things as defective materials, significant breakdown in the quality assurance program or components otherwise unable to meet the specified functional requirements or performance specifications should be included in this classification.

NOTE: For occurrences attributed to this classification, the specific assignable proximate cause (design, manufacturing, construction/ installation) must be designated under Item 13 on the LER form.

C. External\_Cause - This classification is assigned to occurrences attributed to natural phenomena. A typical example includes an event such as loss of offsite power resulting from a lightning strike, tornado, or flood.

D. Defective\_Procedures - This classification is assigned to occurrences caused by inadequate or incomplete written procedures (see Paragraph A above) or instructions.

E. Component\_Failure - This classification is assigned to occurrences or events attributed to component malfunctions resulting in failure of the equipment to perform its intended function. The performance of equipment outside limits specified in the Technical Specifications, the Safety Analysis Report, or other applicable requirements, should be included here unless the proximate cause clearly should be otherwise assigned. This classification should be used whenever the cause of equipment failure cannot reasonably be attributed to design, manufacturing, construction or installation errors (see Paragraph B above). Considerable judgment is required to segregate equipment failures caused by operating or maintenance errors or deficiencies (see Paragraph A above).

NOTES:

1. This classification is to be used only when a component failure caused the event, with the details provided under cause description (Item 27). If one or more components fail because of some event, choose the appropriate proximate cause code and provide details of the component failures under the event description (Item 10).
2. For occurrences attributed to certain component failures, the specific component must be further categorized under Item 13.
- X. Other. This classification shall be assigned to occurrences for which the proximate cause cannot be identified or which cannot be assigned to one of the classifications noted above.

Item 13. Proximate Cause Subcode - When proximate cause codes A, B or E are designated under Item 12, the appropriate subcode described below must be designated in the space provided. When proximate cause codes C, D or X are designated under Item 12, the letter Z (not applicable) must be designated in the space provided.

1. Personnel Error (Cause Code A)

The specific types of personnel which caused the event and their respective subcodes are as follows:

<u>Subcode</u>	<u>Personnel Type</u>
A	Licensed Operators and Senior Operators
B	Nonlicensed Operations Personnel
C	Maintenance and Repair Personnel
D	Radiation Protection Personnel
E	Construction Personnel
F	Contractor and Consultant Personnel
X	Other

2. Design, Manufacturing, Construction/Installation (Cause Code B)

The general definitions of these classifications are:

A. Design - This classification is assigned to occurrences attributed to the Nuclear Steam System Supplier (NSSS) or Architect Engineer (A/E) design of a component, system or structure. For example, failures that are traced to improper application, inaccurate design or procurement specifications, inadequate analyses performed by the NSSS or A/E, service conditions not foreseen or otherwise not specified by the designer, etc., should be included in this classification.

B. Manufacturing - This classification is assigned to occurrences attributed to a manufacturer's design and fabrication activities associated with a component or system. Generally this classification will cover a component or system that fails to perform its intended function as specified in design and procurement documents, manufacturer's technical manual, etc. Examples are: failures traced to defective materials, incorrect material, abnormal wear or other degradation under normally anticipated plant conditions, and inadequate analyses performed by the manufacturer.



C. Construction/Installation - This classification is assigned to occurrences attributed to field construction and/or installation errors or violations of drawings, specifications procedures, etc. Note that occurrences attributed to human errors are not included in this classification; such events are to be assigned to the personnel error classification described previously. (See Item 12).

The specific subcodes associated with this classification (design, manufacturing, construction/installation) are:

<u>Subcode</u>	<u>Classification</u>
A	Design
B	Manufacturing
C	Construction/Installation

3. Component Failure (Cause Code E)

For events in which the proximate cause is attributed to component failure, enter the type of failure in the single space provided, using one of the subcodes indicated below.

<u>Subcode</u>	<u>Type_of_Component_Failure</u>
A	Electrical
B	Mechanical
C	Metallurgical
D	Corrosion
E	Instrument
F	Natural End of Life
G	Electronic
X	Other (Explain Under Cause Description - Item 27)

Item 14. Component Code - Select the most appropriate component using the following criteria:

- A. If a component failed, use the component directly involved.
- B. If not a component failure, use the related component; e.g., wrong valve operated through error; list valve as component.
- C. If a chain of failures occurs, the first component to malfunction should be listed. The sequence of events, including the other components which fail, should be described under the cause description (Item 27).

Components that do not fit any existing code should be designated XXXXXX. The code ZZZZZZ should be used for events where a component designation is not applicable.

The following rules apply to the different licensees:

1. Reactor Licensees - Enter the six letter code for the appropriate component as listed in Exhibit H (Table 2 of the NPRDS Reporting Procedures Manual). Some preferred rules for selection of component

are listed below for purposes of standardization:

- A. Engines - List malfunctions of diesel generator subsystems such as air start systems, fuel, cooling systems, etc. as "Engine."
  - B. Valve Operators - Motor failures on valve operators should be listed under valve operators, not under motors. The same holds true for limit switches or torque switches used on valve operators.
  - C. Motors - Prime mover motor failures such as motors for pumps, compressors, etc., should be listed under motors.
2. Fuel Cycle Facility Licensees - Enter the six letter code for the appropriate component as listed in Exhibit I.
3. Materials Licensees - Leave this item blank.

Item 15. Component Subcode - Certain components designated in Item 14 are further categorized under this item. The components which require further classification are:

Circuit Closers/Interrupters  
Generators  
Heat Exchangers  
Instrumentation and Controls  
Penetrations, Primary Containment  
Pipes/Fittings  
Pumps  
Relays  
Shock Suppressors and Supports  
Valves

Valve Operators

Vessels, Pressure

The subcodes associated with these components are described below. For any component not listed below, the associated component subcode should be designated as Z (not applicable).

For any subcode component designated X (other), explain the specific subcomponent involved under the cause description (Item 27).

Circuit Closers/Interrupters (Component Code CKTBRK)

<u>Subcode</u>	<u>Subcategory</u> ---
A	Circuit Breaker
B	Contactor
C	Controller
D	Starter
E	Switch (Other Than Sensor)
F	Switchgear
X	Other

Generators (Component Code GENERA)

<u>Subcode</u>	<u>Type</u> ..
A	Alternator
B	Converter
C	Dynamotor
D	Generator
E	Amplidyne
F	Inverter
X	Other

Heat Exchangers (Component Code HTEXCH)

<u>Subcode</u>	<u>Subcategory</u>
A	Heater/Superheater
B	Boiler
C	Cooler
D	Condenser
E	Evaporator
F	Steam Generator
G	Heater/Cooler
X	Other

Instrumentation and Controls (Component Code INSTRU)

<u>Subcode</u>	<u>Type (Primary Function)</u>
C	Controller
E	Sensor/Detector/Element
I	Indicator
Q	Integrator (Totalizer)
P	Power Supply
R	Recorder
S	Switch
T	Transmitter
Y	Computation Module
X	Other

Penetrations, Primary Containment (Component Code PENETR)

<u>Subcode</u>	<u>Subcategory</u>
A	Personnel Access
B	Fuel Handling
C	Equipment Access
D	Electrical
E	Instrument Line
F	Process Piping
X	Other

Pipes, Fittings (Component Code PIPEXX)

<u>Subcode</u>	<u>Size Group (Nom. Diam.)</u>
A	Less than 4 inches
B	4 to 6 inches
C	6 to 10 inches
D	10 to 16 inches
E	16 inches and larger

Pumps (Component Code PUMPXX)

<u>Subcode</u>	<u>Type</u>
A	Axial
B	Centrifugal
C	Diaphragm
D	Gear
E	Reciprocating
F	Radial
G	Rotary
H	Vane Type
J	Electromagnetic
K	Jet
X	Other

Relays (Component Code RELAYX)

<u>Subcode</u>	<u>Type</u>
A	Control, General Purpose
B	Control, Sealed
C	Miniature
D	Switchgear, Protective
E	Switchgear, Protective, Slow Acting
F	Switchgear, Auxiliary
G	Mercury Wetted
H	Time Delay, Pneumatic
J	Time Delay, Solid State
K	Reed
L	Telephone
M	Event Sequencer, Timer, or Time- Sequence Controller
S	Solid State (SCR'S)
X	Other

Shock Suppressors and Support (Component Code SUPORT)

<u>Subcode</u>	<u>Function</u>
A	Hangers
B	Supports
C	Spring Loaded Sway Brace/Stablizers
D	Snubbers
X	Other

Valves (Component Code VALVEX)

<u>Subcode</u>	<u>Component_Type</u>
A	Ball
B	Butterfly
C	Check
D	Diaphragm
E	Gate
F	Globe
G	Needle
H	Plug
J	Nozzle
K	Single Blade
L	Parallel Blade
M	Opposed Blade
N	Proportioning Louver
P	Angle
X	Other

NOTE: See Item 16 for a further breakdown of valves in regard to function/application.



Valve\_Operators (Component Code VALVOP)

<u>Subcode</u>	<u>Component_Type</u>
A	Electric Motor - AC
B	Electric Motor - DC
C	Hydraulic
D	Pneumatic/Diaphragm/Cylinder
E	Solenoid - AC
F	Solenoid - DC
G	Float
H	Explosive, Squib
J	Mechanical (Differential Pressure to Open/Spring Force to Close)
X	Other

Vessels\_Pressure (Component Code VESSEL)

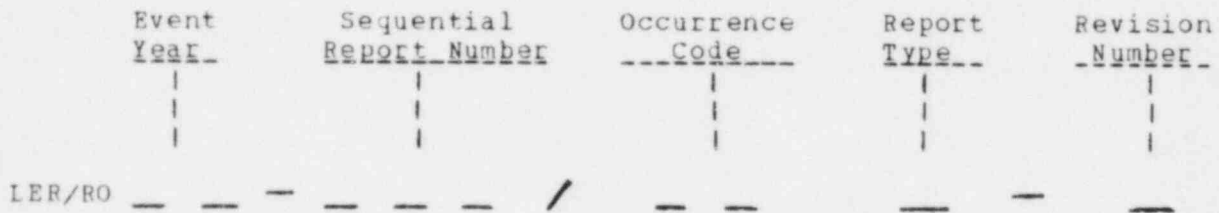
<u>Subcode</u>	<u>Subcategory---</u>
A	Reactor Vessel
B	Pressurizer Vessel
D	Containment/Drywell
E	Pressure Suppression
X	Other

Item 16. Valve Subcode - When the component code is VALVEX (Item 14), enter the appropriate subcode below to denote the function/application of the valve involved. For any component code other than VALVEX, enter Z in the space provided.

<u>Subcode</u>	<u>Valve_Functions/Applications</u>
A	One-Way Flow
B	Pressure Relief
C	Vacuum Relief
D	Shutoff, Isolation, Stop
E	3-Way Selector
F	4-Way Selector
G	Flow Control
H	Pressure Control
L	Vent
N	Sample
P	Drain
Q	Bypass
X	Other

If X (other) is designated, explain the specific function/application under the cause description (Item 27).

Item 17. LER/RO Report Number - The Licensee Event Report (LER) or Reportable Occurrence (RO) number consists of five parts, i.e., the last two digits of the event year, the sequential report number, occurrence code, report type, and a revision number. The numbering system is shown in the diagram below:



1. Event Year: Enter the last two digits of the year in which the event occurred. For example, for events occurring in 1976, 1977, and 1978, enter 76, 77, and 78 in the spaces provided, respectively.
2. Sequential Report Number: As each reportable event occurs during the year, it is assigned a sequential number. For example, for the first, fifteenth, and thirty-third reportable events in a given year, enter 001, 015, and 033 in the spaces provided, respectively. On January 1 of each year, the sequence commences again with 001.
3. Occurrence Code: Enter the code denoting the type of occurrence. The occurrence types and their respective codes are as follows:

<u>Occurrence Code</u>	<u>Occurrence Type</u>
01	Written followup reports for reportable occurrences requiring immediate, prompt or within 24 hours notification (See Note 1 below).

Occurrence Code

Occurrence Type

- |    |  |
|----|--|
| 02 | Construction deficiency report   |
| 03 | Reportable occurrences requiring 30-day written reports (See Note 1 below).  |
| 04 | Environmental event (As defined in 10 CFR, Technical Specifications, and/or License Provisions)  |
| 05 | Transportation event   |
| 06 | Missing licensed material  |
| 07 | Leaking source   |
| 08 | Actual or threatened acts of sabotage  |
| 09 | Section 206 Report   |
|    | Overexposure (See Note 2 below)  |
| 11 | A. Type A <ol style="list-style-type: none"><li>1) Whole body <math>\geq</math> 25 rems</li><li>2) Whole body (skin) <math>\geq</math> 150 rems</li><li>3) Feet, ankles, hands, forearms <math>\geq</math> 375 rems.</li></ol> |
| 12 | B. Type B <ol style="list-style-type: none"><li>1) Whole body <math>\geq</math> 5 rems</li><li>2) Whole body (skin) <math>\geq</math> 30 rems</li><li>3) Feet, ankles, hands, forearms <math>\geq</math> 75 rems</li></ol>     |
| 13 | C. Other   |

Occurrence Code

Occurrence Type

- Loss of use of facility (See Note 3 below)
- 21 A. Type A  
Loss of operation  $\geq$  one week.
- 22 B. Type B  
Loss of operation  $\geq$  one day.
- Damage to facility (See Note 3 below)
- 31 A. Type A  
Damage > \$100,000.
- B. Type B  
Damage > \$1,000.
- Release of radioactive material (See Note 3 below)
- 41 A. Type A  
Release > 5,000 times the limits as specified in Part 20 of NRC Rules and Regulations.
- 42 B. Type B  
Release > 500 times the limits as specified in Part 20 of NRC Rules and Regulations.
- 43 C. Other

Occurrence Code

Occurrence Type

99

Other (e.g., any other reports required by the Technical Specifications or license conditions. The forwarding letter should identify the specific requirement for the report).

NOTES

- (1) For occurrence codes 01 and 03, reference the specific applicable paragraph and subparagraphs of the Technical Specifications or license provisions in the letter transmitting the LER and any backup/supplementary information.
- (2) Occurrence codes 11 through 13 should be used only for overexposure and unusual exposures which are not the direct result of one of the other occurrence types listed above. For example, if a through-wall leak in a liquid waste storage tank resulted in an overexposure, the occurrence code would be 03, with the overexposure information reported under Items 37 through 39 of the LER form.
- (3) The philosophy for use of occurrence codes 21 through 43 is the same as described in Note (2) above. They are to be used only if they are not the direct result of one of the other occurrence types listed above.

4. Report\_Type: Enter the letter denoting the type of report.

<u>Letter</u>	<u>Report_Type</u>
T	10-day or 2-week
L	30-day
X	Other (Includes update reports)

5. Revision\_Number: The revision number of the originally submitted LER is 0; the revision number for an updated LER would be 1; the next revision would be 2; etc.

Examples:

1. Assume the first reportable occurrence at a given facility during calendar year 1977 is an event requiring a written report within two weeks. The report number is:

LER 7 7 - 0 0 1 / 0 1 T - 0

2. Assume the tenth reportable occurrence at the given facility during calendar year 1977 is an event which requires a 30-day report. The report number is:

LER 7 7 - 0 1 0 / 0 3 L - 0

3. Assume the fifteenth reportable occurrence at the given facility during calendar year 1977 is an environmental event which requires a 7-day report. The report number is:

LER 7 7 - 0 1 5 / 0 4 X - 0

4. Assume that an updated report is submitted in regard to the event described in example 1 above. The report number is:

LER 7 7 - 0 0 1 / 0 1 X - 1

NOTES:

1. Leading zeros are required as shown in the examples above.
2. To conserve space, it is not necessary to repeat the LER number in the event description (Item 10).

Item 18. Action Taken - Enter the corrective action taken in the single space provided, using one of the codes indicated below.

<u>Code</u>	<u>Corrective Action Taken</u>
A	Replace Part (s)
B	Repair Part (s)
C	Replace Total Component
D	Repair Total Component
E	Recalibrate/Adjust
F	Redesign/Modify
G	Change of Procedure
H	Retrain/Reinstruct Personnel
X	Other
Z	No Corrective Action Taken

If more than one corrective action was taken, enter the principle action taken and provide the details under the cause description (Item 27). If code X is utilized, explain the specific actions taken under cause description (Item 27).

Item 19. Future Action - Enter the future corrective actions to be taken in the single space provided, using one of the codes indicated below.



<u>Code</u>	<u>Future Corrective Actions</u>
A	Replace Part (s)
B	Repair Part (s)
C	Replace Total Component
D	Repair Total Component
E	Recalibrate/Adjust
F	Redesign/Modify
G	Change of Procedure
H	Retrain/Reinstruct Personnel
X	Other
Z	No Future Corrective Action Required

If more than one future corrective action is to be taken, enter the principle action to be taken and provide the details under the cause description (Item 27). If code X is utilized, explain the specific actions to be taken under cause description (Item 27).

Item 20. Effect on Plant - Designate the effect of the event on plant operations in the single space provided, using one of the codes listed below.

<u>Code</u>	<u>Effect on Plant</u>
A	Plant Outage
B	Forced Power Reduction
C	Extension of Preexisting Shutdown
D	Delay of Completion of Construction
Z	No Significant Effect

Codes A and B are applicable to a plant in an operating status at the time of the event.

A plant outage is defined as the generator being off-line.

The term "forced power reduction" means the occurrence of a component failure or other condition that required that the load on the unit be reduced for corrective action immediately or up to and including the very next weekend.

Item 21. Shutdown Method - If an outage occurred as a result of the event (Code A of Item 20), indicate the method of shutdown using one of the codes listed below. If no outage occurred, enter Z in the single space provided.

<u>Code</u>	<u>Method of Shutdown</u>
A	Manual
B	Manual Scram
C	Automatic Scram

Item 22. Hours - If an outage (generator off-line) or power reduction occurred as a result of the event (Codes A or B of Item 20), indicate the duration in hours (to the nearest whole hour) in the space provided. Leading zeros are required. For example, durations of 3, 20, and 250 hours would be designated 0003, 0020, and 0250, respectively. If the duration was less than one hour, or if no outage or power reduction occurred, enter 0000.

For outages, use the generator off-line hours. For power reductions, use the duration of operation at reduced power.

If the duration of the outage or power reduction will be longer than the time frame in which the LER must be submitted, use the total estimated hours of the duration. When the actual duration is known, an updated LER should be submitted.

Item 23. Attachment Submitted - Indicate whether or not there is an attachment to the LER form, using one of the letters below.

<u>Code</u>	<u>Description</u>
Y	Attachment Provided
N	No Attachment

Item 24. NPRD-4 Form Submitted - Enter one of the following codes indicating whether the event is reportable to the Nuclear Plant Reliability Data System (NPRDS).

<u>Code</u>	<u>Description</u>
Y	Event has been or will be reported to NPRDS.
N	Event is not reportable to NPRDS.

Item 25. Prime Component Supplier - When a component is designated in Item 14, enter a letter code for the originator of the purchase specifications for the component involved. The prime component suppliers and their respective codes are given below. If a component has not been designated in Item 14, enter the letter Z in the space provided.

<u>Supplier Code</u>	<u>Prime Component Supplier</u>
N	Nuclear Steam System Supplier
A	Architect Engineer
L	Licensee
X	Other
Z	Item Not Applicable

Item 26. Component Manufacturer - When a component is designated in Item 14, then enter the four character alphanumeric reference code for the manufacturer of the component as listed in Exhibit J (Table 9 of the NPRDS Reporting Procedures Manual). Manufacturers that are not included in the list should be designated X999. The Z999 should be used for those events where a component has not been designated in Item 14, and therefore, a manufacturer designation is not applicable.

Item 27. Cause Description and Corrective Actions - This is a free-form field for a narrative description of the cause of the event, the actions taken to correct the problem, and the actions taken to prevent recurrence. The following information should be included:

- A. A concise, meaningful description of the cause, listing contributing factors and expanding on the proximate cause as appropriate.
1. Define the root cause of the problem, if known. For example, a component failure may be due to inadequate maintenance, design deficiency, technician error, natural end of life of the component, etc.
  2. For personnel errors, designate the type of personnel involved, if other than licensed operators, maintenance personnel, technicians, or construction personnel. (See Item 13).
  3. For equipment problems, provide accurate and complete descriptions of the components involved, i.e., manufacturer (if not specifically identified in Item 26), type, part number, model, etc. For example, for valve problems, the manufacturer, size, type, model, mode of actuation, material and pressure class or rating of the valve should be given. For pipe cracks, the material, pressure in the pipe under normal operating conditions, and whether the system is isolable should be given (if not

already described under event description - Item 10). Comparable information should be given for any problem associated with equipment failures. Component data is most needed when the cause of the problem is component failure or design, manufacturing, construction/installation error.

4. For component failures, provide the mode of failure, nature of damage, and most probable cause. For example, for pipe cracks, describe the size and number of cracks and the cause (e.g., fatigue/vibration, stress corrosion, inadequate welding techniques, etc.).

B. A concise, meaningful description of the immediate corrective actions proposed or implemented to correct the problem, expanding upon Item 18 as appropriate (e.g., affected parts replaced in kind, component modifications in process, operator reinstructed, etc.).

C. A concise, meaningful description of the corrective actions proposed or implemented to prevent recurrence expanding upon Item 19 as appropriate (e.g., part being designed, change to Technical Specifications being submitted, procedures being revised, etc.).

D. For component problems, include the measures taken to assure that similar components at all plants at the reporting facility are acceptable (e.g., testing, inspection, etc.).

NOTES:

1. Reports that are indicated to be incomplete by terms such as "cause of occurrence unknown at this time due to inaccessibility of the

valve" or "evaluation is continuing," etc., must be supplemented by an updated LER when the information is available. The original report should be termed an "Interim Report" and should indicate when the required information is expected to be submitted to the NRC.

2. Non-definitive reports, such as "the valve seating surfaces were damaged resulting in excessive leakage" should be avoided. The nature of the damage and most probable cause should be stated. If not known in the original report, the information should be included in a followup report as soon as possible.
3. The information must be adequate for meaningful understanding, yet short enough to fit the number of computer spaces available (5 lines of 72 spaces each). Background and any other supplementary information required for a full understanding of the event should be provided as an attachment to the form.

Item 28. Facility Status - Enter the status of the facility at the time of the event in the single space provided, using one of the status codes indicated below.

The construction period and preoperational testing period often overlap. If the event occurred in a system undergoing a preoperational test, then B should be used. If the event is typical of a construction activity, then "A" should be used. For power reactors, some routine operations can take place during the power ascension program prior to attaining 100% power (e.g., prolonged operation at 75% power). If the operation is indeed routine, then utilize C, D, E, F, G, or Z, as appropriate, rather than B. These latter codes should also be used after the plant is in commercial operation.

Status of Reactors:

<u>Code</u>	<u>Status</u>
A	(Under) Construction
B	Preoperational, Startup or Power Ascension Tests (In Progress)
C	Routine Startup Operations
D	Routine Shutdown Operations
E	Steady State Operation
F	Load Changes During Routine Power Operation
G	Shutdown (Hot or Cold) Except Refueling
H	Refueling
X	Other (Including Special Tests, Emergency Shutdown Operations, etc.)
Z	Item Not Applicable

Status of Fuel Facilities and Materials Licensees (where applicable):

<u>Code</u>	<u>Status</u>
A	Under Construction
B	Preoperational and Initial Startup
C	Routine Startup Operation
D	Routine Shutdown Operation
E	Routine Operation
F	Emergency Shutdown Operation
G	Startup Following Nonroutine Shutdown
H	Post Shutdown Operation
X	Other (Including Special Tests)
Z	Item Not Applicable

Item 29. Percent Power (Thermal) - Only applicable for power reactor licensees. Insert the percent of licensed thermal power at which the reactor was operating when the event occurred. For events occurring during shutdown conditions, enter 000. For all other operating conditions, enter the correct numerical value (estimate power level if it is not known precisely). Leading zeros are required (e.g., 009 for 9% power; 072% for 72% power).

Item 30. Other Status - Complete this item in narrative form when facility status is X, other. Otherwise, enter NA in the space provided.

Item 31. Method of Discovery - Select one of the following to identify the method of discovery:

- | Code | Discovery Method   |
|------|--|
| A    | Operational Event - Any event not included in the codes below.                                       |
| B    | Routine Test/Inspection - Surveillance tests, preventive maintenance tests, annual inspections, etc. |
| C    | Special Test/Inspection - Nonroutine tests conducted on an ad hoc basis fall into this class.        |
| D    | External Source - Such as notification from the NRC, sister licensee, vendor, A/E, etc.              |
| Z    | Item Not Applicable.   |

Item 32. Discovery Description - Briefly state the description of method of discovery in narrative form in the space provided (e.g., operator observation, inservice inspection, notification from NSSS, etc.). Enter NA if code Z was designated under Item 31).



Item 33. Activity Released (Form) - Enter one of the listed codes in the space provided.

<u>Code</u>	<u>Activity</u>
L	Liquid
S	Solid
G	Gas
M	Mixture
Z	Item Not Applicable

Item 34. Content of Release - Enter one of the listed codes in the space provided.

<u>Code</u>	<u>Content</u>
N	Noble Gas
H	Halogen
P	Particulate
M	Mixture
Z	Item Not Applicable

Item 35. Amount of Activity - List the total amount of activity that was released (or amount of the predominant or limiting isotope) e.g., 1.9 curies total, or 1.4 curies of I-131. Additional information may be included under Item 10. This item should be coded with NA if no activity was released.

Item 36. Location of Release - List both the point of release and final location to which the release occurred (e.g., reactor building vent to atmosphere; floor drain to waste storage; storm sewer to river; etc.). This item should be coded with NA if no activity was released.

Item 37. Personnel Exposures: Number - This item and Items 38 and 39 below should be completed for each event which results in an exposure exceeding 5 man-rem as a result of the event (including exposures incurred in corrective action, clean-up, and following). Note that these items are not limited only to overexposures. If the information is not complete within the reporting time frame, submit best estimates; after the information is complete, any changes should be submitted in an updated report. List the number of such personnel exposed in the three spaces provided, as appropriate. Enter 000 if the item is not applicable.

Item 38. Personnel Exposures: Type - Enter one of the listed codes in the space provided.

<u>Code</u>	<u>Exposure Type</u>
I	Internal Exposure
E	External Exposure
B	Both
Z	Item Not Applicable

Item 39. Personnel Exposures: Description - Describe magnitude of estimated maximum dose rate to which workers were exposed. Identify categories of workers exposed (e.g., maintenance, operational, engineering, etc.), how many exposed in each category, and estimated total man-rem dose received by each category. If there is insufficient space on the LER form for the above information, the information should be included as an attachment to the form. Enter NA if this item is not applicable.

Item 40. Personnel Injuries: Number - List the number of personnel injured in the three spaces provided, if appropriate. Enter 000 if the item is not applicable.

Item 41. Personnel Injuries: Description - Self explanatory. Enter NA in the space provided if this item is not applicable.

Item 42. Loss of or Damage to Facility: Type - Identify the nature of the event by inserting the appropriate code as follows:

<u>Code</u>	<u>Facility Event</u>
L	Loss of Use of Facility
D	Damage to Facility
B	Both
Z	Item Not Applicable

Item 43. Loss of or Damage to Facility: Description - Describe extent of damage to equipment and property, if applicable. Otherwise, enter NA in the space provided.

Item 44. Publicity: Issued - Indicate whether or not there has been (or any is planned) publicity pertaining to the event. The codes are listed below.

<u>Code</u>	<u>Publicity</u>
Y	Yes
N	No

Item 45. Publicity: Description - Reference any press release (and the date of the press release) or media accounts. If there has been no publicity, and none is planned, enter NA in the space provided.



EXHIBIT B  
 POWER REACTOR LICENSEE LIST  
 (Reference Item 2 of LER)

PLANT NAME	LIC. CODE.	DOCKET # (50- )	LICENSEE	LICENSEE ABBR.
Alan R. Barton-1	ALARB1	524	Alabama Power Co.	APC
Alan R. Barton-2	ALARB2	525	Alabama Power Co.	APC
Allens Creek-1	TXACP1	466	Houston Lighting & Power Co.	HLP
Allens Creek-2	TXACP2	467	Houston Lighting & Power Co.	HLP
Alvin W. Vogtle-1	GAAWV1	424	Georgia Power Co.	GPC
Alvin W. Vogtle-2	GAAWV2	425	Georgia Power Co.	GPC
Arkansas Nuc. One-1	ARANO1	313	Arkansas Power and Light Co.	APL
Arkansas Nuc. One-2	ARANO2	368	Arkansas Power and Light Co.	APL
Atlantic-1	NJAGS1	477	Public Service Electric & Gas Co.	PEG
Atlantic-2	NJAGS2	478	Public Service Electric & Gas Co.	PEG
Bailey-1	INBGS1	367	Northern Indiana Public Serv. Co.	NIC
Beaver Valley-1	PABVS1	334	Duquesne Light Co.	DLP
Beaver Valley-2	PABVS2	412	Duquesne Light Co.	DLP
Bellefonte-1	ALBNP1	438	Tennessee Valley Authority	TVA
Bellefonte-2	ALBNP2	439	Tennessee Valley Authority	TVA
Big Rock Point	MIBRP1	155	Consumers Power Co.	CPC
Black Fox-1	OKBFS1	556	Public Service Co. of Oklahoma	PSO
Black Fox-2	OKBFS2	557	Public Service Co. of Oklahoma	PSO
Blue Hills-1	TXBHS1	510	Gulf States Utilities	GSU
Blue Hills-2	TXBHS2	511	Gulf States Utilities	GSU
Braidwood-1	ILBRS1	456	Commonwealth Edison Co.	CWE
Braidwood-2	ILBRS2	457	Commonwealth Edison Co.	CWE
Browns Ferry-1	ALBRF1	259	Tennessee Valley Authority	TVA
Browns Ferry-2	ALBRF2	260	Tennessee Valley Authority	TVA
Browns Ferry-3	ALBRF3	296	Tennessee Valley Authority	TVA

PLANT NAME	LIC. CODE	DOCKET # (50- )	LICENSEE	LICENSEE ABBR.
Brunswick-1	NCBEP1	325	Carolina Power & Light Co.	CPL
Brunswick-2	NCBEP2	324	Carolina Power & Light Co.	CPL
Byron-1	ILBYS1	454	Commonwealth Edison Co.	CWE
Byron-2	ILBYS2	455	Commonwealth Edison Co.	CWE
Callaway-1	MOCAY1	483	Union Electric Co.	UEC
Callaway-2	MOCAY2	486	Union Electric Co.	UEC
Calvert Cliffs-1	MDCCN1	317	Baltimore Gas & Electric Co.	BGE
Calvert Cliffs-2	MDCCN2	318	Baltimore Gas & Electric Co.	BGE
Catawba-1	SCCNS1	413	Duke Power Co.	DPC
Catawba-2	SCCNS2	414	Duke Power Co.	DPC
Cherokee-1	SCCNP1	491	Duke Power Co.	DPC
Cherokee-2	SCCNP2	492	Duke Power Co.	DPC
Cherokee-3	SCCNP3	493	Duke Power Co.	DPC
Clinton-1	ILCPP1	461	Illinois Power Co.	IPC
Clinton-2	ILCPP2	462	Illinois Power Co.	IPC
Comanche Peak-1	TXCPS1	445	Texas Utilities Generating Co.	TUG
Comanche Peak-2	TXCPS2	446	Texas Utilities Generating Co.	TUG
Cooper-1	NECP1	298	Nebraska Public Power District	NPP
Crystal River-3	FLCRP3	302	Florida Power Corporation	FPC
Davis-Besse-1	OHDBS1	346	Toledo Edison Co.	TEC
Davis-Besse-2	OHDBS2	500	Toledo Edison Co.	TEC
Davis-Besse-3	OHDBS3	501	Toledo Edison Co.	TEC
D. C. Cook-1	MIDCC1	315	Indiana & Michigan Elec. Co.	IME
D. C. Cook-2	MIDCC2	316	Indiana & Michigan Elec. Co.	IME
Diablo Canyon-1	CADCP1	275	Pacific Gas & Electric Co.	PGE
Diablo Canyon-2	CADCP2	323	Pacific Gas & Electric Co.	PGE
Douglas Point-1	MDDPS1	448	Potomac Electric Power Co.	PEP

PLANT NAME	LIC. CODE	DOCKET # (50- )	LICENSEE	LICENSEE ABBR.
Douglas Point-2	MDDPS2	449	Potomac Electric Power Co.	PEP
Dresden-1	ILDRS1	010	Commonwealth Edison Co.	CWE
Dresden-2	ILDRS2	237	Commonwealth Edison Co.	CWE
Dresden-3	ILDRS3	249	Commonwealth Edison Co.	CWE
Duane Arnold	IADAC1	331	Iowa Electric Light & Power Co.	IEL
Edwin I. Hatch-1	GAEIH1	321	Georgia Power Co.	GPC
Edwin I. Hatch-2	GAEIH2	366	Georgia Power Co.	GPC
Enrico Fermi-1	MIEFP1	016	Detroit Edison Co.	DEC
Enrico Fermi-2	MIEFP2	341	Detroit Edison Co.	DEC
FitzPatrick-1	NYJAP1	333	Power Auth. of the State of NY	PNY
Forked River-1	NJFRS1	363	Jersey Central Power & Light Co.	JCP
Ft. Calhoun-1	NEPCS1	285	Omaha Public Power District	DPP
Ft. Calhoun-2	NEPCS2	548	Omaha Public Power District	DPP
Ft. St. Vrain-1	COFSV1	267	Public Service Co. of Colorado	PSC
Fulton-1	PAFGS1	463	Philadelphia Electric Co.	PEC
Fulton-2	PAFGS2	464	Philadelphia Electric Co.	PEC
Grand Gulf-1	MSGGS1	416	Mississippi Power & Light Co.	MPL
Grand Gulf-2	MSGGS2	417	Mississippi Power & Light Co.	MPL
Greenwood-2	MIGEC2	452	Detroit Edison Co.	DEC
Greenwood-3	MIGEC3	453	Detroit Edison Co.	DEC
Haddam Neck-1	CTHNP1	213	Conn. Yankee Atomic Power Co.	CYA
Hartsville-A1	TNHVA1	518	Tennessee Valley Authority	TVA
Hartsville-A2	TNHVA2	519	Tennessee Valley Authority	TVA
Hartsville-B1	TNHVB1	520	Tennessee Valley Authority	TVA
Hartsville-B2	TNHVB2	521	Tennessee Valley Authority	TVA
H. B. Robinson-2	SCHBR2	261	Carolina Power & Light Co.	CPL
Hope Creek-1	NJHCS1	354	Public Service Elec. & Gas Co.	PEG

PLANT NAME	LIC. CODE	DOCKET # (50- )	LICENSEE	LICENSEE ABBR.
Hope Creek-2	NJHCS2	355	Public Service Elec. & Gas Co.	PEG
Humboldt Bay	CAHMB1	133	Pacific Gas & Electric Co.	PGE
Indian Point-1	NYIPS1	003	Consolidated Edison Co.	CEC
Indian Point-2	NYIPS2	247	Consolidated Edison Co.	CEC
Indian Point-3	NYIPS3	286	Pwr. Auth. of the State of N.Y.	PNY
Jamesport-1	NYJPS1	516	Long Island Lighting Co.	LIL
Jamesport-2	NYJPS2	517	Long Island Lighting Co.	LIL
Joseph M. Farley-1	ALJMF1	348	Alabama Power Co.	APC
Joseph M. Farley-2	ALJMF2	364	Alabama Power Co.	APC
Kewaunee-1	WIKNP1	305	Wisconsin Public Service Corp.	WPS
Koshkonong-1	WIKKP1	502	Wisconsin Electric Power Co.	WEP
Koshkonong-2	WIKKP2	503	Wisconsin Electric Power Co.	WEP
La Crosse BWR	WILBR1	409	Dairyland Power Cooperative	DLP
La Salle County-1	ILLSC1	373	Commonwealth Edison Co.	CWE
La Salle County-2	ILLSC2	374	Commonwealth Edison Co.	CWE
Limerick-1	PALGS1	352	Philadelphia Electric Co.	PEC
Limerick-2	PALGS2	353	Philadelphia Electric Co.	PEC
Maine Yankee-1	MEMYP1	309	Maine Yankee Atomic Power Co.	MYA
Marble Hill-1	INMHS1	546	Public Service of Indiana	PSI
Marble Hill-2	INMHS2	547	Public Service of Indiana	PSI
McGuire-1	NCMGS1	369	Duke Power Co.	DPC
McGuire-2	NCMGS2	370	Duke Power Co.	DPC
Midland-1	MIMID1	329	Consumers Power Co.	CPC
Midland-2	MIMID2	330	Consumers Power Co.	CPC
Millstone-1	CTMNS1	245	Northeast Nuclear Energy Co.	NNE
Millstone-2	CTMNS2	336	Northeast Nuclear Energy Co.	NNE
Millstone-3	CTMNS3	423	Northeast Nuclear Energy Co.	NNE
Montague-1	MAMPS1	496	Northeast Nuclear Energy Co.	NNE



PLANT NAME	LIC. CODE	DOCKET # (50- )	LICENSEE	LICENSEE ABBR.
Montague-2	MAMPS2	497	Northeast Nuclear Energy Co.	NNE
Monticello-1	MNMNP1	263	Northern States Power Co.	NSP
Nine Mile Point-1	NYNMP1	220	Niagara Mohawk Power Corporation	NMP
Nine Mile Point-2	NYNMP2	410	Niagara Mohawk Power Corporation	NMP
North Anna-1	VANAS1	338	Virginia Electric & Power Co.	VEP
North Anna-2	VANAS2	339	Virginia Electric & Power Co.	VEP
North Anna-3	VANAS3	404	Virginia Electric & Power Co.	VEP
North Anna-4	VANAS4	405	Virginia Electric & Power Co.	VEP
Oconee-1	SCNEE1	269	Duke Power Co.	DPC
Oconee-2	SCNEE2	270	Duke Power Co.	DPC
Oconee-3	SCNEE3	287	Duke Power Co.	DPC
Oyster Creek-1	NJOCP1	219	Jersey Central Power & Light Co.	JCP
Palisades-1	MIPAL1	255	Consumers Power Co.	CPC
Palo Verde-1	AZPAV1	528	Arizona Public Service Co.	APS
Palo Verde-2	AZPAV2	529	Arizona Public Service Co.	APS
Palo Verde-3	AZPAV3	530	Arizona Public Service Co.	APS
Peach Bottom-1	PAPBS1	171	Philadelphia Electric Co.	PEC
Peach Bottom-2	PAPBS2	277	Philadelphia Electric Co.	PEC
Peach Bottom-3	PAPBS3	278	Philadelphia Electric Co.	PEC
Pebble Springs-1	ORPSN1	514	Portland General Electric Co.	PGC
Pebble Springs-2	ORPSN2	515	Portland General Electric Co.	PGC
Perkins-1	NCPNS1	488	Duke Power Co.	DPC
Perkins-2	NCPNS2	489	Duke Power Co.	DPC
Perkins-3	NCPNS3	490	Duke Power Co.	DPC
Perry-1	OHPNP1	440	Cleveland Elec. Illuminating Co.	CEI
Perry-2	OHPNP2	441	Cleveland Elec. Illuminating Co.	CEI
Phipps Bend-1	TNPBP1	553	Tennessee Valley Authority	TVA
Phipps Bend-2	TNPBP2	554	Tennessee Valley Authority	TVA

PLANT NAME	LIC. CODE	DOCKET # (50- )	LICENSEE	LICENSEE ABBR.
Pilgrim-1	MAPPS1	293	Boston Edison Co.	BEC
Pilgrim-2	MAPPS2	471	Boston Edison Co.	BEC
Point Beach-1	WIPBH1	266	Wisconsin-Michigan Power Co.	WMP
Point Beach-2	WIPBH2	301	Wisconsin-Michigan Power Co.	WMP
Prairie Island-1	MNPIN1	282	Northern States Power Co.	NSP
Prairie Island-2	MNPIN2	306	Northern States Power Co.	NSP
Quad Cities-1	ILQAD1	254	Commonwealth Edison Co.	CWE
Quad Cities-2	ILQAD2	265	Commonwealth Edison Co.	CWE
Rancho Seco-1	CARSS1	312	Sacramento Municipal Util. District	SMU
River Bend-1	LARBS1	458	Gulf States Utilities	GSU
River Bend-2	LARBS2	459	Gulf States Utilities	GSU
Robert E. Ginna-1	NYREG1	244	Rochester Gas & Electric Corp.	RGE
Salem-1	NJSGS1	272	Public Service Electric & Gas Co.	PEG
Salem-2	NJSGS2	311	Public Service Electric & Gas Co.	PEG
San Onofre-1	CASOS1	206	Southern California Edison Co.	SCE
San Onofre-2	CASOS2	361	Southern California Edison Co.	SCE
San Onofre-3	CASOS3	362	Southern California Edison Co.	SCE
Seabrook-1	NHSBK1	443	Public Ser. of New Hampshire	PSN
Seabrook-2	NHSBK2	444	Public Ser. of New Hampshire	PSN
Sequoyah-1	TNSNP1	327	Tennessee Valley Authority	TVA
Sequoyah-2	TNSNP2	328	Tennessee Valley Authority	TVA
Shearon Harris-1	NCSHS1	400	Carolina Power & Light Co.	CPL
Shearon Harris-2	NCSHS2	401	Carolina Power & Light Co.	CPL
Shearon Harris-3	NCSHS3	402	Carolina Power & Light Co.	CPL
Shearon Harris-4	NCSHS4	403	Carolina Power & Light Co.	CPL
Shoreham-1	NYSNS1	322	Long Island Lighting Co.	LIL
Skagit County-1	WASCS1	522	Puget Sound Power & Light Co.	PSP
Skagit County-2	WASCS2	523	Puget Sound Power & Light Co.	PSP

PLANT NAME	LIC. CODE	DOCKET # (50- )	LICENSEE	LICENSEE ABBR.
Souta Texas-1	TXSTN1	498	Houston Lighting & Power Co.	HLP
Souta Texas-2	TXSTN2	499	Houston Lighting & Power Co.	HLP
St. Lucie-1	FLSLS1	335	Florida Power & Light Company	FPL
St. Lucie-2	FLSLS2	389	Florida Power & Light Company	FPL
Surry-1	VASPS1	280	Virginia Electric & Power Co.	VEP
Surry-2	VASPS2	281	Virginia Electric & Power Co.	VEP
Surry-3	VASPS3	434	Virginia Electric & Power Co.	VEP
Surry-4	VASPS4	435	Virginia Electric & Power Co.	VEP
Susquehanna-1	PASES1	387	Pennsylvania Power & Light Co.	PPL
Susquehanna-2	PASES2	388	Pennsylvania Power & Light Co.	PPL
Three Mile Island-1	PATMI1	289	Metropolitan Edison Co.	MEC
Three Mile Island-2	PATMI2	320	Metropolitan Edison Co.	MEC
Turkey Point-3	FLTPS3	250	Florida Power & Light Co.	FPL
Turkey Point-4	FLTPS4	251	Florida Power & Light Co.	FPL
Trojan-1	ORTNP1	344	Portland General Electric Co.	PGC
Tyrone-1	WITEP1	484	Northern States Power Co.	NSP
Vermont Yankee-1	VTVYS1	271	Vermont Yankee Nuclear Power Corp.	VYC
Virgil C. Summer-1	SCVCS1	395	South Carolina Electric & Gas Co.	SCC
Waterford-3	LAWGS3	382	Louisiana Power & Light Co.	LPL
Watts Bar-1	TNWBP1	390	Tennessee Valley Authority	TVA
Watts Bar-2	TNWBP2	391	Tennessee Valley Authority	TVA
W. H. Zimmer-1	OHWHZ1	358	Cincinnati Gas & Electric Co.	CGE
Wolf Creek-1	KSWCS1	482	Kansas Gas & Electric Co.	KGE
WPPSS Nuclear Project-1	WAWNP1	460	Wash. Public Power Supply System	WPP
WPPSS Nuclear Project-2	WAWNP2	397	Wash. Public Power Supply System	WPP
WPPSS Nuclear Project-3	WAWNP3	508	Wash. Public Power Supply System	WPP

PLANT NAME	LIC. CODE	DOCKET # (50- )	LICENSEE	LICENSEE ABBR.
WPPSS Nuclear Project-4	WAWNP4	513	Wash. Public Power Supply System	WPP
WPPSS Nuclear Project-5	WAWNP5	509	Wash. Public Power Supply System	WPP
Yankee-Rowe	MAYKR1	029	Yankee Atomic Electric Co.	YAC
Zion-1	ILZIS1	295	Commonwealth Edison Co.	CWE
Zion-2	ILZIS2	304	Commonwealth Edison Co.	CWE

C-1

EXHIBIT C

NON-POWER REACTOR LICENSEE LIST

(Reference Item 2 of LER)

(To be furnished later)

D-1

EXHIBIT D  
FUEL CYCLE LICENSEE LIST  
(Reference Item 2 of LER)  
  
(To be furnished later)

EXHIBIT E  
 LICENSE TYPE LIST  
 (Reference Item 4 of LER)

<u>CODE</u>	<u>DESCRIPTION</u>
	ACADEMIC
	BYPRODUCT MATERIALS
01100	Academic Broad License
01200	Academic Other License
	MEDICAL
	INSTITUTIONAL
02110	Institutional Broad License
02120	Institutional Other License
02200	PRIVATE PRACTICE
02300	TELE THERAPY
02400	OTHER MEDICAL LICENSES
02500	MEDICAL DISTRIBUTION
02600	BY-PRODUCT PACEMAKER
	COMMERCIAL/INDUSTRIAL/CIVIL DEFENSE
	MEASURING SYSTEMS
03110	Well Logging
03120	Other Measuring Systems
	MANUFACTURING DISTRIBUTION & SERVICES (M.D. & S.)
03211	M.D. & S. Broad Licenses
03212	M.D. & S. Other Licenses
03213	General License Distribution
	EXEMPT DISTRIBUTION
03215	Exempt Quantities
03216	Exempt Watches
03217	Other Exempt Distribution
03218	Nuclear Laundry

<u>CODE</u>	<u>DESCRIPTION</u>
03220	LEAK TEST LICENSE
	COMMERCIAL WASTE DISPOSAL
03231	Burial
03232	Other
	RADIOGRAPHY
03310	Single location (In Plant)
03320	Multiple locations (Field)
03400	POWER SOURCE LICENSE
	IRRADIATORS
03510	Irradiator licenses authorizing < 10,000 curies
03520	Irradiator licenses authorizing $\geq$ 10,000 curies
	RESEARCH & DEVELOPMENT
03610	R & D Broad License
03620	R & D Other License
03710	CIVIL DEFENSE LICENSE
03800	BY-PRODUCT EXPORT
	TRANSPORTATION
04100	Large Quantity
04200	Type B
05100	SEALED SOURCE AND DEVICE EVALUATIONS
	SOURCE MATERIALS
11100	MILLS
11200	OTHER $\leq$ 50 KGS.
11300	OTHER > 50 KGS.
11400	UF6 PRODUCTION PLANTS
11500	MINES



<u>CODE</u>	<u>DESCRIPTION</u>
11600	SOURCE MATERIAL EXPORT
11700	SOURCE MATERIAL IMPORT LICENSES
	SPECIAL NUCLEAR MATERIALS
21110	Fuel Fabrication and Scrap Recovery (Plutonium)
21120	Fuel Fabrication (Plutonium)
21130	Other Uses Including R & D (Plutonium)
21210	UF6 Conversion, Fuel Fabrication, and Scrap Recovery
21220	Fuel Fabrication and Scrap Recovery (Uranium)
21230	Fuel Fabrication (Uranium)
21240	Other Uses Including R & D (Uranium)
21300	U-233 USES
	OTHER USES
	PLUTONIUM
22110	Unencapsulated
22120	Neutron Sources
22130	Power Sources (RTG, RPG, ETC.)
22140	Other Sources
22160	Cardiac Pacemakers
22200	URANIUM
23100	FUEL STORAGE LICENSE
23200	STORAGE ONLY LICENSES
24100	IMPORT LICENSES
24200	SNM EXPORT



CODE      DESCRIPTION

42130	EXPERIMENTAL
42140	TEST
42150	RESEARCH
42160	CRITICAL
42200	ERDA-OWNED (PART 115)
42300	ERDA-OWNED (NOT PART 115)
42400	DOD REACTORS

## NON-REACTOR FACILITIES

43110	FUEL REPROCESSING PLANTS
43120	ISOTOPE ENRICHMENT PLANTS

## VENDORS

44010	FUEL FABRICATION
54000	AGREEMENT STATE
55000	EXPORT
99999	OTHER

## EXHIBIT F

## REACTOR SYSTEM LIST

(Reference Item 11 of LER)

STANDARD  
GENERIC  
CODE-----SYSTEM DESCRIPTIONREACTOR

RA	Reactor Vessel Internals
RB	Reactivity Control Systems
RC	Reactor Core

REACTOR COOLANT SYSTEM & CONNECTED SYSTEMS

CA	Reactor Vessels & Appurtenances
CB	Coolant Recirculation Systems & Controls
CC	Main Steam Systems & Controls
CD	Main Steam Isolation Systems & Controls
CE	Reactor Core Isolation Cooling Systems & Controls
CF	Residual Heat Removal Systems & Controls
CG	Reactor Coolant Cleanup Systems & Controls
CH	Feedwater Systems & Controls
CI	Reactor Coolant Pressure Boundary Leakage Detection Systems
CJ	Other Coolant Subsystems & Their Controls

ENGINEERED SAFETY FEATURES

SA	Reactor Containment Systems
SB	Containment Heat Removal Systems & Controls
SC	Containment Air Purification & Cleanup Systems & Controls
SD	Containment Isolation Systems & Controls
SE	Containment Combustible Gas Control Systems & Controls
SF	Emergency Core Cooling Systems & Controls
SG	Control Room Habitability Systems & Controls
SH	Other Engineered Safety Feature Systems & Their Controls

INSTRUMENTATION AND CONTROLS

IA	Reactor Trip Systems
IB	Engineered Safety Feature Instrument Systems
IC	Systems Required for Safe Shutdown
ID	Safety Related Display Instrumentation
IE	Other Instrument Systems Required for Safety
IF	Other Instrument Systems Not Required for Safety

STANDARD  
 GENERIC  
 CODE-----

SYSTEM DESCRIPTION

ELECTRIC POWER SYSTEMS

EA Offsite Power Systems & Controls  
 EB AC Onsite Power Systems & Controls  
 EC DC Onsite Power Systems & Controls  
 ED Onsite Power Systems & Controls  
 (Composite AC & DC)  
 EE Emergency Generator Systems & Controls  
 EF Emergency Lighting Systems & Controls  
 EG Other Electric Power Systems & Controls

FUEL STORAGE AND HANDLING SYSTEMS

FA New Fuel Storage Facilities  
 FB Spent Fuel Storage Facilities  
 FC Spent Fuel Pool Cooling & Cleanup Systems & Controls  
 FD Fuel Handling Systems

AUXILIARY WATER SYSTEMS

WA Station Service Water Systems & Controls  
 WB Cooling Systems for Reactor Auxiliaries & Controls  
 WC Demineralized Water Make-up Systems & Controls  
 WD Potable & Sanitary Water Systems & Controls  
 WE Ultimate Heat Sink Facilities  
 WF Condensate Storage Facilities  
 WG Other Auxiliary Water Systems & Their Controls

AUXILIARY PROCESS SYSTEMS

PA Compressed Air Systems & Controls  
 PB Process Sampling Systems  
 PC Chemical, Volume Control & Liquid Poison Systems  
 & Controls  
 PD Failed Fuel Detection Systems  
 PE Other Auxiliary Process Systems & Their Controls

OTHER AUXILIARY SYSTEMS

AA Air Conditioning, Heating, Cooling & Ventilation  
 Systems & Controls  
 AB Fire Protection Systems & Controls  
 AC Communication Systems  
 AD Other Auxiliary Systems & Their Controls

STANDARD  
 GENERIC  
 CODE-----

SYSTEM DESCRIPTION

STEAM AND POWER CONVERSION SYSTEMS

HA	Turbine-Generators & Controls
HB	Main Steam Supply System & Controls (Other than CC)
HC	Main Condenser Systems & Controls
HD	Turbine Gland Sealing Systems & Controls
HE	Turbine Bypass Systems & Controls
HF	Circulating Water Systems & Controls
HG	Condensate Clean-Up Systems & Controls
HH	Condensate and Feedwater Systems & Controls (Other than CH)
HI	Steam Generator Blowdown Systems & Controls
HJ	Other Features of Steam & Power Conversion Systems (Not included elsewhere)

RADIOACTIVE WASTE MANAGEMENT SYSTEMS

MA	Liquid Radioactive Waste Management Systems
MB	Gaseous Radioactive Waste Management Systems
MC	Process & Effluent Radiological Monitoring Systems
MD	Solid Radioactive Waste Management Systems

RADIATION PROTECTION SYSTEMS

BA	Area Monitoring Systems
BB	Airborne Radioactivity Monitoring Systems

XX OTHER SYSTEMS

ZZ SYSTEM CODE NOT APPLICABLE

G-1

EXHIBIT G  
FUEL CYCLE SYSTEM LIST  
(Reference Item 11 of LER)  
  
(To be furnished later)

H-1

EXHIBIT H

REACTOR COMPONENT TYPES AND CODES

(Reference Item 14 of LER)

COMPONENT TYPE  
(COMPONENT CODE)

COMPONENT TYPE INCLUDES:

Accumulators  
(ACCUMU)

Scram Accumulators  
Safety Injection Tanks  
Surge Tanks  
Holdup/Storage Tanks

Air Dryers  
(AIRDRY)

Annunciator Modules  
(ANNUNC)

Alarms  
Bells  
Buzzers  
Claxons  
Horns  
Gongs  
Sirens

Batteries & Chargers  
(BATTRY)

Chargers  
Dry Cells  
Wet Cells  
Storage Cells

Blowers  
(BLOWER)

Compressors  
Gas Circulators  
Fans  
Ventilators

Circuit Closers/Interrupters\*  
(CKTBRK)

Circuit Breakers  
Contactors  
Controllers  
Starters  
Switches (other than sensors)  
Switchgear

Control Rods  
(CONROD)

Poison Curtains

Control Rod Drive Mechanisms  
(CRODRVE)

Demineralizers  
(DEMINX)

Ion Exchangers

Electrical Conductors  
(ELECON)

Bus  
Cable  
Wire

\*Requires further categorization (See Item 15)



COMPONENT TYPE  
(COMPONENT CODE)

COMPONENT TYPE INCLUDES:

Engines, Internal Combustion  
 (ENGINE)

Butane Engines  
 Diesel Engines  
 Gasoline Engines  
 Natural Gas Engines  
 Propane Engines

Filters  
 (FILTER)

Strainers  
 Screens

Fuel Elements  
 (FUELXX)

Generators\*  
 (GENERA)

Inverters

Heaters, Electric  
 (HEATER)

Heat Tracers

Heat Exchangers\*  
 (HTEXCH)

Condensers  
 Coolers  
 Evaporators  
 Regenerative Heat Exchangers  
 Steam Generators  
 Fan Coil Units

Instrumentation and Controls\*  
 (INSTRU)

Controllers  
 Sensors/Detectors/Elements  
 Indicators  
 Differentials  
 Integrators (Totalizers)  
 Power Supplies  
 Recorders  
 Switches  
 Transmitters  
 Computation Modules

\*Requires further categorization (See Item 15)

COMPONENT TYPE  
(COMPONENT CODE)

COMPONENT TYPE INCLUDES:

Mechanical Function Units  
 (MECFUN)

Mechanical Controllers  
 Governors  
 Gear Boxes  
 Varidrives  
 Couplings

Motors  
 (MOTORX)

Electric Motors  
 Hydraulic Motors  
 Pneumatic (Air) Motors  
 Servo Motors

Penetrations, Primary Containment\*  
 (PENETR)

Air Locks  
 Personnel Access  
 Fuel Handling  
 Equipment Access  
 Electrical  
 Instrument Line  
 Process Piping

Pipes, Fittings\*  
 (PIPEXX)

Pumps\*  
 (PUMPXX)

Recombiners  
 (RECOMB)

Relays\*  
 (RELAYX)

Switchgear

Shock Suppressors and Supports\*  
 (SUPORT)

Hangers  
 Supports  
 Sway Braces/Stabilizers  
 Scrubbers  
 Anti-Vibration Devices

Transformers  
 (TRANSP)

Turbines  
 (TURBIN)

Steam Turbines  
 Gas Turbines  
 Hydro Turbines

\*Requires further categorization (See Item 15)

COMPONENT TYPE  
(COMPONENT CODE)

COMPONENT TYPE INCLUDES:

---

Valves\*  
(VALVEX)

Valves  
Dampers

Valve Operators\*  
(VALVOP)

Explosive, Squib

Vessels, Pressure\*  
(VESSEL)

Containment Vessels  
Drywells  
Pressure Suppression  
Pressurizers  
Reactor Vessels

Other Components  
(YXXXXX)

Codes Not Applicable  
(ZZZZZZ)

\*Requires further categorization (See Item 15)

I-1

EXHIBIT I

FUEL CYCLE COMPONENT LIST  
(Reference Item 14 of LER)

(To be furnished later)

EXHIBIT J (REFERENCE ITEM 26 OF LER)  
 VENDOR LIST AND REFERENCE NUMBERS

REF NO. ---	VENDOR -----	REF NO. ---	VENDOR -----
A001	AA WIRE PRODUCTS COMPANY	A105	AEROTEST OPERATIONS
A003	ABELL-HOME COMPANY	A107	AFCO STEEL
A004	A S B PRODUCTS, INC.	A108	AFFILIATED STEAM EQUIPMENT CO.
A005	A AND A MANUFACTURING CO.	A109	AGASTAT RELAY CO.
A006	A & H ENGINEERING	A110	AEROVENT FAN
A007	A AND C CONTROLS MANUFACTURING CO., INC.	A111	AILTECH
A010	A. R. T. RESEACH CORP.	A112	AETNA MACHINE CORPORATION
A011	A.P. ENGINEERING	A113	AIR CORRECTION DIV. UNIVERSAL OIL
A015	A.P.V. COMPANY, INC.	A114	AIR-MAZE DIV. (TRUCKWELL STANDARD)
A020	AAB NUCLEAR CORP.	A115	AIR PREHEATER COMPANY
A021	ABBOTT HEAT EXCHANGER CORP.	A116	AIR FILTER AND EQUIPMENT CO.
A022	ABANA PRODUCTS, INC.	A117	AIR CONTROL INCORPORATED
A023	ABCO WELDING & INDUSTRIAL CO.	A118	AIR MONITOR CORP.
A024	ABLE SCALES CO.	A119	AIRMATIC VALVE INC
A025	ACCELERATORS, INC.	A120	AIR PRODUCTS & CHEMICALS INC.
A026	ACCU-ELECTRO MECHICAL DIVISION	A121	AIRPAK
A027	ACCURATE PARTITIONS, DIV-KINCID INDUST INC	A122	AIRPLITE
A028	ACE CONTROLS	A123	AIRPAC ELECTRONICS
A029	ACME ENGINEERING & MFG. COMPANY.	A124	AIR BALANCE, INC.
A030	ACCURATE ENGINEERING CO.	A125	AIR-TEC, INC.
A031	ACIO PRODUCTS CO., INC.	A126	AIRTITE, INC.
A032	ACF INDUSTRIES INC.	A127	AIRCO LABORATORY
A033	ACRE WELDING - DIV OF UNITED TOOL AND DIE.	A130	AIRCO SPEER CARBON-GRAPHITE DIV.
A034	A-C PIPE CO.	A131	AIR MARK
A035	ACME IND	A132	AIR MAPS INC.
A036	ACORN WIRE AND IRON WORKS	A133	ALKEO
A037	ALS INDUSTRIES INC.	A134	AIR CONDITION PRODUCTS COMPANY
A038	ACOPAN	A135	AIRCO TEMESCAL
A039	ACMAT CORP.	A136	AIR PRODUCTS EQUTP COMPANY
A040	ACTON ENVIRONMENTAL TESTING CORP.	A137	AIR CLEAN DAMPER COMPANY
A042	ACROMAG	A138	ALBERICI CONSTRUCTION COMPANY
A045	AD-0-PLASTIC	A139	ALAMO IRON WORKS
A050	ADAM, FRANK	A140	AIRCO CRYOPLANTS CORP.
A055	ADAMS & WESTLAKE	A141	ARKO-TEC, INC.
A060	ADAMS, R. P. CO., INC.	A142	AIRCO WELDING SUPPLY
A061	ADAMSON CO, INC.	A143	ALYAB, INC.
A063	ADAPTO STEEL PRODUCTS	A144	ALABAMA PIPE CO.
A065	ADH CORP.	A145	AITKEN PRUO
A069	ADHESIVE ENGINEERING	A146	ALBANY PRODUCTS
A070	ADDELPHI INDUSTRIES	A147	ALBERT PIPE & SUPPLY
A071	ADMIRAL PAINT CO.	A148	ALBI MFG.-CITIES SERVICE CO.
A072	ADSEC DIV. SYURPA	A149	ALCATEL VACUUM PRODUCTS
A074	ADVANCE CAST STONE CO.	A150	AJAX IRON WORKS
A075	ADVANCED PRODUCTS CO.	A151	ALABAMA POWER COMPANY
A077	ADVANCE TESTS AND INSPECTIONS, INC.	A152	ALCO ENGINE DIVISION, WHITE IND.
A078	ADVANCE EQUIPMENT	A153	ALL BORO METAL PRODUCTS CO.
A080	ADG TELEFUNKEN	A154	ALEXANDER CHEMICAL CO.
A085	AERMOTOR	A155	ALLEGHENY LUDLUM STEEL CORP.
A088	AERO MOTIVE MFG. COMPANY	A156	ALEXANDER VACUUM RESEARCH, INC.
A089	AERLIN CORP.	A157	A-LINED HANDLING SYSTEM
A090	AERO RESEARCH CO	A158	ALABAMA METAL INDUSTRIES CORPORATION
A095	AERJET MANUFACTURING CO.	A159	ALABAMA PRECAST PRODUCT
A100	AEROGUIP CORP.	A160	ALLEN-BRAULEY CO
A102	AEROPROCESS, INC	A161	ALLENCO
A103	AEROTEC INDUSTRIES, INC.	A164	ALLEN, W. C. CORPORATION

## VENDOR LIST AND REFERENCE NUMBERS (Continued)

REF NO.	VENDOR	REF NO.	VENDOR
A165	ALLEN-SHERMAN-HUFF	A241	AMERICAN COOLAIR CORPORATION
A167	ALLEN, W. D., MANUFACTURING CO.	A242	AMERICAN CAST IRON PIPE CO.
A168	ALLEN UNDERGROUND	A245	AMERICAN CHAIN AND CABLE COMPANY
A169	ALLIED BUILDING SYSTEMS	A249	AMERICAN ELECTRIC
A170	ALLIED CHEMICAL CORP.	A250	AMERICAN ENGINEERING
A171	ALLIED CONTRCL CO.	A255	AMERICAN FOUNDRY & FURNACE
A172	ALLIED ENGINEERING & PRODUCTION	A260	AMERICAN GAS & CHEMICALS INC.
A173	ALLIED ELECTRONICS	A265	AMERICAN GAS ACCUM
A174	ALLIED INDUSTRIES	A266	AMERICAN HEAT RECLAIMING CORPORATION
A175	ALLIED-GULF NUCLEAR SERVICES	A267	AMERICAN HARDWARE
A176	ALCO CONTROLS	A270	AMERICAN INSTRUMENT CO.
A177	ALLIED STRUCTURAL STEEL	A275	AMERICAN LAFRANCE
A178	ALLIED RADIO	A280	AMERICAN LEWA, INC.
A179	ALLIED STEEL	A285	AMERICAN MACHINE & FOUNDRY COMPANY
A180	ALLIS CHALMERS	A290	AMERICAN MANGANESE DIV
A181	ALLIED THERMAL CORP.	A291	AMERICAN MANUFACTURING CO. INC.
A185	ALLES, LOUIS	A292	AMERICAN MARSH PUMPS
A186	ALLOY FLANGE AND FITTING CO.	A300	AMERICAN METAL CLIMAX, INC.
A187	ALLOY MACHINES	A301	AMERICAN METAL COMPANY
A188	ALLOY RODS	A302	AMERICAN MONORAIL, INC.
A189	ALLOY STAINLESS PRODUCTS CO.	A303	AMERICAN METER CONTROLS
A190	ALLOY STEEL PRODUCTS CO	A304	AMERICAN PACKING & GASKET CO.
A191	ALLOY SLING CHAINS, INC.	A305	AMERICAN OPTICAL CORP.
A192	ALLOY ENGINEERING CO	A306	AMERICAN PACCOR, INC.
A193	ALLOY PRODUCTS	A308	AMERICAN RUBBER
A194	ALL-STAINLESS PRODUCTS CO.	A309	AMERICAN SMELTING AND REFINING CO.
A195	ALLSTATES DESIGN & DEVELOPMENT CO.	A310	AMERICAN STANDARD INDUSTRIES
A196	ALMEDA TANK	A311	AMERICAN-SAINY GORRAIN
A197	ALNDR INSTRUMENT CO	A315	AMERICAN STEAM CONVEYOR
A198	ALISON CONTROL INC.	A320	AMERICAN STEAM PUMP
A200	ALOYCO, INC.	A322	AMERICAN STEEL & ALUMINIUM CO.
A204	ALSTHULM-BELFORT (FRANCE)	A323	AMERICAN STEEL & IRON WORKS INC.
A205	ALPHA SCIENTIFIC, INC.	A325	AMERICAN TEL & RADIO
A206	ALT, W.S., & SUN	A328	AMERICAN TOOL & MACHINE
A207	ALPHA TANK & METALS MANUFACTURING	A330	AMERICAN TOOL WORKS
A208	ALTEN	A335	AMERICAN TRANSFORMER
A209	ALTO ENGINEERING ASSOCIATES	A340	AMERICAN WARMING & VENTILATING INC.
A210	ALUMINUM CO. OF AMERICA	A345	AMERICAN WELL WORKS
A211	AMAX	A347	AMARILLO GEAR COMPANY
A213	AM AND M, INC.	A350	AMERON
A214	AMBER/BOOTH CO.	A355	AMERSHAM/SEARLE CORP.
A215	AMP BEARD, INC.	A357	AMERTAP CORPORATION
A216	AMCHEM PRODUCTS INC.	A360	AMEX CO.
A217	AMELCO ELECTRIC CO., INC.	A361	AMTEX SUPPLY CO.
A218	AMP CUNO	A362	AMETEK, STRAZA DIV.
A219	AMERICAN ABRASIVE METALS COMPANY	A363	AMETEK INSTRUMENT AND CONTROLS
A220	AMERICAN AIR FILTER CO., INC.	A364	AMHERS BUILDING COMPANY
A223	AMERICAN ART METALS	A365	AMETER/CALREC
A225	AMERICAN ATOMIC CORP.	A366	AMINCO
A230	AMERICAN BEARING	A367	AMLAB INC.
A233	AMERICAN BELTRITE RUBBER COMPANY	A368	AMOT CONTROL CORP
A235	AMERICAN BLOWER CORP	A369	AMPCO METAL INC.
A237	AMERICAN BOILER & TANK CO.	A370	AMPEREX ELECTRONIC CORP.
A238	AMERICAN BOSCH DIV, ARMA CURP.	A375	AMPEX CORP.
A240	AMERICAN BRIDGE	A380	AMPHENDL

## VENDOR LIST AND REFERENCE NUMBERS (Continued)

REF NO. ----	VENDOR -----	REF NO. ----	VENDOR -----
A381	AMTRACK, INC.	A489	ARMOR ELEVATOR COMPANY, INC.
A382	AMP SPECIAL INDUSTRIES	A490	ARROWHEAD
A383	AN-TECH, CORPORATION	A492	ARROW, HART & HEGEMAN
A384	ANACONDA AMERICAN BRASS CO.	A495	ARTISAN INDUSTRIES INC.
A385	ANACONDA WIRE AND CABLE CO.	A497	ASEO VALVE
A386	ANACONDA AMALITE PRODUCTS	A498	ASBESTOS AND MAGNESIA MATERIALS CO.
A387	ANAMET LABORATORIES	A499	ASCO
A388	ANACONDA METAL HOSE CO.	A500	ASEA ELECTRIC, INC.
A389	ANALOGIC	A501	ASHCROFT GAUGE
A390	ANCHOR ALLOYS INC.	A502	ASHCROFT SWITCH
A391	ANCHOR/DARLING VALVE CO. (SEE VENDOR 0020)	A504	ASHLAND PETROLEUM CO.
A392	ANCHOR EQUIPMENT CO.	A505	ASSEMBLY PRODUCTS INC.
A393	ANCHOR/DARLING INDUSTRIES-SEE VENDOR 0025	A506	ASSOCIATED INSTRUMENTS
A394	ANCHOR PACKING CO.	A507	ASSOCIATED CONTROL EQUIPMENT
A395	ANCHOR VALVE CO.	A508	ASSOCIATED INSULATION
A400	ANUALE COMPANY	A510	ASSOCIATED PIPING & ENGINEERING CORP.
A405	ANDERSON ELEC CORP	A511	ASSOCIATE RESEARCH INC.
A410	ANDERSON, C. J.	A512	ASSOCIATED SPRING CORP.
A415	ANDERSON, GREENWOOD & CO.	A513	ASSOCIATED PRODUCTS CONTROL
A416	ANDERSON SUPPLY CO., INC.	A514	ASSOCIATED WELDING SUPPLY INC.
A417	ANDERSON, V. D.	A515	ASTRO INDUSTRIES, INC.
A420	ANDONIAN CRYOGENICS INC.	A520	ASTRO-ARC CO.
A422	ANDREWS CORPORATION	A525	ATCOR, INC.
A423	ANGENIEUX	A532	ATEC, INC.
A425	ANISTICS INC.	A533	ATHENA CONTROL
A426	ANNEX RAILROAD BUILDERS	A535	ATKOMATIC VALVE CO., INC.
A427	ANNIN CO.	A540	ATLAS CAR & MANUFACTURING CO., THE
A428	ANSOU, INC.	A545	ATLAS CORP.
A430	ANSUL CHEMICAL	A546	ATLAS DRYWALL
A435	API INSTR CO	A549	ATLAS FOUNDRY AND MACHINE CO
A436	API INDUSTRIAL CONTROLLERS	A550	ATLAS INDUSTRIAL MANUFACTURING COMPANY
A437	APPARATUS SERVICE CO.	A551	ATLAS INDUSTRIES
A440	APPLETON	A552	ATLAS VALVE
A445	APPLIED DYNAMICS, INC.	A555	ATMOSPHERIC SCIENCES, INC.
A447	APPLIED ENG CO.	A557	ATOMATIC MANUFACTURING CO.
A450	APPLIED HEALTH PHYSICS, INC.	A560	ATOMERGIC CHEMETALS CO.
A455	APPLIED NUCLONICS COMPANY, INC.	A565	ATOMIC DEVELOPMENT CORP.
A460	APPLIED RADIATION CORP.	A570	ATOMIC POWER DEVELOPMENT ASSOC. INC.
A465	APPLIED SYSTEMS CORP.	A575	ATOMIC PRODUCTS CORP.
A468	AQUAMATIC	A580	ATOMICS INTERNATIONAL
A465	ARCHITECTURAL RESEARCH	A585	ATWOOD & MORRILL CO., INC.
A470	AQUA CHEM, INC.	A586	AUCOIN ELECTRIC SUPPLY
A471	ARCES CORPORATION	A587	AUL INSTRUMENTS
A472	ARKANSAS POWER & LIGHT COMPANY	A589	AUSTIN BUILDING
A473	ARAGON ENGINEERING CO.	A590	AUROKA PUMP
A474	ARGUNNE NATIONAL LAB	A591	AUSTIN BRIDGE COMPANY
A475	ARI INDUSTRIES, INC.	A592	AUSTIN STEEL CO, INC.
A476	ARGO INTERNATIONAL CORP.	A593	AUTEC SYSTEMS INC.
A477	ARCOM INDUSTRIES	A595	AUTO CONTROL
A478	ARIZONA GEAR	A600	AUTO ELECTRIC
A479	ARMCO METAL PRODUCTS CORPORATION	A605	AUTO SPRINKLER CORP
A480	ARMCO STEEL CORP.	A607	AUTOMATED HANDLING SYSTEMS, INC.
A485	ARMSTRONG MACH	A610	AUTOMATIC SWITCH COMPANY (ASCO)
A486	ARMSTRONG CORK COMPANY	A611	AUTOMATIC TIRING AND CONTROL INC.
A488	ARMOR	A612	AUTOMATIC TEMPERATURE CONTROLS

## VENDOR LIST AND REFERENCE NUMBERS (Continued)

REF NO. ---	VENDOR -----	REF NO. ---	VENDOR -----
A613	AUTOMATIC VALVE COMPANY	8065	BARBER, JAMES J. CONSULTING SERVICE
A615	AUTOCALL	8066	BARBER-COLMAN CO.
A620	AUTOCALVE ENGINEERS, INC.	8067	BARBER MFG. COMPANY
A625	AUTOCON INDUSTRIES	8069	BARNSDALE COMPANY
A626	AUTOMATIC CONTROL CO.	8070	BARNSDALE VALVE COMPANY
A627	AUTOMATIC HANDLING SYSTEMS	8071	BARCLAY WHOLESALE DIV.
A629	AUTOMATIC INDUSTRIES INC.	8075	BARNEBEY-CHENEY
A630	AUTOMATIC MANUFACTURING CO.	8076	BARNES, JOHN, -CORP.
A640	AUTOMATION INDUSTRIES INC.	8077	BARRETT-HAENTJENS CO.
A645	AUTOMATION PRODUCTS, INC.	8079	BARNSTEAD STILL & STERILIZER CO.
A650	AUTOMATION/CONAM	8080	BARTON INSTRUMENT CO., DIVISION OF ITT
A655	AUTOVENT FAN	8083	BARRY BLOWER CO.
A660	AVCO CORP.-TULSA OPERATION	8085	BASCO, INC.
A661	AVERY, P. F. CORPORATION	8086	BASF WYANDOTE CORPORATION
A662	AVTEK CORPORATION	8087	BASIC ENGINEERS
A663	AWISCO CORPORATION	8090	BASIC TECHNOLOGY, INC.
A665	AXIAL CORP.	8092	BASSICK
A670	AYCOCK, INC.	8093	BASLER ELECTRIC COMPANY
8003	R. & B. ENGINEERING, INC.	8094	BATES & ROGERS CONSTRUCTION COMPANY
8004	B & B INSTRUMENTS	8095	BATES STEEL TRUSS
8005	B-W CONTROLLER	8096	BASTIAN BLESSING
8006	B AND W ST. PETERSBURG ENGINEERING.	8100	BATH IRON WORKS
8007	BABCOCK-DAVIS ASSOCIATES, INC.	8102	BAUER BROTHERS CO.
8010	BABCOCK & WILCOX CANADA LTD.	8105	BAUSCH & LOMB, INC.
8015	BABCOCK & WILCOX COMPANY	8110	BAY CITY TRACTION
8020	BABCOCK & WILCOX TUBLAR PRODUCTS	8115	BAILEY, WM
8025	BABCOCK ELECTRONICS CORP.	8120	BEACH-RUSS CO.
8030	BABCOCK-PERSTA	8125	BEAUMONT MFG
8031	BACON & VAN BUSKIRK GLASS CO.	8130	BECHTEL CORP.
8032	BACHAWACH INSTRUMENT COMPANY	8133	BECKMAN/BERKLEY
8033	BALUN TANK & MFG. CO.	8135	BECKMAN INSTRUMENTS, INC.
8034	BADGER EXPANSION JOINT	8138	BEEVER, ALBERT JR. CO.
8035	BADGER METER CO	8140	BEFFEL LIGHTING
8036	BAGWELL COATINGS, INC.	8145	BELO POLLUTION CONTROL CORP.
8037	BAHNSON SERVICE CO.	8150	BELFAB/BAILEY METER CO.
8038	BAHNSON INDUSTRIAL AIR QUALITY DIV.	8155	BELFAB, INC.
8040	BAILEY INSTRUMENT CO., INC.	8156	BELFORT INSTRUMENT CO.
8045	BAILEY METER COMPANY	8157	BELGIT PASSAVANT CORPORATION
8047	BAILEY, CHARLES M., COMPANY	8159	BELL BOTTOM FOUNDATION CO.
8048	BAILEY, WILLIAM, COMPANY	8160	BELL & GOSSETT
8050	BAIRD ATOMIC INC.	8165	BELL AND HOWELL
8051	BALDWIN COMPANY	8170	BELL, INC., F.W.
8052	BALDAR	8175	BELLEFONTAINE BRIDGE
8053	BANNER IRON WORKS	8176	BELLINGHAM SUPPLY
8054	BALDWIN ASSOCIATES	8177	BELLOWS-VALAIR
8055	BAKER CASTOR OIL CO.	8178	BELLOVE CO
8056	BAKER, HUGH J. & COMPANY	8180	BELMONT IRON
8057	BAKER MFG CO.	8185	BELMONT SMELTING & REFINING WORKS, INC.
8058	BALFOUR ROLLING STEEL DOORS	8187	BEN BRUNAGE CO
8059	BALSBAUGH LABORATORIES INC.	8190	BENDER WARRICK
8060	BALDOR ELECTRIC	8195	BENDIX AVIATION
8061	BALDWIN ROVE & SUNS, INC.	8200	BENDIX CORP., THE
8062	BALDWIN - LIMA - HAMILTON CORP.	8202	BENDIX PROCESS INSTRUMENTS DIVISION
8063	BALTIMORE GAS & ELECTRIC COMPANY	8203	BENFIELD ELECTRIC
8064	BARBER, W.H., CHEMICAL CO.	8205	BENJAMIN ELEC MFG CO



## VENDOR LIST AND REFERENCE NUMBERS (Continued)

REF NO.	VENDOR	REF NO.	VENDOR
8206	BENNETT INDUSTRIES, INCORPORATED	8324	BLANE M ELECTRIC CO.
8208	BENTLEY NEVADA	8325	BLICKMAN, INC., S.
8209	BERGEN-PATTERSON PIPE SUPPORT CORPORATION	8326	BLOUNT BROTHERS CONSTRUCTION COMPANY
8210	BERGAN & PATTERSON	8327	B.M. COMPANY
8211	BERGEN IRON & ENG. COMPANY	8328	BLUE, JOHN CO DIVISION- SUBSCRIPTION TV
8212	BERGEN PIPE SUPPORT CORPORATION	8330	BLUME, JOHN A. & ASSOC.
8213	BERKELEY PUMP CO	8331	BURBE & COMPANY
8214	BERKE CONCRETE ACCESSORIES INC.	8332	BOARUMAN CO
8215	BERKELEY NUCLEONICS CORP.	8333	BOBRICK
8216	BERKELEY STEEL CONSTRUCTION CO.	8335	BOFNUJECK TOOL
8217	BERLIN CHAPMAN	8338	BOUINE ELECTRIC CO
8218	BERLIN STEEL CO.	8340	BOJING COMPUTER SERVICES, INC.
8219	BERT LAELROD & COMPANY	8341	BOJING CO., THE
8220	BFKTRAM CO. H. P.	8342	BOEN TOOL & DYE CO.
8222	BFTAN ASSOCIATION INC.	8343	BOMM ALUMINUM-BRASS CO.
8223	BERTHOLD, GOS--ELECTRIC CO.	8344	BOM BROTHERS CONSTRUCTION COMPANY
8225	BEST ELECTRO CONTROLS	8345	BORNEY FORGE DIV.
8230	BETA CORP.	8348	BURCHART, H.C., ENGINEERING & SUPPLY, INC.
8231	BETHEA CO., INC.	8349	BORDEN COMPANY
8232	BETHEHEM FOUNDRY AND MACHINE CO.	8350	BORG-WARNER CORP.
8235	BETHEHEM STEEL	8351	BORLEN METAL PRODUCTS COMPANY
8237	BETTIS CORPORATION	8355	BORIDE PRODUCTS, INC.
8240	BIACH INDUSTRIES, INC.	8357	BOSTON EDISON COMPANY
8245	BICRON CORP.	8360	BOSTON GLASS WORKS
8247	BIDGE CRANE	8365	BOSTON INSULATED WIRE & CABLE CO.
8248	BIG THREE INDUSTRIES	8367	BOSTON METAL DOOR CO., INC.
8249	BIG FOUR MFG INC.	8368	BOSTON PIPE & FITTINGS, INC.
8250	BIF	8369	BOSTROM-BERGEN METAL PRODUCTS
8251	BIG FOUR WELDING AND EQUIPMENT	8370	BOYCE & GAIL CONSTRUCTION CO.
8252	BIG JOE INDUSTRIAL TOOL CORP.	8371	BOURNS CO.
8253	BILCO COMPANY, THE	8372	BOWEN CO., THE
8254	BIMMINGS CONSTRUCTION COMPANY	8373	BOWMAN CONSTRUCTION PRODUCTS
8255	BIN-DICATOR	8374	BOUSER-MORNER TESTING LABS.
8260	BINGHAM PUMP CO	8375	BOUSER INU
8265	BINGHAM-WILLAMETTE CO.	8376	BRADY CO.
8267	BINKLEY COMPANY, THE	8377	BRAD & MC CLUNG-PAGE
8270	BIO-RAD LABORATORIES	8378	BOWLEN, J.P., COMPANY
8275	BIGNUCLEAR	8379	BRADLEY IRON WORKS, INC.
8277	BIRD MACHINE	8380	BRADLEY CORPORATION
8278	BIRMINGHAM CLAY PRODUCTS COMPANY	8381	BRAMAN-GOW CO.
8279	BIRMINGHAM ORNAMENTAL IRON	8385	BRAM METALLURGICAL-CHEMICAL CO.
8280	BISHOPRIC PRODUCTS CO., THE	8387	BRAND INSULATION INC.
8283	BLACK & DECKER	8389	BRAND REX CO.
8285	BLACK & VEATCH CONSULTING ENGINEERS	8390	BRANDYWYNE INDUSTRIES, INC.
8290	BLACK-SIVALLS-BRYSON	8391	BRANT CONSTRUCTION COMPANY
8295	BLACK, SIVALLS & BRYSON, INC.	8392	BRANCH MFG.
8300	BLACKBURN-JASPER CORP	8395	BRAUN & CO., C.F.
8305	BLACKBURN, INC., P. W.	8400	BRAUNLICH-ROESSLER COMPANY
8310	BLACKMER PUMP	8402	BRELIANT COMPANY
8312	BLACKSTONE CORPORATION	8403	BREWER ENGINEERING LABORATORIES, INC.
8314	BLAW-KNEX COMPANY	8405	BRICE-HAYES CO
8315	BLAW-KNEX CHEMICAL PLANTS, INC.	8408	BRIDGEPORT TESTING
8316	BLAW-KNEX EQUIPMENT, INC.	8410	BRIDGES ELEC
8317	BLAZER, J.J. CONSTRUCTION COMPANY	8411	BRIGGS WEAVER INDUSTRIAL SUPPLY
8320	BLH ELECTRONICS, INC.	8412	BRIGGS ELECTRIC SWITCHBOARD CO.

## VENDOR LIST AND REFERENCE NUMBERS (Continued)

REF NO.	VENDOR	REF NO.	VENDOR
8413	BRIGGS FILTRATION	8570	BURNS AND ROE, INC.
8414	BRIGHTON CORPORATION	8571	BURNS ELECTRONIC SECURITY SERVICE
8415	BRISTOL	8572	BURNS ENGINEERING
8416	BRISQGE MFG. CO.	8573	BURK BROWN
8420	BROBECK & ASSOCIATES, WILLIAM M.	8574	BUSCH COMPANY
8420	BROCKAN, R. T.	8575	BUTLER
8430	BROOKLINE INSTRUMENT CO., INC.	8576	BURREN TRANSFER
8435	BROOKS & PERKINS, INC.	8577	BURTON
8440	BROOKS INSTRUMENT COMPANY	8578	BYITT PINNELL COMPANY
8445	BROOKS ROTAMETER	8580	BYRON JACKSON PUMPS, INC.
8449	BROWN, INC.	C005	L. J. ENTERPRISES
8450	BROWN & ROBT INC.	C010	C.V.I.
8453	BROWN & SHARPE	C015	E-COR ELECTRONICS, INC.
8455	BROWN ROVERI	C020	C-E IN-VAL-CO
8456	BROWN & LOVE ELECTRIC CO.	C021	CABOT CHEMTRDL
8457	BROWN, U.P., AND COMPANY	C022	CABLE KING
8460	BROWN FINITUBE CO.	C024	CADDY CO.
8465	BROWN INSTRUMENT DIV	C025	CAILLIAC MACHINE
8468	BROWN & LAMBERT	C026	CALMEC
8470	BROWN MINNEAPOLIS TANK & FABRICATING CO.	C027	CALIFORNIA FILTER - CALFICO
8475	BROWN, DAYTON T. INC.	C028	LAJON CO.
8480	BROWN-MORSE	C029	CAISSON CORPORATION
8481	BROWNING CO.	C030	CALATOMI, INC.
8483	BRUNNER MFG. COMPANY	C031	CALIFORNIA BIONUCLEAR CORP.
8485	BRULE GM DIESEL, INC.	C032	CALCOR SPACE FACILITY
8486	BRUSH WELLMAN INC.	C033	CALGON CORP.
8487	BS & B SAFETY CO.	C034	CALIFORNIA INSTRUMENT CO.
8490	BTU ENGINEERING CORP.	C035	CALUMET & HELICA CORP.
8495	BUCHANAN STEEL PRODUCTS	C036	CALWATIC
8499	BUD ELECTRONIC COMPONENTS	C037	CALDWELL ENGINEERING COMPANY
8500	BUDA DIV	C038	CALUMET FLEXICORE CORPORATION
8505	BUEHLER CORP., THE	C039	CALUMET TRUCKING COMPANY
8510	BUELL ENGINEERING CO	C040	CALVERT
8515	BUFFALO FORGE COMPANY	C044	CAM INDUSTRIES, INC.
8517	BUFFALO PUMPS	C045	CAMBRIDGE FILTER CORP.
8520	BUFFALO TANK	C047	CAMBRIDGE INSTRUMENT CO
8522	BUFFALOM'S IND'L REFRIG'N SERVICE	C050	CAMBRIDGE NUCLEAR RADIOPHARMACEUTICAL CORP
8525	BUILDERS-PROVIDENCE	C052	CAMBRIDGE THERMONIC CORP
8530	BUILDERS, ROY L.	C053	CARRIER DEHLER
8533	BUILDING FASTENERS & TOOL CO.	C055	CAMCO FITTINGS CO.
8534	BULK SYSTEMS	C057	CAMERADIO COMPANY
8535	BULLDOG BOLT	C060	CAMERON IRON WORKS, INC.
8536	BULTEMA DOCK & DREDGE COMPANY	C063	CAMPBELL CONSTRUCTION
8540	BULLDOG ELEC PROD DIV	C065	CANADIAN STEEL FOUNDRIES
8541	BUMSTEAD, WOODFORD & RILEY	C066	CANADIAN UNIO BRASS CO. LMTD.
8542	BUNKER HILL	C070	CANBERRA INDUSTRIES, INC.
8543	BUNNELL CO, J.H.	C072	CANDLER-RUSCHE, INC.
8545	BUNTING, BRASS & BRONZE CO.	C075	CANNON ELECTRIC - ITI
8550	BURGESS BATTERY	C079	CANNON, OLIVER B. & SONS, THE
8555	BURGESS INDUSTRIES	C080	CANNON TOOL CO.
8560	BURGESS-MANNING	C081	CANONITE CONSTRUCTION COMPANY
8561	BURKE CONCRETE ACCESSORIES, INC.	C082	CAPE ANN TOOL CO.
8562	BURLING	C083	CANTON STEEL FABRICATORS
8565	BURNDY CORP	C085	CAPINTEC INC.
8567	BURNS & NOVIA	C086	CAPITAL FIRE EQUIPMENT CO.

## VENDOR LIST AND REFERENCE NUMBERS (Continued)

REF NO. ---	VENDOR -----	REF NO. ---	VENDOR -----
C087	CAPITAL CONTROLS CO	C191	CENTRAL STATES PIPE
C088	CAPITOL LIGHT & SUPPLY CO.	C192	CENTRAL STEEL AND WIRE
C090	CAPITOL MANUFACTURING CO.	C193	CENTRAL SWITCHBOARD CORPORATION
C095	CAPITOL PIPE & STEEL PRODUCTS, INC.	C194	CENTRI MASTER
C096	CAPTIAL STEEL & IRON COMPANY	C195	CENTRIFIX DIV.
C098	CAPITAL WESTWARD INC.	C196	CENTRAL TEXAS IRON WORKS
C100	CAR-BEE INC	C197	CENTRAL ENGINEERING & SUPPLY CO.
C105	CARBOLINE CO.	C200	CENTURY ELECTRIC
C110	CARBON STEEL PRODUCTS CORP.	C202	CENTURY INSTRUMENTS
C115	CARBURUNDUM CO.	C205	CERADYNE, INC.
C117	CARDINAL SCALE CO.	C210	CERAMASEAL, INC.
C120	CARD KEY SYSTEMS	C215	CERAMCO INC., CHEMISTS
C125	CARDOX CORP	C217	CERAMIC COOLING TOWER CO.
C130	CARGO-AIRE ENGINEERING CORP.	C220	CERAMTEC INDUSTRIES, INC.
C132	CARLISLE TIRE AND RUBBER CO.	C222	CERRO WIRE & CABLE CO.
C134	CARLON PRODUCTS	C224	CERTIFIED LABORATORIES, INC.
C135	CARLSON, INC., G. D.	C225	CERTIFIED RADIATION INSTRUMENT CO.
C136	CARNES COMPANY	C230	CHAIN BELT
C137	CARMAN INDUSTRIES, INC.	C231	C AND H COMBUSTION
C138	CAROLINA POWER & LIGHT COMPANY	C232	CHALLENGER METAL FABRICATORS
C139	CAROLINA INDUSTRIAL PIPING	C233	CHALLENGE-COOK BROS.
C140	CARPENTER TECHNOLOGY CORP.	C235	CHAMBERS, A. R. & SONS
C141	CARPENTER STEEL	C238	CHAMPION BLOWER & FORGE CO. INC.
C143	CARR CO.	C240	CHAMPION, INC.
C145	CARRICK ENGINEERING	C245	CHANCE, A. B.
C147	CARRIER AIR CONDITIONING CO.	C250	CHANDLER ENGINEERING CORP.
C150	CARRIER CORP	C253	CHAPIN-BANGS
C151	CARRIER MFG. CO., INC.	C254	CHAPIN & CHAPIN, INC.
C153	CARTER AIR CONDITIONING COMPANY	C255	CHAPMAN VALVE & MFG
C155	CARTER MOTOR CO	C256	CHAPMAN DIV OF CAANE CO.
C160	CASCADE PUMP	C257	CHASE BRASS AND COPPER CO.
C161	CASE INTERNATIONAL COMPANY	C258	CHASE NUCLEAR DIVISION
C162	CASH, A. W.	C260	CHATILLON, JOHN & SONS
C163	CASALE IND., INC.	C265	CHATTANOOGA BOILER AND TANK CO.
C164	CASHCO INC.	C266	CHECK-ALL-VALVE
C165	CATALYTIC INC.	C267	C.H.C. FABRICATION CORPORATION
C166	CAVAUNAGO, N.J.	C268	CHEMEX CORP.
C167	CATALYTIC PRODUCTS INTERNATIONAL	C269	CHEMINEER INC.
C168	CATCHING ENGINEER	C270	CHEM-NUCLEAR SYSTEMS, INC.
C170	CATERPILLAR TRACTOR	C273	CHEMGROUT INC.
C171	CATHODIC PROTECTION SYSTEMS	C275	CHEM-TROL CORP
C172	CHI NUCLEAR COMPANY	C277	CHEMICAL AND POWER PRODUCTS, INC.
C173	CGO BATTERIES, DIVISION OF ELTRA CORP.	C280	CHEMAPEC, INC.
C174	C-E AIR PRE-HEATER	C285	CHEMETRON CORP.
C175	CECO STEEL PROD CORP	C290	CHEMICAL SEPARATIONS CORP.
C180	CELESCO	C295	CHEMIQUIP PRODUCTS CO., INC.
C181	CELUDEX CORPORATION, THE	C297	CHEMPRO SEALGL
C182	CENTER - LINE INC.	C300	CHEMPUMP CORP
C183	CENTRALAB	C305	CHEMTREE CORP.
C184	CENTRAL PIPE & FITTINGS	C306	CHESTERTON PACKING & SEALS
C185	CENTRAL RESEARCH LABORATORIES, INC.	C307	CHICAGO BLOWER CORP.
C186	CENTRAL ENGINEERING CONSTRUCTION COMPANY	C308	CHICAGO PNEUMATIC & TOOL CO.
C187	CENTRAL STEEL COMPANY	C309	CHICAGO COMBUSTION AIR CORP.
C188	CENTRAL IRON MANUFACTURING	C310	CHICAGO BRIDGE AND IRON COMPANY
C190	CENTRAL SCIENTIFIC CO.	C311	CHICAGO FLUID POWER

## VENDOR LIST AND REFERENCE NUMBERS (Continued)

REF NO.	VENDOR	REF NO.	VENDOR
C312	CHICAGO GUARENTEL COMPANY	C420	CLYDE IRON WORKS, INC.
C313	CHICAGO FITTING CORPORATION	C423	COAST ENNG. LAB
C314	CHICAGO FLY ASH	C424	COATES ELECTRIC BOILER
C315	CHICAGO HEATER	C425	COBER ELECTRONICS INC.
C316	CHICAGO ELECTRIC COMPANY.	C430	COCHRAN CORP
C317	CHICAGO ELECTRIC SUPPLY	C431	COCHRANE ENVIRONMENTAL SYSTEMS
C318	CHICAGO HEIGHTS STEEL	C435	COCHRAN ELECTRIC CO
C319	CHICAGO ORNAMENTAL IRON COMPANY	C436	CODELL CONSTRUCTION COMPANY
C320	CHICAGO PUMP	C437	COEN CO.
C321	CHICAGO PAINTING SERVICE	C438	COFFIN TURBO PUMP
C322	CHICAGO MINIATURE CO.	C439	COGENAL INC.
C323	CHICAGO STEEL TANK COMPANY	C440	COGSWELL
C324	CHICAGO LOCK CO	C441	COHN ELECTRONICS DIV.
C325	CHICAGO SWRD MFG	C442	COHU ELECTRONICS
C326	CHICAGO TRANSPARENT, INC.	C445	CUL-A CORP.
C327	CHICAGO TUBE & IRON CO.	C446	CULBY EQUIPMENT COMPANY
C328	CHIKSAN TOOL COMPANY	C447	CULE ENGINEERING INC
C329	CHROM ALLOY-AMERICAN CORP.	C449	CULEMAN, W.D.
C330	CHISHOLM & MOORE MFG.	C450	COLEMAN SYSTEMS
C331	CHEMTRON	C451	COLE-PALMER INSTRUMENT CO.
C332	CHROMALOX ELECTRIC HEAT	C452	COLLIER CONSTRUCTION CO.
C333	CHROMATICS CORP.	C455	CULLINS & ASSOC., DON L.
C334	CHRISTY PARK WORKS	C460	COLONIAL ELEC PROD
C335	CHRONETICS INC.	C462	COLONIAL KOLONITE CO.
C336	CINCINNATI AIR CONDITIONING COMPANY, THE	C463	COLONIAL MACHINE COMPANY
C337	CINCINNATI GAS & ELECTRIC COMPANY	C465	COLORADO RESEARCH CORP
C338	CLIVES CORP.	C470	COLT INDUSTRIES, INC.-
C339	CIRCLE SEAL	C475	COLTS PATENT FIRE ARMS
C340	CLARAGE FAN	C479	COLUMBUS DIE TOOL & MACHINE COMPANY
C342	CLA VAL CO	C480	COLUMBIA ELECTRIC
C345	CLARE, C. P.	C485	COLUMBIA RESEARCH CORP.
C350	CLARK AND WHEELER ENGINEERING, INC.	C486	COLUMBUS TESTING LABORATORIES, INC.
C355	CLARK BROTHERS	C487	COMBINATION PUMP VALVE CO.
C360	CLARK CONTROLLER	C490	COMBUSTION ENGINEERING, INC.
C365	CLARK COUPER	C492	COMFORT CONTROL
C367	CLARK EQUIPMENT COMPANY	C495	COMMERCIAL FILTERS CORPORATION
C370	CLARK, FRED C.	C496	COMMERCIAL STAMPING & FORGING, INC.
C371	CLARK RELIANCE	C497	COMMANDER STEEL BUILDING SALES CO.
C372	CLAYTON MFG. CO.	C500	COMMONWEALTH ASSOCIATES INC.
C373	CLAYTON AUTOMATIC VALVE CO.	C502	COMMONWEALTH EDISON COMPANY
C376	CLEAVELAND BROS	C504	COMMUNICATIONS & CONTROL CO.
C377	CLECO PNEUMATIC	C505	COMMUNICATION EQUIP
C380	CLEMENT ELECTRIC	C506	COMPUYNE CORP.
C381	CLEMTEX LMTD.	C507	COMSTOCK, L. K., CO.
C382	CLEVELAND BEACON PRODUCTS	C508	CONCRETE PLANK COMPANY, INCL
C383	CLEVELAND CONTROLS INC.	C509	COMPOSITE PRODUCTS INC.
C385	CLEVELAND CRANE & ENGG	C510	CONAM INSPECTION INC.
C390	CLEVELAND PRECISION INDUSTRIES INC.	C515	CONAX CORP.
C395	CLEVELAND SWITCH	C516	CONCO ENGINEERING WORKS
C400	CLEVELAND TRAMRAIL	C517	CONE DRIVE DIVISION
C405	CLEVELAND VIBRATORS	C518	CONGEE MILKING MACHINE COMPANY
C410	CLIMAX MOLYBDENUM CO. OF MICHIGAN	C519	CONERCAN
C415	CLIMET INSTRUMENTS CO.	C520	CONDEC CORP.
C417	CLUNTE, J.M., ASSOCIATION	C521	CONDE PUMP COMPANY
C418	CLW CORP.	C525	CONDIT WORKS, A-C MFG

## VENDOR LIST AND REFERENCE NUMBERS (Continued)

REF. NO.	VENDOR	REF. NO.	VENDOR
C526	CONNECTICUT PLUMBING	C634	COOPER-BESSEMER COMPANY
C527	CONNECTICUT YANKEE ATOMIC POWER CO.	C635	COPEL-VULLAN, INC.
C528	CUNNOR ENG. CORPORATION	C636	COPPERWELL STEEL, INC.
C530	CUNIFLOW CORP.	C637	COOK, LOREN CO.
C535	CUNYAC CORP.	C638	COOK IRON STORE
C536	CUN-RAD DIV. U.S. INDUSTRIES	C639	COPPER FITTINGS CO., INC.
C537	CUNRY F. CONTRACTORS	C640	COPPUS ENGINEERING CORP.
C540	CUNY ASHSLOFT HANGCOK	C641	COOK
C545	CUNY SAFETY VALVE DIV.	C642	CORDON INT'L CORP.
C550	CUNY SEC.	C643	CORROSION ENGINEERING INC. - SARAN CENTURY
C555	CUNY SOLIDATED BALERS	C644	CORREN PUMP CO.
C557	CUNY SOLIDATED BAILING-MACHINE COMPANY	C645	CORRY, CHARLES & SON
C560	CUNY SOLIDATED CONTROLS CORP.	C646	COURSON
C562	CUNY SOLIDATED EUISON COMPANY	C647	COTTRELL-RESEARCH-HAMMON
C563	CUNY SOLIDATED ELECTRODYNAMICS CORP.	C648	COWAN
C565	CUNY SOLIDATED ENERGY SERVICES, INC.	C649	COUCH
C566	CUNY SOLIDATED LIGHTING CO.	C650	COSMODYNE
C567	CUNY SOLIDATED SAFETY RELIEF VALVES	C651	COULTEP STEEL AND FORGE CO.
C568	CUNY SOLIDATED VALVE CORP.	C652	CORWIN & COMPANY, INC.
C569	CUNY SOLIDATED X-RAY SERVICES CO.	C653	COURTNEY ENG. CO.
C570	CUNY MACH.	C654	CRAFTWELL
C572	CONSTRUCTION MANAGEMENT ORGANIZATION	C655	CRAIG SYSTEMS CORP.
C573	CONSTRUCTION SPEC.	C656	CORBIN CO.
C574	CONSTRUCTION PRODUCTS CORPORATION	C657	COWAN DYNAMICS LTD.
C575	CONSUMERS POWER COMPANY	C658	CORNING GLASS WORKS
C580	CONTAINER RESEARCH CORP.	C659	CORCORAN, MATT
C581	CONTINENTAL AIR FILTERS	C660	CRAMER CONTROL CORP.
C582	CONTINENTAL CONVEYOR EQUIPMENT COMPANY	C661	CORNELL & UNDERHILL, INC.
C583	CONTINENTAL BEAKING RESEARCH CORPORATION	C662	CORR-TECH
C585	CONTINENTAL BOILER	C663	CRANE COMPANY
C586	CONTINENTAL CONCRETE PIPE CO.	C664	CRANE DERING PUMPS
C587	CONTINENTAL EQUIP. CO.	C670	CRANE HOIST ENGINEERING & MFG. CO.
C588	CONTINENTAL ELECTRIC CO. INC.	C672	CRANE, JOHN CO.
C589	CONTINENTAL MOTORS CORPORATION	C675	CRANE MIDWEST FITTING CORPORATION
C590	CONTINENTAL CIL CO.	C680	CRANE-FLUMATICS DIV.
C593	CONTINENTAL SALES & ENGINEERING CO.	C681	CRANE PACKING CO.
C595	CONTINENTAL WIRE & CABLE CORP.	C682	CRANE SUPPLY CO.
C598	CONTROL ASSOCIATES, INC.	C683	CRANE TELIDYNE CHEM-PUMP DIVISION
C599	CONTROL CHIEF CORPORATION	C685	CRAWFORD FITTING CO.
C600	CONTROL COMPONENTS	C687	CREAMER & DUNLAP INCORPORATED
C605	CONTROL CORP.	C688	CRESCENT NIAGARA CORP.
C610	CONTROL DATA CORP.	C690	CREYSOT-LOIRE (FRANCE)
C612	CONTROL DIVISION OF AMERACE	C692	CRISPIN VENTS
C615	CONTROL PRODUCTS CORPORATION	C695	CROLL-REYNOLDS ENGINEERING CO., INC.
C620	CONTROL TECHNOLOGY CO., INC.	C700	CRONELL IRON WORKS
C623	CONTROLLED EQUIPMENT CO.	C705	CRONELL ZUBLIER
C625	CONTROLS FOR ENVIRONMENTAL POLLUTION, INC.	C708	CROW, LEWIS M.
C626	CONTROLTRON	C709	CROWTHER, INC.
C627	COPE, T.J.	C710	CROSBY VALVE & GAGE CO.
C628	COOPER ENERGY SERVICES	C715	CROSBY-ASHTON GAGE CO.
C629	COOPER INDUSTRIES	C720	CROUSE-HINDS
C630	CONTRAMATICS CORP.	C721	CROWLEY, PHIL & ASSOCIATES
C631	CONVAL INC.	C722	CROWN CORR ECTION, INC.
C632	CONVEYOR DYNAMICS INC.	C723	CRUMP, AL
C633	COOPER PENJAX	C724	CRUCIBLE STEEL CO.

## VENDOR LIST AND REFERENCE NUMBERS (Continued)

REF NO.	VENDOR	REF NO.	VENDOR
C725	CRYOGENIC ENGINEERING CO. (CRYENCO)	0040	DAVIS AND WILDER, INC.
C730	CRYOGENIC TECHNOLOGY, INC.	0041	DAVIS CONSTRUCTION.
C731	CTE, INC.	0043	DAVIS METAL PRODUCTS
C732	CULLEN, J. F. COMPANY	0045	DAYCO SHEET METAL
C735	CULLIGAN INTERNATIONAL	0047	DAYSTROM INC.
C740	CUMBERLAND RESEARCH CORP.	0048	DAYTON ELECTRIC MFG CO
C741	CUMMINGS INSULATION CO.	0049	DAYTON SURE-GRIP & SHURE COMPANY
C742	CUMMINS ENGINE CO., INC.	0050	DE LAVAL SEPARATOR
C743	CUNNINGHAM SUPPLY CO.	0055	DE LAVAL TURBINE, INC.
C745	CUNDENGG CORP	0057	DE VILBISS COMPANY
C746	CURTIS-ELECTRO	0060	DE ZURICK CORP
C747	CURTIS-WRIGHT	0062	DEALER'S ELECTRIC CO.
C748	CUSTODIS CONSTRUCTION COMPANY	0065	DEANS BRGS PUMP
C749	CURTIN MATHESON	0066	DECO ENGINEERING PRODUCTS, INC
C750	CUSTOM ALLOY CORP.	0067	DEARBORN RUBBER CORP.
C753	CUSTOM COMPONENT SWITCHES, INC.	0068	DEARMAN MFG.
C755	CUSTOM CONT PROD	0069	DEARBORN WIRE & CABLE CO.
C760	CUSTOM ENGG CORP	0070	DECATUR PUMP CO
C761	CUSTOM INDUSTRIAL CONTROL	0071	DECATUR ENGINEERING COMPANY
C762	CUSTOM PLASTIC	0072	DEDELOW, INC.
C763	CUSTOM SWITCHES	0075	DEFENSE APPAREL NU-CON PRODUCTS
C765	CUSTOMLINE CONTROL PRODUCTS, INC.	0077	DEGREMONT INC.
C77C	CUTLER-HAMMER	0080	DEKRON DIV.
C775	CUTTER ELEC & MFG	0082	DELANY CO.
C78C	CVI CORP.	0083	DELAWARE ALLOY FORGE CO.
C782	CYBEREX INC	0085	DEL ELECTRONICS CORP.
C785	CYCLONE FENCE	0086	DELEVAN CO.
C790	CYCLOPS CORP.	0090	DEL MAR ENGINEERING LABORATORIES
C793	CYCLOPS IRON WORKS	0091	DELMARR TRANSMITTER CO.
C795	CYCLOTRON CORP., THE	0092	DELCO CO.
C805	CYPRUS WIRE & CABLE COMPANY	0093	DELEVAL CONDENSER, INC.
0004	DALZEL	0094	DELEVAL SEPARATOR COMPANY, THE
0005	D'APOLONIA, E. CONSULTING ENGINEERS, INC.	0095	DELLE AHLSTROM
0006	DAHL, GEORGE W., COMPANY INCORPORATED	0096	DELPHI INDUSTRIES
0007	DAIRYLAND POWER COOPERATIVE	0097	DELTADYNE
0008	DAKE ENGINE COMPANY	0099	DELTA IRON WORKS, INC.
0009	DANA MECHANICAL CONTRACTING CO.	0100	DELTA SOUTHERN CO.
0010	DAMES & MOORE	0101	DELTA STEEL CORPORATION
0011	DANA LABORATORIES	0102	DELTA SWITCH BOARD COMPANY
0012	DANIEL INDUSTRIES, INC.	0105	DELTA-STAR ELEC DIV
0013	DANIEL BOLT CO.	0108	DELTRON CORPORATION
0014	DANIEL CONSTRUCTION COMPANY	0110	DELTRON INC.
0015	DANIEL OFFICE COMPANY	0115	DELUXE METAL FURNITURE
0016	DANIEL INTERNATIONAL CORPORATION	0120	DEMING CO
0017	DANKAS, WALTER, COMPANY	0122	DENISON DIVISION
0018	DANTON	0123	DERAKANE CO.
0020	DARLING VALVE & MFG. CO. (SEE VENDOR A391)	0124	DEPENDABLE CONCRETE PRODUCTS COMPANY
0025	DARLING-ANCHOR (SEE VENDOR A391)	0125	DEPPMANN, R. L.
0030	DATA TECHNOLOGY CORP	0126	DEPRIZIO, R. L., AND ASSOCIATES, INC.
0034	DAY-BRITE, INC.	0127	DEPRIZIO, V. N., CONSTRUCTION COMPANY
0035	DATX	0128	DESOMATIC PRODUCTS CO.
0036	DETROIT EDISON COMPANY	0129	DETRICK, H. M. COMPANY
0037	DAUGHERTY COMPANY INC.	0130	DETROIT HOIST & MACHINE
0038	DAVID ROUND AND SUN INC.	0131	DICK CORPORATION
0039	DAVIS ENGINEERING CORPORATION	0132	DES MOINES STEEL CO.

## VENDOR LIST AND REFERENCE NUMBERS (Continued)

REF NO. ---	VENDOR -----	REF NO. ---	VENDOR -----
0135	DETROIT STEEL CORP.	0240	DRAYO, INC.
0136	DETROIT SWITCH INC.	0241	DRESSER CRANE & HOIST OPERATIONS
0137	DETROIT TESTING LABORATORIES	0243	DRESSER INDUSTRIAL VALVE & INST. DIV.
0138	DESSAU, HARGLO COMPANY	0245	DRESSER INDUSTRIES, INC.
0140	DEUTERIUM CORP.	0246	DRIERITE, W.A., HAMMOND, CO.
0142	DEVAR CONNECTICUT	0247	DSO COMPANY, THE
0145	DEVCO ENGINEERING INC.	0248	DRYER DYNAMICS CORP.
0146	DEWHANCE H. COMPANY LTD.	0249	DUAL SNAP
0147	DEZURIK	0250	DU KANE CORP.
0149	DIALCO	0251	DUCUMMIN METAL & SUPPLY CO.
0150	DIAMOND POWER SPECIALTY CORP.	0255	DU PONT DE NEMOURS & CO., INC., E.I.
0151	DIAMOND ELECTRONICS, ARVIN CO.	0257	DUKE POWER COMPANY
0152	DIAMOND CHAIN CO.	0258	DUNBAR & SULLIVAN DREDGING COMPANY
0154	DIAMOND-VÖGEL	0260	DUNCAM ELECTRIC
0155	DIAMOND SHAMPOCK CHEMICAL CO.	0264	DURHAM & RICHARDSON, INC.
0156	DIAND CORP.-NOT PRODUCTS DIV.	0265	DUNEGAN CORP.
0157	DICK, A.B., CO.	0266	DURCO
0158	DIETZ	0267	DUNHAM BUSH
0159	DICKSON COMPANY	0268	DUNG RADIATOR COMPANY
0160	DIGITAL EQUIPMENT CORP.	0269	DUNTEMAN & SHAPPERT
0161	DIGITRAN	0270	DUNHAM, G. A.
0162	DICKS-ARMSTRONG, PONTIAC, INC.	0271	DUQUESNE LIGHT COMPANY
0163	DIETERICH STANDARD CORPORATION	0272	URAMETALLIC CORP.
0164	DICKEY PIPE COUPLINGS	0273	DUR-A-FLEX SEAMLESS FLOORS
0165	DIXWOOD CORP., THE	0274	DURRETT-SHEPPARD CORPORATION
0170	DILLON, W. C. & CO., INC.	0275	DURIRON CO., INC.
0173	DIVERSIFIED CHEMICALS CORP.	0276	DUR-ALL MIDWEST CO.
0174	DIXIE PIPE & SALES INC.	0277	DURD-INSTRUMENT CO.
0175	DINGS MAGNETIC SEP.	0278	DUR-O-WAL NATIONAL, INC.
0176	DIVAC ELECTRONICS	0279	DURR, R.C., COMPANY, INC.
0177	DOLLINGER CORP.	0280	DWIGHT EGOTE, INC.
0178	DOLPHIN ENGINEERING CO.	0281	DUST SUPPRESSION SYSTEMS
0179	DOUGE CO.	0282	DUYER
0180	DONALDSON COMPANY	0283	DYNALCO CORP.
0181	DORR ELECTRIC	0284	DUME PRECAST CONCRETE PRODUCTS, INC.
0182	DONDVAN SALES CO.	0285	DYNATECH AEROSPACE OPERATIONS
0185	DORR-MAN MANUFACTURING CO.	0286	DYNAGE
0190	DURNBLATT & ASSOCIATES, INC.	0287	DYNAMATICS
0195	DOSIMETER CORP.	0288	DYNA-QUIP
0200	DOSSERT MFG.	0289	DYNASCIENCE CORPORATION
0205	DOUGLAS LABS., DONALD W.	0290	DYNATECH R/O CO.
0210	DOUGLAS UNITED NUCLEAR, INC.	0291	DYSON, JOSEPH & SONS, INC.
0211	DOVER ELEVATOR COMPANY	0305	E. B. V. SYSTEMS, INC.
0212	DOVER CORPORATION	0310	E. G. & U. INC.
0215	DOW CHEMICAL COMPANY, THE	0315	E.I.L. INSTRUMENTS COMPANY
0220	DOWN RIVER MECHANICAL, INC.	0316	E.S.B. INC.
0223	DOWNS CRANE & HOIST CO.	0317	EADY, GEORGE M., COMPANY
0225	DOWZER ELEC MACH WKS	0318	EAGLE ENGINEERING CO.
0230	DUYLE, M. J. CO.	0320	EAGLE SIGNAL
0231	DOYLE AND ROTH MANUFACTURING CO.	0325	EAGLE-PICHER INDUSTRIES, INC.
0232	DRAGON VALVE, INC.	0330	EANCO, INC.
0233	DRAKE-WILLIAMS STEEL CO.	0335	EARLE EQUIPMENT
0234	DRANE CO.	0340	EARTH ENVIRONMENT MONITORING
0235	DRAYER CORP.	0341	EAST COAST STEEL
0237	DRAYO-DUYLE CO.	0342	EAST BAY STEEL PRODUCTS, INC.

## VENDOR LIST AND REFERENCE NUMBERS (Continued)

REF NO. ---	VENDOR -----	REF NO. ---	VENDOR -----
E043	EASTEL INC.	E147	ELECTRO - MOTIVE DIV. OF G. M.
E044	EASTERN CONTROLS	E148	ELECTRO PRODUCTS
E045	EASTERN INDUSTRIES	E149	ELECTRO PRODUCTS LABORATORIES
E050	EASTERN SPECIALTIES	E150	ELECTRO RUST-PROOFING
E052	EASTON OWENS ELECTRICAL CO	E155	ELECTRO SWITCH CORP.
E055	EASTMAN KODAK CO.	E158	ELECTRO-MECHANO
E060	EATON METAL PRODUCTS CO.	E160	ELECTRO-MOTIVE DIV.
E062	EATON, YALE & HOWE INC.	E165	ELECTROD CO.
E065	EASCO SERVICES INC.	E168	ELECTROL, INC.
E069	EBY, MARTIN K., CONSTRUCTION COMPANY, INC.	E170	ELECTROMETER CORP.
E070	EERLINE INSTRUMENT CORP.	E175	ELECTROMIDE
E071	EERHARDT-DENVER	E180	ELECTRONIC ASSOCIATES INC.
E072	EERO PIPING SYSTEMS	E185	ELECTRONIC CONTROL
E073	ECON-O-TROL	E190	ELECTRONIC COUNTERS CORP.
E074	ECKHART & FINARD CO.	E192	ELECTRONIC DEVELOPMENT LABORATORIES INC.
E075	ECCO PUMP CORP.	E195	ELECTRONIC DISTRIBUTORS, INC.
E076	ECKER, M. COMPANY	E199	ELECTRONIC ENGINEERING
E077	ECCO-SCIENCE LAB.	E200	ELECTRONIC SPACE PRODUCTS, INC.
E078	ECCOYNE CORPORATION (SANTA ROSA, CALIF)	E201	ELECTRONICS CORPORATION OF AMERICA
E079	ECCOYNE CORPORATION (UNION, NEW JERSEY)	E202	ELECTROSTATICS
E080	ECCOYNE COOLING PRODUCTS CO.	E205	ELECTROTECH CHEMICALS CORP.
E081	ECCOYNE GRAVENHEDGE DIVISION	E210	ELECTROSYN TECHNOLOGY LABORATORIES, INC.
E082	EGERER INC.	E215	ELGIN SOFTENER, INC.
E083	EDGERLY INSTRUMENTS	E219	ELLECO, INCORPORATED
E084	EDISON INSTRUMENT COMPANY.	E220	ELLIOTT CO
E085	EDLOW INTERNATIONAL CO.	E221	ELLINGTON WELLS COMPANY, (EMCO)
E086	ECOLOGY CONSULTANTS INC.	E222	ELLISON - INSTR.
E087	ECUKEL CO.	E223	ELNA ENGINEERING CO.
E088	EDDY-EDWA	E224	ELKAY MANUFACTURING
E090	EDWARDS CO	E225	ELSCINT INC.
E094	EGERER CO.	E226	ELTRA CORPORATION
E095	EDWARDS VALVES DIV	E227	ELWOOD NUCLEAR SAFETY
E096	EDWARD STAUBER WHOLESALE HARDWARE, INC.	E228	ELK-HART VALVE CO.
E097	ELECTRA MOTORS INC.	E229	ELMA ENGINEERING COMPANY
E098	ELASTIC STOP NUT CORP. OF AMERICA-AGASTAT	E230	EMANON CO., INC.
E099	ELECN METAL PRODUCTS CO	E231	EMC
E100	ELECTRIC ARC CO.	E232	EMERSON ELECTRIC CO.
E103	ELECTRIC APPARATUS COMPANY	E233	EMPIRE STEEL CASTING, INC.
E105	ELECTRIC COMMUNICATION	E234	EMISSION CONTROL
E106	ELECTRIC ENVIRONMENTAL SYSTEMS	E235	EMR-COMPUTER
E110	ELECTRIC ENGINEERING EQUIPMENT	E240	EMR-PHOTOELECTRIC
E114	ELECTRIC FIXTURE AND SUPPLY	E245	EMR-TELEMETRY
E120	ELECTRIC MACHINERY MFG. CO.	E246	ENDEVOO INC.
E125	ELECTRIC POWER EQUIP	E247	ENDICOTT FORGING
E130	ELECTRIC PRODUCTS	E248	ENDESS AND HAUSER
E135	ELECTRIC REGULATOR	E249	ENERPAC
E137	ELECTRIC THERMOMETERS, INC.	E250	ENERGY INC.
E139	ELECTRIC WHEEL COMPANY	E252	ENERGY PRODUCTS GROUP
E140	ELECTRIC SERVICE	E255	ENERGY SCIENCES INC.
E141	ELECTRIC SUPPLY CORPORATION	E259	ENGDAHL ENTERPRISES
E142	ELECTRO CORPORATION	E260	ENGELHARD INDUSTRIES
E143	ELECTRICAL APPLIANCE COMPANY	E262	ENGINEERED PRODUCTS, INC.
E144	ELECTRO LIFT	E263	ENGINEERED SALES
E145	ELECTRO DEVICES, INC.	E265	ENGINEERING DATA SYSTEMS, INC.
E146	ELECTRO-MECHANICS	E270	ENGINEERS AND FABRICATORS, INC.



VENDOR LIST AND REFERENCE NUMBERS (Continued)

REF NO.	VENDOR	REF NO.	VENDOR
E272	ENGINEERS TESTING LABS.	F014	FALCON MARINE CO.
E275	ENGLISH ELECTRIC	F015	FALK CORP
E277	ENPRO	F020	FANSTEEL, INC.
E278	ENTRELEC	F025	FARGO MFG CO
E280	ENSIGN ELECTRIC & MFG	F030	FARR CO.
E281	ENVIREX, INC.	F035	FARRIS ENGINEERING
E285	ENVIROGENICS COMPANY	F036	FARROW COMPANY, INC.
E290	ENVIRONMENTAL ANALYSTS, INC.	F037	FARVAL CORPORATION
E291	ENVIRONMENTAL DATA CORPORATION	F040	FASCO INDUSTRIES INC
E292	ENVIRONMENTAL PRODUCTS	F042	FABRICATION ENGINEERING COMPANY
E295	ENVIRONMENTAL RESEARCH CORP.	F043	FAVORITE RUBBER COMPANY
E298	EDERER CORPORATION	F044	FEDDERS-WIGGAN CORPORATION
E299	E P G (DIV OF GULF-W)	F045	FED AMER CEMENT & TILE
E300	EON CORP.	F046	FEDCO CONTROL
E301	EPPERSON & CO.	F047	FEDERAL CEMENT PRODUCTS, INC.
E302	ERDCO ENGINEERING CO	F050	FEDERAL ENTERPRISES
E303	EPCO SERVICES, INC.	F053	FEDERAL-MOGUL CORP.
E304	ERECTORERS, INC.	F055	FEDERAL PACIFIC ELEC
E305	ERIC PRODUCTS, INC.	F057	FEDERAL PRODUCTS CORPORATION
E306	ERA TRANSPAC CORP.	F060	FEDERAL SIGN & SIGNAL
E310	ERIE ELECTRIC COMPANY	F062	FEDERAL STEEL CORP
E311	ERIE MAGNETICS	F063	FEDERAL STEEL & SUPPLY COMPANY
E312	ERST GAGE CO.	F065	FEDERAL TEL & RADIO
E314	ESB, INC.	F067	FEE & MASON
E315	ESCO CORPORATION	F070	FEMCO, INC
E320	ESCO PRODUCTS	F075	FENESTRA BLDG PRDD
E325	ESSELSTYN-MURPHY-HANF	F080	FENWAL ELECTRONICS CO.
E327	ESSEX INTERNATIONAL	F081	FENWAL, INC.
E328	ESSEX WIRE CORP	F083	FERGUSON MACHINE CO.
E330	ESTERLINE-ANGUS	F085	FERMONT DIV.
E335	ESZ ASSOCIATES, INC.	F090	FERRANTI-PACKARD ELEC
E340	EUCLID ELEC & MFG	F091	FERROSTAAL-METABO TOOL CO
E342	EVANS EQUALIZING CO.	F093	FIAT PRODUCTS
E343	EVANS, GEORGE CO.	F094	FIAT CO.
E344	EVERS CO.	F095	FIELD EMISSION CORP.
E345	EX-CELLO CORP	F097	FIESE & FIRSTENBERGER MFG COMPANY
E346	EVER-TITE COUPLING CO., INC.	F100	FIFTH DIMENSION, INC.
E347	EXELROD & KERBER, INC.	F103	FIKE METAL CO.
E350	EXECUTONE INC	F105	FILTECH, INC.
E355	EXIDE INDUSTRIAL DIV	F110	FILTERITE CORP.
E359	EXXON CHEMICAL COMPANY	F111	FAIRFIELD ENGINEERING COMPANY
E360	EXXON NUCLEAR CO., INC.	F112	FINNIGAN, J.J.
E361	EWING-RECORDS & ASSOCIATES	F113	FINEWELD TUBE
E365	EYERS CO.	F114	FIRE PROTECTION SYSTEM GRINNELL COMPANY
F002	F & S CENTRAL	F115	FIRST COLONY CORP
F004	FABRICATING WELDING CORP.	F118	FISCHBACH & HATFIELD ELECT CO. (JOINT-VENT)
F005	FABWHD, INC.	F119	FISCHBACH & LIRD
F006	FABRI VALVE COMPANY	F120	FISCHER & PORTER CO.
F007	FACE VALVE CO.	F125	FISHER CONTINENTAL
F008	FAPNIK BEARINGS	F127	FISHER FLOW CONTROL DIV (ROCKWELL INT'L)
F009	FAU BEARINGS	F128	FLOW TECHNOLOGY INC.
F010	FAIRBANKS MORSE	F130	FISHER CONTROLS CO.
F011	FAIRIS ENGINEERING	F135	FISHER GOVERNOR
F012	FAIRFIELD ENG CO.	F140	FISHER PIERCE DIV
F013	FAIRCHILD PRODUCTS HILLER	F141	FISHER SCIENTIFIC

## VENDOR LIST AND REFERENCE NUMBERS (Continued)

REF NO.	VENDOR	REF NO.	VENDOR
F142	FITZ-SIMONS & CONNELL DREDGE & DOCK	F211	FRIEZ INSTRUMENTS
F143	FLAGG, C. N. CO.	F212	FROUSON HEAT TRANSFER LTD (CANADA)
F145	FLAKICE	F213	FROST ENGINEERING
F150	FLANDERS FILTERS, INC.	F214	FRIETAG-WEINHARDT, INC.
F151	FLEX KLEEN	F215	FUEHAUF TRAILER
F152	FLEXALIGN CO.	F216	FROHMELT INDUSTRIES
F153	FLEXITALLIC	F217	FRUCC ASSOCIATES
F154	FLUIDICS TECHNIQUES INC.	F218	FRUIN-COLNON CONSTRUCTION COMPANY
F155	FLUIDONICS DIV.-UOP	F220	FUEL MANAGEMENT CORP.
F156	FLUXICORE COMPANY, INC., THE	F225	FUEL TRAC
F157	FLINT STEEL CORPORATION	F226	FUEL ECONOMY ENGINEERING COMPANY
F158	FLOCK REEDY CORP.	F227	FULFLO SPECIALTIES
F159	FLOOD, WALTER A., & COMPANY	F229	FULLER-AUSTIN INSULATION CO., INC.
F160	FLINT STRUCTURAL STEEL	F230	FULLER CO
F161	FLORIDA HOLT & NUT CO.	F231	FULTON SHIPYARD
F162	FLORIDA POWER CORPORATION	F232	FULTON SYLPHONE CO.
F163	FLORIDA POWER & LIGHT COMPANY	F234	FURNAS ELECTRIC CO.
F164	FLOWLINE CORP.	F235	FYR-FYTER CO
F165	FLUID DYNAMICS CORPORATION	G004	G-V CONTROL
F166	FLUMMATICS	G005	GEN ELEC SPECIALTY
F167	FLUID CONTROLS CORP.	G006	GABLE, D.W. ENGINEERING CO. INC.
F168	FLOW MEASUREMENT SYSTEMS	G010	GAU-TRONICS CORP
F169	FLUID KINETICS CORPORATION	G012	GALE ALLOY CORP.
F170	FLUOR PIONEER INC.	G014	GALLAGHER, R.J. COMPANY
F171	FLUOROCARBON CO.	G015	GALLIGHER CO
F172	FMC CORP.	G017	GALLAND-HENNING
F173	FLUID LINE ENGINEERING, INC.	G020	GAMMA DIV.
F174	FOSTER, L. B. CO.	G025	GAMMA INDUSTRIES, INC.
F175	FOSTER WHEELER	G030	GAMMA PROCESS CO., INC.
F176	FLOW PRODUCTS	G031	GAP INSTRUMENT CORP
F177	FLURE PIPE COMPANY	G032	GARDEN CITY SAND AND BLOWER CO.
F178	FOSSICK MACH.	G035	GARDNER-DENVER
F179	FORNEY ENGINEERING CO.	G038	GARROTT BRASS
F180	FORBURG CO., THE	G039	GATES RUBBER CO
F181	FRABIMOR EQUIPMENT & CONTROL	G040	GARLOCK, INC
F182	FUSTERS IRON WORKS	G041	GASS'R E.R. & ASSOC. CONSULTING SERVICES
F183	FRAM CORP.	G042	GARRETT FLUID COMPONENTS
F184	FOSTER, J.M., INC.	G043	GATEWAY - CHILSTROM
F185	FRAMATOME (FRANCE)	G044	GATE CITY STEEL
F186	FOSTER-WHEELING COMPANY	G045	GAULIN CORP.
F187	FRANCE PACKING COMPANY	G046	GAST MANUFACTURING CORPORATION
F188	F-P-E PIONEER ELECTRIC, LTD.	G047	GAYNES
F189	FORM SPRAY CO.	G048	GELMAN INSTRUMENT CO.
F190	FRANKLIN ELECTRIC	G049	GEUNY, O.Z., COMPANY
F191	FRANKE TILE COMPANY	G050	GENS, INC.
F192	FLOW FLEX ENGINEERING CO.	G051	GEUNY ELECTRIC
F195	FRANKLIN INSTITUTE RESEARCH LABORATORIES	G055	GEN AMER TRANS CORP
F200	FRANKLIN MILLER, INC.	G060	GEN DEVICE & FITTING
F202	FRASSE, PETER A., & CO. INC.	G063	GENERAL ATOMIC CO.
F203	FRAY WELDING CO.	G065	GENERAL CABLE CORP.
F204	FRED L. FOURTELCO COMPANY	G070	GENERAL CONCRETE CO
F205	FREDERICK & CO	G072	GENERAL CONTROLS
F206	FREESER BROTHERS INC.	G073	GENERAL DIMENSIONS
F207	FREIDMAN, A. J. SUPPLY	G075	GENERAL DYNAMICS
F210	FREQUENCY CHANGE	G080	GENERAL ELECTRIC CO.

## VENDOR LIST AND REFERENCE NUMBERS (Continued)

REF NO. ---	VENDOR -----	REF NO. ---	VENDOR -----
G085	GENERAL ENERGY RESOURCES, INC.	G202	GPE CONTROLS
G090	GENERAL EQUIPMENT & MFG	G203	GRANCO CO
G094	GENERAL KINEMATICS CORP.	G205	GRACE, W. R., COMPANY
G095	GENERAL FIREPROOFING	G206	GRACO INCORPORATED
G096	GENERAL GASKET	G208	GRAPHICS CONTROLS CORP.
G098	GENERAL TUNELS	G209	GRAPHICS DIVISION
G099	GENERAL METERS AND CONTROL COMPANY	G210	GRAHAM MANUFACTURING
G100	GENERAL MOTORS	G212	GRANGER, W.W.
G105	GENERAL NUCLEAR INC.	G213	GRAHAM WHITE SALES CORP.
G110	GENERAL PHYSICS CORP.	G214	GRANT LEAH WORKS
G111	GENERAL PORTLAND, TRINITY DIVISION	G215	GRAVER TANK & MFG. CO.
G112	GENERAL PRECISION INC.	G216	GRANDEN HALL AND COMPANY
G115	GENERAL RADIO	G220	GRAVER WATER CONDITIONING CO.
G120	GENERAL RAILWAY SIGNAL	G223	GRAYHILL
G124	GENERAL RUBBER CORP	G225	GRAY TOOL CO.
G125	GENERAL REGULATOR CORP	G230	GRAYBAR ELEC CO, INC
G126	GENERAL RESISTANCE	G232	GRAYWOOD
G127	GENERAL STEEL CO.	G235	GREAT LAKES CARBON CORP.
G128	GENERAL SIGNAL	G236	GREAT LAKES CONSTRUCTION COMPANY
G130	GENERAL TRANSDUCER	G237	GREAT LAKES DREDGE & DOCK CO.
G132	GEORGIA POWER COMPANY	G239	GREEN NECK FAN & VENTILATOR CO.
G135	GEOSCIENCE, LTD.	G240	GREEN FUEL ECONOMIZER
G139	GERARD	G244	GREEN, P. CONSTRUCTION COMPANY
G140	GEOTECH	G245	GREEN, S. M. CO
G141	GHAR CHEM	G246	GREENE, ARNOLD
G143	GIANT CONSTRUCTION COMPANY	G247	GREENVILLE TUBES
G145	GIBBS & HILL, INC.	G248	GREMP STEEL
G147	GIFFORD-HILL AMERICAN	G249	GRIESEN MANUFACTURING CO.
G148	GIFFORD HILL & CO., INC.	G250	GREER HYDRAULICS, INC.
G150	GILBERT ASSOCIATES, INC.	G251	GREFCO, INC.
G152	GILBERT MANUFACTURING COMPANY	G252	GRIEKE HEATING CO.
G153	GIMBEL MACHINE WORKS	G253	GREGORY SALTSBURY METAL PRODUCTS, INC.
G154	GINDLER FOUNDATION & EXPLORATION CO.	G254	GRIFFIN PIPE PRODUCTS
G155	GLADSTONE LABORATORIES, INC.	G255	GRINNELL CORP.
G159	GLEASNER-HARDWELL COMPANY	G256	GRINNELL FIRE PROTECTION
G160	GLEASON REEL & CO	G257	GRINNELL INDUSTRIAL PIPING, INC.
G163	GLOBE ELECTRIC	G258	GRIFFIN CHEMICALS COMPANY
G164	GLIDDEN CO.	G259	GRIMM LUMBER, INC.
G165	GLEASON, J. L. & CO	G260	GRISCOM-RUSSELL
G166	GLEN CONTROLS INC	G261	GRIFFS PIPE AND SUPPLY
G167	GODDARD MANUFACTURING CORP.	G262	GRIFFOLYN
G168	GOLDEN GATE SWITCHBOARD COMPANY	G263	GRIFFS BROS. MFG. CO.
G170	GOLLOM ANALYTICAL SERVICE CORP.	G264	GROB BROTHERS INCORPORATED
G171	GOODYEAR RUBBER	G265	GROVE VALVE AND REGULATOR CO.
G172	GOODRICH, B.F. SCOTLASS BEARING DIVISION	G266	GROGAN COMPANY (LUFKLAND COMPANY)
G173	GOODALL RUBBER CO.	G268	GROTH EQUIPMENT
G174	GOODMAN, GEORGE, CO.	G269	GREEN SAN CO.
G175	GORDON, CLAUD S., CO.	G270	GROVER WATER COND CO
G180	GORMAN RUPP	G271	GROVES, S.-J. & SONS COMPANY
G183	GOULD HEATING ELEMENT DIV.	G272	GTE SYLVANIA INC.
G185	GOULD-NATIONAL BATT	G273	GUARDIAN ELECTRIC
G190	GOULDS MANUFACTURING	G274	GUILBERT, INC.
G195	GOULDS COMPANY	G275	GUINARD PUMP COMPANY
G200	GOULDS PUMPS INC.	G278	GULFALLOY CO.
G201	GRACE CONSTRUCTION PRODUCTS	G280	GULF COMPUTER SCIENCES INC.

## VENDOR LIST AND REFERENCE NUMBERS (Continued)

REF NO. ---	VENDOR -----	REF NO. ---	VENDOR -----
G285	GULF DEGREMONT INC. *SEE D077	H062	HARRISON RADIATOR DIVISION
G290	GA ELECTRONIC SYSTEMS DIV.	H065	HARSHAW CHEMICAL CO.
G295	GULF ENERGY & ENVIRONMENTAL SYS-FRIGA RLTR	H070	HARSHMAN ASSOCIATES, INC.
G300	GA ENVIRONMENTAL SYSTEMS DIV.	H071	HARSCO CORPORATION--IKG INDUSTRIES DIV.
G303	GULFALLOY, INC.	H072	HARTFORD STEAM BOILER COMPANY
G305	GULF GENERAL ATOMIC, INC. *SEE G063	H073	HARTFORD VALVE & FITTING CO.
G306	GULF OIL CORP.	H074	HARTMAN WALSH PAINTING
G307	GULF STATES TUBE CORP.	H075	HARTMAN, WM E.
G308	GULF SUPPLY	H076	HARTMAN & BROWN, AG.
G310	GULF UNITED NUCLEAR FUELS CORP.	H077	HARTWIG MFG CORP.
G311	GULF & WESTERN MFG COMPANY	H080	HARTY, R. V. DIV.
G312	GULF & WESTERN INDUSTRIAL PRODUCTS CO.	H081	HARTZELL PROPELLER FAN CO.
G315	GULTON INDUSTRIES, INC.	H085	HARVESTORE PRODD, INC
G316	GUNTER AND ZIMMERMAN	H086	HARVEY IND, INC.
G317	GUMPERT, R.T.	H087	HARWILL CO.
G318	GUNDERSON BROTHERS ENGINEERING COMPANY	H090	HARWOOD, INC
G319	GUNDLACH, T. J. MACHINERY CO.	H095	HARZA, L. F. ENGG
G320	GUTH, EDWIN	H097	HASKEL ENGINEERING
G344	GUYON ALLUYS	H098	HASKELL, WM. CO.
G345	GUYON, CHARLES F., INC.	H099	HASTINGS RAYDIST
H005	HACH CHEMICAL CO.	H100	HATHAWAY INSTRUMENT
H006	HACKE, MILL & LUMBER COMPANY	H101	HATTER, N.J.
H007	HACKNEY IRON & STEEL CO.	H102	HAUGHTON ELEVATOR CO.
H008	HAEHRING, D.W. AND COMPANY	H103	HATLEY, JOHN T., COMPANY
H010	HAGAN CHEM & CONTROLS	H104	HATFIELD & COMPANY
H015	HAGAN CONTROLS	H105	HAUSERMAN, E. F. CO
H017	HAHN & CLAY MACHINE WORKS	H110	HAVEN-BUSCH CO
H019	HALSEY-TAYLOR CO.	H112	HAWBY FURGE CO.
H020	HAGAN/COMPUTER SYSTEMS	H114	HAHN & CLAY MACHINE SHOP
H021	HAGAN CORPORATION	H115	HAWS DRINKING FAUCET CO.
H022	HAGER, WM	H116	HAWTHORNE MACHINERY CO.
H023	HAGIG CO.	H120	HAYDEN MFG CO.
H024	HAJJOLA CORPORATION	H125	HAYES COMP.
H025	HAMILTON MANUFACTURING CO.	H126	HAYES PUMP & MACHINE CO.
H026	HALL FURDEN ASSOCIATED	H127	HAYWARD TYLER
H027	HALLER TESTING LAB.	H128	HCH ASSOCIATES
H028	HALJACK EQUIPMENT	H129	HEAT ENGINEERING & SUPPLY CO.
H029	HAMILTON OF INDIANA	H130	HEALEY, W. E. & ASSOC
H030	HAMILTON, G. V.	H135	HEALTH PHYSICS ASSOCIATES LTD.
H031	HAMILTON WELDING COMPANY	H136	HEARST METALLURGICAL RESEARCH LAB., INC.
H032	HAMLEN	H137	HEALY RUFF CO.
H035	HAMMEL DAHL	H138	HEISE BOURDON TUBE CO.
H036	HAMNER ELECTRONICS COMPANY, INC.	H139	HELGESON NUCLEAR SERVICES INC.
H037	HANCOCK CO.	H140	HELICOID GAGE CORP.
H039	HAN, J.I. COMPANY, INC.	H141	HEINEMANN ELECTRIC CO.
H040	HANDLEY-BROWN	H142	HECO PACIFIC
H041	HANKISON CORP	H143	HELLAN STRAINER
H042	HANSEN SUPPLY	H144	HENDERER
H043	HARCO CATHODIC PROTECTION DIVISION	H145	HENDRIX WIRE & CABLE
H045	HARLO CORP	H146	HENRY NEWGARD AND CO.
H046	HARNISCHFEGER CORPORATION	H147	HENRY, J. J. CO.
H050	HARPER ELECTRIC FURNACE CORP.	H150	HENSCHEL CORP
H055	HARPER INC. - ITT	H151	HERCULES CONCRETE PILE COMPANY
H057	HARRIS CONTROLS	H152	HERRON TESTING LABORATORIES INC.
H060	HARRISON MANUFACTURING CO.	H155	HERTNER, H. H. ELEC

## VENDOR LIST AND REFERENCE NUMBERS (Continued)

REF NO. ----	VENDOR -----	REF NO. ----	VENDOR -----
H157	HEVI-DUTY ELECTRIC CO.	H275	HOWELL ELEC MOTORS
H160	HEWITT-ROBINS, INC	H278	HOYT-GRANT CO.
H165	HEWLETT-PACKARD CO.	H279	H.P.C INCORPORATED
H167	HEX INDUSTRIES, INC.	H280	HR FILTERS
H17C	HEYL-PATTERSON, INC	H285	HRB
H173	HIGHLAND CONSTRUCTION COMPANY, INC.	H290	HRUDEN LABORATORY PRODUCTS
H175	HI-PURITY MATERIALS, INC.	H295	HUBBARD & CO
H180	HI-SHEAR CORP.	H296	HUBBELL, HARVEY INC.
H185	HI-VOLTAGE EQUIP	H297	HUBBEL PROBES
H187	HICKEY, FRED	H298	HUEBSCH
H189	HIEN, LEWIS H. COMPANY	H299	HUDSON FABRICATING & ENGINEERING CO.
H190	HIGH VOLTAGE ENGINEERING CORP.	H300	HUGHES ELECTRONICS
H192	HILLERY, H. R. CO.	H305	HUICO, INC.
H193	HILLIARD CO.	H306	HUMBOLDT MFG. CO.
H195	HILLS-MCCANNAN CO.	H307	HUNTER CORPORATION
H196	HILTI CORPORATION	H308	HUNT VALVES
H197	HILTI FASTENING SYSTEMS	H309	HUNT, C.B. & SON
H200	HITACHI ELECTRIC	H310	HULL ASSOCIATES
H205	HITCO-MATERIALS DIV.	H311	HUMPHISON & GUNTER
H210	HITMAN NUCLEAR & DEVELOPMENT CORP.	H312	HUMPHREY ELEVATOR & TRUCK COMPANY
H212	HOBART BROTHERS COMPANY	H313	HUNT, RODNEY CO.
H213	HOFFMAN ENGINEERING	H314	HUNTINGTON ALLOY CO.
H215	HOFFMAN INDUSTRIES	H315	HUNGERFORD & TERRY, INC
H220	HOFFMAN INTERNATIONAL, INC.	H316	HUNT, ROBERT W.
H222	HOHMANN & BARNARD, INC.	H317	HUSSMAN SAN FRANCISCO, INC.
H223	HOFFMAN AIR-FILTRATION, DIV CLARKSON INDUST.	H318	HURON INDUSTRIES
H225	HOIST EQUIPMENT, INC.	H319	HUSKY PRODUCTS.
H229	HOJ ENGINEERING	H320	HYDRAJET AMERICAN, INC.
H230	HORE, INC.	H321	HYBRID SYSTEMS INC.
H231	HOLBRUCK-MERRILL COMPANY	H322	HUPP CORPORATION
H232	HOLLERAN, M. J., INC.	H323	HUYCK METALS COMPANY
H235	HOLLISTER-WHITNEY	H324	HURON PORTLAND COMPANY
H240	HOLMES & NARVER, INC.	H325	HYDRAULIC RESEARCH
H245	HOLBEAM INC.	H330	HYORIL
H246	HOLD-KROME CO	H335	HYOKU-ASH CORP
H249	HOLOPHANE CO. INC.	H336	HYDROCHEM CORPORATION
H25C	HOLSONICS, INC.	H340	HYDRODYNE
H252	HOLT BROTHERS	H341	HYDRUMATION ENGINEERING CO.
H253	HOLWERDA-HUIZINGA COMPANY	H342	HYDROMATION FILTER COMPANY
H255	HOLTZEN-CABOT ELEC	H343	HYURO LINE MFG. COMPANY
H256	HOLSEA COMPANY	H350	HYGRUDYNAMICS INC.
H257	HOMESTEAD INC. - VALVE DIV.	1005	I-T-E CIRCUIT BREAKER
H258	HOPKINSONS LIMITED	1010	IBM CORP
H259	HORTON PROCESS DIV.	1011	IDEAL ELECTRIC AND MANUFACTURING CO.
H26C	HONEYWELL CORPORATION	1012	IDEAL FORGING CO.
H262	HOUSE OF STAINLESS STEEL INC.	1013	IKG INDUSTRIES
H263	HOUVER QUALITY BALL BEARING COMPANY	1014	IDEAL TOOL AND MANUFACTURING
H264	HOVER FABRICATING	1015	I.V. TECHNOLOGY
H265	HOUSTON INSTRUMENT CO.	1016	ILG ELECTRICAL & VENTILATING COMPANY
H266	HOWARD, C.E. CORPORATION	1017	ILG INDUSTRIAL
H267	HOWARD H. H. COMPANY	1020	ILLINOIS WATER TREATMENT CO.
H268	HOWARD STEEL COMPANY	1023	ILLINOIS PAINTING COMPANY
H269	HOUSTON LIGHTING & POWER COMPANY	1024	ILLINOIS POWER COMPANY
H270	HOME-RICHARDSON SCALE	1025	IMEACON CONSULTANTS
H271	HOUSTON FASTENERS	1026	INDIANA GENERAL

## VENDOR LIST AND REFERENCE NUMBERS (Continued)

REF NO.	VENDOR	REF NO.	VENDOR
1027	IMPERIAL-EASTMAN CORP.	1112	INTERCONTINENTAL CONSTRUCTION CO.
1028	INDIANA BRIDGE COMPANY	1114	INTERLOCK CORPORATION
1029	IMPERIAL STEEL TANK CO.	1115	INTERNATIONAL CHEMICAL & NUCLEAR CORP.
1030	IMPERIAL EL&C CO	1120	INTERNATIONAL DERRICK
1031	INDRECO	1125	INTERNATIONAL HARVESTER
1032	INDIANA & MICHIGAN ELECTRICAL COMPANY	1129	INTERNATIONAL EQUIPMENT
1033	INDIKON	1130	INTERNATIONAL INSTRUMENTS, INC.
1034	INDUSTRIAL ACOUSTICS CO., INC.	1131	INTERNATIONAL IRON WORKS INC.
1035	INDUSTRIAL BROWNHOIST	1132	INTERNATIONAL METAL PRODUCTS, INC.
1036	INDUSTRIAL BIO-TEST LABORATORIES INC.	1135	INTERNATIONAL NUCLEAR CO.
1037	INDUSTRIAL CONCEPTS CORP.	1137	INTERNATIONAL NUCLEAR SAFEGUARDS INC.
1038	INDUSTRIAL AIR CO.	1140	INTERNATIONAL NUTRONICS, INC.
1040	INDUSTRIAL ELEC & TRANS	1141	INTERNATIONAL SUPPLY
1041	INDUSTRIAL ELECTRICAL MANUFACTURING, INC.	1142	INTERNATIONAL POWER MACHINES CORP.
1042	INDUSTRIAL ENGINEERING CONSTRUCTION SVC.	1145	INTERNATIONAL STACEY
1043	INDUSTRIAL DESIGN INCORPORATED	1147	INTERNATIONAL SWITCHBOARD CORP.
1045	INDUSTRIAL ENGINEERING AND EQUIPMENT	1148	INTERNATIONAL STEEL COMPANY
1046	INDUSTRIAL ERECTORS INC.	1149	INTERNATIONAL TELEPHONE & TELEGRAPH CORP.
1047	INDUSTRIAL FILTER COMPANY	1150	INTERNATIONAL THERMAL INSTRUMENT CO.
1048	INDUSTRIAL INSPECTION INC.	1152	INTERPACE CORP/PULSE FEEDER DIVISION
1049	INDUSTRIAL MECHANICS	1155	INTERSTATE INDUSTRIAL UNIFORM RENTAL SERV.
1050	INDUSTRIAL NUCLEONICS CORP.	1160	INTERSTATE LAUNDRY & DECONTAMINATION SERV.
1051	INDUSTRIAL ENGINEERING WORKS	1165	INTERTECHNIQUE INSTRUMENTS, INC.
1053	INDUSTRIAL INSTRUMENT	1170	INTESEL CORP.
1055	INDUSTRIAL PROCESS ENGINEERING	1171	IN-VAL-CO
1060	INDUSTRIAL REACTOR LABORATORIES, INC.	1173	INVENTRON INDUSTRIES INC.
1063	INDUSTRIAL TIMER CORP.	1174	INVENTRON
1064	INDUSTRIAL SALES CO.	1175	IONICS, INC.
1065	INDUSTRIAL RUBBER PRODUCTS	1177	IOWA ELECTRIC LIGHT & POWER COMPANY
1066	INDUSTRIAL SERVICE CO.	1178	IOWA VALVE COMPANY
1067	INDUSTRIAL STAINLESS STEEL, INC.	1179	I.R.C.
1068	INDUSTRIAL VALVE & INSTRUMENT CO.	1180	IPAC GROUP, INC.
1069	INFILCO, DIV. WESTINGHOUSE	1181	IRSAY, ROBERT, INC.
1070	INGALLS IRON WORKS	1182	ISHIKAWAJIMA HARIWA IND. (IHI-JAPAN)
1071	INFILCO DEGREMENT, INC	1183	IRWIN STEEL
1075	INGERSOLL-RAND CO	1184	ISETT, C.B., & SON, INCORPORATED
1076	INLAND INDUSTRIAL BLDG	1185	ISOLAB INC.
1077	INLAND STEEL	1190	ISUMEDIX, INC.
1080	INRYCO-INLAND-RYERSON CONST PRODUCTS CO.	1195	ISOMET CORP.
1082	INSTITUTIONAL EQUIPMENT CORPORATION	1197	ISOTHERMICS INC
1084	INSTRUMENTS INC.	1200	ISOTOPE PRODUCTS LABORATORIES
1085	INSTITUTE FOR RESOURCE MANAGEMENT, INC.	1201	ITSSI, EDWIN W., PAINTING & DECORATING INC.
1086	INSTRUMATICS INC.	1202	ITE IMPERIAL CORPORATION
1087	INSTRUMENT ASSOCIATES	1203	IT-E CIRCUIT BREAKER CANADA
1088	INSTRUMENT SYSTEMS CO.	1204	ITT-BARTON
1089	INSTRUMENTS DISPLAY INC.	1205	ITHACO, INC.
1090	INSTRUMENT TECHNOLOGY, INC.	1206	ITT GENERAL CONTROLS
1092	INSTRUMENTATION LABORATORY INC.	1207	ITT GRINNELL
1093	INSTRUMENT SPECIALTIES	1208	ITT HAMMEL DAHL CONOFLOW
1094	INSTRUMENT AIR	1209	I.T.T. PHILLIPS DRILL DIVISION
1095	INSUL-B-CORP	1210	ITT SUPRENANT
1100	INSULATION SYSTEMS INC.	1211	ITT FLUID HANDLING DIVISION
1102	INTELCOM RAD TECH	1001	JACOBY - TARBOX
1105	INTERDEVELOPMENT, INC.	1002	JAMCO-WESTON
1110	INTEREX CORP.	1003	JACUZZI TURBINE PUMPS

## VENDOR LIST AND REFERENCE NUMBERS (Continued)

REF NO.	VENDOR	REF NO.	VENDOR
J004	JAKES FOUNDRY COMPANY	J125	JOSLYN STAINLESS STEELS
J005	JAMES & CO., FRED S.	J126	JOVY-LEER, DR. ING.
J006	J & P PETROLEUM PRODUCTS	J127	JOY MANUFACTURING CO.
J007	J.B.T.	J130	JRR ASSOCIATES, INC.
J008	J.G. SALES CO., INC.	J134	JULIAN ELECTRIC COMPANY
J009	JABSLD PRODUCTS, INT.	J136	JUNO INDUSTRIES
J010	JAMES BURY CORP.	J140	JUSTIN ENTERPRISE
J012	JAMES, POND & CLARK DIV.	K002	KACENA COMPANY
J014	JANOS ASBESTOS	K005	KAHN & CO.
J015	JAPAN STEEL WORKS (JAPAN)	K007	KAISER ALUMINUM & CHEMICAL SALES, INC.
J020	JARVIS ENGINEERING	K008	KAISER CEMENT & GYPSUM CORP.
J023	JAY INSTRUMENT & SPECIALITY CO.	K010	KAISER ENGINEERS
J025	JEFFERSON ELECTRIC	K012	KAISER STEEL CO.
J030	JEFFERY-DEWITT INS CORP.	K015	KALAMAZOO TEE
J033	JEFFREY MANUFACTURING COMPANY	K020	KAMAN SCIENCES CORP.
J034	JENKINS BROTHERS	K021	KANTO VALVE CO.
J035	JELCO INC.	K022	KATES, W.A. COMPANY
J036	JENKINS VALVE CORP.	K023	KATELEMAN FOUNDRY
J037	JENSEN INSTRUMENT	K025	KATO ENGINEERING
J038	JENN-AIR CORP.	K026	KARN CHEMICAL EQUIPMENT COMPANY
J040	JERKUSON GAGE & VALVE CO.	K027	KARTHHAUSER CO.
J045	JERPAR-VALVELESS CO.	K030	KAVLICO ELECTRONICS INC.
J047	JERSEY CENTRAL POWER & LIGHT COMPANY	K031	KAW VALVE AND FITTING CO.
J050	JERSEY NUCLEAR CO., INC.	K035	KAWECKI BERYLCO INDUSTRIES, INC.
J055	JESSUP STEEL CO.	K036	KAY DEE
J057	JOB-BELL PRODUCTS	K037	KAWIN, CHARLES C., CO.
J060	JOHNS-MANVILLE CORP.	K038	KAWNEER-LOCKWOOD GLASS
J065	JOHNSON & HIGGINS	K039	KAYRO PRECISION CASTING CORP.
J067	JOHNSON AIR BELT CLEANER	K040	KEARNEY, J. R.
J070	JOHNSON ASSOCIATES INC., E. R.	K041	KECKLEY, C.C., CO.
J073	JOHNSON CONTROLS INC.	K042	KEENE CORPORATION
J075	JOHNSON DIVISION, U.D.P.	K043	KEELER & LONG
J076	JOHNSON ENGINEERING	K044	KEARNY & TRECKER
J077	JOHNSON FIRE-PROOF DOOR CO., INC.	K045	KEITHLEY INSTRUMENTS, INC.
J080	JOHNSON GEAR	K047	KEL-HIN
J082	JOHNSON MACHINE WORKS	K049	KELLEY GUARDS MCCORMACK EQUIPMENT CO.
J085	JOHNSON MANUFACTURING	K050	KELLOGG-AMERICAN, INC.
J086	JOHNSON-MARSH CORPORATION	K055	KELLOGG, M. W. CO., THE
J090	JOHNSON SERVICE CO.	K057	KELLY, CHARLES D., COMPANY
J093	JOHNSON-WILLIAMS	K058	KELLY, D. H. CO.
J095	JOHNSON, ALDOLPH	K060	KELLY PIPE CO.
J100	JOHNSTON LABORATORIES, INC.	K065	KELLY, O. G. CORPORATION
J105	JOHNSTON PUMP CO.	K067	KINEMATICS
J107	JOLIET CONCRETE PRODUCTS	K068	KEMP, C.M., COMPANY
J108	JULIET ENGINEERING COMPANY	K069	KENTON EQUIPMENT COMPANY
J110	JUNATHAN MANUFACTURING CO.	K070	KENCO, INC.
J111	JUNES, J. A., CONSTRUCTION CO.	K071	KENNETH LATOR ASSOC.
J112	JONES AND LAUGHLIN	K072	KENETT CORP.
J113	JONES AND MCKNIGHT, INC.	K073	KENDALL
J114	JORDON CONTROLS COMPANY	K074	KENNARD CORPORATION
J115	JORDAN NUCLEAR CO.	K075	KENNEDY VALVE MFG CO.
J116	JORDAN VALVE CO.	K076	KENNEDY TANK MANUFACTURING COMPANY
J117	JORGENSEN, E. M.	K077	KENTILE, INC.
J118	JOSAM COMPANY	K078	KEPCO
J120	JOSLYN MFG & SUPPLY	K079	KEUNIG, C.J. COMPANY, INC.

## VENDOR LIST AND REFERENCE NUMBERS (Continued)

REF NO.	VENDOR	REF NO.	VENDOR
K080	KERITE CO., THE	K193	KUHLER CO.
K081	KETTING PRODUCTS	K194	KRUHNE PORTER
K083	KEROTEST CONSOLIDATED	K195	KULLMOFGEN CORP.
K085	KEROTEST MANUFACTURING CORP.	K197	KUNTRD CO., INC.
K09C	KERN MACHINERY CO.	K198	KUOCH ENGINEERING
K095	KERR-MEGEE CORP.	K199	KRANCO, INC.
K100	KERRIGAN IRON WORKS	K200	KOPPERS CO., INC.
K102	KEUFFLE & ESSER	K201	KRISTAL ASSOCIATES
K105	KEYEX CORP.	K202	KROUGH PUMP CO.
K110	KEWAUNEE MFG.	K203	KRAMER, F.C.
K115	KEWAUNEE SCIENTIFIC EQUIPMENT CORP.	K204	KRAUSS, JOHN F., COMPANY
K117	KEYSTONE PIPE AND SUPPLY CO.	K205	KSB PUMP SULZER BRUS. COMPANY
K118	KEYSTONE REFS INC.	K206	KREZ, PAUL J. COMPANY
K119	KICKHAM BOILER & ENGINEER INC.	K207	KRUPP STEEL COMPANY
K120	KIDDE, WALTER & CO.	K208	KRUEGER MFG. CO.
K124	KIEWIT, PETER & SONS COMPANY	K209	KSM PRODUCTS, INC.
K125	KIELLEY & MUELLER CO.	K210	KUBOTA, LTD. (JAPAN)
K126	KILLEBREW ENGINEERING CORP.	K212	KUPFER IRON WORKS
K127	KIMMELT BROS.	K215	KUHLMAN ELECTRIC CO.
K130	KINEMETRICS, INC.	K220	KULITE SEMICONDUCTOR PRODUCTS INC.
K131	KING-KNIGHT CO.	K225	KULITE TUNGSTEN CO.
K132	KING-LAH CO.	K230	KULJIAN CORP., THE
K135	KING-SEELEY THERMUS CO.	K235	KUNALT VALVE CO.
K139	KINGMANN-WHITE, INC.	K236	KURIMOTO IRON WORKS LTD.
K140	KINGSBURY, ALBERT	K237	KYNEX CORP.
K141	KING, T. E. CO.	L002	L & A CO.
K142	KINNEY ELECTRICAL MFG COMPANY	L003	L. A. WATER CONDITIONING
K143	KINNEY, S.P. ENGINEERING, INC.	L004	L.A. WATER TREATMENT DIV CHROMALLOY AMER.
K144	KINNEY VACUUM CO.	L005	L & S MACHINE COMPANY, INC.
K145	KINNEAR MANUFACTURING	L006	L.A. WATER SOFTENER COMPANY, INCORPORATED
K146	KINNEAR STEEL ROLLING DOORS	L007	L & M - SUNCO MANUFACTURING COMPANY
K148	KIRBY BLDG SYSTEMS	L008	L.G.E.M. CO.
K150	KIRK & BLUM	L010	L N O, INC.
K155	KIRK, MORRIS P. & SONS, INC.	L015	LA MARCHE MFG CO.
K160	KIRKHOFF ELECTRIC	L016	LAB-LINE INSTRUMENTS
K165	KIRKMAC MANUFACTURING	L017	LABARGE TUBULAR DIV. LTD.
K167	KIRSCHVIC, CONSTRUCTION COMPANY, INC.	L018	LABORATORY FURNITURE COMPANY
K168	KISSICK CORP.	L019	LABORATORY EQUIPMENT COMPANY
K170	KISTLER INSTRUMENT CO.	L020	LABOUR COMPANY
K171	KITE COMPANY	L023	LACLEDE STEEL COMPANY
K172	KOK MACHINING, INC.	L024	LADREW CO.
K173	KLAUS, P. CO.	L025	LADISH CO.
K175	KLEIN, SCHANZLIN AND BECKER	L027	LAKE COUNTY SUPPLY
K176	KLEIN METAL GRATING CORPORATION	L030	LAKE ERIE ELECTRIC
K177	KLEMP METAL GRATING CORPORATION	L032	LAKE ENGINEERING COMPANY
K179	KLEMP CORP ENGINEERING AND MFG.	L033	LAKE STATES ENGINEERING CORPORATION
K180	KLEMP, WILLIAM F. CO.	L035	LAKESIDE BRIDGE & STEEL CO.
K182	KLOCKNER-MOELLER	L040	LAMAR PIPE CO.
K183	KNAPP MILLS INC.	L045	LAMBDA ELECTRONICS
K185	KOBE COMPANY	L050	LAMCO INDUSTRIES, INC.
K186	KNAPP, WALTER OF WISCONSIN	L052	LAMESA TOOL AND MANUFACTURING CO.
K187	KOCH ENGINEERING COMPANY	L053	LAMONS METAL GASKET COMPANY
K190	KOUEL ELECTRIC & MFG CO.	L055	LANCESTER IRON WORKS
K191	KUPFERMAN INDUSTRIES	L060	LANCE IRON WORKS
K192	KUERNER, LERSCH, KAUFFELD	L065	LANDAUER, JR. & CO., R.S.



## VENDOR LIST AND REFERENCE NUMBERS (Continued)

REF NO. ---	VENDOR -----	REF NO. ---	VENDOR -----
L070	LANDSVERK CORP.	L196	LIFT ALL CO.
L072	LANGMAYER STEEL CO.	L197	LIQUID SYSTEMS
L073	LANGENFELDER, C.S. & SONS, INC.	L198	LINBLAD CONSTRUCTION CO.
L075	LANSING STEEL CORP.	L200	LIMITORQUE CORP.
L080	LAPP ENGINEERING COMPANY	L202	LIN-DON
L081	LARSEN PRODUCTS CORPORATION	L205	LINCOLN ELECTRIC CO
L082	LARSSON-LANE	L206	LIGON DIVISION ILLINOIS TOOL WORKS INC. I
L084	LASHEK SUPPLY CO.	L207	LINDAHL BROTHERS
L085	LAPP INSULATOR CO	L210	LINDBERG
L086	LATHROP STEEL COMPANY	L215	LINDE DIV.
L087	LAURENCE, R.G. CO, INC.	L220	LINE MATERIAL INDUSTRIES
L088	LAWRENCE PUMPS INC.	L225	LINK-BELT CO
L089	LAW ENGINEERING TESTING CO.	L228	LITHUNIA
L090	LAYNE NORTHERN	L229	LIPPS-JAKUBIK & ASSOCIATES
L091	LAURENT CORPORATION	L230	LINK, HERRBERT D.
L095	LAYNE-BOWLER, INC	L231	LIPS SPILLING SERVICE
L100	LEAHY CO	L232	LITTON INDUSTRIES
L105	LEAK SEIGLER, INC.	L233	LIQUID DYNAMICS CORP.
L110	LEATHERMAN	L234	LIST & CLARK CONSTRUCTION COMPANY
L111	LEAVELL DRAVO	L235	LIGUTMETER CORP
L112	LEBANON STEEL FOUNDRY	L236	LIQUID HARMONIC CORP
L113	LEBLOND, R.K., MACHING TOOL COMPANY	L237	LIQUIDONICS INC.
L114	LECKENY ASSOC.	L238	LIZ INDUSTRIAL SALES COMPANY
L115	LECROY RESEARCH SYSTEMS CORP.	L239	LIQUID AIR
L120	LEGGUA & CO.	L240	LOCHINVAK WATER HEATER
L122	LEE C. MOORE CORP.	L245	LUCKE DEPT, GE CO
L123	LEE CO PRECISION SPRING MFG CO.	L250	LUCKHEED
L125	LEE METAL PRODUCTS CO.	L251	LOCKWOOD-JONES & BEALS
L130	LEBUS & NORTHRUP CO.	L252	LOGAN MANUFACTURING CO.
L135	LEFFELL, JAMES CO	L255	LOMAX INC.
L137	LEHIGH STRUCTURAL STEEL CO.	L260	LUMBARD GOVERNOR
L140	LEILD INDUSTRIES, INC.	L263	LUNEGAN, J.F., COMPANY
L142	LEIGHTON ST.	L265	LUNERGAN
L145	LEITELT IRON WORKS	L266	LUNGHORN INDUSTRIES & COMPANY
L146	LEITRODRYER CO.	L267	LUNG ISLAND LIGHTING COMPANY
L147	LELAND	L268	LUNE STAR COMPANY
L148	LENAPE FORGE	L269	LURD ELECTRIC
L150	LENDX INSTRUMENT CO.	L270	LUMAIN PRODUCTS CORP
L152	LENEZ CO.	L271	LONE STAR INDUSTRIAL SUPPLY COMPANY
L155	LEOPOLD, VOLPEL & CO	L273	LUNICS
L160	LEPMA ENGG CORP	L275	LUTEPRO CORP.
L165	LEKMA ENGINEERING CO.	L277	LOYOLA INDUSTRIES, INC.
L170	LESLIE CO.	L278	LOUISVILLE CEMENT COMPANY
L173	LESMAN INSTRUMENT COMPANY	L279	LOUDEN MACHINERY COMPANY
L175	LESTER EQUIP CO	L280	LOUIS ALLIS CO
L176	LEVINSON STEEL CO.	L281	LOUISIANA POWER & LIGHT COMPANY
L178	LEWIS BROTHERS BATTERY CO.	L282	LUCAS & SONS CO.
L175	LEWIS ENGINEERING CO.	L283	LUCKERS AND DAMPERS, INC
L180	LEYBOLD-HERAEUS INC.	L285	LUDLUM MEASUREMENTS, INC.
L185	LFE CORP.	L287	LUMK, EUGENE & COMPANY
L190	LFE ENVIRONMENTAL ANALYSIS LABS.	L290	LUKENS STEEL CO.
L192	LIGHTNIN MIXERS	L291	LUMMUS COMPANY
L193	LIDBY-OWENS-FORD GLASS COMPANY	L292	LUMINOUS CEILINGS, INC.
L194	LIGHTRON CO. OF CORNWALL	L295	LUNDELL CONTROLS - TECHNOLOGY INC.
L195	LIBERTY AERO	L300	LUNKENHEIMER CO., THE

## VENDOR LIST AND REFERENCE NUMBERS (Continued)

REF NO.	VENDOR	REF NO.	VENDOR
L305	LUPTON, DAVID & SONS	M100	MAQUETTE ELEC SWBD CO
L319	LYNAIR HYDRAULICS/CYLINDER DIV	M105	MARSH & MCLENNAN, INC.
L320	LYON METAL PRODUCTS, INC.	M109	MARTIN ENGINEERING CO.
M002	REF BUILDERS & SUPPLY CO.	M110	MARSH INSTRUMENT COMPANY
M003	M AND H GATE VALVES	M111	MARTIN-MARIETTA CORPORATION
M004	M.A.N. (MASCHINENFABRIK, AUBSBURG-NURNBERG)	M112	MARTIN FAN & BLOWER COMPANY
M005	M G SCIENTIFIC	M113	MARSHALLTOWN MANUFACTURING INC.
M006	M & M SHEET METAL	M114	MARUSHIMA HYDRAULIC GATE WORKS LMTD.
M007	MACK IRON WORKS CO.	M115	MASON & HANGER-STILAS MASON CO., INC.
M008	MACHINERY ELECTRIFICATION, INC	M120	MASONIELAN INTERNATIONAL, INC.
M009	MAGRIN SALES COMPANY	M125	MASONITE CORP.
M010	MACOMBER, INC	M126	MASSACHUSETTS ENGINEERING CO, INC.
M011	MAKO ENGINEERING	M127	MASS. MATERIAL RESEARCH
M012	MACHYTE WIRE ROPE COMPANY	M129	MASTER CONTROL SYSTEM, INC.
M013	MADDEN CORP	M130	MAST DEVELOPMENT CO.
M014	MAGNA CORP.	M134	MASTER BUILDERS
M015	MAGNAFLUX CORP.	M135	MASTER ELECTRIC
M016	MAJSEN CO.	M136	MASTER GAUGE CO.
M017	MAENAKA VALVE WORKS	M137	MASTER METAL ROD
M020	MAGNATECH	M140	MATERIALS ANALYSIS CO.
M022	MAGNEHELIC	M145	MATHESON GAS PRODUCTS
M025	MAGNETIC ENGG CO	M146	MATOT, D.A. INC.
M030	MAGNETIC METALS CO.	M147	MATTHEWS CONVEYOR
M035	MAGNETICS, INC.	M150	MATTHEY BISHOP, INC.
M040	MAGNETROL, INC.	M153	MATTISON ENGINEERING COMPANY
M045	MAHUN, R. C. CO	M154	MAXON CONSTRUCTION CO.
M048	MANATROL DIVISION-PARKER-HANNIFIN CORP.	M155	MAUL CO
M049	MAIN-LINE ENGINEERING & CONSTRUCTION SVC.	M156	MAURD, R.J. & ASSOCIATES
M050	MAIN, INC., CHAS. T.	M157	MAVERIC
M051	MAINE YANKEE ATOMIC POWER COMPANY	M158	MAXSON CORPORATION
M052	MANCO MANUFACTURING COMPANY	M159	MAXION PRE-BUR CO., INC.
M053	MANCOB CO.	M160	MAXWELL LABORATORIES, INC.
M055	MANISTEE IRON WORKS	M161	MAYNARD ELECTRIC STEEL CASTING CO.
M060	MANN CO., DAVID W.	M162	MC CULLY INSTRUMENTS
M065	MANNING-MAXWELL-MOORE	M163	MAZZELLA WIRE CO.
M070	MANSFIELD & GREEN DIVISION, AMTEC, INC.	M164	MCCAFFRAY CO.
M072	MANSFIELD, JAMES, & SON INC.	M165	MCCORMACK'S HIGHWAY TRANS., INC.
M073	MANTA, J.L., INC.	M166	MCALLISTER EQUIPMENT CO.
M074	MANTA VIN-COR STEEL	M167	MCCULLOUGH ELECTRIC CO.
M075	MANTON GAULIN	M168	MCCLELAND ENGINEERING
M076	MANKEL COMPANY	M169	MCCLELLAND ENGINEERS, INC.
M077	MANUFACTURERS AID	M170	MCDONNELL & M'LER III
M079	MARRSTONE	M171	MCDONALD SPEC. LTY PRODUCTS INC.
M080	MARATHON ELEC MFG	M172	MCDONOUGH STEEL COMPANY
M081	MARR, CLAYTON., & COMPANY	M173	MCDOWELL-WELLMAN ENGINEERING CO.
M082	MARLIN MFG.	M174	MCFARLAND ENGINEERING & PUMP COMPANY
M083	MARR CONTROL	M175	MCGRAW EDISON
M084	MARKEE ELECTRIC PRODUCTS INC.	M176	MCCARTIN-MCAULIFFE MECH CONTRACTORS INC.
M085	MARLEY CO., THE	M177	MCHENRY SAND & GRAVEL
M086	MARLOW INDUSTRIES, INC.	M178	MCINNIS CONSTRUCTION
M088	MARNEL ENGINEERING CO.	M179	MCINTYRE BROTHERS
M089	MARLEY COOLING TOWER COMPANY	M180	MCGREGOR MICHIGAN
M090	MAROTTA SCIENTIFIC CONTROLS, INC.	M181	MCJUNKIN CORP.
M091	MARLAND ONE-WAY CLUTCH CO., INC.	M182	MCKAY
M095	MAROTTA VALVE CORP	M183	MCKENZIE MARINE CONSTRUCTION CO.

## VENDOR LIST AND REFERENCE NUMBERS (Continued)

REF NO. ---	VENDOR -----	REF NO. ---	VENDOR -----
M184	MCMASTER-CARR CO.	M279	METTLER INSTRUMENT CORP.
M185	MCPHERSON ASSOCIATES, INC.	M280	METEOROLOGY RESEARCH, INC.
M186	MCKENNEY DRILLING COMPANY	M281	METERON INSTRUMENTS, INC.
M187	MCQUAY-PERFFEX INC.	M282	METER DEVICES CO.
M188	MCQUIKE ENTERPRISES	M283	METER & CONTROLS, INC.
M189	MCNALLY-PITTSBURGH MFG. CORP.	M284	METER MAKERS
M190	MCSAVANEY STEEL CO.	M285	METRA INSTRUMENTS
M191	MEADOWS, INC.	M286	METILS, INC.
M192	METROL CORPORATION	M289	METRO METAL, INC.
M193	MECH-TRONICS INDUSTRIES	M290	METRIX, INC.
M194	MCPHILBEN	M291	MICRO-D-PRODUCTS
M195	MCGH-TRONICS NUCLEAR CORP.	M292	METROPOLITAN EDISON COMPANY
M196	MICKINNEY STEEL & SALES CO.	M293	METROVONICS
M197	MCMILLAN BROTHERS	M294	MEYER INDUSTRIES
M198	MECHANICAL PRODUCTS	M295	MICHIGAN FABRICATING & WELD
M200	MECHANICAL SERVICE CO.	M296	MIDWEST SURVEYORS SERVICE
M205	MECHANICAL SPECIALTIES CO.	M297	MICHIGAN HANGER
M210	MECHANICAL SPECIALTY PRODUCTS, INC.	M298	MID-STATES CONCRETE PRODUCTS INC.
M215	MECHANICS RESEARCH INC.	M299	MICHIGAN TOOL COMPANY
M218	MEDART, DIV OF JAKES-EVANS MFG CO.	M300	MICHIGAN TRACTOR & MACHINE
M219	MEDIUM VOLTAGE SWITCHGEAR DEPARTMENT	M301	MICRO-KLEAN FILTER
M220	MEDI-WAY, INC.	M302	MICRO SWITCH
M221	MEDUSA PORTLAND CEMENT CO.	M303	MIDCO PIPE & TUBE, INC.
M222	MELANEY ENGINEERING CO.	M304	MID-CITY ARCHITECTURAL IRON CO.
M223	MEIERJOHAN-WENGLER	M305	MID-VALLEY, INC.
M224	MELKATH SUPPLY & GASKET	M306	MID-STATES STEEL CORP.
M225	MELTRON CORP.	M307	MIDDLESEX STAINLESS FITTINGS
M226	MEFCO	M308	MID-STATES INDUSTRIAL ALUMINUM SASH, INC.
M228	MENSUR	M309	MID-WEST CONVEYOR
M229	MENCTEE & SMITH, INC.	M310	MIDWAY CO.
M230	MEPCO MFG.	M311	MIDWEST STEEL
M231	MERCER RUBBER CO.	M312	MIDWEST ENGINEERING CO.
M235	MERCOID CORP.	M313	MIDWEST METALS, INC.
M240	MERCURY COMPANY	M314	MID-WEST INSTRUMENT
M245	MERIAM CO.	M315	MIDWEST PIPING
M246	MERIAM INSTRUMENTS	M316	MIDWEST POWER CORPORATION
M247	MERIDEN-COOPER CO.	M317	RIENLE GUSS DEXTER PNEUMATICS CO.
M248	MERIT	M318	MIKUNI JUADYGO, LTD.
M249	MERQUIP ELECTRIC	M319	MIXING EQUIPMENT COMPANY
M250	MERRIMAN INC.	M320	MILES LABORATORIES, INC.
M251	MERSIGN, L. S. CO.	M321	MILLER, RAY INC.
M252	MERTZ IRON	M322	MILLER FLUID POWER CO.
M253	MESCO CORPORATION	M323	MILLIPORE FILTER CORP.
M254	MERRICK SCALE MANUFACTURING COMPANY	M324	MILLIS JOHN B. COMPANY
M255	MESKER, GEORGE L. CO.	M325	MILTON-ROY CO.
M256	MESKER INDUSTRIES	M326	MILLS IRON WORKS INC.
M259	MESSER, FRANK, & SONS, INC.	M327	MILLER DAVIS COMPANY
M260	MESTA MACHINE CO.	M328	MILNE ASSOC.
M265	METAL ARTS CO.	M329	MILLIKEN BRICK COMPANY
M270	METAL BELLOW	M330	MILWAUKEE BOILER & TANK
M272	METAL GODUS CO.	M331	MILLER EXCAVATING
M275	METAL OFFICE FURNITURE	M332	MILWAUKEE CYLINDER CO.
M276	METALB EQUIPMENT COMPANY	M333	MINCO
M277	METALLUY, INC.	M334	MIKROPUL
M278	METALLUN, INC.	M335	MINE SAFETY APPLIANCES CO.

## VENDOR LIST AND REFERENCE NUMBERS (Continued)

REF NO.	VENDOR	REF NO.	VENDOR
M336	MIL KOTAL	M426	MORIN BUILDING PRODUCTS
M340	MINNEAPOLIS-HONEYWELL	M430	MORGAN ELECTRIC
M343	MINNEAPOLIS TANK & MFG. CO.	M440	MORGAN SMITH, S. CO.
M345	MINNESOTA MINING & MFG., SM. CO.	M441	MORRIS WHEELER & COMPANY
M350	MINNUTE MANUFACTURING CORPORATION	M442	MORRISHEAD MECHINERY & BOILER COMPANY
M355	MIKROK INSULATION COMPANY	M443	MORRIS PUMPS, INC.
M356	MILLSTONE POINT COMPANY	M444	MORRISON CONSTRUCTION COMPANY, INC.
M357	MILTON-ROSS CO.	M445	MORRIS MACHINE WORKS
M358	MISSION MANUFACTURING CO.	M446	MORRISON SUPPLY CO.
M360	MISSION VALVE AND PUMP COMPANY	M447	MORRISON BROTHERS
M362	MISSISSIPPI VALLEY EQUIPMENT INC.	M448	MOSHER STEEL COMPANY
M365	MISSISSIPPI VALLEY STEEL	M449	MOSSER INDUSTRIES INC.
M370	MISSOURI ROLLER & TANK COMPANY	M450	MOSSMAN, DONALD P., INC.
M371	MOUFLASH CORP.	M451	MORTON SALT CO.
M372	MITAKI CO.	M452	MOTOR ALLIANCE CORP.
M373	MODERN ENGINEERING CO. (FIEGCO)	M455	MOTOROLA
M375	MITCHELL, JOHN E., COMPANY	M456	MOTT, INC.
M376	MOLINE MFG. COMPANY	M457	MOYNO PUMP CO.
M377	MITCHELL TECHNOLOGY, INC.	M458	MOUNTZ, INC.
M378	MODERNFOLD	M460	MPH ASSOCIATES, INC.
M379	MODERN WELDING	M461	MRC
M380	MITSUBISHI HEAVY INDUSTRIES (JAPAN)	M465	MSA INTERNATIONAL
M382	MILLER INSTRUMENT COMPANY	M467	MSI NUCLEAR
M383	MOCK, JULIUS AND SON	M469	MUSKOGEE IRON WORKS, INC.
M384	MOFFETT ENGINEERING COMPANY	M470	MSA RESEARCH CORP.
M385	MITSUBISHI INTERNATIONAL CORPORATION	M475	MUELLER
M386	MIXING EQUIPMENT CO.	M476	MUELLER BRASS COMPANY
M387	MLW INDUSTRIES	M477	MULTIMETALS CO.
M388	MOHR, JOHN, & SONS	M478	MULTISTRESS INC.
M385	MOLINE CONSUMERS	M479	MUNDIX COMPANY
M390	MOLONEY ELEC CO.	M480	MURPHY, W. AND SONS
M391	MOBIL OIL CORP.	M485	MURDOCK LEAD CO., THE
M392	MOOPAK	M490	MURDOCK, INC.
M393	MOFFET COMPANY	M491	MURRAY INDUSTRIAL SUPPLY
M394	MOESCHL EDWARDS CORR. CO., INC.	M492	MURRAY AND TRETTEL INC.
M395	MOLYCORP-MOLYBDENUM CORP. OF AMERICA	M493	MURPHY BED & KITCHEN COMPANY
M396	MOLLER CO.	M494	MURRISON-KNUDSON COMPANY, INC.
M397	MONARCH FORGE & MACHINE WORKS INC.	M495	MUSKOGEE-BULLER WORKS
M398	MOFF, JOHN, & SONS	M497	MUSONICS
M399	MORIL CHEMICAL COMPANY	M520	MYERS, F.E. & BROTHERS, COMPANY
M400	MONITOR LABS INC.	N005	NALCO CHEMICAL CORP.
M401	MONITOR MANUFACTURING INC.	N007	NAMCO CONTROLS
M405	MONROE, R. AND SONS	N009	NAPKIN & CO.
M410	MONSANTO RESEARCH CORP.	N010	NASH ENGINEERING CO., THE
M417	MONTREY MECHANICAL COMPANY	N013	NATCHEZ STEEL & PIPE CO.
M415	MONTGOMERY ELEVATOR	N015	NATIONAL ACME CO.
M420	MONTREAL LOCOMOTIVE WORKS - WORTHINGTON	N018	NATIONAL ALUMINATE CORPORATION
M421	MOORE, I. B. CO.	N020	NATIONAL ANNEALING BOX CO.
M422	MOORE INDUSTRIES.	N024	NATIONAL BRD
M423	MOOG INC.	N025	NATIONAL BERYLLIA CORP.
M424	MOORE DRY DOCK CO.	N026	NATIONAL CERTIFIED PIPE WELDING BUREAU
M425	MOORE & SHAVER, INC.	N027	NATIONAL CYLINDER GAS CO.
M426	MOORE, SAMUEL	N030	NATIONAL ELECTRIC SIGN
M430	MOORE PRODUCTS COMPANY	N035	NATIONAL ENVIRONMENTAL INSTRUMENTS, INC.
M432	MORAF CO.	N039	NATIONAL FOAM

## VENDOR LIST AND REFERENCE NUMBERS (Continued)

REF NO. ---	VENDOR -----	REF NO. ---	VENDOR -----
N040	NATIONAL FORGE CO.	N129	NICKELL, E.-L. CO.
N041	NATIONAL FIRE SPRINKLER	N130	NILES STEEL TANK
N042	NATIONAL LEAD CO.	N135	NIPPON STAINLESS (JAPAN)
N044	NATIONAL MOBIL CONCRETE	N140	NL INDUSTRIES INC.
N045	NATIONAL NUCLEAR CORP.	N145	NON LINEAR SYSTEMS, INC.
N047	NATIONAL PLUMBING	N150	NOOTER CORP.
N049	NATIONAL SEMI CONDUCTOR	N155	NORBATROL ELECTRIC CORP.
N050	NATIONAL SPECTROGRAPHIC LABS.	N157	NORMAN-HOFFMAN BRG.
N051	NATIONAL SONICS CORP.	N158	NORTHEAST UTILITIES SERVICE CO.
N052	NATIONAL STAINLESS CORP.	N159	NORSTRUM
N053	NATIONAL STEEL COMPANY	N160	NORBOTROL ELECTRONICS
N055	NATIONAL TANK CO.	N161	NORGREM, C. A., CO.
N060	NATIONAL VALVE & MANUFACTURING COMPANY	N162	NORTH AMERICAN CARBON, INC.
N065	NATIONAL-STANDARD CO.	N163	NORMAN ENGINEERING
N067	NEBRASKA PUBLIC POWER DISTRICT	N164	NORMAN ASSOCIATES
N070	NECI-NUCLEAR ENGINEERING & COMPONENTS, INC.	N165	NORTH EQUIPMENT CO.
N075	NEELY, JAMES V.	N166	NORTHERN BOILER CO.
N077	NELSON STEEL & WIRE CO.	N167	NORTHERN INDIANA PUBLIC SERVICE COMPANY
N080	NELSON ELECTRIC	N168	NORTH AMERICAN RUCKWELL CORP.
N085	NELSON STUD WELDING	N169	NORTHERN HEATING SUPPLY CO.
N086	NEOWELD	N170	NORTHERN MFG.
N089	NEPTUNE MICROFLOC INC.	N171	NORTH AMERICAN DOOR CORPORATION
N090	NEMA, INC.	N172	NORTH AMERICAN STEEL CORPORATION
N091	NESCO CO.	N175	NORTHERN SCIENTIFIC, INC.
N092	NEPTUNE MEASUREMENT CO.	N177	NORTHERN STATES POWER COMPANY
N093	NEPTUNE METER CO.	N178	NORTHERN STEEL
N094	NEWELL, R.M. COMPANY	N180	NORTHROP CORPORATE LABORATORIES
N095	NEUTRON PRODUCTS, INC.	N183	NORTHWEST CONTROLS
N096	NEWARK	N185	NORTHWESTERN MFG CO.
N097	NEWBERG, GUST. K., CONSTRUCTION CO.	N187	NORTHWESTERN STEEL & WIRE CO.
N098	NEW ENGLAND BOLT	N190	NORTON CO.
N099	NEW ENGLAND CONTROLS, INC.	N191	NORTEC
N100	NEW ENGLAND METAL SPINNING CO. INC.	N192	NORWALK FABRICATORS, INC.
N101	NEW ENGLAND INSULATION	N194	NPS INDUSTRIES, INC.
N102	NEW ENGLAND SILICA	N195	NUCLEAR ASSOCIATES INTERNATIONAL CORP.
N103	NEW CASTEL PRODUCTS	N200	NUCLEAR ASSOCIATES, INC.
N104	NEWMAN	N205	NUCLEAR ASSURANCE CORP.
N105	NEW ENGLAND NUCLEAR	N210	NUCLEAR AUDIT & TESTING CO.
N106	NEW HAVEN TESTING LABORATORY	N215	NUCLEAR BOLTING, INC.
N107	NEW YORK BLOWER	N220	NUCLEAR CHEMICALS & METALS CORP.
N108	NEW YORK AIR & BRAKE CO.	N225	NUCLEAR COMPONENTS, INC.
N109	NEW JERSEY ELECTRIC CORPORATION	N230	NUCLEAR CONSULTING SERVICES INC.
N110	NEW YORK TESTING LABORATORIES, INC.	N233	NUCLEAR CONTAINERS, INC.
N111	NEW YORK SHIPBUILDING	N235	NUCLEAR CONTAINMENT SYSTEMS, INC.
N112	NEW DEPARTURE HYATT	N240	NUCLEAR CONTROLS AND ELECTRONICS CORP.
N114	NEWPORT LABORATORIES	N245	NUCLEAR CORP. OF AMERICA
N115	NEWPORT NEWS SHIPBUILDING & DRY DOCK CO.	N250	NUCLEAR DATA, INC.
N118	NEWTON ASSOCIATES	N255	NUCLEAR DEVELOPMENT LAB., INC.
N120	NGK INSULATOR	N260	NUCLEAR DIAGNOSTIC LABS, INC.
N121	NIFE	N265	NUCLEAR DIODES, INC.
N122	NIAGARA MOHAWK POWER CORPORATION	N270	NUCLEAR DYNAMICS, INC.
N125	NIAGARA TRANSFORMER	N275	NUCLEAR ENGINEERING CO., INC.
N126	NIANTIC TOOL CO.	N280	NUCLEAR ENTERPRISES, INC.
N127	NIBCO CO.	N285	NUCLEAR ENVIRONMENTAL ENGINEERING, INC.
N128	NICHOLSON FILE CO.	N290	NUCLEAR EQUIPMENT CHEMICAL CORP.



## VENDOR LIST AND REFERENCE NUMBERS (Continued)

REF NO. ---	VENDOR -----	REF NO. ---	VENDOR -----
P056	PANEL DESIGN, INC.	P152	PENN VENTILATOR COMPANY.
P057	PANELKIT, INC.	P155	PENNWALT CORP.
P058	PAPER CALMENSON CO.	P156	PENNSYLVANIA COMPANY TRANSFORMER DIV.
P059	PANMATIC CORPORATION	P158	PEORIA PUMP & EQUIP, INC.
P060	PANGDOKN CORP	P160	PERFEX, INC.
P061	PAK CORP.	P165	PERKIN-ELMER CORP., THE
P062	PARADISE ELECTRIC CO.	P170	PERMALI, INC.
P063	PANEL OVEN ENGINEERING	P175	PERMUTIT CO., THE
P065	PARAMETER, INC.	P177	PESCO (PUMP EQUIPMENT & SERVICE CO.)
P067	PARKER BROTHERS	P180	PET HEAT & POWER CO
P070	PARKER HANNIFIN CORP.	P183	PETTIBONE COMPANY
P075	PARKER PACKING CO.	P184	PETERSON WELDING & FABRICATING CORP.
P080	PARKERSBURG RIG & REEL	P185	PETERSON ASSOC., ARTHUR V.
P082	PARKER SEAL CO.	P186	PETERSON, FRED, CONSTRUCTION COMPANY
P084	PASSAVANT CORPORATION	P187	PETERSON DIVING SERVICE
P085	PARSONS CO., RALPH M.	P188	PETTIBONE WIRE MATERIAL
P086	PASCHEN CONSTRUCTION COMPANY	P189	PETERSON ENGINEERS
P087	PARTLOW CONT.	P190	PETERSON TRACTOR CORP
P088	PARTLOW CORP.	P191	PHELPS DODGE CORP.
P089	PATERSON-KELLEY	P192	PHILADELPHIA ELECTRIC COMPANY
P090	PATHWAY BELLOW, INC.	P193	PHICOFLEX, INC.
P091	PATTEN INDUSTRIES, INC.	P194	PPAUDLER (SYBRON CORP)
P092	PATERSON STEEL COMPANY	P195	PHILADELPHIA GEAR CORP.
P093	PATZIG TESTING LABORATORIES COMPANY	P197	PHILBRICK/NEXUS RESEARCH INC.
P094	PATERSON PUMP-DIV OF JERSEY EQUIP CO.	P200	PHILCO FORD CORP.
P095	PAUL-MUNNIE HYDRAULICS INC.	P203	PHILPOT, R.D., INDUSTRIES, INC.
P096	PAWTUCKET MFG.	P204	PHILLIP CAREY MANUFACTURING COMPANY, THE
P097	POM STEEL	P205	PHILLIPS-ELMET CORP.
P098	PATENT SCAFFOLDING CO	P206	PHILLIPS ELECTRONICS INDUSTRIE (FOREIGN)
P099	PEABODY-BARNES CO.	P207	PHILLIPS COMPANY
P100	PEABODY ENGINEERING CORP.	P210	PHILLIPS & DAVIES
P101	PEABODY CONTINENTAL-MEINE	P212	PHILLIPS - GETSCHOW CO.
P103	PEABODY TESTING	P213	PHOENIX MANUFACTURING COMPANY
P105	PEARSON MANUFACTURING	P214	PHOENIX STEEL
P106	PEGORA CHEMICAL COMPANY	P215	PHYSICAL SCIENCES CORP.
P108	PECO CORP.	P220	PHYSICS INTERNATIONAL CO.
P109	PEGEN INDUSTRIES	P225	PICKARD, LOWE & ASSOC.
P110	PELLE CO	P230	PICKER CORP.
P112	PEERLESS MANUFACTURING COMPANY	P232	PIN VENTILATOR CO., INC.
P115	PEERLESS PUMP CO	P233	PINE, WILLIAM S.
P120	PEERLESS WATER SOFTNER	P235	PIONEER ALUMINUM INC.
P122	PACIFIC CHEMICAL COMPANY	P237	PIONEER FIREPROOF DOOR CORPORATION
P124	PENBERTHY INJECTOR COMPANY	P240	PIONEER SERVICE & ENGINEERING CO.
P125	PENBERTHY MFG. COMPANY	P241	PIONEER STANDARD
P127	PENN-DIXIE STEEL CORPORATION	P242	PIPECO STEEL CORP.
P128	PENN BASO CONTROLS	P243	PIPE FABRICATING AND SUPPLY
P129	PENN CONTROLS INC.	P244	PIPE DISTRIBUTERS INC.
P130	PINN FLEX METAL TUBING	P245	PIPE LINE PROTECTION CO
P131	PENN INDEPENDENT SPRINKLER COMPANY	P250	PIPE MACHINERY CO.
P132	PENN METER CO.	P252	PITTSBURG ACTIVATED CARBON
P135	PENN PUMP & COMPRESSOR	P253	PITTSBURG-CORNING
P140	PENN STATE TOOL & DIE CORPORATION	P255	PITTSBURG CRANE & CONVEYOR CO.
P145	PENN TRANSFORMER DIV	P257	PITTSBURG METALS
P150	PENN UNION ELECTRIC	P260	PITTSBURGH BRIDGE & IRON
P151	PENNIMAN & BROWNE, INC.	P261	PITTSBURGH PLATE GLASS COMPANY

## VENDOR LIST AND REFERENCE NUMBERS (Continued)

REF NO.	VENDOR	REF NO.	VENDOR
P262	PITTSBURGH TESTING LABORATORY	P335	PRATT WHITNEY AIRCRAFT
P265	PITTSBURGH TRANSFORMER	P340	PRATT, HENRY CO.
P267	PITTSBURGH VALVE AND FITTING CO.	P345	PRECIPITATION CO.
P270	PITTSBURGH-DES MOINES STEEL CO.	P347	PRECISION CASTING
P272	PLAINVILLE MFG. CO.	P348	PRECISION FABRICATORS, INC.
P273	PLANT CITY STEEL CO.	P349	PRECISION CONTROL PRODUCTS CORP.
P275	PLASTER PRODUCTS	P350	PRECISION SCIENTIFIC CO.
P276	POLLUTION CONTROL-WALTHER, INC.	P355	PRECISION STANDARDS CORP.
P277	PLASTO-MATIC	P360	PRECISION THERMOMETER & INSTRUMENT CO.
P278	PLASTONETICS	P361	PRENTIS & CO., J. L.
P280	PLASTIGAGE	P362	PRE-CON INC.
P281	PLUGGER SUBMERSIBLE PUMPS	P364	PRESANT INDUSTRIAL SUPPLY
P285	PLYMOUTH TUBE	P365	PRESCON CORP., THE
P286	PNEUMATIC ELECTRIC	P368	PRESPRAY CORPORATION
P287	P.N.I.	P370	PRESHAY CORP., THE
P288	POLYPHASE INSTRUMENT CO.	P377	PRESSED STEEL TANK CO.
P289	POPE-MORRISON COMPANY	P380	PRESSIN COMPANY
P290	PORTA POWER	P385	PRESSURE PRODUCTS INDUSTRIES
P291	PORCELAIN ENAMEL FINISHERS	P387	PRESSURE SWITCH CO.
P292	POTEC INCORPORATED	P388	PRESSURE VALVE-DRESSER I.V.I. DIV.
P293	POPE, WILLIAM A. CO., THE	P390	PRINCETON APPLIED RESEARCH CORP.
P294	POTTER COATINGS CO.	P395	PRISON CO, INC
P295	POTTER, H. K. CO., INC.	P397	PRITCHARD PRODUCTS CORP.
P296	POTTER PEERLESS MOTORS	P399	PROCESS ENGINEERING, INC.
P297	POTTER & DRUMFIELD	P400	PROCESS EQUIPMENT CO., INC.
P298	PORTLAND CEMENT ASSOCIATION	P401	PROCESS SOLVENTS
P300	PORTERSVILLE EQUIPMENT CO.	P402	PROCESS EQUIPMENT CORP.
P301	PORTLAND GENERAL ELECTRIC COMPANY	P403	PROCESS SALES
P302	POTTER ELECTRIC SIGNAL & MFG. INC.	P404	PROCESS INSTRUMENT
P303	POSKY IRON WORKS	P405	PROGRAMMED & REMOTE SYSTEMS CORP.
P304	POST-SEAL	P406	PRODUCTS RESEARCH & CHEMICAL CORPORATION
P305	POWELL CO., WM., THE	P407	PRODUCTION MEASUREMENTS CORPORATION
P306	POSTELL, J.A.	P410	PROGRESS MFG
P307	POITTS, HORACE T. CO. (SPEEDLINE FITTINGS)	P415	PROGRESSIVE FAB, INC
P308	POWER FIRING CO.	P417	PROSSER INDUSTRIES
P309	POWELL ELECTRIC CO.	P418	PUMP EQUIPMENT & SERVICE CO.
P310	POWELL MANUFACTURING AND ELECTRICAL CORP.	P419	PROTECTIVE CLOSURE COMPANY, INC.
P311	POWER TRONICS	P420	PROTECTIVE PACKAGING INC.
P312	POWELL, M. W., CO.	P421	PSI PRODUCTS, INC.
P313	POWER AUTHORITY OF NEW YORK	P422	PUBLIC SERVICE COMPANY OF COLORADO
P314	POWER-MATE	P423	PUBLIC SERVICE ELECTRIC & GAS COMPANY
P315	POWER EQUIPMENT CO.	P424	PUBLIC SERVICE OF INDIANA
P316	POWER ENGINEERING AND EQUIPMENT CO.	P425	PULSATION CONTROLS CORP
P317	POWER PIPING COMPANY	P426	PURNEY ENGINEERING COMPANY
P318	POWER SYSTEMS	P427	PYCO
P319	POWER CONVERSION PRODUCTS, INC.	P428	PUTNAM COMPANY
P320	POWERLITE SWITCHBOARD	P429	PYCO/TRINITY
P321	POWERS REGULATOR CO.	P430	PYLE-NATIONAL DIV.
P322	POWER TECH	P431	PULNAM, P.F., FABRICATION
P323	POWER DESIGNS INC.	P432	PULLMAN-KELLOGG
P324	POWER DRIVES AND BEARINGS	P433	PYE-T.V.T., LTD
P325	POWELL PROD CO.	P434	PYRENE
P330	PPB, INC.	P435	PYROTRONICS
P331	PPG INDUSTRIES	P436	PYKIS, INC
P333	PRATT ENGINEERING	P437	PYBUS STEEL



## VENDOR LIST AND REFERENCE NUMBERS (Continued)

REF NO. -----	VENDOR -----	REF NO. -----	VENDOR -----
P438	PULLMAN SHEET METAL WORKS INC.	R110	RCA COMMUNICATIONS SYSTEMS DIV.
P439	PULSASENDER INTERFACE CORPORATION	R115	RCA ELECTROMAGNETIC & AVIATION SYSTEMS DIV.
Q001	Q DUT CORP.	R120	RCA ELECTRONIC COMPONENTS
Q002	QUALIGAGE CO.	R125	RCA MISSILE AND SURFACE RADAR DIV.
Q003	QUAKER ALLOY CASTINGS CO.	R130	RCA SULLY STATE DIV.
Q004	Q.A. CORPORATION	R133	RCA VICTOR DISTRIBUTING CORPORATION
Q005	QUARTZ PRODUCTS CORP.	R135	ROP CORP.
Q006	QUAKER CITY GEAR WORKS INC.	R136	RED HEAD/PHILLIPS DRILL CO.
Q007	QUIRBY PUMP	R137	RED VALVE CO.
Q008	QUINCY COMPRESSOR CO.	R138	REUA PUMP COMPANY
Q010	QUINDAR ELECTRONICS	R139	REES INSTRUMENTS LTD.
R005	RLIE	R140	REACTOR CONTROLS INC.
R005	RADACHI	R145	REACTOR EXPERIMENTS, INC.
R010	RAJAK CORP.	R150	READING CHAIN & BLOCK
R012	RADECO, INC.	R152	R.E.C. CORPORATION
R015	RAIFORM TOOL COMPANY	R154	REINKE & SCHUMAN
R018	RADIATION COUNTER LAB, INC.	R155	RELO
R020	RADIATION DYNAMICS, INC.	R156	REED ELECTRIC
R025	RADIATION ELECTRONICS INC.	R157	REESE, W. J., TESTING LABORATORY
R030	RADIATION INDUSTRIES INC.	R158	REFRIGERATING SPECIALITIES CO.
R033	RADIATION INSTRUMENT	R159	RELIANCE CUSTOM CONTROLS
R035	RADIATION INTERNATIONAL INC.	R160	RELIANCE ELECTRIC & ENGINEERING
R040	RADIATION MANAGEMENT CORP.	R161	RELIABLE METAL
R045	RADIATION MATERIALS CO. INC.	R162	RELIANCE UNIVERSAL INC.
R050	RADIATION RESEARCH ASSOC., INC.	R163	RELIABLE FIRE EQUIPMENT CO.
R055	RADIATION SERVICE ASSOCIATES	R165	RELIANCE ELECTRIC COMPANY
R060	RADIATION TECHNOLOGY INC.	R167	RELIANCE GAUGE COLUMN COMPANY
R063	RADIOMETER-COPENHAGEN	R170	RELIANCE STEEL PROD.
R065	RADIO RECEPTOR CO.	R171	RELIABLE SHEET METAL WORKS INC.
R070	RADIOLOGICAL SYSTEMS	R173	RELIANCE TRUCK CO.
R073	RADONI	R175	REM INC.
R075	RADIUM CHEMICAL CO., INC.	R177	REMINGTON ARMS COMPANY
R078	RAMAPU INSTRUMENT CO.	R180	REMBAR CO., INC., THE
R079	RAGNAR BENSON, INC.	R185	REMOTION CO.
R080	RAHISER, ROBERT H. & ASSOCIATES, INC.	R190	REMPE CO.
R081	RAINEAR, C. J. INC.	R191	RATHGEBER COMPANY
R082	RAMCON CORP.	R192	RENEW VALVE CO.
R083	RAM FORGED STEEL, INC.	R193	REDTEMP INSTRUMENT CO.
R084	RAMSET OPERATIONS WINCHESTER GROUP	R194	REPEL STEEL
R085	RAMSEY ENGG.	R195	REPUBLIC FLOW METERS
R086	RAMCO INDUSTRIES INC.	R197	REPUBLIC MFG. CO.
R087	RAPISTAN, INC.	R198	REPUBLIC SYSTEMS CORPORATION
R088	RANDOLPH, WILLIAM A. INC./GEN CONTRACTORS	R200	REPUBLIC STEEL CORP.
R089	RAMCO FABRICATORS & SUPPLY COMPANY	R205	RESEARCH IND LTD
R090	RAWSON-LUSH INSTRUMENT CO., INC.	R210	RESEARCH, INC.
R091	RAWINSON ELECTRIC CO.	R211	RESEARCH COTTRELL, INC.
R093	RAY ENGINEERING CO.	R214	RESOURCES CONSERVATION COMPANY
R095	RAY PROCP CORP.	R215	RESIN-FAB CORP.
R097	RAY WELCH INSTRUMENT	R216	RETEC DEVELOPMENT LAB.--BURTON DIVISION
R098	RAYCHEM CORP.	R217	REULAND ELECTRIC CO.
R100	RAYMOND BRCS PULVERIZER	R219	REUTER STEEL
R102	RAYMOND CONTROLS	R220	REUTER-STOKES ELECTRIC COMPANY
R103	RAYMOND INTERNATIONAL	R225	REUTER-STOKES ELECTRIC COMPANY--CANADA
R104	RAYMUR CO.	R230	REVERE ELECTRONICS DIVISION
R105	RAYTHEON CO.	R235	REX CHAINBELT

## VENDOR LIST AND REFERENCE NUMBERS (Continued)

REF NO. ---	VENDOR -----	REF NO. ---	VENDOR -----
R236	BEANURD, INC - CYLINDER DIVISION	R337	ROCHESTER MANUFACTURING COMPANY
R237	BEANURD INC.--CONSTRUCTION MACHINERY DIV--	R338	ROCKWELL BRODIE
R238	REX SUPPLY CO.	R339	ROCK ISLAND BRIDGE & IRON
R240	REYNOLDS MANUFACTURING CO.	R340	ROCKWELL MANUFACTURING CO.
R242	REYNOLDS METAL	R341	ROCKWELL STANDARD CORP.
R245	RFL INDUSTRIES INC	R342	ROCKWELL ENGINEERING CO.
R246	RHEEM WATER HEATER DIVISION	R343	ROCKWOOD CO.
R247	RHODES CONTROLS INC.	R344	ROCKWELL-INTERNATIONAL
R248	RIG-WEL, INC	R345	RODNEY HUNT MACH CO
R249	RICH, INC.	R346	RODGERS, LEROY E.
R250	RICHARDS OF ROCKFORD, INC.	R347	ROEMER ELECTRIC STEEL FOUNDRY CO.
R251	RICHARD GOETTEL, INC.	R348	RUDOPFAM II
R252	RICHARDS TANK CORPORATION	R349	ROCKFORD FABRICATING & SUPPLY
R254	RICHARDS, L.K.	R350	ROHM AND HAAS CO.
R255	RICHARDS WILCOX DIV	R351	ROCKFORD CEMENT PRODUCTS
R260	RICHARDSON CO., THE	R352	ROCK BESTSU
R265	RICHARDSON SCALE	R353	ROHN COMMUNICATION FACILITIES CO. IN.
R270	RICHARDSON-ALLEN CORP	R355	ROHN JFG
R274	RIGGID TOOL CO	R360	ROLLER SMITH CORP
R275	RICHMOND FIRE UOGR CO	R361	RONAN ENGINEERING CO.
R276	RICHMOND SCREW-ANCHOR COMPANY, INC.	R362	ROOTS - LUNNERSVILLE BLOWER
R277	RIETH-RILEY CONSTRUCTION COMPANY, INC.	R363	RONAN ALARM SYSTEMS
R278	RILEY CO., THE	R364	ROM, WALTER R. & SON, INC.
R279	RILEY CO. THE PANALARM DIV.	R365	ROPER, GEORGE D. CORP
R280	RICHMONDS ENGINEERING COMPANY	R367	ROSCO-RENT
R281	RILEY-BEARD, INC.	R368	ROPER HYDRAULICS, INC.
R282	RIFFEL ARCHITECTURAL METALS	R369	ROSEMOUNT, INC.
R283	RILEY STOKER CO.	R370	ROSEMOUNT ENGINEERING COMPANY
R284	RIGGS NUCLEONICS CORPORATION	R371	ROSE OIL INDUSTRY SUPPLY CORP.
R285	ROBBINS & MYERS	R372	ROSAEN
R286	RIVER CONSTRUCTION	R375	ROSS HEATER & MFG
R287	ROBERTS, R. W.	R376	ROSS OPERATING VALVE CO.
R288	RIVERSIDE INDUSTRIES, INC.	R377	ROSS - MEEHAN FOUNDRIES
R289	RIVER STEEL	R378	ROTORX INC.
R290	ROBERTSHAW CONTROLS CO.	R379	ROTH, ROY COMPANY
R291	RIVA-CALZONI	R380	ROTTERDAM DOCKYARD CO.
R295	ROBERTSON CO	R381	RUTHENBUMER ENGINEERING
R296	RAY WELCH, INC.	R382	ROTRON INDUSTRIES
R297	RTO ENGINEERING CO	R383	ROTHSCHILD BOILER AND TANK WORKS, INC.
R298	R.O. VALVE CO.	R385	ROWANG & ASSOCIATES
R300	ROBERTSON MANUFACTURING CO.	R388	ROWLAND PRODUCTS, INC.
R301	ROBERTSON, H.H., AMBRIDGE DIVISION	R389	ROWAN CONTROLLER
R305	ROBIGON, INC.	R390	ROWE INDUSTRIES DIV.
R306	ROBYUN BACKING RINGS CO.	R395	ROYAL ELEC MFG
R308	ROBINSON CARTAGE CO.	R400	ROYAL INDUSTRIES, INC.
R310	ROBINSON CORP.	R401	R. T. E. CORP.
R312	ROBINSON-HALPERN COMPANY	R402	R - P & C BAR STOCK VALVE CO.
R315	ROBINSON ORIFICE	R403	RUCKER COMPANY, THE
R320	ROBOT APPLIANCE	R404	RTO INC.
R322	ROBOTARM	R405	RURSEY PUMP CO
R325	ROBOT INDUSTRIES INC	R406	RUEBELIN MANUFACTURING CO.
R330	ROCHESTER ELEC PROD	R407	RUBERGID COMPANY
R332	ROCHESTER GAS & ELECTRIC COMPANY	R408	RUBY CONSTRUCTION COMPANY
R335	ROCHESTER INSTRUMENT SYSTEMS, INC.	R409	RUCKER CONTROL SYSTEMS
R336	ROCHESTER NUT & BOLT CO.	R410	RUNDL ELEC VIC

## VENDOR LIST AND REFERENCE NUMBERS (Continued)

REF NO. ---	VENDOR -----	REF NO. ---	VENDOR -----
R411	RUSKIN MFG CO.	S073	SCHUTTE, N.L.
R412	RUST ENGINEERING	S075	SCHUTTE AND KOERTING CO.
R413	RUSS ELECTRIC	S380	SCHWAGER-WOOD
R414	RUSTRAN	S085	SCHWARZ/MANN
R415	RYERSON, J. T. & SON	S090	SCHWARZKOPF DEVELOPMENT CORP.
R416	RYERSON STEEL	S093	SCHMITZER
R417	RYRON INDUSTRIES	S095	SCI CHEMICAL-FRESE DIV.
R418	RYAN, INC.	S099	SCIENTIFIC INDUSTRIAL SALES CO.
R419	RYSGAARD MASTERS COMPANY	S100	SCIENCE ACCESSORIES CORP.
R420	RYAN INDUSTRIES	S102	SCIENCE APPLICATIONS, INC.
R421	RUSSELL AND STULL	S103	SCOT COMPANY
R422	RUTHMAN MACHINE CO.	S104	SCOTT, WRAY M
S095	S&C ELECTRIC	S105	SCOVILL MANUF. CO.
S006	S & K INSTRUMENTS DIVISION	S106	SCOTT INDUSTRIAL EQUIP CO.
S007	SACRAMENTO MUNICIPAL UTILITY DISTRICT	S110	SEALOL INC.
S008	SABINE STEEL & CONSTRUCTION	S111	SEALY & JONES
S010	SAFETY SOCKET SCREW CORP.	S112	SEARLE RADIOGRAPHICS INC.
S011	SAGE ENGINEERING CORP.	S113	SAMPSON COMPANY
S012	SAGE ENGINEERING & VALVE CO.	S114	SECURITY COMPANY, INC.
S013	SANDERS & THOMAS, INC.	S115	SEATON WILSON INC.
S015	SANDERSON & PORTER, INC.	S116	SEBA LABORATORIES, INC.
S017	SAND SPRINGS WORKS	S117	SECHERON WORKS CO., LTD
S020	SANGUSKY FOUNDRY & MACHINE CO.	S118	SECURITY INSERT COMPANY
S021	SALISBURY VALVE CO.	S119	SEEBOLD, A. J., COMPANY
S022	SALEM ENGINEERING CORP.	S120	SEILER, P. J., INC.
S023	SALEM LINE	S125	SEIMANS
S024	SALES, J.G., CO., INC.	S126	SELF ORGANIZING SYSTEMS, INC.
S025	SANDVIK SPECIAL METALS CORP.	S127	SELMER INDUSTRIES
S029	SANDVIK INC.	S129	SENSALL
S030	SANDVIK STEEL INC.	S130	SENSOR DYNAMICS, INC.
S035	SANGAMO ELECTRIC CO	S131	SENSITIVE RESEARCH
S036	SANYMETAL PRODUCTS CO.	S135	SENTRY EQUIPMENT CORP.
S037	SARACCO TANK MFG. CO.	S140	SERFILCO
S038	SARAN LINED PIPE CO.	S142	SERVICE SURVEYING & ENGR. CO.
S039	SARCO	S143	SETHCO
S040	SARGENT & LUNDY	S144	SEXON PUMP
S041	SARGENT INDUSTRIES	S145	SHANSTROM NUCLEAR ASSOC.
S042	SARGENT LIMITED --AIRITE DIV--	S146	SHAND & JURS COMPANY
S045	SARKIS TAZIAN, INC	S147	SHARPLESS STORES DIVISION, PENNWALT
S050	SAUERMAN BROS	S148	SHAPPERT ENGINEERING COMPANY
S051	SAVANNA CONSTRUCTION CO.	S149	SHAN-ROD CORP.
S052	SCHAEVITZ ENGINEERING	S150	SHARPSVILLE STEEL FABRICATORS
S054	SCAM INSTRUMENT CORP.	S152	SHAW, BENJAMIN P., COMPANY
S055	SCHAUB, F. H., ENGG	S155	SHAW-BOX CRANE & HOIST
S056	SCHAUB MAGNETICS INC.	S156	SHAWMUT CO.
S060	SCHAUER MANUFACTURING	S157	SHEFFER
S061	SCHAEFER & MCGHEE INC.	S160	SHENANGO CO., THE
S062	SCHEREVILLE STEEL CORP.	S165	SHEPARD-NILES CRANEHOIST
S063	SCHMIDT INSTRUMENT COMPANY	S169	SHEPLER'S EQUIPMENT CO, INC.
S064	SCHNITZER ALLOY PRODUCTS, INC.	S170	SHEPHERD, J. L. AND ASSOCIATES
S065	SCHOTT OPTICAL GLASS INC.	S171	SHIVE-HATTERY & ASSOCIATES
S066	SCHOONMAKER, A.G.	S172	SHICK TUBE - VEYOR CORP.
S067	SCHROEDER BROTHERS COMPANY	S174	SHILSTONE ENGINEERING TESTING LABORATORIES
S068	SCHUBERT HEAT TREATING CO.	S175	SHIELDS RUBBER COMPANY
S070	SCHULER ENGINEERING CO	S176	SHINMETWA IND. CO., LTD

## VENDOR LIST AND REFERENCE NUMBERS (Continued)

REF NO.	VENDOR	REF NO.	VENDOR
5177	SHINN ENGINEERING	5246	SOLAR-DIV. INTERNATIONAL HARVESTER.
5178	SHINNER PRECISION, INC.	5247	SULLAIR CORP.
5179	SHIPMAN'S FIRE EXTINGUISH CO.	5248	SOLAR SUPPLY CO.
5180	SHM NUCLEAR CORP.	5249	SOLAR AIRCRAFT COMPANY
5181	SHER BATH GEAR & PUMP	5250	SOLID STATE CONTROLS, INC.
5182	SIERRACIN/HARRISON	5251	SOLAR LIGHTING CORP.
5183	SICO, INC.	5253	SOLVENT SERVICE INC.
5184	SHUNT	5254	SOLON MFG. CO.
5185	SIGMA INSTRUMENTS, INC.	5255	SOLID STATE RADIATIONS, INC.
5190	SIGNAL ENGINEERING MFG	5256	SONECO SERVICES, INC.
5195	SIGNAL HILL ELECTRIC, INC.	5257	SORENSEN
5197	SIHI PUMPS	5258	SURGEL ELECTRIC CO.
5199	SIRA CHEMICAL CORPORATION	5260	SUSTMAN, H. E. COMPANY
5200	SIMPLEX VALVE & METER	5261	SOUTH CAROLINA ELECTRIC & GAS COMPANY
5201	SILPROOF-SILICONE	5262	SOUTHERN CALIFORNIA EDISON COMPANY
5202	SIMPLEX WIRE AND CABLE CO.	5263	SOUTHERN ALLOY EQUIP. INC.
5203	SIMPSON	5264	SOUTHERN BOILER AND TANK WORKS, INC.
5204	SIMMONS PRECISION	5265	SOUTHERN ENGG-PUMP CO.
5205	SINGER CO., THE	5266	SOUTHERN BOLT & FASTNER CORP.
5206	SINGER LAYNE NORTHERN	5267	SOUTHERN IMPERIAL COATING CORP.
5207	SIMMONS, J.L., CO., INC.	5268	SOUTHERN INSPECTION SERVICE, INC.
5208	SINGER, LAYNE & HOWLER, INC.	5269	SOUTHERN SERVICES INC.
5209	SKF BEARINGS	5270	SOUTHERN NUCLEAR ENGINEERING, INC.
5210	SINTERCAST	5271	AMERICAN INTERNATIONAL
5211	SKIDMORE-WILHELM CO., INC.	5274	SOUTHERN INDUSTRIAL STEEL COMPANY
5212	SKINNER UNIFLOW VALVES	5275	SOUTHERN STATES EQUIP.
5213	SKULNIK DRUM CORPORATION	5276	SOUTHERN STEEL PRODUCTS COMPANY
5214	SMEDLY PAINTING SERVICE	5277	SOUTHERN STATES STEEL CORP.
5215	SLY, W. W. MFG	5278	SOUTHERN OHIO FABRICATORS, INC.
5216	SLURRY, L.P. PUMPS	5279	SOUTHWEST ORNAMENTAL IRON COMPANY
5217	SMITH, A.O.	5280	SOUTHWEST FABRICATING & WELDING CO., INC.
5218	SMITH & CLARK	5285	SOUTHWEST RESEARCH INSTITUTE
5219	SLIPAN VALVE CO	5286	SOUTHWESTERN ELECTRIC CONTROLS
5220	SMITH-MOON STEEL CO	5287	SOUTHEAST TECHNICAL COATING INC.
5221	SMACNA	5288	SOUTHWEST GALVENIZING
5222	SMITH VALVE CORP	5289	SPANCRETE OF ILLINOIS INC.
5223	SK INSTRUMENT CO.	5290	SOUTHWESTERN ENGINEERING CO.
5225	SMITH, ELWIN G.	5291	SPANG INDUSTRIES
5227	SMITH INSTRUMENT COMPANY	5292	SOUTHWESTERN LABORATORIES
5230	SMITH, J. R. MANUFACTURING CO.	5293	SPARTAN SOUTHWEST INC.
5231	SMITH INDUSTRIES	5294	SOUTH SIDE IRON WORKS INC.
5232	SMITH, R.G., COMPANY, INC.	5295	SPECIAL EQUIPMENT CORPORATION
5233	SMITH, JACR W. & CO.	5296	SPECIAL ARCHITECTURAL METAL COMPANY
5234	SMITH AND LOVELET'S	5297	SPARROW, C.E. COMPANY INC.
5235	SMOOT ENGINEERING CO	5298	SPACEMEN LIFESAVER
5236	SNAP-ON TOOLS, INC.	5299	SPECTRAL DYNAMICS CORP OF SAN DIEGO
5237	SNODG, J. W., CO.	5300	SPECTROMAGNETIC INDUSTRIES
5238	SOIL TESTING SERVICE INC.	5301	SPECIALTY CONNECTORS
5239	SOLTEST, INC., CHICAGO	5302	SPEED-NUT
5240	SOLA BASIC INDUSTRIES	5305	SPEEDWAY MACHINE & TOOL COMPANY
5241	SOLA FLEX-DIV. PITTSBURGH-OLD MORGES STEEL	5306	SPEED PERFORMANCE MANUFACTURING
5242	SOLLITT CONSTRUCTION COMPANY	5310	SPELLMAN HIGH VOLTAGE ELECTRONICS CORP.
5243	SUNNEBORN BUILDING PRODUCTS, INC.	5311	SPENA & HOWE CONSTRUCTION COMPANY
5244	SUNNEBORN CHEMICAL & REFINING CORP.	5312	SPENCER TURBINE CO.
5245	SOLA ELECTRIC CO	5313	SPENCER, WHITE & PRENTIS

## VENDOR LIST AND REFERENCE NUMBERS (Continued)

REF NO. ---	VENDOR -----	REF NO. ---	VENDOR -----
5315	SPEKTI PARADAY, INC.	5394	STEEL FABRICATION DIVISION
5317	SPIN CRAFT	5395	STEEL FABRICATING CO.
5320	SPLUNER & MERRILL CO.	5396	STEEL FORM, INC.
5321	SPIRO, U. S. A., INC.	5397	STEEL FORGINGS INC.
5325	SPRAY ENGINEERING CO.	5398	STEEL STRUCTURES PAINTING COUNCIL
5330	SPRAYING SYSTEMS CO.	5399	STEEL SERVICE COMPANY, INC.
5335	SPRINGFIELD ROLLER	5400	STEEGO STEEL CO.
5340	SPRINGFIELD FOUNDRY INC.	5401	STELLAR MFG CO.
5342	SPRINKMAN SONS CORP.	5402	STELLITE DIVISION
5343	S.W. CONSTRUCTION	5403	STEPHENS-ADAMSON MFG. CO.
5344	SPUR & SIDING CONSTRUCTORS COMPANY, INC.	5404	STERLING ELECTRIC MOTORS, INC.
5345	SQUARE D CO.	5405	STERLING TOOL
5347	S-P MANUFACTURING COMPANY, THE	5406	STEVENS INSTRUMENT
5348	S-T-M SUPPLY CO.	5407	STEWART & STEVENSON SERVICES INC.
5349	STANCO CORP.	5408	STEWART MECHANICAL ENTERPRISE INC.
5350	ST. JOHN X-RAY LAB.	5410	STOCK EQUIPMENT CO.
5351	STANDARD HEADROOM	5411	STOCKWELL LAB.
5353	STANSPEC CORP.	5412	STOCKTON STEEL
5354	STANDARD ELECTRICAL TOOL COMPANY	5413	STOCKHAM VALVE CO.
5355	STACKPOLE CARBON CO.	5414	STOKVIS MULTITON CORP.
5356	STAINLESS DISTRIBUTERS INC.	5415	STOLLER CORP., S. W.
5357	STAINLESS DISTRIBUTERS & SUPPLY	5417	STODDY COMPANY
5358	STANDARD PIPE AND SUPPLY CO., INC.	5420	STONE & WEBSTER ENGINEERING CORP.
5359	STAIN-STEEL INK.	5421	STONCS
5360	STAIN RIDER, INC.	5424	STOVER STEEL TANK MFG. COMPANY
5361	STANCOR	5425	STOW MFG. CO.
5362	STAINLESS ALLOY METALS	5427	STRAHMAN
5363	STAINLESS PIPE & FITTINGS, INC.	5430	STRAINSERT CO.
5364	STAINLESS PRODUCTS	5431	STRANZ
5365	STAINLESS EQUIPMENT CO.	5432	STRATFLOW PRODUCTS, INC.
5366	STANDARD FITTING CO.	5433	STRESS STEEL CORPORATION
5367	STANDARD SWITCH	5435	STRONG-CARLISLE-HAMMUND
5368	STANDARD PRESSED STEEL CO.	5436	STRUCTURAL SALES, INC.
5369	STANCO BOLT CO.	5437	STRUCTURAL STEEL COMPANY
5370	STANLEY CONSULTANTS, INC.	5438	STRUCTURAL METALS INC.
5371	STALLINGS & LANLEY	5439	STRUCTURAL SYSTEM, INC.
5372	STANRAY CORP., IND. SERVICE DIV.	5440	STRUTHERS DUNN, INC.
5373	STAPLES & PFEIFFER	5441	STRUCTURAL ALLIED COMPANY
5374	STARRETT, L. S.	5443	STRUTHERS NUCLEAR & PROCESS CO.
5375	STATS CO. THE	5445	STRUTHERS WELLS CORP.
5376	STAR HYDRAULICS	5446	STUSSER ELECTRIC
5377	STAPLEX CO.	5447	STRYCO MANUFACTURING CO.
5378	STANDARD DRY WALL PRODUCTS, INC.	5448	STUPP BROTHERS BRIDGE & IRON COMPANY
5379	STATIC PRODUCTS	5449	SULFRIAN CRYOGENICS INC.
5380	STATHAM INSTRUMENTS, INC.	5450	SULZER BRUS. INC.
5381	STAUFF CORPORATION	5451	SUBGRADE CONSTRUCTION CORP.
5382	STATIC-U-RING	5452	SULZER - KSB
5383	STD TOOL AND DIE	5453	SUN SHIPBUILDING & DRYDOCK COMPANY
5384	STAUBER, E. CO.	5454	SUNITOMO METAL INDUSTRIES
5385	STEARNS MAGNETIC MFG CO.	5455	SUNDH ELECTRIC CO.
5389	STEEL DISTRIBUTION INC.	5460	SUNDSTRAND CORP.
5390	STEARNS-ROGER CORP.	5465	SUNTAC NUCLEAR CORP.
5391	STEELCRAFT CO.	5470	SUPERINTENDENCE CO., INC.
5392	STEARNS-ROGER FABRICATORS INC.	5472	SUPERIOR AIR HANDLING CO.
5393	STEEL ALLOY FABRICATORS	5474	SUPERIOR CONSTRUCTION

VENDOR LIST AND REFERENCE NUMBERS (Continued)

REF NO.	VENDOR	REF NO.	VENDOR
5475	SUPERIOR ELECTRICAL CO	T067	TECHNICAL DISTRIBUTORS, INC.
5477	SUPERIOR HYDRAULICS DIVISION	T070	TECHNICAL OPERATIONS, INC.
5480	SUPERIOR SMD & DEVICES	T073	TECHNICAL REPRESENTATION, INC.
5484	SUPERIOR WIRE & METAL PRODUCTS, INC.	T074	TECHO CORPORATION
5485	SUPERIOR TUBE	T075	TECHNICAL PRODUCTS, INC.
5486	SURF-A-LITE	T076	TECHNOLOGY INC.
5487	SUPERIOR VALVE CO.	T077	TECHNI-FAB., INC.
5490	SUSQUEHANNA-WESTERN, INC.	T078	TECHNIPOWER INC.
5492	SUTORBIT CORPORATION	T079	TEKTRO INC.
5494	SWANSON CONTRACTING COMPANY, INC.	T080	TEKTRONIX, INC.
5495	SW FABRICATING & WELDING CO	T081	TELB ELECTRIC
5496	SWAN MFG	T082	TELEDYNE COLOMBIA - SUMMERILL
5497	SWAN ENGINEERING AND MACHINERY CO.	T083	TELEDYNE CORPORATION
5498	SWANSON ENGINEERING	T085	TELEDYNE MATERIALS RESEARCH
5499	SWANSON-GENTLEMAN, INC.	T090	TELEDYNE-BROWN ENGINEERING
5500	SWARTWOUT CO	T095	TELEDYNE-FARRIS ENGINEERING
5505	SWECO INC.	T100	TELEDYNE-GEOTECH
5507	SWELLAND CORP.	T105	TELEDYNE-ISOTOPIES
5508	SWENDENRAN	T107	TELEDYNE MCKAY MFG. CO.
5510	SWENSON- DIV. OF WHITING CORPORATION	T109	TELEDYNE PHILBRUCK NEXUS
5515	SWPCO TUBE CORP.	T110	TELEDYNE-WAH CHANG ALBANY
5517	SWISS HAMMER	T111	TELEDYNE-SPRAGUE ENGINEERING CO
5518	SWITCHCRAFT	T114	TELETYPE
5519	SYNCHRO START PRODUCTS	T115	TELEFLEX, INC.
5520	SYNTRON CO	T116	TELMAR
5523	SYRACUSE ELECTRONICS	T117	TEMP FLEX DIV. ASSOCIATED PIPING
5524	SYSTEMS CONTROL CORP	T119	TEMPLAR, INC.
5525	SYSTEMS ENGINEERING LABORATORIES, INC.	T120	TEMPO INSTRUMENT, INC
5529	SYSTEMS ENG & MFG CO.	T125	TEXTEX TEMPERATURE SYSTEMS & COMPONENTS CO
T001	TABER PUMP COMPANY, INC.	T130	TENNECOMP SYSTEMS, INC.
T002	T&S BRONZE WORKS	T135	TENNELEC, INC.
T004	T&F MFG. CO.	T140	TENNESSEE NUCLEAR SPECIALTIES, INC.
T005	T & T	T141	TEXAS UTILITIES INC.
T010	TAGGART, INC., ROBERT	T142	TENNESSEE VALLEY AUTHORITY
T015	TAGLIARUE MFG	T143	TEXAS MARINE INDUSTRIAL SUPPLY CO.
T017	TANGO INC.	T144	TEXAS UTILITIES GENERATING CO.
T019	TAPECOAT	T145	TENNEY ENGINEERING, INC.
T020	TARGET ROCK CORPORATION	T146	TERA CORPORATION
T023	TASKER INDUSTRIES	T147	TERRY STEAM TURBINE COMPANY
T024	TAT ENGINEERING CO.	T148	TERRICE CO
T025	TATE TEMCO, INCORPORATED	T149	TEXAS TRANSFORMER
T027	TANDSIG ASSOCIATE INC.	T150	TESHIBA MANUFACTURING
T028	TALMAN CO.	T151	TEXAS A & M UNIVERSITY
T030	TAYLOR ENGINEERING CORP.	T152	TEXAS BOLT CO.
T035	TAYLOR FORGE DIV.	T153	TEXAS ELECTRIC STEEL CASTING CO.
T037	TAYLOR INDICATOR	T154	TEXAS FORGE
T039	TAYLOR INSTRUMENT COMPANIES	T155	TEXAS INSTRUMENTS INC.
T040	TAYLOR INSTRUMENT PROCESS CONTROL DIV.	T156	TEXAS FALNGE AND MFG.
T042	TAYLOR, R.H., COMPANY	T157	TEXAS METAL WORKS, INC.
T045	TAYLOR INDUSTRIES	T158	TEXAS INDUSTRIES, INC.
T047	TECHNICAL EDUCATION RESEARCH CENTER	T159	THATCHER ENGINEERING CORP.
T050	TECH ELECT PNL CORP	T160	TEXAS PIPE AND BENDING, INC.
T055	TECH ELECTRIC	T161	TGM DETECTORS, INC.
T060	TECHNIC INC.	T162	THERMAN MANUFACTURING CO.
T065	TECHNICAL ASSOCIATES	T163	THAMES PERMACRETE

## VENDOR LIST AND REFERENCE NUMBERS (Continued)

REF NO.	VENDOR	REF NO.	VENDOR
T164	THAMES VALLEY STEEL CORPORATION	T260	TRACER LAB
T165	THERMO ELECTRIC CO., INC.	T262	TRACOR NORTHERN, INC.
T166	THERMALINK CORPORATION	T265	TRANE CO
T168	THERMO-COUPLE	T270	TRANS-WEIGH CO
T169	THERMO-COUPLE PRODUCTS CO.	T275	TRANSAMERICAN INSTRUMENT CORP.
T170	THERMO ELECTRON CORP.	T280	TRANSCO INC.
T171	THERMO DYNAMICS	T283	TRANSENERGY CORP.
T173	THERMULYNE CO.	T285	TRANSFER SYSTEMS, INC.
T175	THERMO MAGNETICS, INC.	T287	TRANSMATION, INC.
T180	THERMUMATICS, INC.	T290	TRANSNUCLEAR INC.
T185	THERMON MFG	T295	TRANTR MFG., INC.
T190	THERMUNETICS CORP.	T296	TRIANGLE CONSTRUCTION CO.
T192	THERMO VOLT	T300	TRAPELO
T193	THERMXCHANGER	T301	TRIANGLE-PWC-INC.
T194	THERMOWELLS, INC	T302	TRW MISSION MFG COMPANY
T195	THETA INSTRUMENT CORP.	T303	TRICO FUSE MANUFACTURING CO
T196	THOMAS COMPANY	T304	TRERICE
T197	THOMAS A. EDISON IND.	T305	TRAVERSE CITY IRON WKS
T198	THOMAS AND BETTS ENGINEERED	T306	TRW NELSON DIVISION
T199	THOMAS PUMP CO., INC.	T307	TREMCO MFG COMPANY, THE
T200	THOMPSON ELECTRIC CO	T308	TRI-CITY ELECTRIC COMPANY
T201	THOMPSON LIGHTING PROTECTION	T309	TREVICE, H.O., COMPANY
T202	THOMPSON PIPE & STEEL COMPANY	T310	TRENT TUBE DIV.
T203	THOMPSON TANK & MFG. CO.	T311	TRINITY FORGE INC.
T205	THOMSON, G. W. CO.	T312	TRINITY EQUIPMENT CORP.
T207	THOMPSON AND JOHNSON	T313	TRI-STATE MOTOR EXPRESS
T209	THORLE COR COMPANY	T314	TRIANGLE ENGINEERING CO.
T210	TIGERMAN ENGINEERING	T315	TRUMBULL ELECTRIC MFG
T211	TINKER & RASCH CO.	T316	TRIDENT
T212	TIME NATIONAL LABORATORIES	T317	TRIAD TRANSFORMER
T214	TIME TRCL	T318	TROY LAUNDRY MACHINE DIVISION
T215	TIMES WIRE AND CABLE	T319	TRU-SEAL INC.
T217	TIMKIN ROLLER BEARING	T320	TRUSCON STEEL CO
T218	TITAN	T321	TRUSCON LABORATORIES
T220	TITANIUM METAL CORP. OF AMERICA	T322	TUBES-GEIGER MULLER
T225	TITUS MFG CO	T323	TRUMBULL CORPORATION
T226	TIT BARCOCK, INC.	T324	TRU-FIT SCREW PRODUCTS CORP
T230	TOBE DEUTSCHMANN CO	T325	TUBE METHODS INC.
T232	TOCH BROTHERS, INC.	T326	TRUSSBUILT COMPANY
T235	TODD SHIPYARDS CORP.	T327	TUBE SALES
T239	TOKHEIM CO.	T330	TUBE TURNS DIV
T240	TOKYO SHIBAURA ELECTRIC CO. LTD.(TOSHIBA)	T335	TUBECO, INC.
T242	TOLLEU EDISON COMPANY	T336	TUBOFLEX CO.
T243	TOLL ASSOCIATES	T337	TUBULAR PRODUCTS DIV.
T244	TOMKINS-JOHNSON	T339	TUDOR CONSTRUCTION COMPANY
T245	TOOLING SPECIALISTS, INC.	T340	TUFLINE
T248	TOPAZ ELECTRONICS	T342	TUTTLE-RAILEY
T250	TERNGREN CO.	T343	TUTHILL PUMP CO.
T251	TORRINGTON BRG. COMPANY	T344	TURBINE TOOL CAR
T252	TORRINGTON	T345	TURCO PRODUCTS
T253	TORNICO ELECTRONICS INC.	T346	TURNER IRON CO.
T254	TOTAL KON-GE. FUERSTNER AND COMPANY	T347	TWIN CITY TESTING
T255	TOWER IRON WORKS, INC.	T348	TWINING LABORATORIES
T256	TOWER-OLSHAN CO.	T349	TWINCO INC.
T257	TOYO KEIKI KOGYO	T350	TYLAN CORP.

## VENDOR LIST AND REFERENCE NUMBERS (Continued)

REF NO.	VENDOR	REF NO.	VENDOR
T351	TYCO INSTRUMENT DIVISION	U097	UNITED STATES PLASTIC CORPORATION
T352	TURBO LUFTTECHNIK SYSTEMS	U100	UNITED STATES RADIUM CORP.
T353	TURNER CONSTRUCTION SYSTEMS	U104	UNITED STATES RUBBER COMPANY
T354	TYLER-DAWSON SUPPLY CO.	U105	UNITED STATES STEEL CORP.
T355	TYNARD-LAND MAINTENANCE	U106	UNITED STATES STEEL SUPPLY
U001	UCHIDA OIL HYDRAULICS	U109	UNITED TRANSFORMER COMPANY
U002	U. S. ALLOY STEEL	U110	UNITED STATES TESTING CO., INC.
U005	U. S. ELECTRIC	U115	UNITRON INSTRUMENT CO.
U009	U.S. NUCLEAR REGULATORY COMMISSION	U119	UNIVERSAL ATLAS CEMENT DIV. OF U.S.S.
U010	U. S. WAGE COMPANY	U120	UNIVERSAL FABRICATED PRODUCTS COMPANY
U011	U.S. NATIONAL BUREAU OF STANDARDS	U121	UNIVERSAL ELECTRIC COMPANY
U012	U.S. GROUT CORP.	U125	UNIVERSAL INDUSTRIES
U013	U.S. MILURS	U130	UNIVERSAL OIL PRODUCTS CO.
U014	U.S. INDUSTRIAL PAINTING, INC.	U133	UNIVERSAL METAL HOSE CO.
U015	U.S. NUCLEAR, INC.	U134	UNIVERSAL SILENCER CORP.
U016	U. S. WELDING SUPPLY	U135	UNIVERSAL TECHNICAL TESTING LABORATORIES
U017	UEHLING INSTRUMENT CO.	U137	UNIVERSAL WIRE AND CABLE CO.
U018	U.S. PUMPS INC.	U139	UNIV. OF CALIF., C. OF ENGR., D. R. S.
U020	UGINE INDUSTRIES, INC.	U140	UNIVERSITY SOFTWARE SYSTEMS
U025	ULTRA CARBON CORP.	U144	UPCO COMPANY, THE
U027	UMM	U145	UPTEGRAFF, R. E. CO.
U030	UNIFORM TUBES INC.	U150	US ELECTRICAL MOTORS
U033	UNILED	U155	US HOFFMAN MACHINE
U034	UNION BOILER	U160	USC INC./ENERGY SYSTEMS GROUP
U035	UNION CARBIDE CORP.	U165	US GYPSUM CO.
U037	UNION CHAIN MFG.	U186	UNIVERSAL WELDING ALLOYS
U040	UNION CONVEYOR CORP.	V005	V.O.P.
U045	UNION ELECTRIC MFG.	V010	VACCO INDUSTRIES
U050	UNION METAL MFG.	V014	VACUUM APPARATUS
U054	UNION PACIFIC	V015	VACUMITE INC.
U055	UNION PUMP COMPANY	V020	VACUUM INDUSTRIES INC.
U057	UNION SPRING & MANUFACTURING COMPANY	V025	VACUUM/ATMOSPHERES CORP.
U060	UNION STEAM PUMP CO.	V029	VALCO
U062	UNION STEEL CORP.	V030	VALCOR ENGINEERING CORP.
U063	UNISURR MACHINERY INSULATION SYSTEMS	V033	VALMONT INDUSTRIES
U064	UNIT DOOR COMPANY	V034	VALLEY CONSOLIDATED INDUSTRIES INC.
U065	UNION SW & SIGNAL DIV.	V035	VALLOYNE ENGINEERING CORP.
U066	UNITROYAL, INC.	V036	VALLEY STEEL PRODUCTS CO.
U067	UNITTECH COMPANY	V037	VALTER INCORPORATED
U068	UNISTRUT CORPORATION	V038	VALVE AND PRIMER CORP.
U069	UNIT ELECTRIC CO.	V040	VANCE STEEL BORING SERVICE, INC.
U070	UNITED AIRCRAFT PRODUCTS, INC.	V045	VANCE PRECISION INDUSTRIES
U073	UNITED CONVEYOR CORP.	V047	VAN KERPPEL CONSTRUCTION COMPANY, INC.
U074	UNITED CONTROL DIVISION	V050	VANTON PUMP & EQUIPMENT CORP.
U075	UNITED ELECTRIC DIVISIONS COMPANY	V052	VAPOR CORPORATION - TXT DIVISION
U080	UNITED ENGINEERS & CONSTRUCTORS, INC.	V053	VAPOR RECOVERY SYS. COMPANY
U081	UNITED FABRICATORS, INC.	V054	VAREC, INC.
U084	UNITED MCGILL	V060	VARIAN ASSOCIATES
U085	UNITED MINERAL & CHEMICAL CORP.	V065	VARIAN DATA MACHINES
U087	UNITED NUCLEAR INDUSTRIES	V067	VARIETY FIRE DOOR
U090	UNITED NUCLEAR CORP.	V068	VARTICEL
U091	UNITED STATES COATING ENGINEERS, INC.	V070	VECTOR CORP.
U092	UNITED STATES FILTER CORP.	V073	VECTROLS
U094	UNITED STEEL	V075	VEEDER ROOT COMPANY
U095	UNITED STATES PIPE & FOUNDRY COMPANY	V080	VELAN ENGINEERING COMPANIES



## VENDOR LIST AND REFERENCE NUMBERS (Continued)

REF NO.	VENDOR	REF NO.	VENDOR
V085	VELAN VALVE CORP.	W020	WALL TUBE & METAL PRODUCTS CO.
V086	VENDER-PLUMBING.	W021	WALLACE AND COMPANY
V089	VENTILDURE CO., INC.	W023	WALLACE-MURRAY CORP.
V090	VELDNER	W025	WALLACE & TIERNAN, INC.
V091	VERAKO PRODUCTS	W026	WALLGREEN CONSTRUCTION COMPANY
V092	VENETIAN ORNAMENTAL IRON WORKS, INC.	W028	WALNOR COMPANY
V093	VERMONT YANKEE NUCLEAR POWER CORP.	W030	WALWORTH CO.
V094	VERSABAR CORPORATION	W031	WALTER, J., DOORS, DIV OF GELOTEX CORP.
V095	VERSA PRODUCTS	W032	WALTER NORRIS ENGINEERING CO.
V096	VERMONT RESEARCH CORP	W033	WALTER KIDDE & CO., INC.
V097	VERIFLO	W034	WALSH CONSTRUCTION CO.
V100	VEZAN-WEST AND CO.	W035	WANG LABORATORIES, INC.
V102	VIBRANETICS, INC.	W037	WARCO CONTROL CENTER
V103	VIBRATION ELIMINATOR CO.	W040	WARD LEONARD ELECTRIC COMPANY
V104	VIBRATION CONTROLS CORP.	W045	WARNER & SWASEY CO
V105	VICKERS, INC.	W046	WATER ASSOCIATES
V106	VIBROFLOTATION FOUNJATION COMPANY	W047	WATTS REGULATOR CO
V110	VICKERY SIMMS, INC.	W048	WEAR-FLEX SLINGS
V112	VICTORIA IRON AND METAL	W049	WEKSLEK, INC
V113	VICTOR MANUFACTURING CO	W050	WARNER ELEVATOR MFG CO
V114	VACTORR PUMP CO	W051	WARREN-RUPP PUMP CO
V115	VICTOREEN INSTRUMENT DIV.	W052	WARREN BARR SUPPLY CO.
V116	VIERLING STEEL WORKS	W053	WARREN PUMPS
V117	VICTOR SPECIALTIES	W054	WATUBO INDUSTRIES
V118	VIDEOTECHNIQUES	W055	WARRICK, CHARLES, F. CO
V119	VIKING AUTOMATIC SPRINKLER COMPANY	W057	WASHINGTON PUBLIC POWER SUPPLY SYSTEM
V120	VIKING INDUSTRIES	W058	WATTS PLUMBING SPECIALISTS
V121	VIKING FIRE PROTECTION COMPANY	W059	WAUKESHA ELEC. MACH.MFG COMPANY
V125	VIKING PUMP CO	W060	WASHINGTON TOOL AND MACHINE COMPANY
V126	VINYL PLASTICS, INC.	W061	WATSON, H.S., COMPANY
V127	VIRGINIA ELECTRIC & POWER COMPANY	W062	WATKINS BRICK COMPANY
V128	VIRGINIA METAL CO.	W063	WATER TREATMENT CORP.
V129	VISCOSITY OIL CO.	W064	WATERS EQUIPMENT
V130	VISUAL INDUSTRIAL PRODUCTS, INC.	W065	WATLOW ELECTRIC MFG. CO.
V132	VITRO ENGINEERING DIVISION	W066	WAUKEGAN STEEL
V133	VOGEL-PETERSON	W067	WATSON MANUFACTURING CO., INC.
V135	VOGT, HENRY MACHINE CO.	W068	WATSON-STILLMAN CO.
V138	VOUGHT CORP.	W069	WAYNE ELECTRONICS
V140	VOKES, H. L. CO	W070	WAUKESHA FOUNDRY CO., INC.
V141	VOSSCO CO	W071	WEATHERGUARD PRODUCTS
V142	VOTAW PRECISION TOOL COMPANY	W072	WEIL PUMP CO.
V150	VSL CORPORATION	W073	WEINMAN PUMP MFG. CO.
V159	VULCAN MATERIALS COMPANY	W074	WEBER GAGE CO.
V162	V.M.P.S.-G.E. SAN JOSE.	W075	WEKSLER INSTRUMENT CORPORATION
W001	WAAGNER-BIRD	W076	WEJ-IT EXPANSION PRODUCTS
W002	W-S FITTING WORKS	W077	WELDCRAFT EQUIPMENT CO.
W004	WADE, DIV OF TYLER PIPE	W078	WEBSTER ELECTRIC
W005	WAGNER ELEC CORP	W079	WEDCO CORP.
W007	WAHCO CONSTRUCTION COMPANY	W080	WELDING AND STEEL FABRICATION CO., INC.
W010	WAKEFIELD BRASS CO	W081	WECO
W012	WALCON CORP.	W082	WEBB MATERIAL HANDLING
W013	WALDEN INDUSTRIAL	W083	WEISS, ALBERT A & SON, INC.
W014	WALDINGER, THEI CORPORATION	W084	WELCO ALLOYS
W015	WALKER-PARKERSBURG DIV	W085	WERNER & PFLEIDERER CORP.
W016	WALDRON COUPLINGS, MACHINERY DIV OF MIDLAN	W086	WELL EQUIPMENT MFG. CORPORATION

## VENDOR LIST AND REFERENCE NUMBERS (Continued)

REF NO. ---	VENDOR -----	REF NO. ---	VENDOR -----
W087	WENDENEGEL & COMPANY, INC.	W180	WHITLOCK MFG. CO., THE
W088	WEST CHEMICAL PRODUCTS, INC.	W185	WHITTAKER CORP.
W089	WESTCO PUMP SALES	W190	WHITTAKER DIVISION OF TASKER INDUSTRIES
W090	WESCHLER ELECTRIC CORPORATION	W191	WHITTE-HIGGINS COMPANY
W091	WFSMAK	W192	WHOLESALE ELECTRIC SUPPLY CO.
W092	WESTERN ARCHITECTURE IRON	W193	WIANCKO ENG. COMPANY
W093	WESTERN CONTROLS INC.	W195	WICKES BOILER CO
W094	WESTERN CONCRETE STRUCTURES	W200	WIEGLAND, E.L. MFG COMPANY
W095	WESTERN ELECTRIC	W209	WILMAR ELECTRONICS INC.
W096	WELK BROTHERS	W210	WIGGINS, STANLEY B.
W097	WESTERN ENGINE CO.	W211	WILKIN INSULATION
W098	WESTERN FORGE AND FLANGE	W212	WILDMAN BOILER & TANK
W099	WESTERN GEOPHYSICAL ENGINEERS, INC.	W213	WILD-HEERBRUGG CORPORATION
W100	WESTERN INDUSTRIES, INC.	W214	WILKERSON CORP.
W101	WESTERN HYDRAULIC	W215	WILKES PRECISION
W102	WESTERN INC.	W216	WILKENS ANDERSON
W103	WESTERN GEAR CORP.	W217	WILLIAMS AND CO.
W104	WESTERN MARINE ELECTRONICS CO.	W218	WILLIAMS CRANE & RIGGING
W105	WESTERN PIPING & ENGINEERING CORP. OF L.A.	W219	WILLIAMS & LANE INC.
W110	WESTERN PRECIPITATION	W220	WILLIAMS PRODUCTS, INC.
W115	WESTERN SINTERING CO., INC.	W241	WILLIAMSBURG
W116	WESTERN SWITCHBOARD COMPANY	W242	WILLAMETTA CO.
W117	WESTERN TOOL	W225	WILLIAMSUN CORP.
W118	WESTERN TANK & STEEL CO.	W247	WILLIANETTE IRON & STEEL CO.
W119	WESTINGHOUSE AIR BRAKE CO. (WABCO)	W228	WILSON ANCHOR SLEEVE, INC.
W120	WESTINGHOUSE ELECTRIC CORPORATION	W229	WILTON-FIJENOORD N.V.
W121	WESTINGHOUSE ELECTRIC COMPANY (ELEV DIV)	W230	WING, L. J. MFG
W122	WHEATON WELL WORKS	W232	WINSMITH INC.
W125	WELTON ELEC INSTRUMENT	W235	WINSTON MFG CO
W126	WESTON GEOPHYSICAL ENGINEERS, INC.	W236	WINTER BRGS CO
W127	WESTON HYDRAULICS DIV.	W237	WINTER CONTROL
W128	WEST STEEL	W240	WISCONSIN BRIDGE & IRON
W130	WESTRONICS, INC.	W241	WISCONSIN CENTRIFUGAL INC.
W131	W.F. & JOHN BARNES	W242	WISCONSIN MICHIGAN ELECTRIC COMPANY
W132	WHEATLEY, CHARLES, COMPANY	W244	WISMER AND BECKER
W133	W.H.A.M. COMPANY	W245	WISCONSIN PROTECTIVE COATING CORP.
W135	WHEATON SCIENTIFIC	W247	WISCONSIN PUBLIC SERVICE CORPORATION
W137	WHEELABRATOR CORP.	W248	WISCONSIN STEEL
W138	WHEELABRATOR-FRYE, INC.	W249	WISS, JANNEY, ELSTNER AND ASSOCIATES
W140	WHEELER, C. H. DIV	W250	WITCO CHEMICAL CO.
W141	WHEELER REFLECTOR CO., INC.	W251	WISO
W145	WHEELING CORRUGATING	W255	WKM VALVE DIV.
W146	WHEELLOCK	W260	WOLFE AND MANN MFG. CO., THE
W150	WHIRL AIR FLOW	W265	WOLLENSAK, INC.
W151	WHITE ENGINE INC.	W270	WOLVERINE TUBE DIV.
W152	WHITE INDUSTRIAL POWER, INC.	W275	WOOD, JOHN MFG
W153	WHITE, J.S.	W280	WOOD, N. COUNTER LABORATORY, INC.
W155	WHITE, RALPH CO., THE	W285	WOODBIDGE ORNAMENTAL
W156	WHITEACRE ENGINEERING COMPANY	W286	WOODIN & LITTLE
W160	WHITEHEAD & KALES CO.	W267	WOODS, T.B. AND SONS
W161	WHITEHEAD METAL	W288	WOODMAK WELDING & FABRICATING, INC.
W162	WHITEHOUSE, IRVIN H. & SON, INC.	W290	WOODWARD GOVERNOR CO
W165	WHITEY CO.	W295	WOODWARD-CLYDE CONSULTANTS
W170	WHITING CORP	W296	WOODWARD-LUNDGREN AND ASSOCIATES
W175	WHITING FOUNDRY EQUIP	W297	WOODWARD-MOORHOUSE & ASSOCIATES, INC.

## VENDOR LIST AND REFERENCE NUMBERS (Continued)

REF AL. ---	VENDOR -----	REF NO. ---	VENDOR -----
		2010	ZURN IND., INC
W300	WOOLEY CO.		
W301	WOCSTER PRODUCTS, INC.		
W302	WOOLLEY, W. J. CO.		
W303	WOOLSEY MAINE INDUSTRIES		
W304	WUCSTER ELECTRIC CO.		
W305	WORCESTER CONTRCLS CORP.		
W306	WORCESTER POLYTECHNIC INST. MECH ENG DEPT		
W308	WORCESTER VALVE CO INC.		
W310	WORDEN-ALLEN CO		
W312	WORLD WIDE RESEARCH		
W314	WORTHINGTON CONTROLS COMPANY		
W315	WORTHINGTON CORP.		
W316	WALDINGER-YOUNG & BERTKE		
W317	WORTHINGTON SALES INTERNATIONAL		
W318	WORTHINGTON PUMP CORP.		
W320	WRIGHT-AUSTIN CO		
W322	WRIGHT, F.B., COMPANY		
W323	WRIGHT WATERPROOFING CO.		
W324	WRIGHT, SCHUCHART, HARBOR, INC.		
W325	WRIGHT, HOWARD S. CONSTRUCTION CO.		
W326	WRIGHT HOIST DIVISION		
W327	WSP INDUSTRIES, INC.		
W330	WYATT DIV.		
W335	WYATT INDUSTRIES, INC.		
W340	WYMAN-GORDON CO.		
X001	XEROX DATA SYSTEM		
X002	XOMEX CORPORATION		
X005	X-RAY ENGINEERING CO.		
X007	X-RAY INDUSTRIAL		
X010	X-RAY PRODUCTS CORP.		
Y002	YALE AND TOWNE		
Y003	YALE		
Y004	YANKEE ATOMIC ELECTRIC CO.		
Y005	YARNALL-WARING CO		
Y010	YARWAY CORP		
Y011	YAWATA IRON & STEEL CO.		
Y012	YEAGER, HENRY J. ASSOCIATES		
Y014	YELLOW SPRINGS INSTRUMENT CO. INC.		
Y015	YEDMANS BROTHERS		
Y019	YORK ELECTRIC PANEL CONTROL CORP.		
Y020	YORK, G. H., CO.		
Y021	YOUNG RADIATOR CO.		
Y022	YOUNGSTOWN SHEET AND TUBE CO.		
Y025	YOUNGSTOWN STEEL TANK		
Y027	YOUNGSTOWN WELDING AND ENGINEERING		
Y029	YUBA CONSOLIDATED INDUSTRIES		
Y030	YUBA HEAT TRANSFER		
Z001	ZACHRY CO., H.B.		
Z002	ZELLE BROTHERS, INC.		
Z003	ZANE WELDCRAFT, INC.		
Z004	ZAUG CO., JOHN		
Z005	ZINCUNIUM TECHNOLOGY CORP.		
Z006	ZIMMERMAN, E.W., INC.		
Z007	ZACK COMPANY.		
Z008	ZINSCO ELECTRICAL PRODUCTS		

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